

HUC 110600 Arkansas-Keystone

HUC 6 Watershed Climate Change Atlas Tree Species

USDA Forest Service
Northern Research Station
Landscape Change Research Group
Iverson, Peters, Prasad, Matthews

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
eastern redcedar	Juniperus virginiana	WDH	Medium	26.1	54.3	20.4	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	2	1
American elm	Ulmus americana	WDH	Medium	40.3	50.9	14.2	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	2	2
red mulberry	Morus rubra	NSL	Low	14.5	36.8	20.8	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			2	3
Osage-orange	Maclura pomifera	NDH	Medium	17.5	36.3	16.5	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	4
post oak	Quercus stellata	WDH	High	10.4	36.1	19.3	Sm. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	5
eastern cottonwood	Populus deltoides	NSH	Low	7.5	34.8	34.0	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	6
hackberry	Celtis occidentalis	WDH	Medium	30.3	34.6	9.2	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	7
honeylocust	Gleditsia triacanthos	NSH	Low	13.3	21.9	21.5	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	8
pecan	Carya illinoensis	NSH	Low	12.5	18.0	12.9	Sm. inc.	Lg. inc.	Low	Rare	Poor	Fair	Infill +	Infill +	2	9
black locust	Robinia pseudoacacia	NDH	Low	3.2	16.3	82.6	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	10
green ash	Fraxinus pennsylvanica	WSH	Low	16.3	15.7	8.2	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	11
blackjack oak	Quercus marilandica	NSL	Medium	13.1	15.3	9.0	Sm. inc.	Sm. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	12
black willow	Salix nigra	NSH	Low	10.1	15.0	15.6	Sm. dec.	No change	Low	Rare	Very Poor	Very Poor			2	13
black walnut	Juglans nigra	WDH	Low	10	12.2	6.6	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	14
Siberian elm	Ulmus pumila	NDH	FIA	6	11.3	19.7	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	15
black oak	Quercus velutina	WDH	High	4.2	6.4	7.6	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	16
northern catalpa	Catalpa speciosa	NSHX	FIA	5.5	6.2	9.1	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	17
sugarberry	Celtis laevigata	NDH	Medium	7.6	4.9	4.2	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	18
white mulberry	Morus alba	NSL	FIA	1.6	4.9	50.0	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	19
peachleaf willow	Salix amygdaloides	NSLX	FIA	0.6	4.4	17.6	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	20
bitternut hickory	Carya cordiformis	WSL	Low	3.1	4.1	4.2	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	21
bur oak	Quercus macrocarpa	NDH	Medium	5.3	4.0	4.6	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	22
black hickory	Carya texana	NDL	High	7.2	3.7	2.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	23
common persimmon	Diospyros virginiana	NSL	Low	4.7	3.2	3.8	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	24
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	6.7	3.2	3.2	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	25
wild plum	Prunus americana	NSLX	FIA	4.4	3.0	9.6	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	26
boxelder	Acer negundo	WSH	Low	5.9	2.6	3.4	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	27
Shumard oak	Quercus shumardii	NSL	Low	1.6	1.8	1.4	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	28
sycamore	Platanus occidentalis	NSL	Low	1.2	1.8	1.3	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	29
white ash	Fraxinus americana	WDL	Medium	2.9	1.6	1.3	No change	No change	Low	Rare	Very Poor	Very Poor			2	30
slippery elm	Ulmus rubra	WSL	Low	3.3	1.5	2.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	31
Kentucky coffeetree	Gymnocladus dioicus	NSLX	FIA	3.5	1.1	2.9	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			2	32
eastern redbud	Cercis canadensis	NSL	Low	3	0.9	0.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	33
northern red oak	Quercus rubra	WDH	Medium	2.3	0.9	0.9	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	34
chinkapin oak	Quercus muehlenbergii	NSL	Medium	3.1	0.9	1.2	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	35
rock elm	Ulmus thomasii	NSLX	FIA	1.6	0.5	5.5	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	36
river birch	Betula nigra	NSL	Low	0.1	0.3	0.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	37
silver maple	Acer saccharinum	NSH	Low	1.6	0.2	1.9	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	38
winged elm	Ulmus alata	WDL	Medium	2	0.2	0.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	39
serviceberry	Amelanchier spp.	NSL	Low	0	0.1	0.0	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	40
black cherry	Prunus serotina	WDL	Medium	0.1	0.0	0.0	Lg. dec.	No change	Low	Rare	Very Poor	Very Poor			0	41
Atlantic white-cedar	Chamaecyparis thyoides	NSH	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	42
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	43
loblolly pine	Pinus taeda	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++	3	44
sugar maple	Acer saccharum	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate +	3	45
Ohio buckeye	Aesculus glabra	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	46
pawpaw	Asimina triloba	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	47



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mockernut hickory	<i>Carya alba</i>	WDL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	48
black ash	<i>Fraxinus nigra</i>	WSH	Medium	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	49
eastern hophornbeam; ironw	<i>Ostrya virginiana</i>	WSL	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	50
pin cherry	<i>Prunus pensylvanica</i>	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	51
water oak	<i>Quercus nigra</i>	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	52
live oak	<i>Quercus virginiana</i>	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	53
cedar elm	<i>Ulmus crassifolia</i>	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	54