Southeast Conservation Blueprint Summary

for Tennessee

Created 01/19/2024

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The Southeast Conservation Adaptation Strategy



Yer The Southeast Conservation Blueprint 2023

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About the Southeast Blueprint

The Southeast Conservation Blueprint is the primary product of the <u>Southeast Conservation Adaptation</u> <u>Strategy</u> (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 <u>Blueprint webpage</u>
- Review the <u>Blueprint 2023 Development Process</u>
- View and download the Blueprint data and make maps on the Blueprint page of the SECAS Atlas

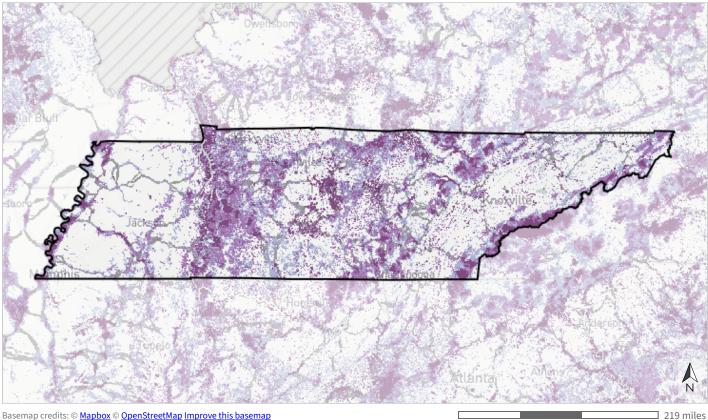
We're here to help!

- 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, <u>contact Southeast Blueprint staff</u> 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.

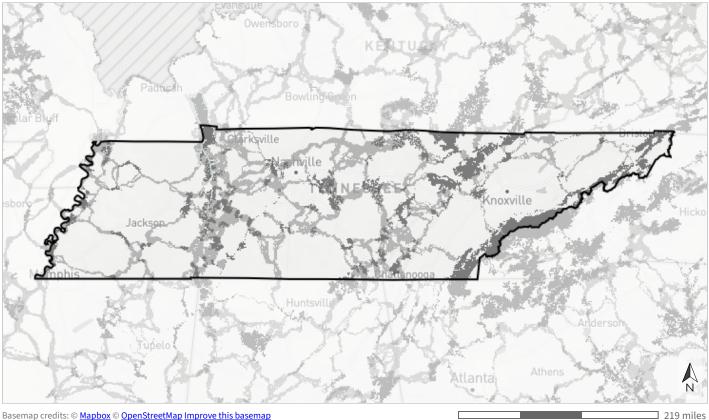
Priority Category	Acres	Percent of Area
Highest priority	2,657,705	9.9%
High priority	4,071,755	15.1%
Medium priority	4,729,334	17.5%
Priority connections	1,276,609	4.7%
Lower priority	14,227,368	52.8%
Total area	26,962,771	100%

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

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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Inland continental hubs Inland continental corridors Not a hub or corridor

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Table 2: Extent of hubs and corridors within Tennessee.

Туре	Acres	Percent of Area
Inland continental hubs	3,045,943	11.3%
Inland continental corridors	4,571,762	17.0%
Not a hub or corridor	19,345,067	71.7%
Total area	26,962,771	100%

Indicator Summary

Table 3: Terrestrial indicators.

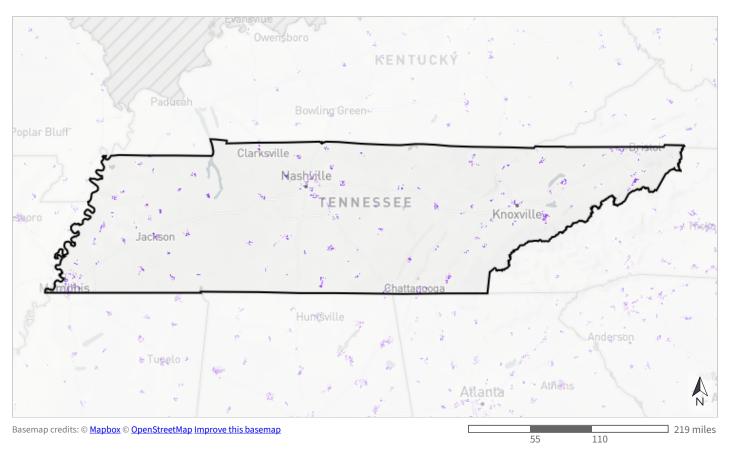
Indicator	Present
East Coastal Plain open pine birds	-
Equitable access to potential parks	\checkmark
Fire frequency	\checkmark
<u>Greenways & trails</u>	\checkmark
Intact habitat cores	\checkmark
Interior Southeast grasslands	\checkmark
Mississippi Alluvial Valley forest birds - protection	\checkmark
Mississippi Alluvial Valley forest birds - reforestation	\checkmark
Resilient terrestrial sites	\checkmark
South Atlantic amphibian & reptile areas	-
South Atlantic forest birds	-
South Atlantic low-urban historic landscapes	-
<u>Urban park size</u>	\checkmark
West Coastal Plain & Ouachitas forested wetland birds	-
West Coastal Plain & Ouachitas open pine birds	-
West Gulf Coast mottled duck nesting	-

Table 4: Freshwater indicators.

Indicator	Present
Atlantic migratory fish habitat	-
Gulf migratory fish connectivity	-
Imperiled aquatic species	√
Natural landcover in floodplains	√
Network complexity	√
Permeable surface	√
West Virginia imperiled aquatic species	-



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.





Priority for a new park that would create nearby equitable access

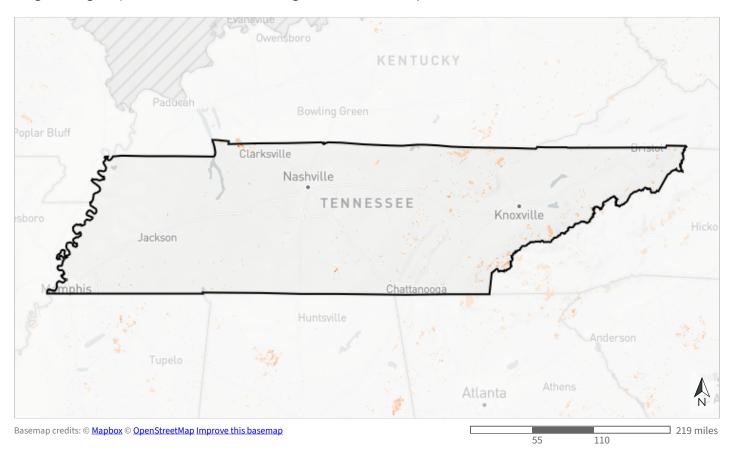
- Very high priority
- High priority
- Moderate priority
 - Not identified as a priority (within urban areas)

Table 5: Indicator values for equitable access to potential parks within Tennessee. 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	135,322	0.5%
	High priority	141,515	0.5%
↓ Low	Moderate priority	101,880	0.4%
	Not identified as a priority (within urban areas)	26,584,054	98.6%
	Total area	26,962,771	100%



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 <u>Southeast FireMap</u>.





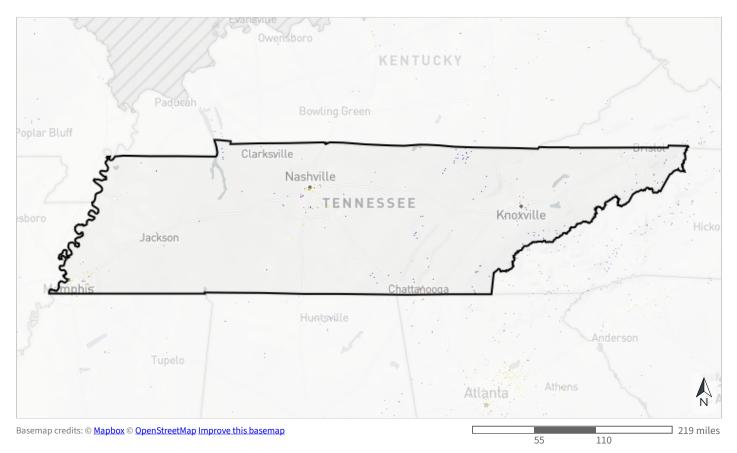
Burned 3+ times from 2013-2021
Burned 2 times from 2013-2021
Burned 1 time from 2013-2021
Not burned from 2013-2021 or row crop

Table 6: Indicator values for fire frequency within Tennessee. 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	3,451	<0.1%	
	Burned 2 times from 2013-2021	13,359	<0.1%	↑ In good condition
	Burned 1 time from 2013-2021	249,723	0.9%	↓ Not in good
↓ Low	Not burned from 2013-2021 or row crop	26,696,239	99.0%	condition
	Total area	26,962,771	100%	



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.

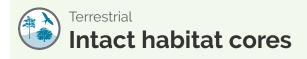




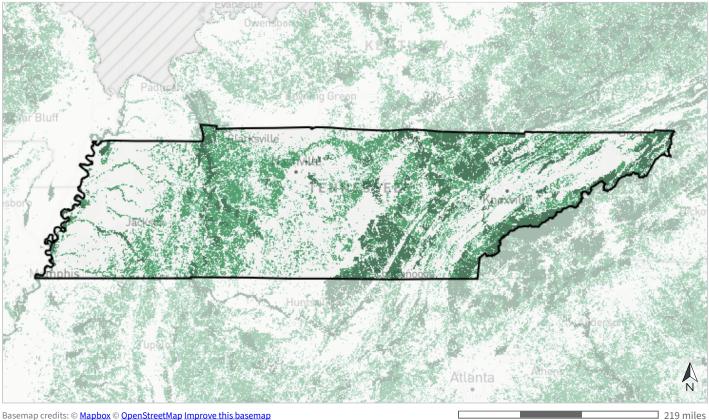
- Mostly natural and connected for ≥40 km
- Mostly natural and connected for 5 to <40 km or partly natural and connected for ≥40 km
- Mostly natural and connected for 1.9 to <5 km, partly natural and connected for 5 to <40 km, or developed and connected for ≥40 km
- Mostly natural and connected for <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</p>
- Sidewalk
- Not identified as a trail, sidewalk, or other path

Table 7: Indicator values for greenways & trails within Tennessee. 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 ≥40 km	15,883	<0.1%	
	Mostly natural and connected for 5 to <40 km or partly natural and connected for ≥40 km	15,725	<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 ≥40 km	8,496	<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	7,190	<0.1%	↑ In good condition
	Partly natural and connected for <1.9 km or developed and connected for 1.9 to <5 km	4,006	<0.1%	↓ Not in good condition
	Developed and connected for <1.9 km	7,245	<0.1%	
	Sidewalk	18,545	<0.1%	
↓ Low	Not identified as a trail, sidewalk, or other path	26,885,680	99.7%	
	Total area	26,962,771	100%	



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

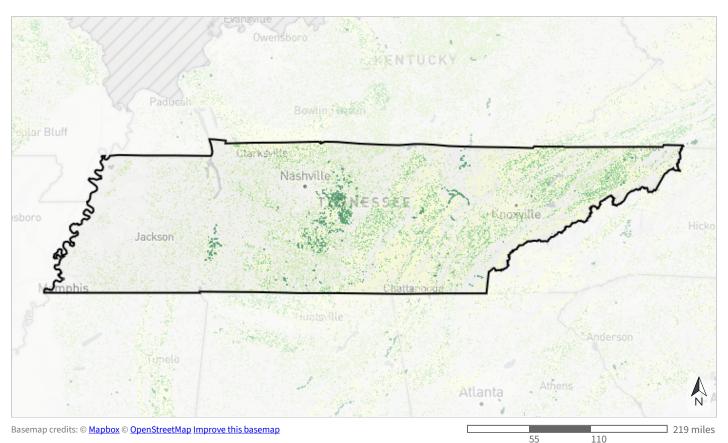
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Table 8: Indicator values for intact habitat cores within Tennessee. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	Large core (>10,000 acres)	3,657,194	13.6%	
	Medium core (>1,000-10,000 acres)	4,862,097	18.0%	
	Small core (>100-1,000 acres)	2,655,185	9.8%	↑ In good condition
↓ Low	Not a core	15,788,296	58.6%	\downarrow Not in good condition
	Total area	26,962,771	100%	



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 "riverscour" (e.g, riverscour 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.





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

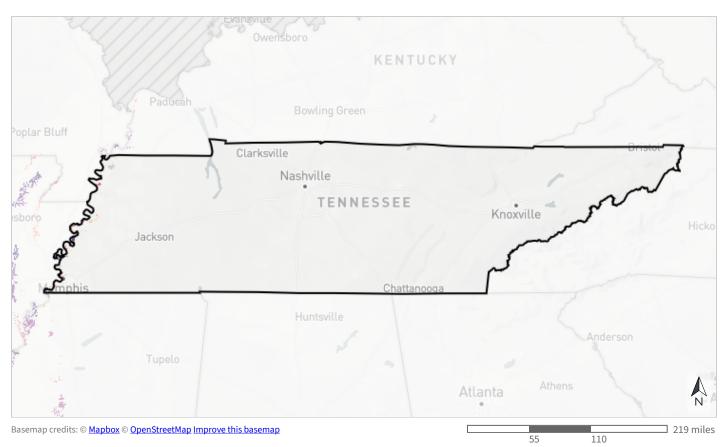
Grassland less likely

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

	Indicator Values	Acres	Percent of Area
↑ High	Known grassland	5,977	<0.1%
	Known grassland buffer	414,180	1.5%
	Potentially compatible management within grassland geology (undeveloped powerline right-of-way or perennial forbs and grasses)	1,519,337	5.6%
	Potentially compatible management outside of grassland geology (undeveloped powerline right-of-way or perennial forbs and grasses)	3,185,926	11.8%
	Grassland geology	5,320,852	19.7%
↓ Low	Grassland less likely	15,977,536	59.3%
	Area not evaluated for this indicator	538,963	2.0%
	Total area	26,962,771	100%

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.





Priority of forest breeding bird habitat patch for future protection Score >90-100 (highest priority)

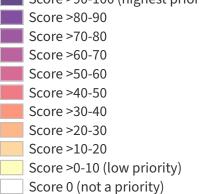
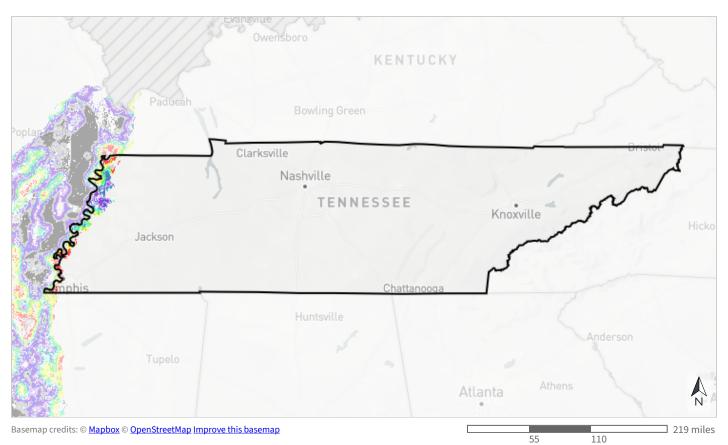


Table 10: Indicator values for Mississippi Alluvial Valley forest birds - protection within Tennessee. A good condition threshold is not yet defined for this indicator.

	Indicator Values: Priority of forest breeding bird habitat patch for future protection	Acres	Percent of Area
↑ High	Score >90-100 (highest priority)	6,580	<0.1%
	Score >80-90	3,060	<0.1%
	Score >70-80	429	<0.1%
	Score >60-70	1,590	<0.1%
	Score >50-60	9,199	<0.1%
	Score >40-50	1,909	<0.1%
	Score >30-40	3,577	<0.1%
	Score >20-30	4,443	<0.1%
	Score >10-20	9,896	<0.1%
	Score >0-10 (low priority)	1,194	<0.1%
↓ Low	Score 0 (not a priority)	503,656	1.9%
	Area not evaluated for this indicator	26,417,237	98.0%
	Total area	26,962,771	100%

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.



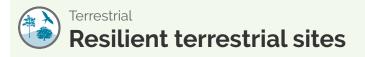


Likelihood that reforestation will contribute to forest breeding bird habitat needs

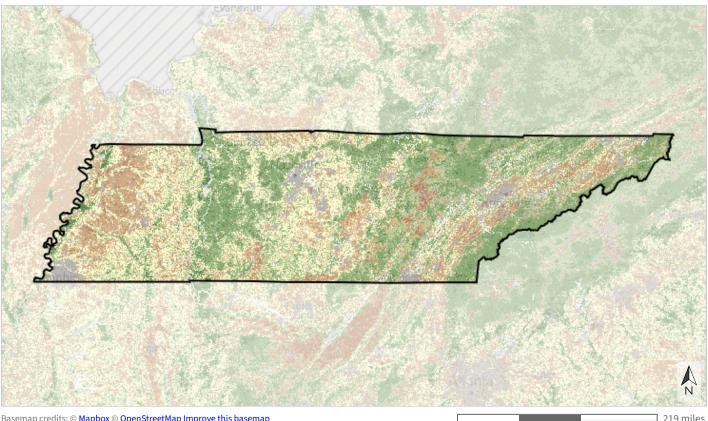
Most likely (≥90th percentile)
Most likely (80th to <90th percentile)
More likely (70th to <80th percentile)
Less likely (60th to <70th percentile)
Least likely (50th to <60th percentile)
Least likely (40th to <50th percentile)
Least likely (30th to <40th percentile)
Least likely (20th to <30th percentile)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

Table 11: Indicator values for Mississippi Alluvial Valley forest birds - reforestation within Tennessee. 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)	53,446	0.2%
	Most likely (80th to <90th percentile)	48,778	0.2%
	More likely (70th to <80th percentile)	34,825	0.1%
	Less likely (60th to <70th percentile)	36,556	0.1%
	Least likely (50th to <60th percentile)	54,880	0.2%
	Least likely (40th to <50th percentile)	40,936	0.2%
	Least likely (30th to <40th percentile)	22,506	<0.1%
	Least likely (20th to <30th percentile)	11,345	<0.1%
	Least likely (10th to <20th percentile)	3,460	<0.1%
	Least likely (<10th percentile)	0	0%
↓ Low	Not a priority for reforestation	238,703	0.9%
	Area not evaluated for this indicator	26,417,336	98.0%
	Total area	26,962,771	100%



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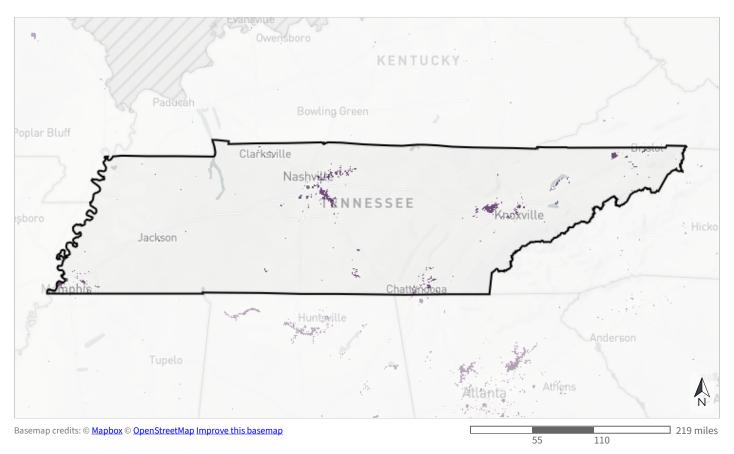
Most resilient More resilient Slightly more resilient Average/median resilience Slightly less resilient Less resilient Least resilient Developed

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

	Indicator Values	Acres	Percent of Area
↑ High	Most resilient	566,380	2.1%
	More resilient	6,371,862	23.6%
	Slightly more resilient	4,577,830	17.0%
	Average/median resilience	5,384,235	20.0%
	Slightly less resilient	2,601,526	9.6%
	Less resilient	3,076,156	11.4%
	Least resilient	520,553	1.9%
↓ Low	Developed	3,276,601	12.2%
	Area not evaluated for this indicator	587,629	2.2%
	Total area	26,962,771	100%



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.





75+ acre urban park
50 to <75 acre urban park
30 to <50 acre urban park
10 to <30 acre urban park

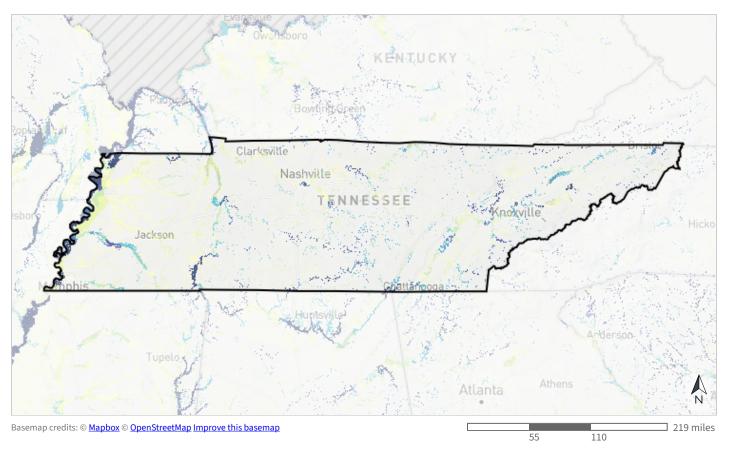
- 5 to <10 acre urban park
- <5 acre urban park or not identified as an urban park</p>

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

	Indicator Values	Acres	Percent of Area
↑ High	75+ acre urban park	218,195	0.8%
	50 to <75 acre urban park	6,040	<0.1%
	30 to <50 acre urban park	6,740	<0.1%
	10 to <30 acre urban park	10,378	<0.1%
	5 to <10 acre urban park	3,075	<0.1%
$\downarrow Low$	<5 acre urban park or not identified as an urban park	26,718,343	99.1%
	Total area	26,962,771	100%



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).



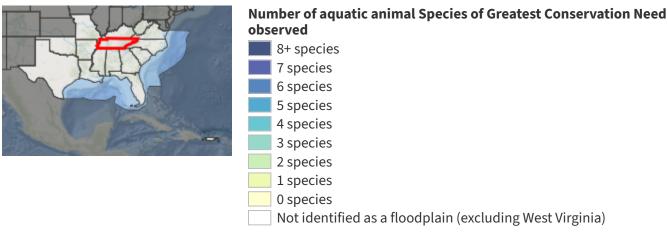
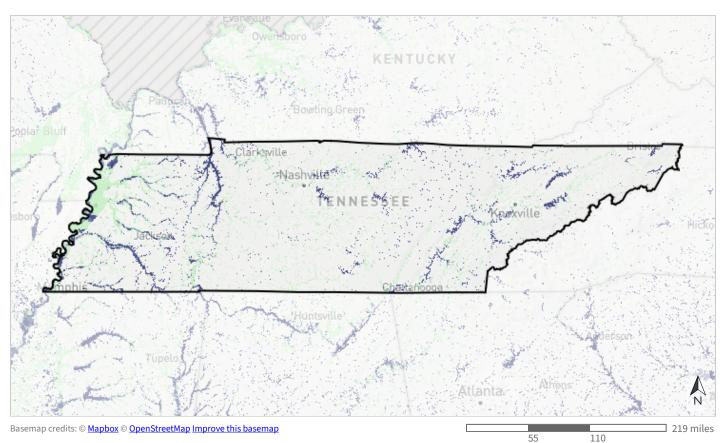


Table 14: Indicator values for imperiled aquatic species within Tennessee. A good condition threshold is not yet defined for this indicator.

	Indicator Values: Number of aquatic animal Species of Greatest Conservation Need observed	Acres	Percent of Area
↑ High	8+ species	314,906	1.2%
	7 species	97,513	0.4%
	6 species	125,259	0.5%
	5 species	99,389	0.4%
	4 species	159,396	0.6%
	3 species	225,576	0.8%
	2 species	403,330	1.5%
	1 species	717,885	2.7%
	0 species	1,182,257	4.4%
↓ Low	Not identified as a floodplain (excluding West Virginia)	23,637,261	87.7%
	Total area	26,962,771	100%



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).





Percent natural landcover within the estimated floodplain, by catchment

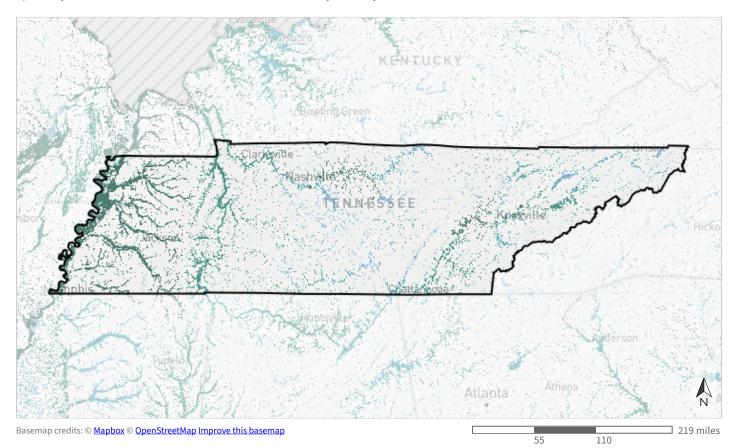
- >90% natural landcover
- >80-90% natural landcover
- >70-80% natural landcover
- >60-70% natural landcover
- ≤60% natural landcover
- Not identified as a floodplain

Table 15: Indicator values for natural landcover in floodplains within Tennessee. 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	812,395	3.0%	↑ In good
	>80-90% natural landcover	273,062	1.0%	condition
	>70-80% natural landcover	215,216	0.8%	↓ Not in good
	>60-70% natural landcover	220,930	0.8%	condition
	≤60% natural landcover	1,803,909	6.7%	
$\downarrow Low$	Not identified as a floodplain	23,637,261	87.7%	
	Total area	26,962,771	100%	



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).





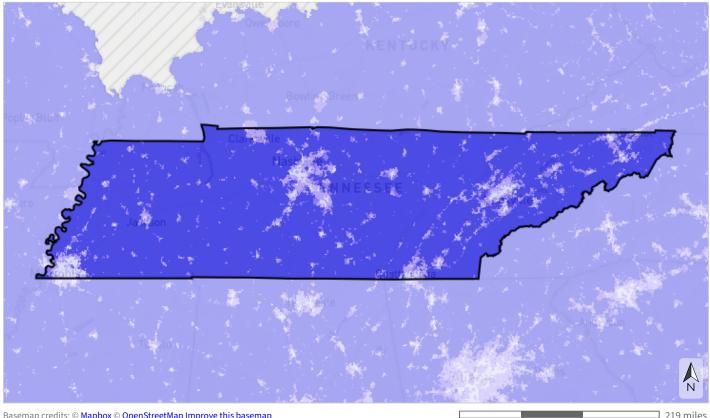
Not identified as a floodplain

Table 16: Indicator values for network complexity within Tennessee. 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	1,355,380	5.0%	
	6 size classes	846,711	3.1%	
	5 size classes	399,923	1.5%	
	4 size classes	370,889	1.4%	↑ In good condition
	3 size classes	154,608	0.6%	↓ Not in good
	2 size classes	88,826	0.3%	condition
	1 size class	109,080	0.4%	
↓ Low	Not identified as a floodplain	23,637,352	87.7%	
	Total area	26,962,771	100%	



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.



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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)

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≤70% permeable (likely degraded instream flow, water quality, and aquatic species communities)

Table 17: Indicator values for permeable surface within Tennessee. 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)	23,713,314	87.9%	↑ In good condition
	>90-95% permeable (likely declining water quality and supporting most aquatic species)	1,337,823	5.0%	↓ Not in good condition
	>70-90% permeable (likely degraded water quality and not supporting many aquatic species)	1,449,976	5.4%	
↓ Low	≤70% permeable (likely degraded instream flow, water quality, and aquatic species communities)	461,659	1.7%	
	Total area	26,962,771	100%	

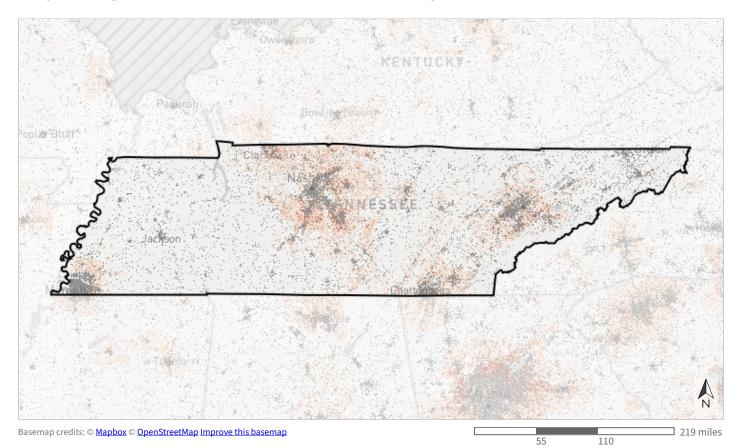
Threats

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

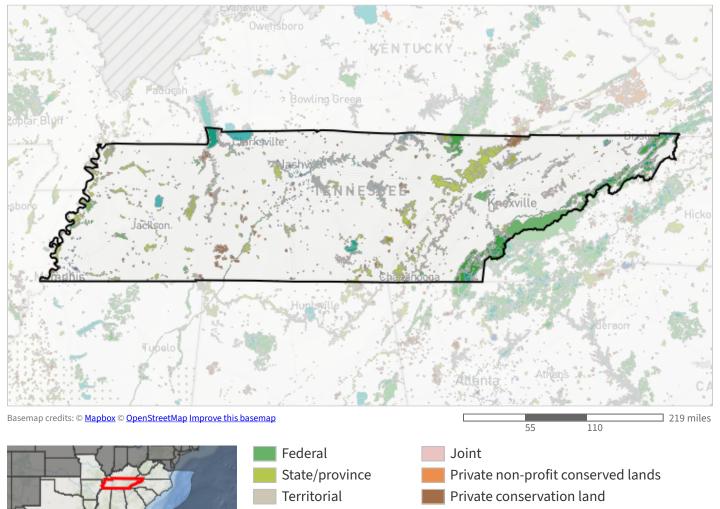
10.9% of this area is already urban in 2021, and an additional 12.3% has at least a moderate probability of urbanizing by 2060.

Table 18: Extent of projected urbanization by decade within Tennessee. Values from <u>FUTURES model</u> projections for the contiguous United States developed by the <u>Center for Geospatial Analytics</u>, NC State University. 2060 corresponds to the <u>SECAS goal</u>: a 10% or greater improvement in the health, function, and connectivity of Southeastern ecosystems by 2060.

Decade	Acres	Percent of Area
Urban in 2021	2,929,043	10.9%
2030 projected extent	3,010,273	11.2%
2040 projected extent	3,064,798	11.4%
2050 projected extent	3,108,233	11.5%
2060 projected extent	3,147,049	11.7%
2070 projected extent	3,183,736	11.8%
2080 projected extent	3,212,516	11.9%
2090 projected extent	3,232,129	12.0%
2100 projected extent	3,246,209	12.0%
Not projected to urbanize by 2100	20,166,788	74.8%
Total area	26,962,771	100%

Ownership and Partners

Conserved lands ownership





Local

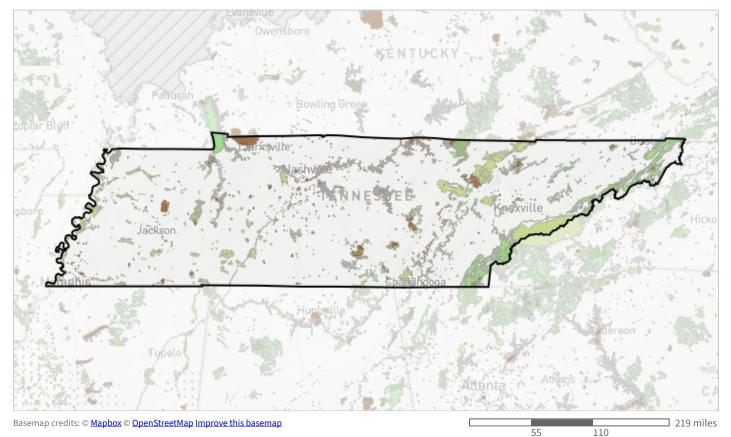


Ownership unknown

Table 19: Extent of ownership class within Tennessee. Protected areas are derived from the <u>Protected Areas</u> <u>Database of the United States</u> (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	2,365,952	8.8%
State/province	1,116,446	4.1%
Regional	451	<0.1%
Local	70,550	0.3%
Joint	8,917	<0.1%
Private non-profit conserved lands	12,642	<0.1%
Private conservation land	349,546	1.3%
Designation	485,934	1.8%
Ownership unknown	403,594	1.5%

Land protection status





- 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 20: Extent of land protection status within Tennessee. Protected areas are derived from the <u>Protected</u> <u>Areas Database of the United States</u> (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)	86,104	0.3%
Managed for biodiversity (disturbance events suppressed)	2,069,669	7.7%
Managed for multiple uses (subject to extractive uses such as mining or logging, or OHV use)	1,693,546	6.3%
No known mandate for biodiversity protection	964,713	3.6%

Protected Areas

- Cherokee National Forest (USDA FOREST SERVICE; 660,467 acres)
- South Cherokee National Forest & Wildlife Management Area (US Forest Service; 590,976 acres)
- North Cherokee National Forest & Wildlife Management Area (Forest Service; 340,125 acres)
- GRSM (NPS; 241,081 acres)
- (Unknown; 150,099 acres)
- Royal Blue Unit (Tennessee Wildlife Resources Agency; 91,099 acres)
- BISO (NPS; 83,326 acres)
- Catoosa Wildlife Management Area (Tennessee Wildlife Resources Agency; 79,207 acres)
- Big South Fork N.R.R.A. (National Park Service; 71,869 acres)
- Fort Campbell (67,532 acres)
- Land Between The Lakes Wildlife Management Area (Forest Service; 64,040 acres)
- Land Between The Lakes (63,694 acres)
- Land Between the Lakes National Recreation Area (USDA FOREST SERVICE; 63,694 acres)
- Tennessee National Wildlife Refuge (PVT; 49,523 acres)
- Chuck Swan Wildlife Management Area & State Forest (State Department of Agriculture, Division of Forestry; 47,851 acres)
- Tackett Creek Wildlife Management Area (Corrigan TLP/Molpus Timberland; 45,542 acres)

- DALE HOLLOW (Unknown; 44,125 acres)
- CENTER HILL (Unknown; 40,398 acres)
- Sundquist Unit (Tennessee Wildlife Resources Agency; 39,581 acres)
- Arnold Air Force Base (38,892 acres)
- Natchez Trace State Forest (State Department of Agriculture, Division of Forestry; 36,644 acres)
- Natchez Trace State Forest & Wildlife Management Area (State Department of Agriculture, Division of Forestry; 34,931 acres)
- Pickett State Forest & Wildlife Management Area (State Department of Agriculture, Division of Forestry; 33,986 acres)
- J. PERCY PRIEST (Unknown; 33,737 acres)
- OLD HICKORY (Unknown; 29,862 acres)
- ... and 2,413 more protected areas ...

Nearby land trusts

<u>Click here</u> to search for land trusts within 500 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 <u>Astute Spruce, LLC</u> in partnership with the U.S. Fish and Wildlife Service under the <u>Southeast</u> <u>Conservation Adaptation Strategy</u>.

Data credits

Land ownership and conservation status is derived from the <u>Protected Areas Database of the United</u> <u>States</u> (PAD-US v3.0).

Future urban growth estimates derived from <u>FUTURES model projections for the contiguous United States</u> developed by the <u>Center for Geospatial Analytics</u>, NC State University.

Sea level rise data are derived from the National Oceanic and Atmospheric Administration's <u>Sea Level Rise</u> <u>Inundation Depth Data</u> and the <u>2022 Sea Level Rise Technical Report</u>.