

# Southeast Conservation Blueprint Summary

for Arkansas

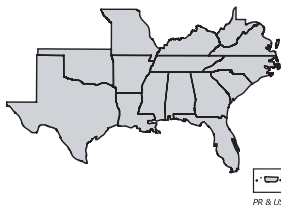


Created 01/19/2024

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The Southeast  
Conservation  
Adaptation Strategy  
SECAS



The Southeast Conservation Blueprint 2023

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## About the Southeast Blueprint

The Southeast Conservation Blueprint is the primary product of the [Southeast Conservation Adaptation Strategy](#) (SECAS). It is a living, spatial plan to achieve the SECAS vision of a connected network of lands and waters across the Southeast and Caribbean. The Blueprint is regularly updated to incorporate new data, partner input, and information about on-the-ground conditions.

The Blueprint identifies priority areas based on a suite of natural and cultural resource indicators representing terrestrial, freshwater, and marine ecosystems. A connectivity analysis identifies corridors that link coastal and inland areas and span climate gradients.

For more information:

- Visit the [Blueprint webpage](#)
- Review the [Blueprint 2023 Development Process](#)
- View and download the Blueprint data and make maps on the [Blueprint page of the SECAS Atlas](#)

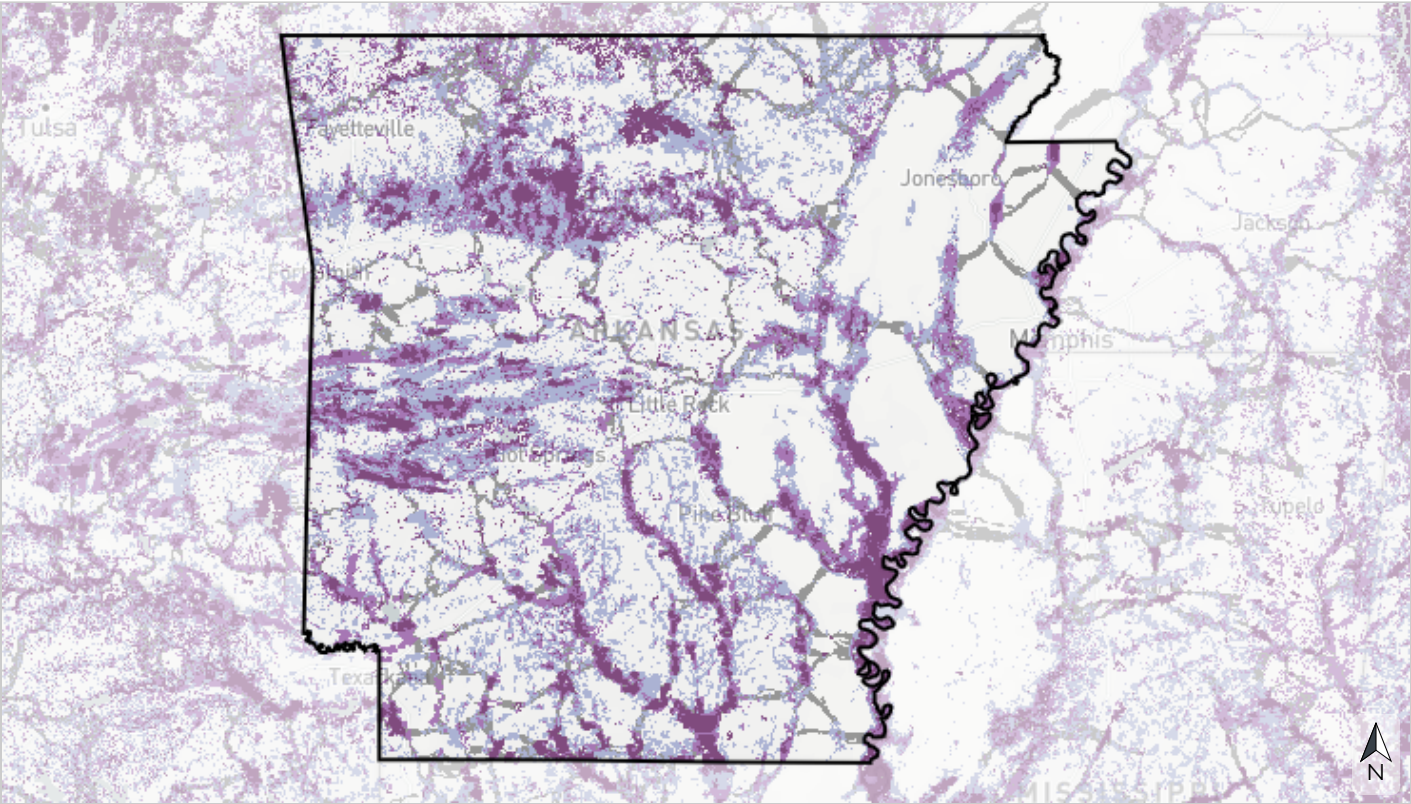
### We're here to help!

- Do you have a question about the Blueprint?
- Would you like help using the Blueprint to support a proposal or inform a decision?
- Do you have a suggestion on how to improve the Blueprint? The Blueprint and its inputs are regularly revised based on input from people like you.
- Do you have feedback on how to improve the Simple Viewer interface?

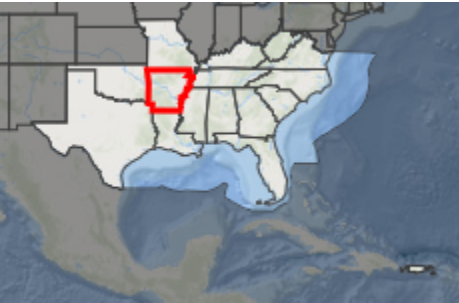
If you need help or have questions, [contact Southeast Blueprint staff](#) by reaching out to a member of the user support team.

We're here to support you. We really mean it. It's what we do!

# Southeast Blueprint Priorities



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**Priorities for a connected network of lands and waters**

- Highest priority
- High priority
- Medium priority
- Priority connections

## Priority Categories

### For a connected network of lands and waters

In total, Blueprint priorities and priority connections cover roughly 50% of the Southeast Blueprint geography.

#### Highest priority

Areas where conservation action would make the biggest impact, based on a suite of natural and cultural resource indicators. This class covers roughly 10% of the Southeast Blueprint geography.

#### High priority

Areas where conservation action would make a big impact, based on a suite of natural and cultural resource indicators. This class covers roughly 15% of the Southeast Blueprint geography.

#### Medium priority

Areas where conservation action would make an above-average impact, based on a suite of natural and cultural resource indicators. This class covers roughly 20% of the Southeast Blueprint geography.

#### Priority connections

Connections between priority areas that cover the shortest distance possible while routing through as much Blueprint priority as possible. This class covers roughly 5% of the Southeast Blueprint geography.

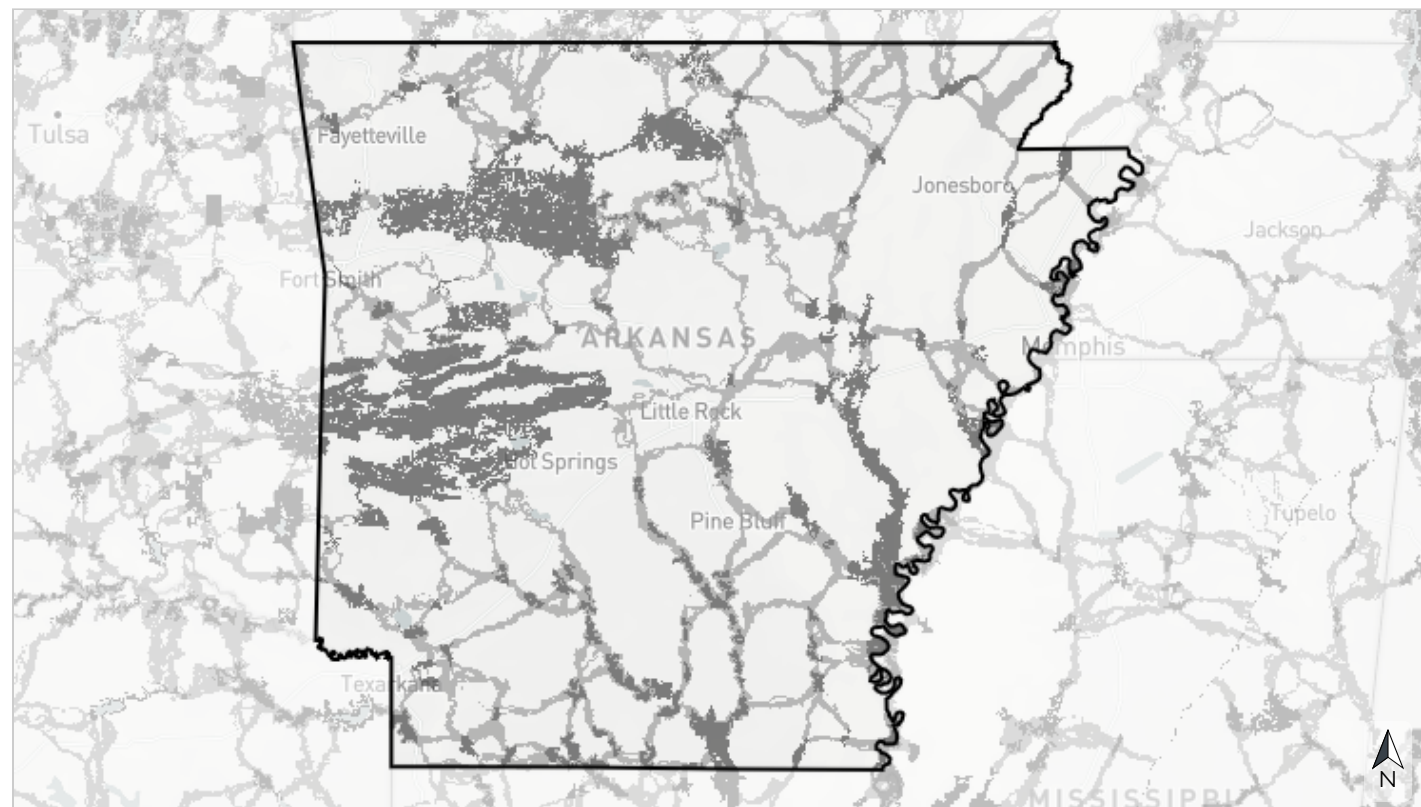
Table 1: Extent of each Blueprint priority category within Arkansas.

Priority Category	Acres	Percent of Area
Highest priority	2,839,822	8.3%
High priority	4,055,689	11.9%
Medium priority	6,354,915	18.7%
Priority connections	1,706,076	5.0%
Lower priority	19,090,258	56.1%
Total area	34,046,760	100%

## Hubs and Corridors

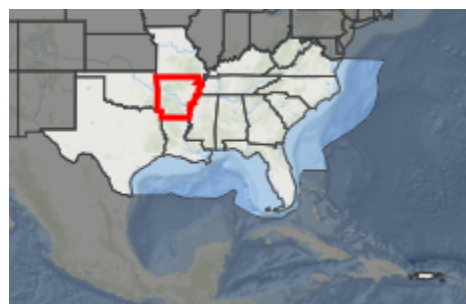
The Blueprint uses a least-cost path connectivity analysis to identify corridors that link hubs across the shortest distance possible, while also routing through as much Blueprint priority as possible.

Inland hubs are large patches (~5,000+ acres) of highest priority Blueprint areas and/or protected lands, connected by inland corridors.



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47 95 190 miles



- Inland continental hubs
- Inland continental corridors
- Not a hub or corridor

Table 2: Extent of hubs and corridors within Arkansas.

Type	Acres	Percent of Area
Inland continental hubs	4,722,527	13.9%
Inland continental corridors	4,960,042	14.6%
Not a hub or corridor	24,364,191	71.6%
Total area	34,046,760	100%

# Indicator Summary

Table 3: Terrestrial indicators.

Indicator	Present
<a href="#">Equitable access to potential parks</a>	✓
<a href="#">Fire frequency</a>	✓
<a href="#">Greenways &amp; trails</a>	✓
<a href="#">Intact habitat cores</a>	✓
<a href="#">Interior Southeast grasslands</a>	✓
<a href="#">Mississippi Alluvial Valley forest birds - protection</a>	✓
<a href="#">Mississippi Alluvial Valley forest birds - reforestation</a>	✓
<a href="#">Resilient terrestrial sites</a>	✓
<a href="#">Urban park size</a>	✓
<a href="#">West Coastal Plain &amp; Ouachitas forested wetland birds</a>	✓
<a href="#">West Coastal Plain &amp; Ouachitas open pine birds</a>	✓
West Gulf Coast mottled duck nesting	-

Table 4: Freshwater indicators.

Indicator	Present
Gulf migratory fish connectivity	-
<a href="#">Imperiled aquatic species</a>	✓
<a href="#">Natural landcover in floodplains</a>	✓
<a href="#">Network complexity</a>	✓
<a href="#">Permeable surface</a>	✓

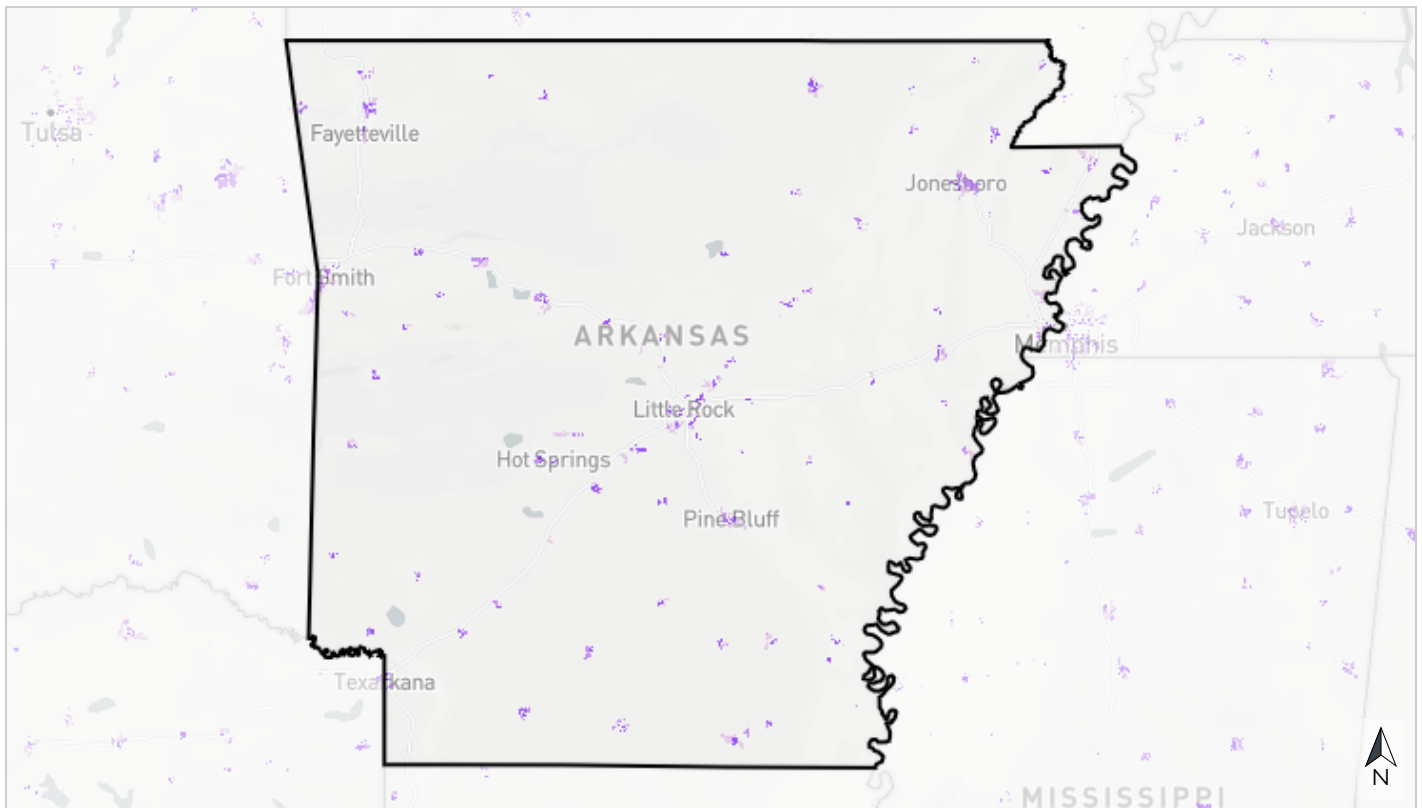




Terrestrial

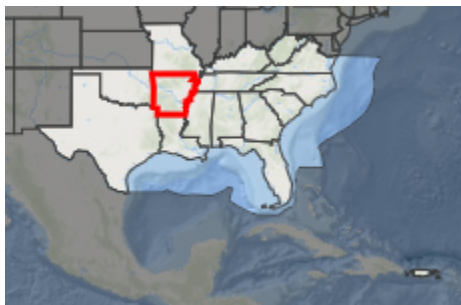
## Equitable access to potential parks

This cultural resource indicator prioritizes places to create new parks that would fill gaps in equitable access to open space within socially vulnerable communities in urban areas. It identifies areas where residents currently lack access to parks within a 10-minute walk (accounting for walkable road networks and access barriers like highways and fences), then prioritizes based on park need using demographic and environmental metrics. Parks help improve public health, foster a conservation ethic by providing opportunities for people to connect with nature, and support critical ecosystem services. This indicator originates from the Trust for Public Land's ParkServe park priority areas and the Center for Disease Control's Social Vulnerability Index.



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### Priority for a new park that would create nearby equitable access

- Very high priority
- High priority
- Moderate priority
- Not identified as a priority (within urban areas)

Table 5: Indicator values for equitable access to potential parks within Arkansas. A good condition threshold is not yet defined for this indicator.

Indicator Values: Priority for a new park that would create nearby equitable access		Acres	Percent of Area
↑ High	Very high priority	84,264	0.2%
	High priority	113,756	0.3%
	Moderate priority	115,982	0.3%
↓ Low	Not identified as a priority (within urban areas)	33,732,758	99.1%
	<b>Total area</b>	<b>34,046,760</b>	<b>100%</b>

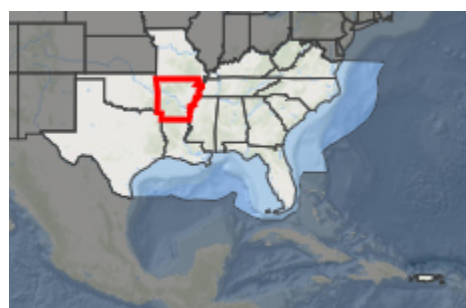
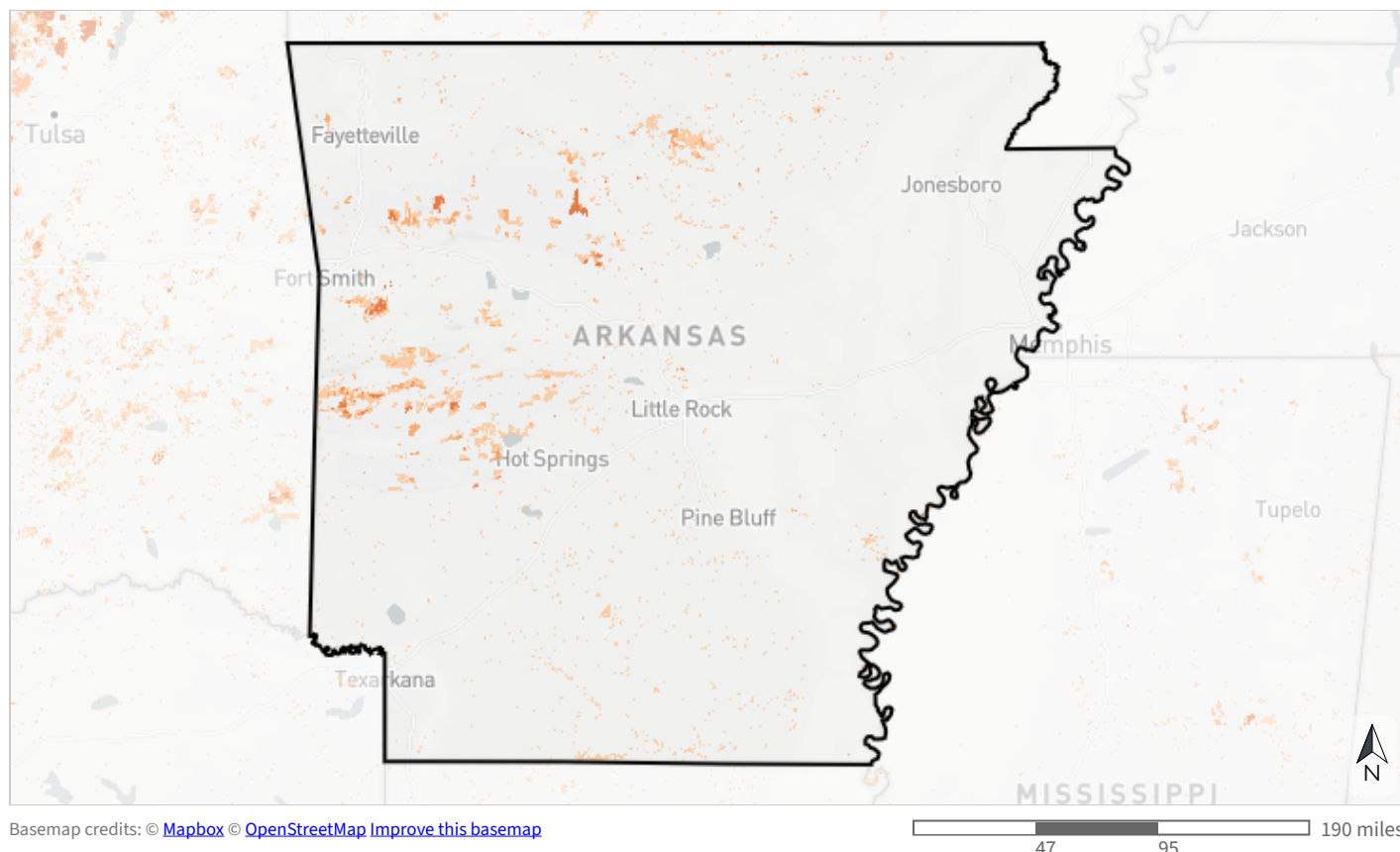
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Terrestrial

## Fire frequency

This indicator uses remote sensing to estimate the number of times an area has been burned from 2013 to 2021. Many Southeastern ecosystems rely on regular, low-intensity fires to maintain habitat, encourage native plant growth, and reduce wildfire risk. This indicator combines burned area layers from U.S. Geological Survey Landsat data and the inter-agency Monitoring Trends in Burn Severity program. Landsat-based fire predictions within the range of longleaf pine are also available through [Southeast FireMap](#).



- Burned 3+ times from 2013-2021
- Burned 2 times from 2013-2021
- Burned 1 time from 2013-2021
- Not burned from 2013-2021 or row crop

Table 6: Indicator values for fire frequency within Arkansas. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	Burned 3+ times from 2013-2021	54,570	0.2%	↑ In good condition
	Burned 2 times from 2013-2021	156,068	0.5%	
	Burned 1 time from 2013-2021	850,511	2.5%	
↓ Low	Not burned from 2013-2021 or row crop	32,985,610	96.9%	↓ Not in good condition
	<b>Total area</b>	<b>34,046,760</b>	<b>100%</b>	

To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



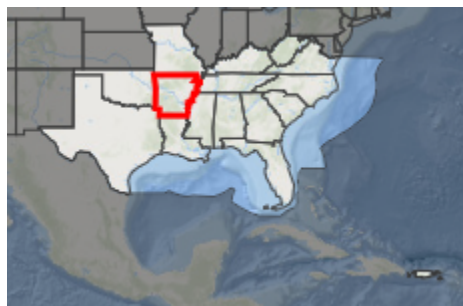
Terrestrial

## Greenways & trails

This cultural resource indicator measures both the natural condition and connected length of greenways and trails to characterize the quality of the recreational experience. Natural condition is based on the amount of impervious surface surrounding the path. Connected length captures how far a person can go without leaving a dedicated path, based on common distances for walking, running, and biking. This indicator originates from OpenStreetMap data and the National Land Cover Database.



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- Mostly natural and connected for  $\geq 40$  km
- Mostly natural and connected for 5 to  $< 40$  km or partly natural and connected for  $\geq 40$  km
- Mostly natural and connected for 1.9 to  $< 5$  km, partly natural and connected for 5 to  $< 40$  km, or developed and connected for  $\geq 40$  km
- Mostly natural and connected for  $< 1.9$  km, partly natural and connected for 1.9 to  $< 5$  km, or developed and connected for 5 to  $< 40$  km
- Partly natural and connected for  $< 1.9$  km or developed and connected for 1.9 to  $< 5$  km
- Developed and connected for  $< 1.9$  km
- Sidewalk
- Not identified as a trail, sidewalk, or other path

Table 7: Indicator values for greenways & trails within Arkansas. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	Mostly natural and connected for $\geq 40$ km	7,212	<0.1%	
	Mostly natural and connected for 5 to <40 km or partly natural and connected for $\geq 40$ km	8,735	<0.1%	
	Mostly natural and connected for 1.9 to <5 km, partly natural and connected for 5 to <40 km, or developed and connected for $\geq 40$ km	6,069	<0.1%	
	Mostly natural and connected for <1.9 km, partly natural and connected for 1.9 to <5 km, or developed and connected for 5 to <40 km	3,548	<0.1%	↑ In good condition
↓ Low	Partly natural and connected for <1.9 km or developed and connected for 1.9 to <5 km	2,149	<0.1%	↓ Not in good condition
	Developed and connected for <1.9 km	2,390	<0.1%	
	Sidewalk	10,989	<0.1%	
	Not identified as a trail, sidewalk, or other path	34,005,668	99.9%	
	<b>Total area</b>	<b>34,046,760</b>	<b>100%</b>	

To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).

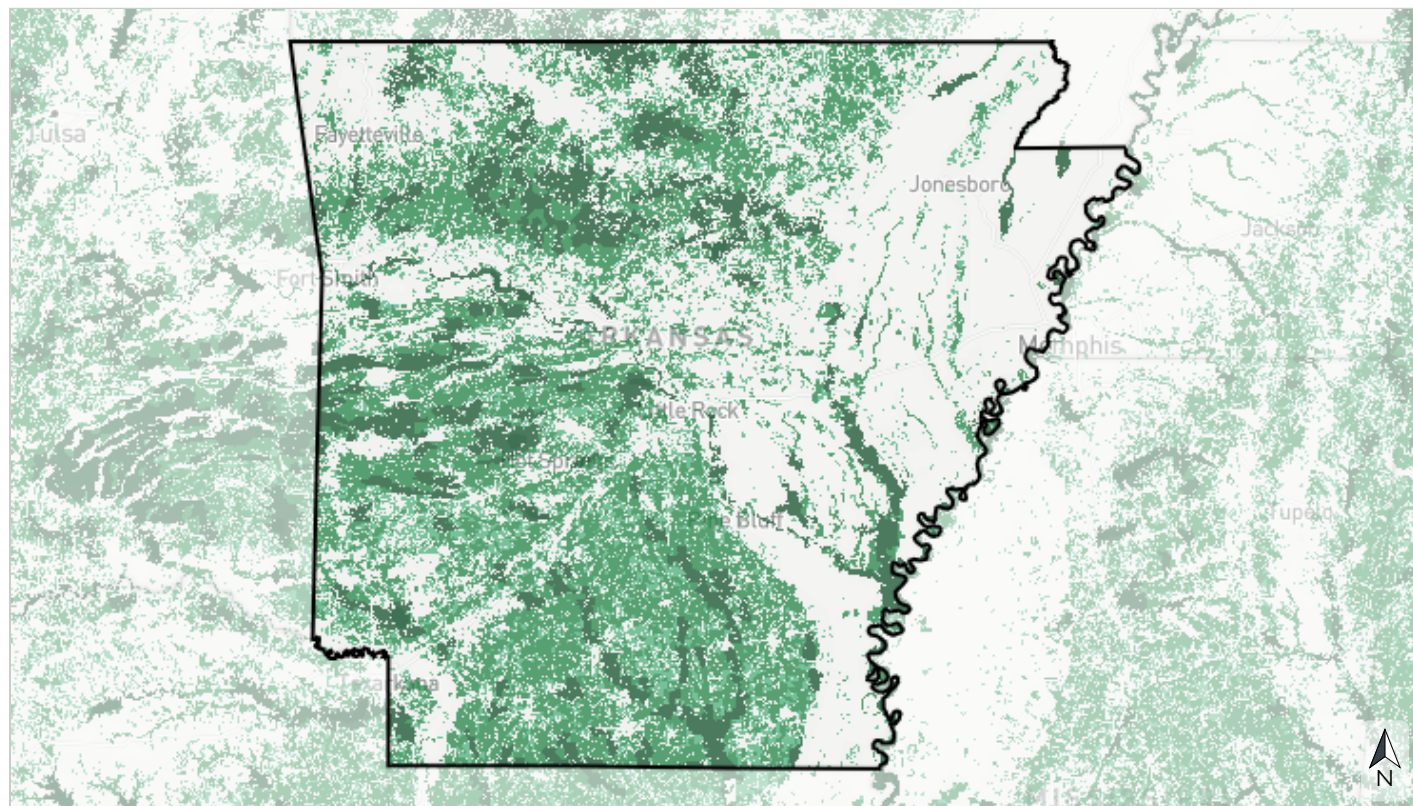
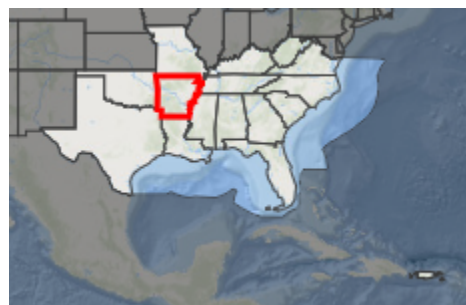




Terrestrial

## Intact habitat cores

This indicator represents the size of large, unfragmented patches of natural habitat. It identifies minimally disturbed natural areas at least 100 acres in size and greater than 200 meters wide. Large areas of intact natural habitat are important for many wildlife species, including reptiles and amphibians, birds, and large mammals. This indicator originates from Esri's green infrastructure data.

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- Large core (>10,000 acres)
- Medium core (>1,000-10,000 acres)
- Small core (>100-1,000 acres)
- Not a core

Table 8: Indicator values for intact habitat cores within Arkansas. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	Large core (>10,000 acres)	4,183,612	12.3%	
	Medium core (>1,000-10,000 acres)	8,493,546	24.9%	
	Small core (>100-1,000 acres)	3,449,932	10.1%	↑ In good condition
↓ Low	Not a core	17,919,670	52.6%	↓ Not in good condition
	<b>Total area</b>	<b>34,046,760</b>	<b>100%</b>	

To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).





Terrestrial

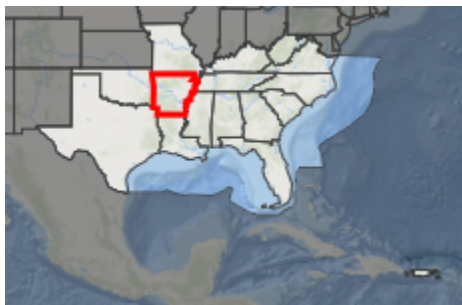
## Interior Southeast grasslands

This indicator represents grasslands in the interior southeastern United States, which support important plants, birds, and pollinators. It includes grasslands with and without trees that are historically maintained by geology (e.g., outcrops, glades, and barrens), fire (e.g., Piedmont prairies), and/or the regular violent flooding on the banks of high-energy rivers known as “riverscours” (e.g., riverscours prairies). Known grasslands receive the highest scores, followed by bumble bee habitat buffers around known sites, areas in potentially compatible management, and restoration opportunities within grassland geology. This indicator combines data from multiple sources, including the Southeastern Grasslands Institute, Central Hardwoods Joint Venture, Rangeland Analysis Platform, and more.



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- Known grassland
- Known grassland buffer
- Potentially compatible management within grassland geology (undeveloped powerline right-of-way or perennial forbs and grasses)
- Potentially compatible management outside of grassland geology (undeveloped powerline right-of-way or perennial forbs and grasses)
- Grassland geology
- Grassland less likely

Table 9: Indicator values for Interior Southeast grasslands within Arkansas. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	Known grassland	120	<0.1%
	Known grassland buffer	2,229	<0.1%
	Potentially compatible management within grassland geology (undeveloped powerline right-of-way or perennial forbs and grasses)	514,688	1.5%
	Potentially compatible management outside of grassland geology (undeveloped powerline right-of-way or perennial forbs and grasses)	1,086,938	3.2%
	Grassland geology	658,928	1.9%
↓ Low	Grassland less likely	2,673,446	7.9%
	Area not evaluated for this indicator	29,110,412	85.5%
	<b>Total area</b>	<b>34,046,760</b>	<b>100%</b>

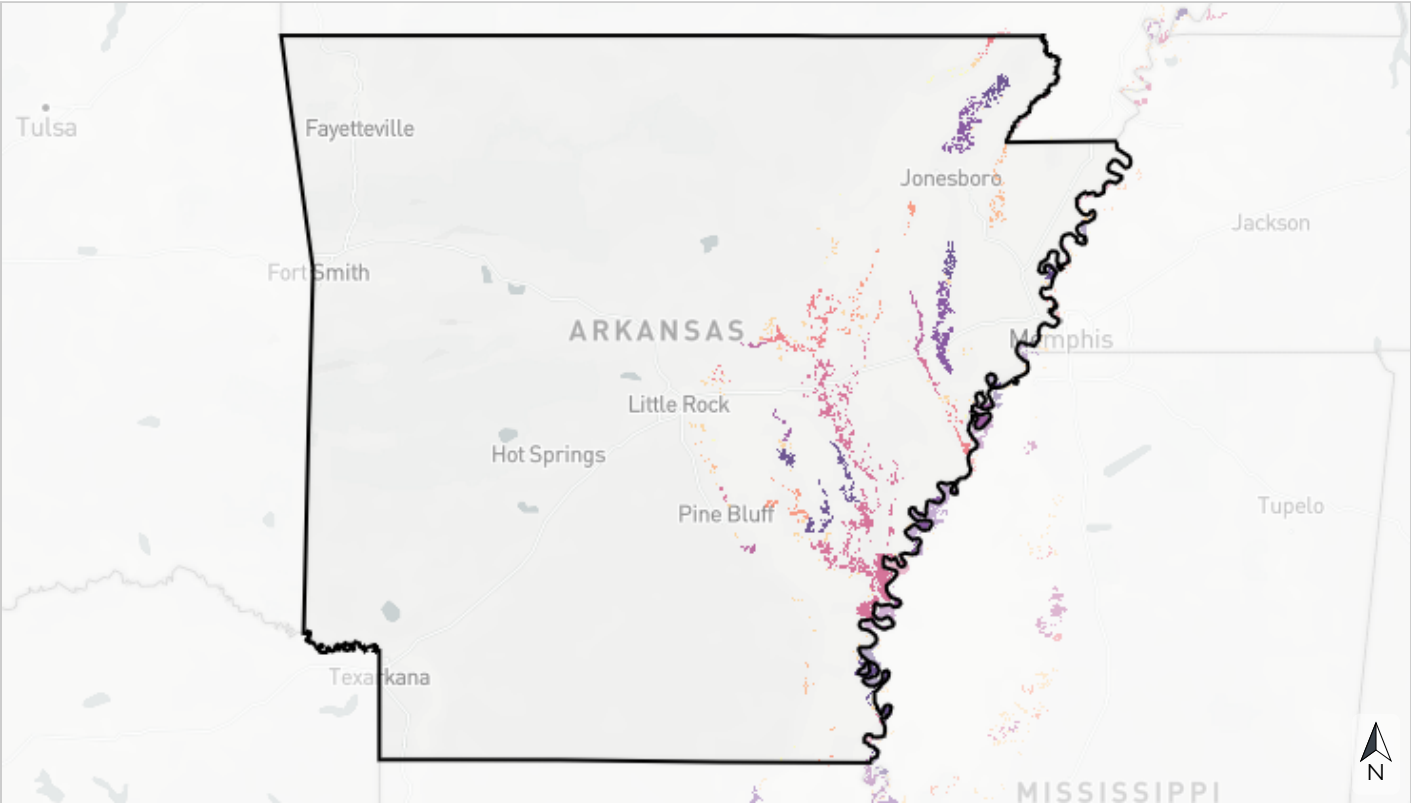
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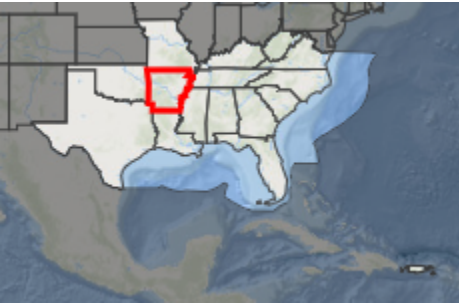
Terrestrial

# Mississippi Alluvial Valley forest birds - protection

This indicator prioritizes areas for new land protection within the Mississippi Alluvial Valley (MAV) based on benefits to forest breeding birds that need large interior cores of bottomland hardwood habitat (Swainson's warbler, cerulean warbler, swallow-tailed kite). The model considers core size, the amount of existing protected land within a forest patch, proximity to reforestation priorities, and risk of conversion to agriculture based on flooding frequency. The highest scores go to drier, unprotected forest patches with cores at least 2,000 ha (~5,000 ac) in size that are adjacent to complementary reforestation priority areas also identified by the Lower Mississippi Valley Joint Venture (LMVJV). This indicator originates from the LMVJV MAV forest breeding bird protection priorities.



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## Priority of forest breeding bird habitat patch for future protection

- Score >90-100 (highest priority)
- Score >80-90
- Score >70-80
- Score >60-70
- Score >50-60
- Score >40-50
- Score >30-40
- Score >20-30
- Score >10-20
- Score >0-10 (low priority)
- Score 0 (not a priority)

Table 10: Indicator values for Mississippi Alluvial Valley forest birds - protection within Arkansas. A good condition threshold is not yet defined for this indicator.

	Indicator Values: Priority of forest breeding bird habitat patch for future protection	Acres	Percent of Area
↑ High	Score >90-100 (highest priority)	123,983	0.4%
	Score >80-90	107,617	0.3%
	Score >70-80	26,396	<0.1%
	Score >60-70	23,911	<0.1%
	Score >50-60	233,975	0.7%
	Score >40-50	62,130	0.2%
	Score >30-40	36,397	0.1%
	Score >20-30	27,224	<0.1%
	Score >10-20	64,028	0.2%
	Score >0-10 (low priority)	7,311	<0.1%
↓ Low	Score 0 (not a priority)	8,924,075	26.2%
	Area not evaluated for this indicator	24,409,714	71.7%
	<b>Total area</b>	<b>34,046,760</b>	<b>100%</b>

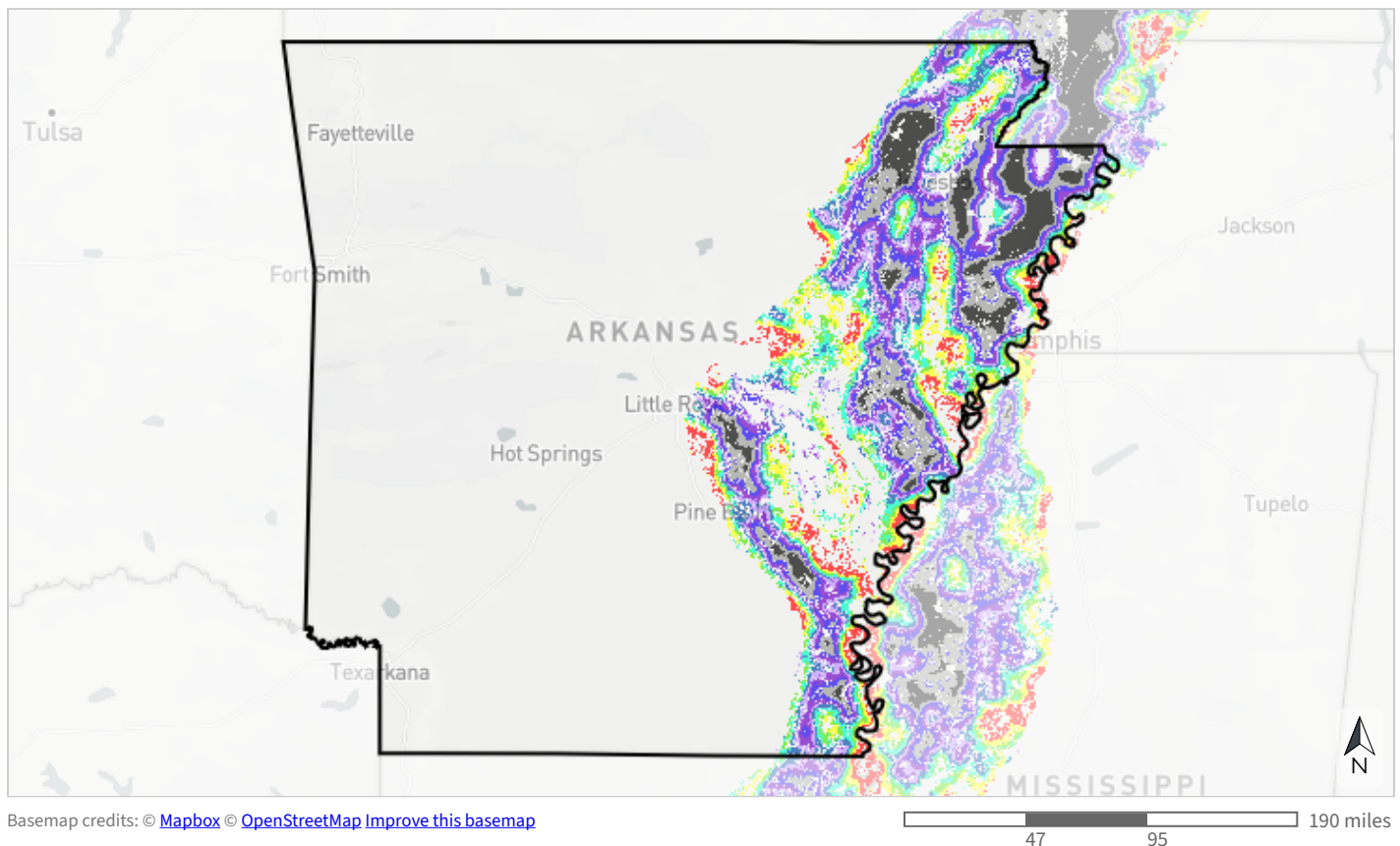
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Terrestrial

## Mississippi Alluvial Valley forest birds - reforestation

This indicator prioritizes areas for reforestation within the Mississippi Alluvial Valley (MAV) based on benefits to three species of forest breeding birds that need large interior cores of bottomland hardwood habitat (Swainson's warbler, cerulean warbler, swallow-tailed kite). The model considers the core size, number of cores, and percent of local forest cover that would result from reforestation, as well as risk of conversion to agriculture based on flooding frequency. The highest scores go to drier areas where reforestation would create new forest patches containing interior cores at least 2,000 ha (~5,000 ac) in size. It originates from the Lower Mississippi Valley Joint Venture MAV forest breeding bird reforestation priorities.



### Likelihood that reforestation will contribute to forest breeding bird habitat needs

- Most likely ( $\geq 90$ th percentile)
- Most likely (80th to  $< 90$ th percentile)
- More likely (70th to  $< 80$ th percentile)
- Less likely (60th to  $< 70$ th percentile)
- Least likely (50th to  $< 60$ th percentile)
- Least likely (40th to  $< 50$ th percentile)
- Least likely (30th to  $< 40$ th percentile)
- Least likely (20th to  $< 30$ th percentile)
- Least likely (10th to  $< 20$ th percentile)
- Least likely ( $< 10$ th percentile)
- Not a priority for reforestation

Table 11: Indicator values for Mississippi Alluvial Valley forest birds - reforestation within Arkansas. A good condition threshold is not yet defined for this indicator.

Indicator Values: Likelihood that reforestation will contribute to forest breeding bird habitat needs		Acres	Percent of Area
↑ High	Most likely (≥90th percentile)	402,348	1.2%
	Most likely (80th to <90th percentile)	525,061	1.5%
	More likely (70th to <80th percentile)	543,185	1.6%
	Less likely (60th to <70th percentile)	633,973	1.9%
	Least likely (50th to <60th percentile)	643,829	1.9%
	Least likely (40th to <50th percentile)	674,179	2.0%
	Least likely (30th to <40th percentile)	708,501	2.1%
	Least likely (20th to <30th percentile)	719,444	2.1%
	Least likely (10th to <20th percentile)	919,661	2.7%
	Least likely (<10th percentile)	698,957	2.1%
↓ Low	Not a priority for reforestation	3,168,299	9.3%
	Area not evaluated for this indicator	24,409,323	71.7%
Total area		34,046,760	100%

To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).

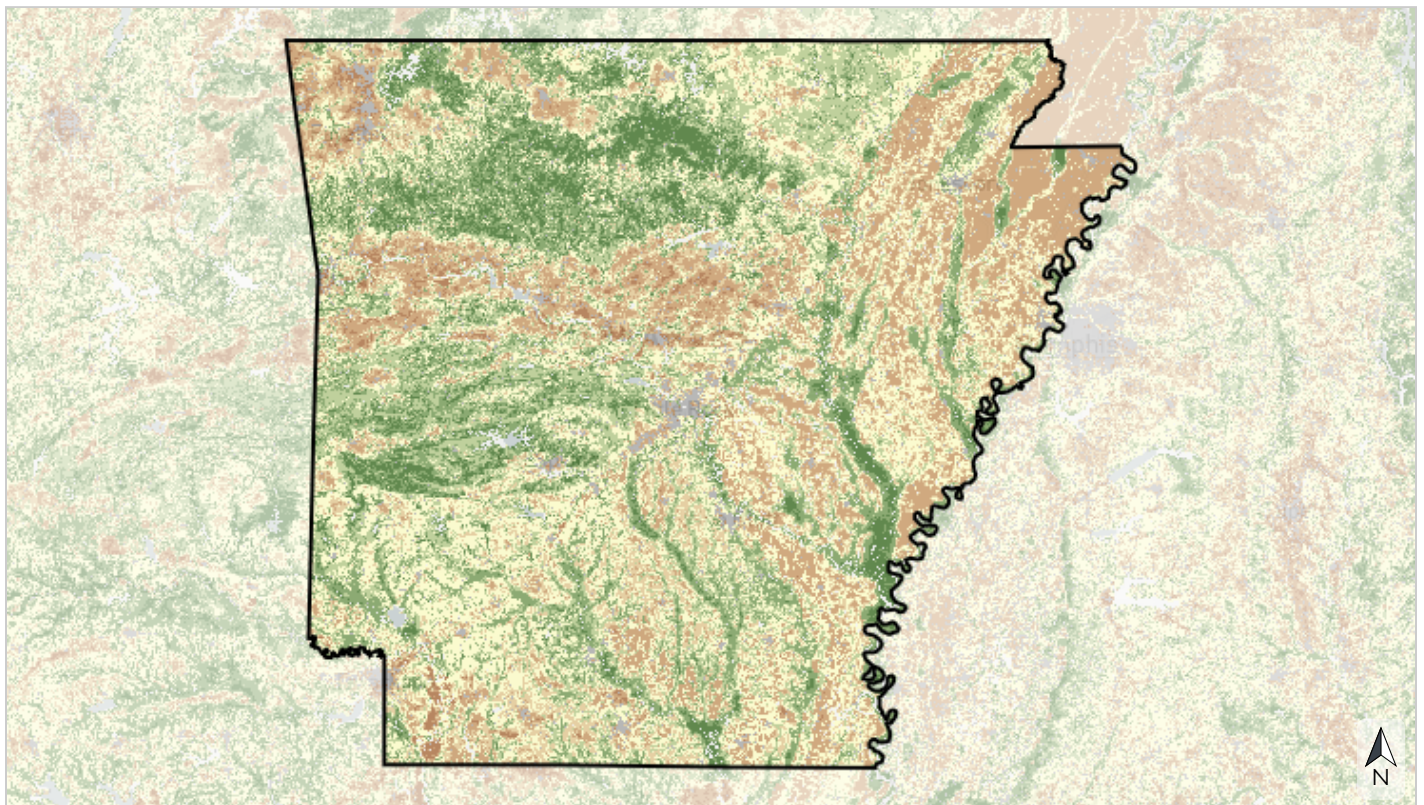




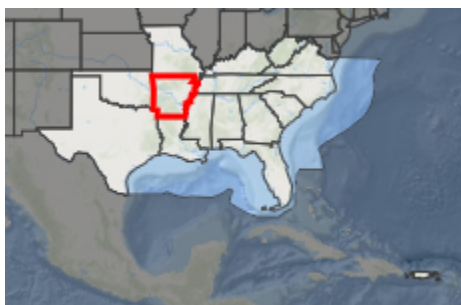
Terrestrial

## Resilient terrestrial sites

This indicator depicts an area's capacity to maintain species diversity and ecosystem function in the face of climate change. It measures two factors that influence resilience. The first, landscape diversity, reflects the number of microhabitats and climatic gradients created by topography, elevation, and hydrology. The second, local connectedness, reflects the degree of habitat fragmentation and strength of barriers to species movement. Highly resilient sites contain many different habitat niches that support biodiversity, and allow species to move freely through the landscape to find suitable microclimates as the climate changes. This indicator originates from The Nature Conservancy's Resilient Land data.

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- Most resilient
- More resilient
- Slightly more resilient
- Average/median resilience
- Slightly less resilient
- Less resilient
- Least resilient
- Developed

Table 12: Indicator values for resilient terrestrial sites within Arkansas. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	Most resilient	1,900,201	5.6%
	More resilient	5,820,514	17.1%
	Slightly more resilient	6,151,081	18.1%
	Average/median resilience	8,535,528	25.1%
	Slightly less resilient	4,710,011	13.8%
	Less resilient	4,882,238	14.3%
	Least resilient	316,558	0.9%
↓ Low	Developed	845,247	2.5%
	Area not evaluated for this indicator	885,382	2.6%
	<b>Total area</b>	<b>34,046,760</b>	<b>100%</b>

To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).





Terrestrial

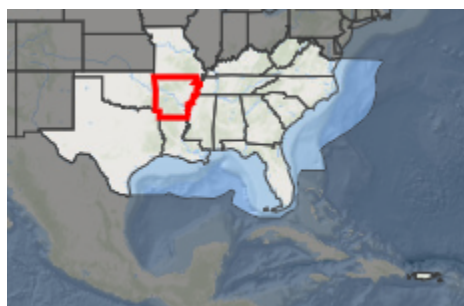
## Urban park size

This cultural resource indicator measures the size of parks larger than 5 acres in the urban environment. Protected natural areas in urban environments provide urban residents a nearby place to connect with nature, and offer refugia for some species. This indicator complements the equitable access to potential parks indicator by capturing the value of existing parks. It originates from the Protected Areas Database of the United States, Census urban areas, and the National Land Cover Database.



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- 75+ acre urban park
- 50 to <75 acre urban park
- 30 to <50 acre urban park
- 10 to <30 acre urban park
- 5 to <10 acre urban park
- <5 acre urban park or not identified as an urban park

Table 13: Indicator values for urban park size within Arkansas. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	75+ acre urban park	36,097	0.1%
	50 to <75 acre urban park	1,643	<0.1%
	30 to <50 acre urban park	2,061	<0.1%
	10 to <30 acre urban park	3,569	<0.1%
	5 to <10 acre urban park	1,307	<0.1%
↓ Low	<5 acre urban park or not identified as an urban park	34,002,083	99.9%
	<b>Total area</b>	<b>34,046,760</b>	<b>100%</b>

To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



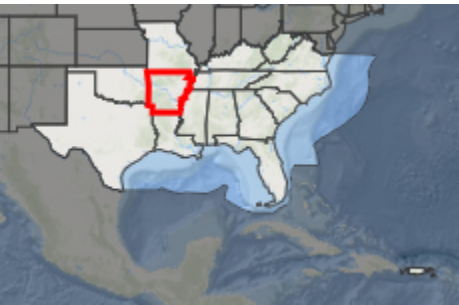
Terrestrial

# West Coastal Plain & Ouachitas forested wetland birds

This indicator is an index of habitat suitability for five forested wetland bird species (Acadian flycatcher, Kentucky warbler, yellow-throated warbler, prothonotary warbler, red-shouldered hawk) within bottomland hardwood forests and riparian areas in the West Gulf Coastal Plain/Ouachitas (WGCP/O) Bird Conservation Region. It uses metrics like patch size, dispersal distance, and distance to water to assess the potential for habitat to support sustainable populations of these birds. This indicator originates from the Lower Mississippi Valley Joint Venture's forested wetland decision support model for the WGCP/O region.



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## Habitat suitability for forested wetland bird umbrella species

- High habitat suitability (score >80)
- Medium-high habitat suitability (score >60-80)
- Medium habitat suitability (score >40-60)
- Medium-low habitat suitability (score >20-40)
- Low habitat suitability (score >0-20)
- Not suitable (score =0)

Table 14: Indicator values for West Coastal Plain & Ouachitas forested wetland birds within Arkansas. A good condition threshold is not yet defined for this indicator.

Indicator Values: Habitat suitability for forested wetland bird umbrella species		Acres	Percent of Area
↑ High	High habitat suitability (score >80)	434,926	1.3%
	Medium-high habitat suitability (score >60-80)	185,880	0.5%
	Medium habitat suitability (score >40-60)	174,337	0.5%
	Medium-low habitat suitability (score >20-40)	225,997	0.7%
	Low habitat suitability (score >0-20)	223,536	0.7%
↓ Low	Not suitable (score =0)	14,900,629	43.8%
	Area not evaluated for this indicator	17,901,455	52.6%
Total area		34,046,760	100%

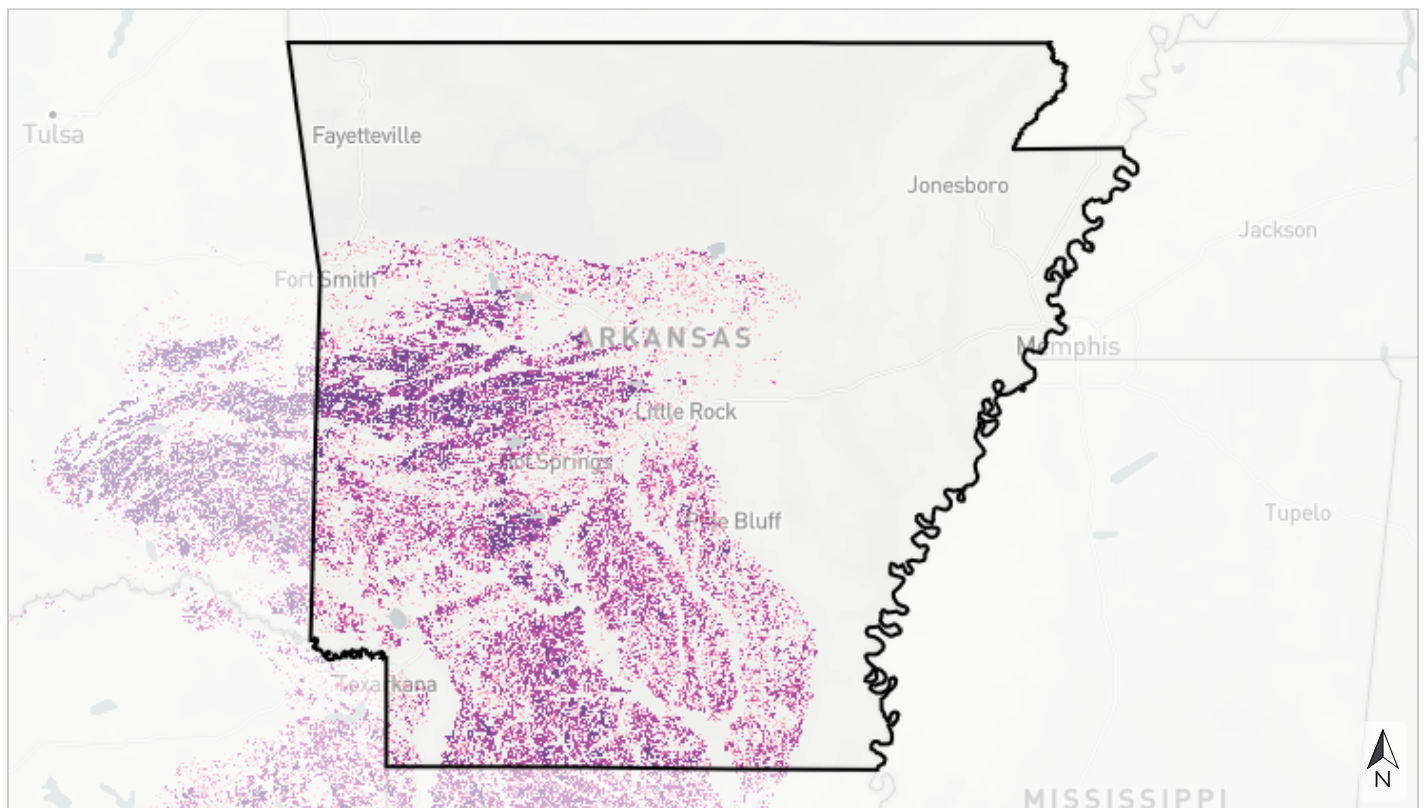
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Terrestrial

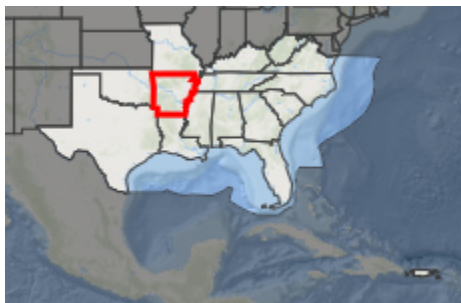
## West Coastal Plain & Ouachitas open pine birds

This indicator identifies areas with pine trees that, if managed for open condition, could support a population of three umbrella bird species (brown-headed nuthatch, Bachman's sparrow, red-cockaded woodpecker). It evaluates potential habitat in the West Gulf Coastal Plain/Ouachitas (WGCP/O) Bird Conservation Region based on each species' habitat needs and population dynamics, prioritizing opportunities to restore and manage habitat to benefit open pine birds. Final scores reflect both the selectiveness of the species and whether an area meets the habitat requirements through one large patch, or clusters of smaller patches in sufficiently close proximity for breeding pairs to disperse. This indicator updates the Lower Mississippi Valley Joint Venture's open pine decision support model for the WGCP/O region.



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### Ability of pine patch to support a population of umbrella bird species if managed in open condition

- Large enough to support a population of all 3 species
- Large enough to support a population of 2 species
- Large enough to support a population of 1 species
- Part of a cluster of nearby patches able to support a population of all 3 species
- Part of a cluster of nearby patches able to support a population of 2 species
- Part of a cluster of nearby patches able to support a population of 1 species
- Too small and isolated to support a population of any species or not an upland pine patch

Table 15: Indicator values for West Coastal Plain & Ouachitas open pine birds within Arkansas. A good condition threshold is not yet defined for this indicator.

<b>Indicator Values: Ability of pine patch to support a population of umbrella bird species if managed in open condition</b>		<b>Acres</b>	<b>Percent of Area</b>
↑ High	Large enough to support a population of all 3 species	624,957	1.8%
	Large enough to support a population of 2 species	2,240,410	6.6%
	Large enough to support a population of 1 species	748,822	2.2%
	Part of a cluster of nearby patches able to support a population of all 3 species	492,774	1.4%
	Part of a cluster of nearby patches able to support a population of 2 species	1,146,366	3.4%
	Part of a cluster of nearby patches able to support a population of 1 species	10,827	<0.1%
↓ Low	Too small and isolated to support a population of any species or not an upland pine patch	10,882,573	32.0%
	<i>Area not evaluated for this indicator</i>	<i>17,900,032</i>	<i>52.6%</i>
<b>Total area</b>		<b>34,046,760</b>	<b>100%</b>

To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).

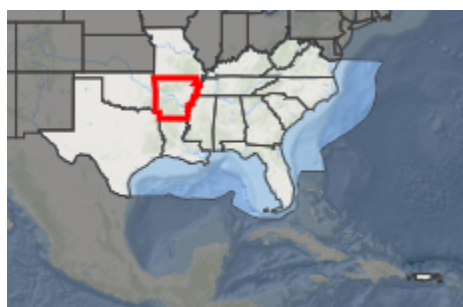
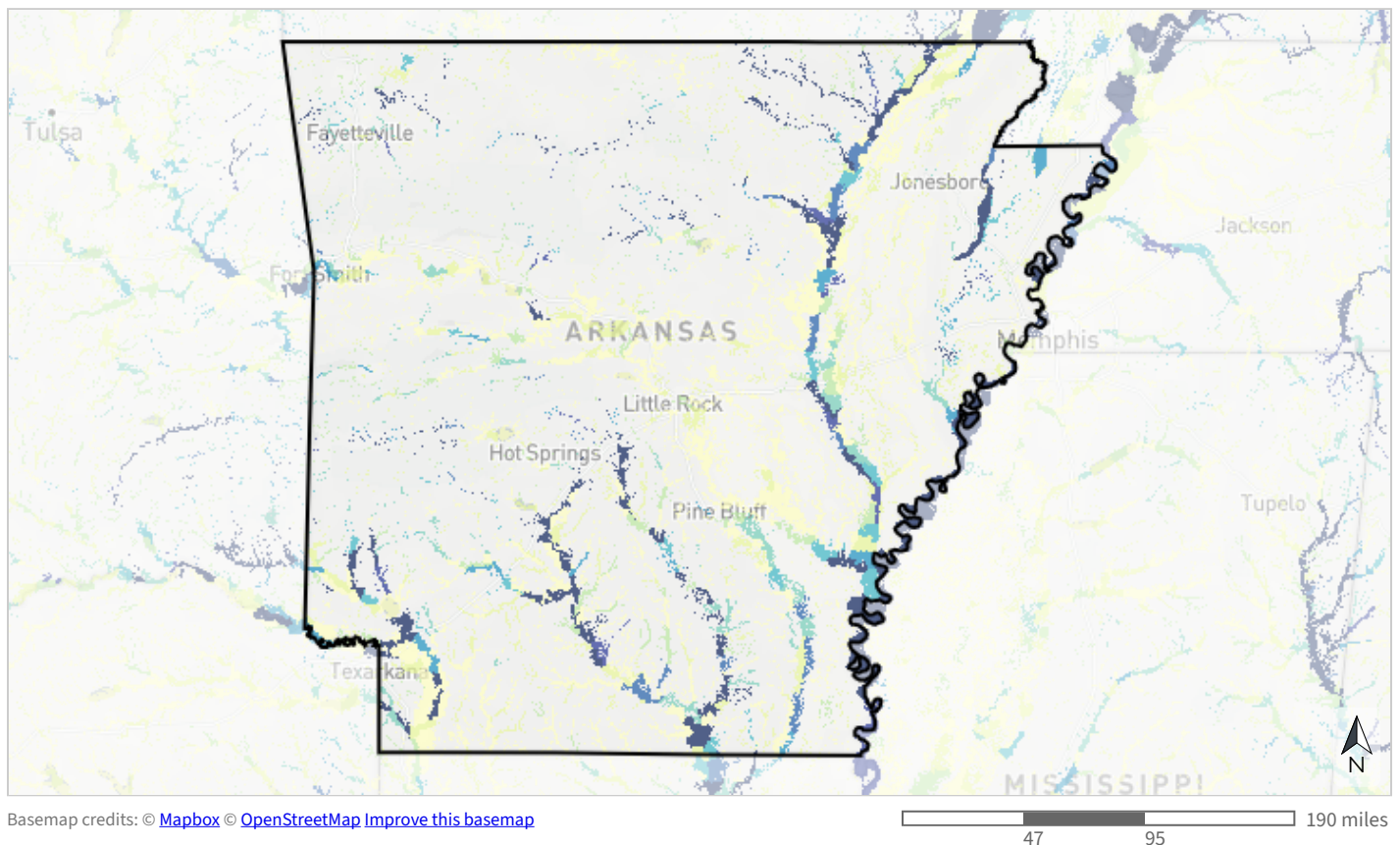




Freshwater

## Imperiled aquatic species

This indicator measures the number of aquatic animal Species of Greatest Conservation Need (SGCN) observed within each 12-digit HUC subwatershed, including fish, mussels, snails, crayfish, and amphibians. SGCN are identified in State Wildlife Action Plans as most in need of conservation action. This indicator captures patterns of rare and endemic aquatic species diversity. It originates from state Natural Heritage Program data collected by the Southeast Aquatic Resources Partnership and applies to the Environmental Protection Agency's estimated floodplain, which spatially defines areas estimated to be inundated by a 100-year flood (also known as the 1% annual chance flood).



### Number of aquatic animal Species of Greatest Conservation Need observed

- 8+ species
- 7 species
- 6 species
- 5 species
- 4 species
- 3 species
- 2 species
- 1 species
- 0 species
- Not identified as a floodplain (excluding West Virginia)

Table 16: Indicator values for imperiled aquatic species within Arkansas. A good condition threshold is not yet defined for this indicator.

Indicator Values: Number of aquatic animal Species of Greatest Conservation Need observed		Acres	Percent of Area
↑ High	8+ species	1,021,642	3.0%
	7 species	140,133	0.4%
	6 species	217,572	0.6%
	5 species	217,203	0.6%
	4 species	271,977	0.8%
	3 species	340,078	1.0%
	2 species	461,501	1.4%
	1 species	1,016,977	3.0%
	0 species	3,082,323	9.1%
↓ Low	Not identified as a floodplain (excluding West Virginia)	27,277,352	80.1%
	<b>Total area</b>	<b>34,046,760</b>	<b>100%</b>

To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).

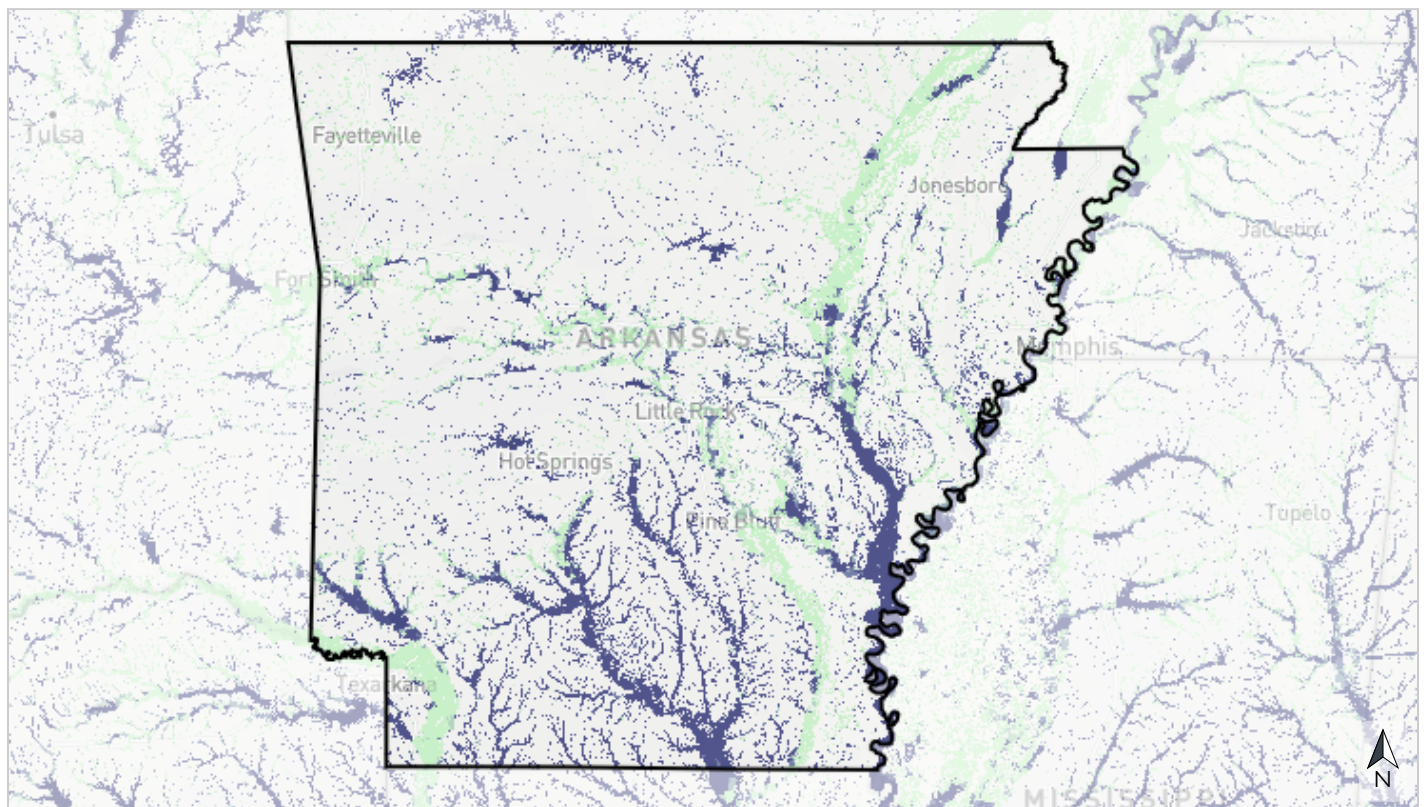




Freshwater

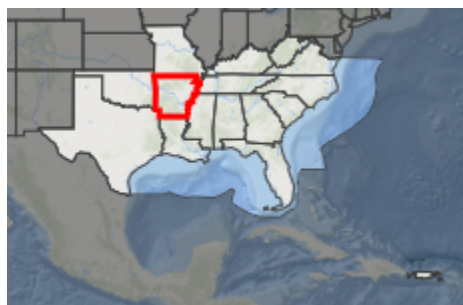
## Natural landcover in floodplains

This indicator measures the amount of natural landcover in the estimated floodplain of rivers and streams within each catchment. It assesses the stream channel and its surrounding riparian buffer, measuring the percent of unaltered habitat like forests, wetlands, or open water (rather than agriculture or development). Intact vegetated buffers within the floodplain of rivers and streams provide aquatic habitat, improve water quality, reduce erosion and flooding, recharge groundwater, and more. This indicator originates from the National Land Cover Database and applies to the Environmental Protection Agency's estimated floodplain, which spatially defines areas estimated to be inundated by a 100-year flood (also known as the 1% annual chance flood).



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### Percent natural landcover within the estimated floodplain, by catchment

- >90% natural landcover
- >80-90% natural landcover
- >70-80% natural landcover
- >60-70% natural landcover
- ≤60% natural landcover
- Not identified as a floodplain

Table 17: Indicator values for natural landcover in floodplains within Arkansas. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values: Percent natural landcover within the estimated floodplain, by catchment	Acres	Percent of Area	
↑ High	>90% natural landcover	2,952,663	8.7%	↑ In good condition
	>80-90% natural landcover	594,956	1.7%	
	>70-80% natural landcover	405,466	1.2%	↓ Not in good condition
	>60-70% natural landcover	370,924	1.1%	
	≤60% natural landcover	2,445,399	7.2%	
↓ Low	Not identified as a floodplain	27,277,352	80.1%	
	<b>Total area</b>	<b>34,046,760</b>	<b>100%</b>	

To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Freshwater

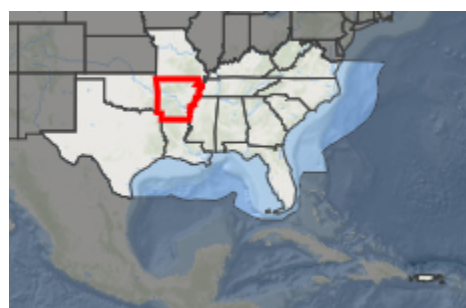
## Network complexity

This indicator depicts the number of connected stream size classes in a river network between dams or waterfalls. River networks with a variety of connected stream classes help retain aquatic biodiversity in a changing climate by allowing species to access climate refugia and move between habitats. This indicator originates from the Southeast Aquatic Resources Partnership and applies to the Environmental Protection Agency's estimated floodplain, which spatially defines areas estimated to be inundated by a 100-year flood (also known as the 1% annual chance flood).



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### Number of connected stream size classes

- 7 size classes
- 6 size classes
- 5 size classes
- 4 size classes
- 3 size classes
- 2 size classes
- 1 size class
- Not identified as a floodplain

Table 18: Indicator values for network complexity within Arkansas. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values: Number of connected stream size classes	Acres	Percent of Area	
↑ High	7 size classes	2,612,578	7.7%	
	6 size classes	1,595,896	4.7%	
	5 size classes	630,470	1.9%	
	4 size classes	502,177	1.5%	↑ In good condition
	3 size classes	548,964	1.6%	↓ Not in good condition
	2 size classes	454,715	1.3%	
	1 size class	423,368	1.2%	
↓ Low	Not identified as a floodplain	27,278,592	80.1%	
	<b>Total area</b>	<b>34,046,760</b>	<b>100%</b>	

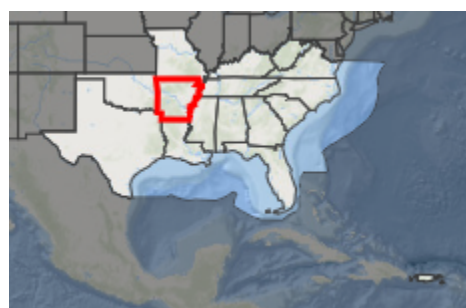
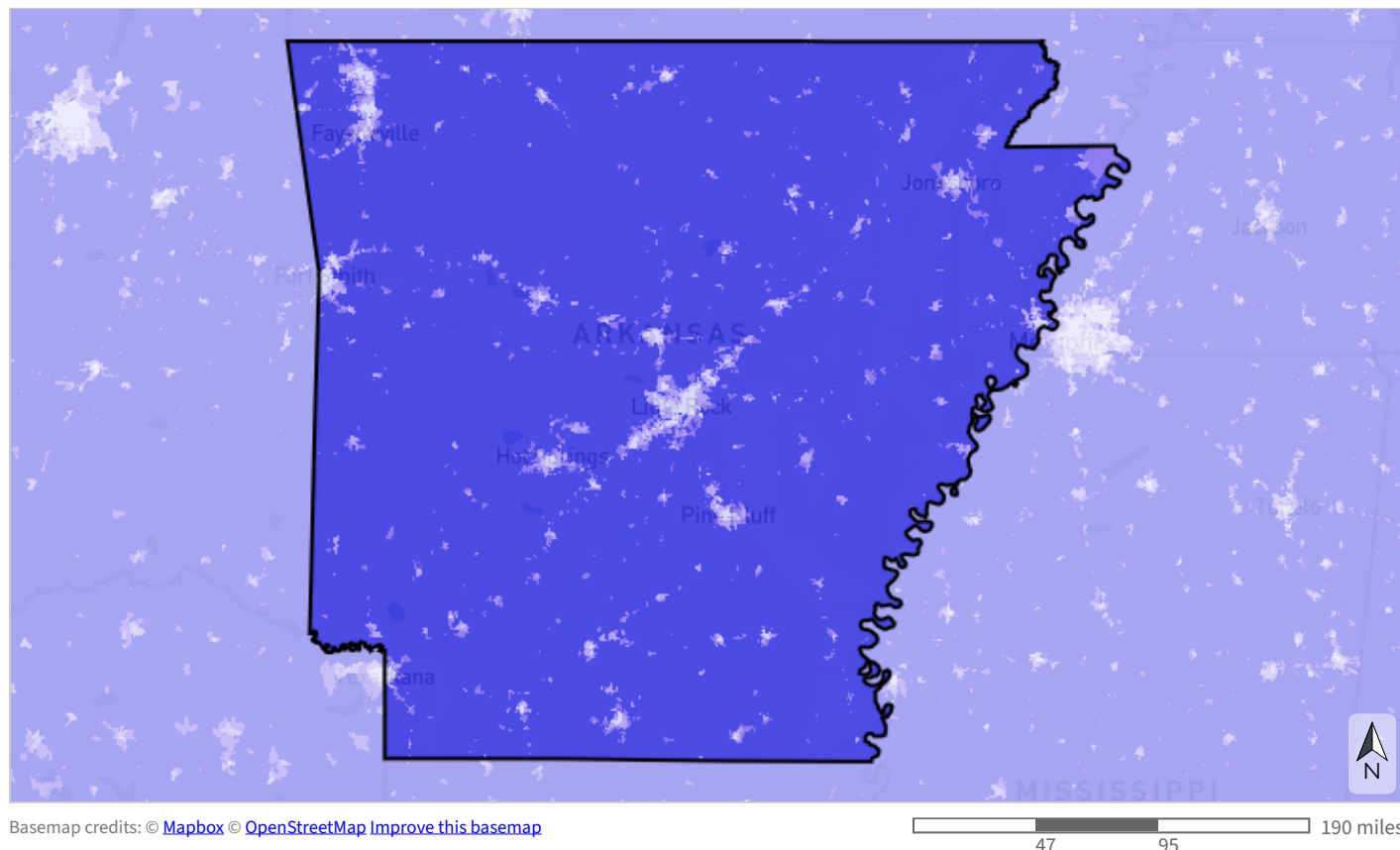
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Freshwater

## Permeable surface

This indicator measures the average percent of non-impervious cover within each catchment. High levels of impervious surface degrade water quality and alter freshwater flow, impacting both aquatic species communities and ecosystem services for people, like the availability of clean drinking water. This indicator originates from the National Land Cover Database.



### Percent of catchment permeable

- >95% permeable (likely high water quality and supporting most sensitive aquatic species)
- >90-95% permeable (likely declining water quality and supporting most aquatic species)
- >70-90% permeable (likely degraded water quality and not supporting many aquatic species)
- ≤70% permeable (likely degraded instream flow, water quality, and aquatic species communities)



Table 19: Indicator values for permeable surface within Arkansas. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

Indicator Values: Percent of catchment permeable		Acres	Percent of Area	
↑ High	>95% permeable (likely high water quality and supporting most sensitive aquatic species)	32,189,228	94.5%	↑ In good condition
	>90-95% permeable (likely declining water quality and supporting most aquatic species)	886,806	2.6%	↓ Not in good condition
	>70-90% permeable (likely degraded water quality and not supporting many aquatic species)	729,861	2.1%	
↓ Low	≤70% permeable (likely degraded instream flow, water quality, and aquatic species communities)	240,864	0.7%	
Total area		34,046,760	100%	

To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).

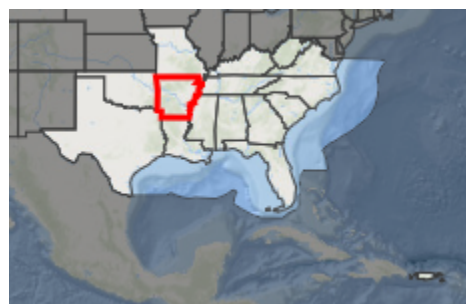
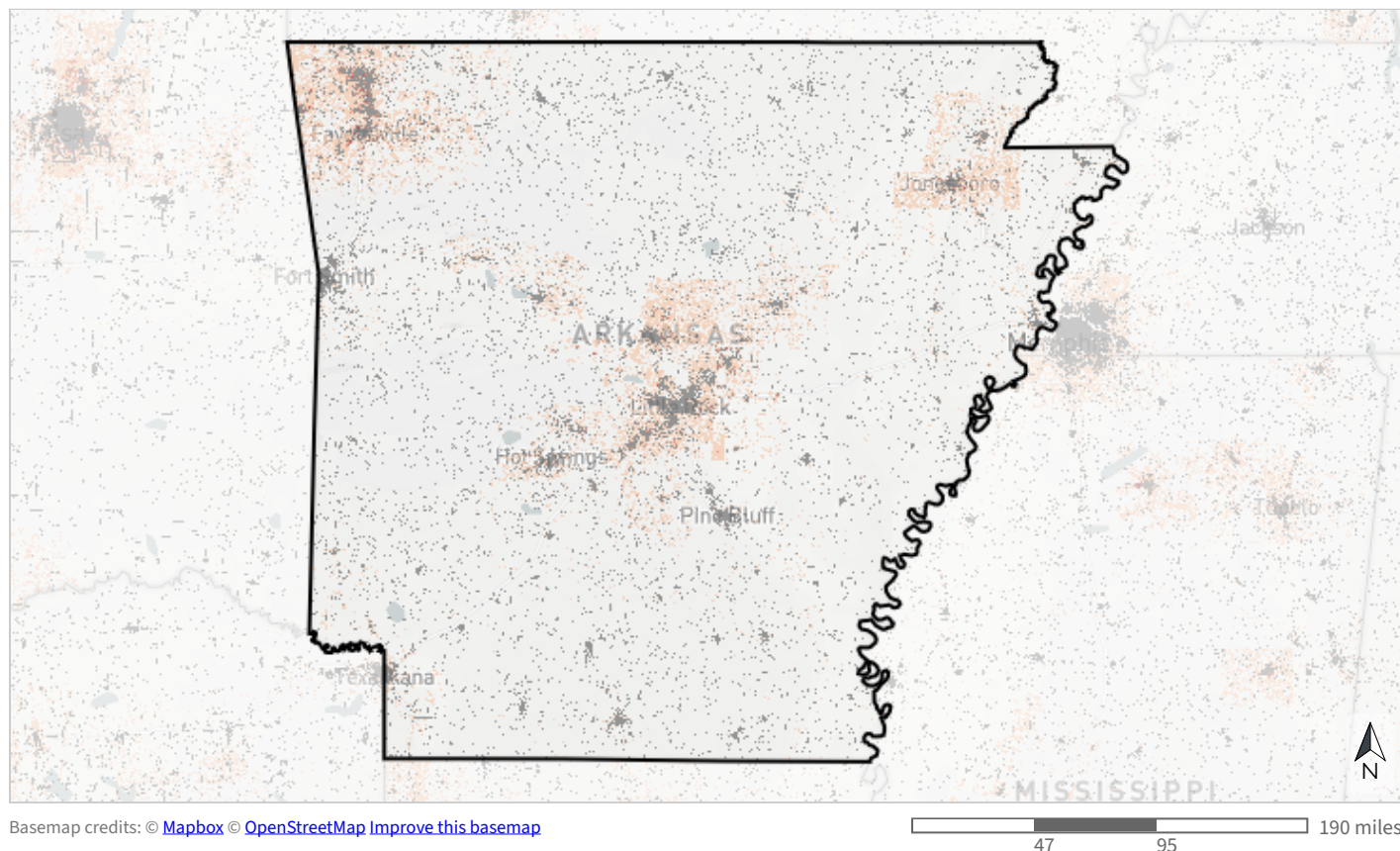
# Threats

## Sea-level rise

Sea-level rise unlikely to be a threat (inland counties).

## Urban growth

The FUTURES urban growth model predicts the likelihood that an area will urbanize at every decade from 2020 to 2100. Developed areas from the 2021 National Landcover Database serve as the baseline for current urban areas. The model simulates landscape change based on trends in population growth, local development suitability factors, and an urban patch-growing algorithm. It considers environmental drivers like distance to floodplain, slope, and available infrastructure, and even socio-economic status. The probability of urbanization for each area reflects how many times it urbanized out of 50 model runs.



### Probability of urbanization by 2060

- Urban in 2021
- Very high likelihood of urbanization (>50% probability)
- High likelihood of urbanization (25 - 50% probability)
- Moderate likelihood of urbanization (2 - 25% probability)
- Not likely to urbanize

6.3% of this area is already urban in 2021, and an additional 6.0% has at least a moderate probability of urbanizing by 2060.

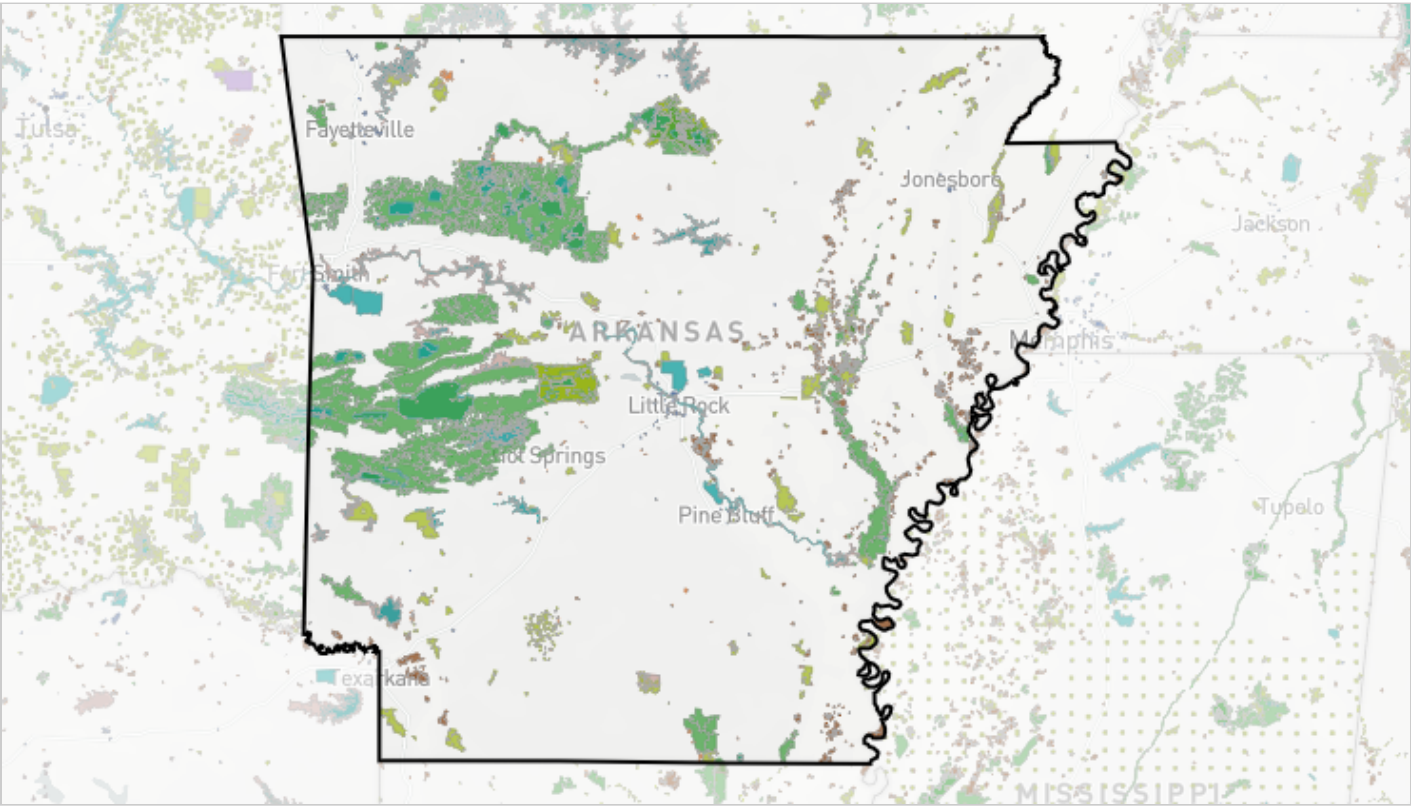


Table 20: Extent of projected urbanization by decade within Arkansas. Values from [FUTURES model projections for the contiguous United States](#) developed by the [Center for Geospatial Analytics](#), NC State University. 2060 corresponds to the [SECAS goal](#): a 10% or greater improvement in the health, function, and connectivity of Southeastern ecosystems by 2060.

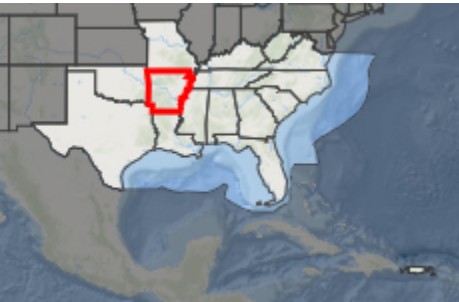
Decade	Acres	Percent of Area
Urban in 2021	2,128,897	6.3%
2030 projected extent	2,169,183	6.4%
2040 projected extent	2,192,399	6.4%
2050 projected extent	2,211,703	6.5%
2060 projected extent	2,229,248	6.5%
2070 projected extent	2,244,180	6.6%
2080 projected extent	2,256,281	6.6%
2090 projected extent	2,263,733	6.6%
2100 projected extent	2,267,735	6.7%
Not projected to urbanize by 2100	29,425,418	86.4%
<b>Total area</b>	<b>34,046,760</b>	<b>100%</b>

# Ownership and Partners

## Conserved lands ownership



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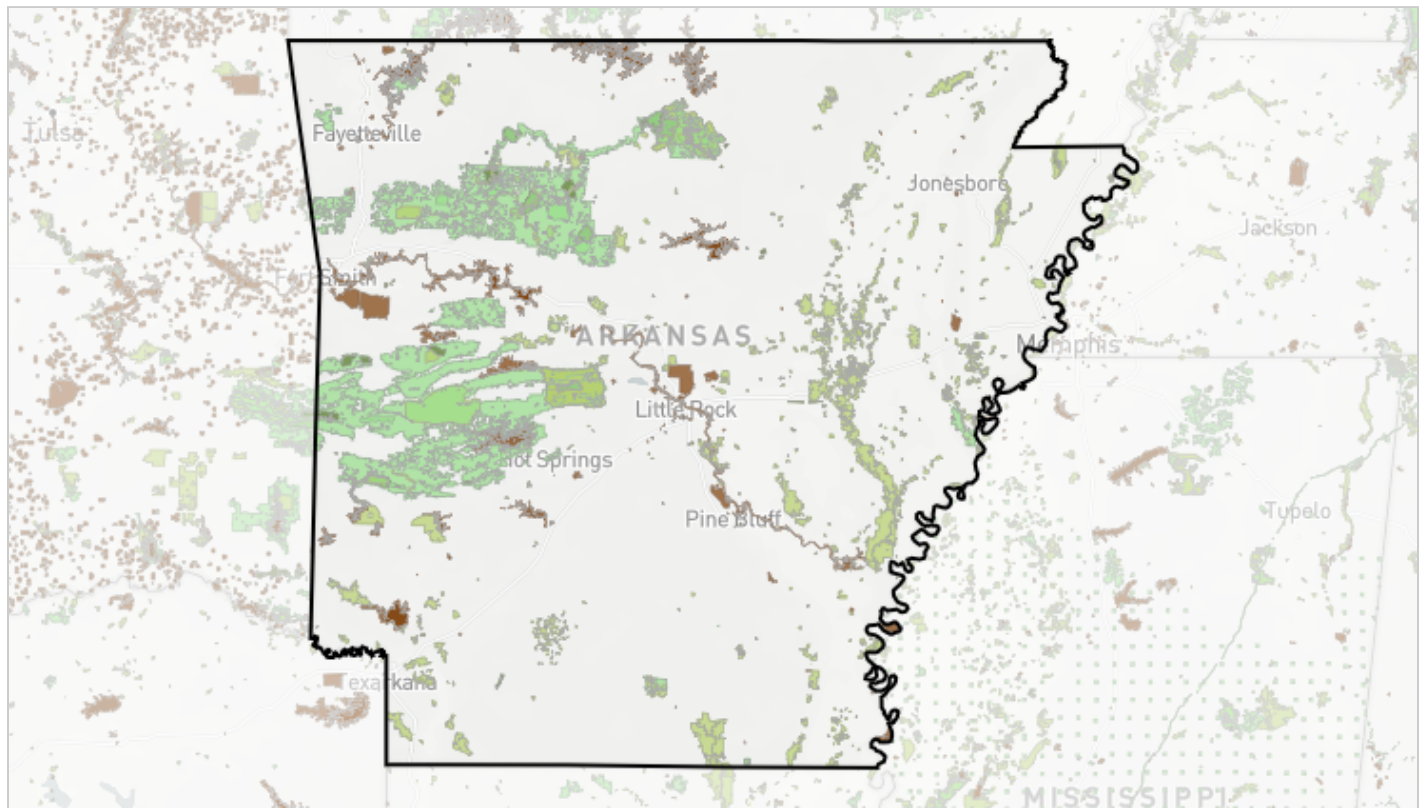


- |                |                                    |
|----------------|------------------------------------|
| Federal        | Joint                              |
| State/province | Private non-profit conserved lands |
| Territorial    | Private conservation land          |
| Regional       | Tribal                             |
| Local          | Designation                        |
|                | Ownership unknown                  |

Table 21: Extent of ownership class within Arkansas. Protected areas are derived from the [Protected Areas Database of the United States](#) (PAD-US v3.0) and include Fee, Designation, Easement, Marine, and Proclamation (Dept. of Defense lands only) boundaries. Note: areas are based on the polygon boundary of this area compared to protected area polygons, rather than pixel-level analyses used elsewhere in this report. Also note: PAD-US v3.0 includes protected areas that may overlap within a given area; this may cause the area within and between the following categories to be greater than the actual ground area.

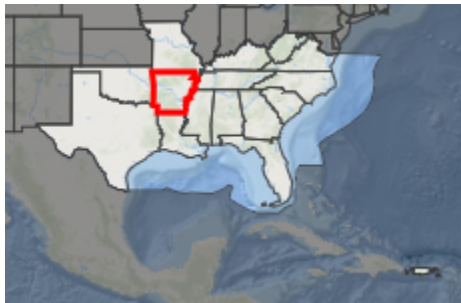
Ownership	Acres	Percent of Area
Federal	3,073,212	9.0%
State/province	1,079,682	3.2%
Regional	33	<0.1%
Local	21,530	<0.1%
Private non-profit conserved lands	23,700	<0.1%
Private conservation land	335,214	1.0%
Designation	918,764	2.7%
Ownership unknown	423,357	1.2%

## Land protection status



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- Managed for biodiversity (disturbance events proceed or are mimicked)
- Managed for biodiversity (disturbance events suppressed)
- Managed for multiple uses (subject to extractive uses such as mining or logging, or OHV use)
- No known mandate for biodiversity protection

Table 22: Extent of land protection status within Arkansas. Protected areas are derived from the [Protected Areas Database of the United States](#) (PAD-US v3.0) and include Fee, Designation, Easement, Marine, and Proclamation (Dept. of Defense lands only) boundaries. Note: areas are based on the polygon boundary of this area compared to protected area polygons, rather than pixel-level analyses used elsewhere in this report. Also note: PAD-US v3.0 includes protected areas that may overlap within a given area; this may cause the area within and between the following categories to be greater than the actual ground area.

Land Protection Status	Acres	Percent of Area
Managed for biodiversity (disturbance events proceed or are mimicked)	172,163	0.5%
Managed for biodiversity (disturbance events suppressed)	1,981,482	5.8%
Managed for multiple uses (subject to extractive uses such as mining or logging, or OHV use)	2,827,289	8.3%
No known mandate for biodiversity protection	894,558	2.6%

## Protected Areas

- Ouachita National Forest (USDA FOREST SERVICE; 1,430,591 acres)
- Ozark-St. Francis National Forest (USDA FOREST SERVICE; 1,161,020 acres)
- Winona Wildlife Management Area (State Fish and Wildlife; 281,188 acres)
- Sylamore Wildlife Management Area (State Fish and Wildlife; 253,616 acres)
- DALE BUMPERS WHITE RIVER NATIONAL WILDLIFE REFUGE (Fee; 156,769 acres)
- Ouachita (144,821 acres)
- BUFF (NPS; 89,039 acres)
- CACHE RIVER NATIONAL WILDLIFE REFUGE (Fee; 73,537 acres)
- FELSENTAL NATIONAL WILDLIFE REFUGE (Fee; 69,170 acres)
- BULL SHOALS (Unknown; 67,252 acres)
- NG Fort Chaffee MTC (65,121 acres)
- DARDANELLE (Unknown; 57,103 acres)
- NORFORK (Unknown; 49,604 acres)
- GREERS FERRY (Unknown; 41,234 acres)
- Lake Ouachita (38,297 acres)
- BEAVER (Unknown; 38,135 acres)
- MILLWOOD (Unknown; 37,670 acres)

- Bull Shoals Lake (35,712 acres)
- Buffalo National River Wilderness (34,564 acres)
- NG Camp Joseph T Robinson (33,124 acres)
- Bayou Meto (State Fish and Wildlife; 32,023 acres)
- Lake Greeson Wildlife Management Area (State Department of Natural Resources; 31,625 acres)
- Greers Ferry Lake (31,067 acres)
- Beaver Lake (28,875 acres)
- Howard County Wildlife Management Area (State Department of Natural Resources; 27,470 acres)
- ... and 1,169 more protected areas ...

## Nearby land trusts

[Click here](#) to search for land trusts within 250 miles of this area on the Land Trust Alliance website.



## Credits

This report was generated by the Southeast Conservation Blueprint Explorer, which was developed by [Astute Spruce, LLC](#) in partnership with the U.S. Fish and Wildlife Service under the [Southeast Conservation Adaptation Strategy](#).

### Data credits

Land ownership and conservation status is derived from the [Protected Areas Database of the United States](#) (PAD-US v3.0).

Future urban growth estimates derived from [FUTURES model projections for the contiguous United States](#) developed by the [Center for Geospatial Analytics](#), NC State University.

Sea level rise data are derived from the National Oceanic and Atmospheric Administration's [Sea Level Rise Inundation Depth Data](#) and the [2022 Sea Level Rise Technical Report](#).