

# Southeast Conservation Blueprint Summary

for West Virginia

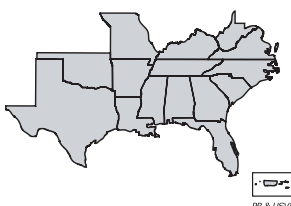
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**The Southeast  
Conservation  
Adaptation Strategy  
SECAS**



**The Southeast Conservation Blueprint 2022**

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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.

Across 15 states of the Southeast, 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. This portion of the Southeast Blueprint is referred to as the "Base Blueprint".

To provide more complete coverage of the SECAS geography, the Blueprint incorporates two additional input plans: the Florida Marine Blueprint for marine areas in Florida and the Caribbean Landscape Conservation Design for inland areas in Puerto Rico.

For more information:

- Visit the [Blueprint webpage](#)
- Review the [Blueprint 2022 Development Process](#)
- View and download the Blueprint data and make maps on the [Blueprint page of the SECAS Atlas](#)

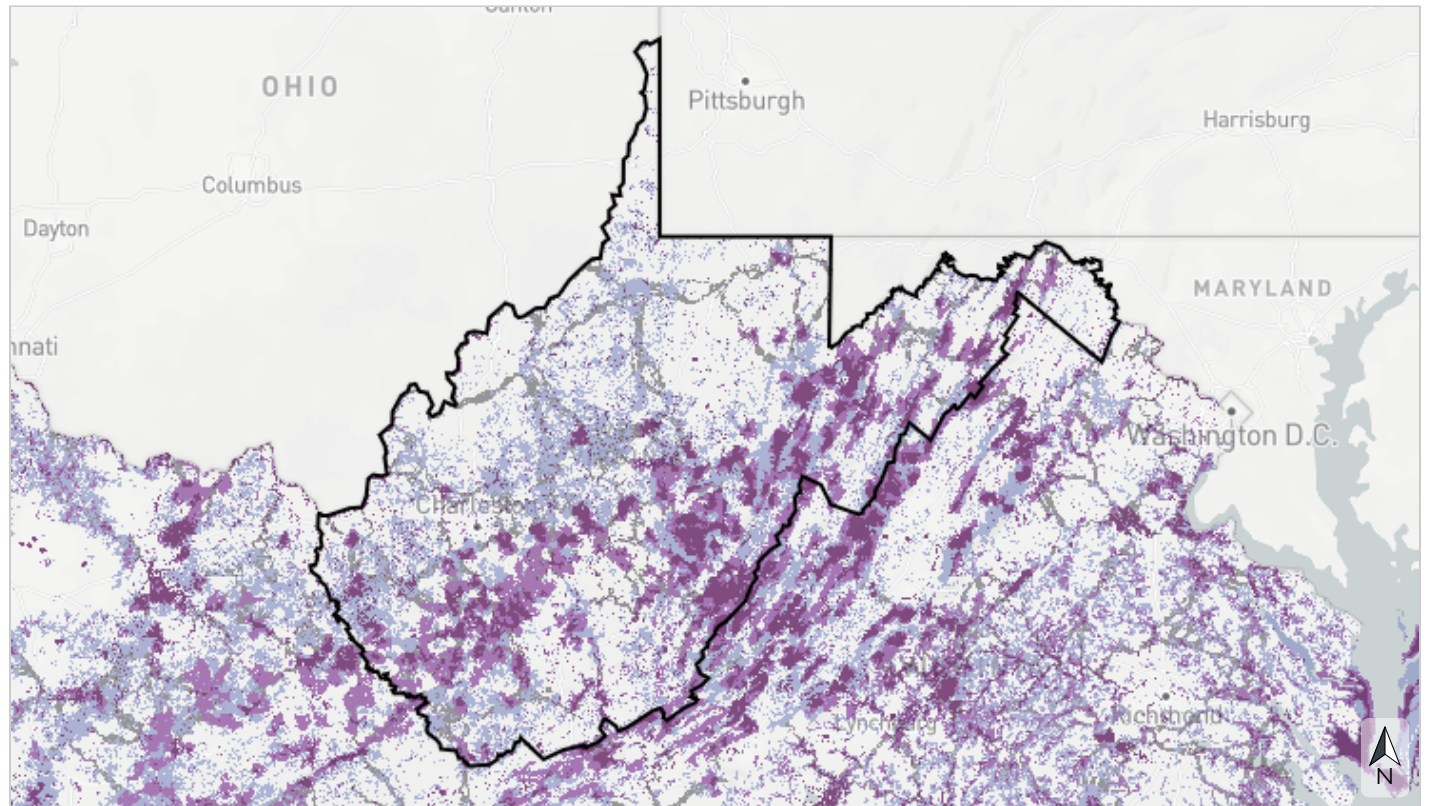
## We're here to help!

- 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.

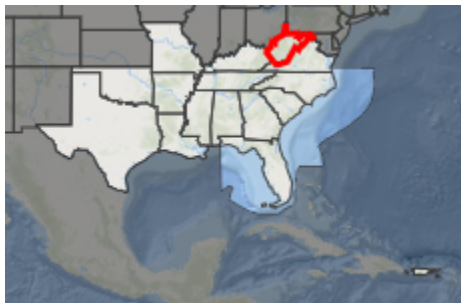
We're here to support you. We really mean it. It's what we do!

## Southeast Blueprint Priorities



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49 98 197 miles



### 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.

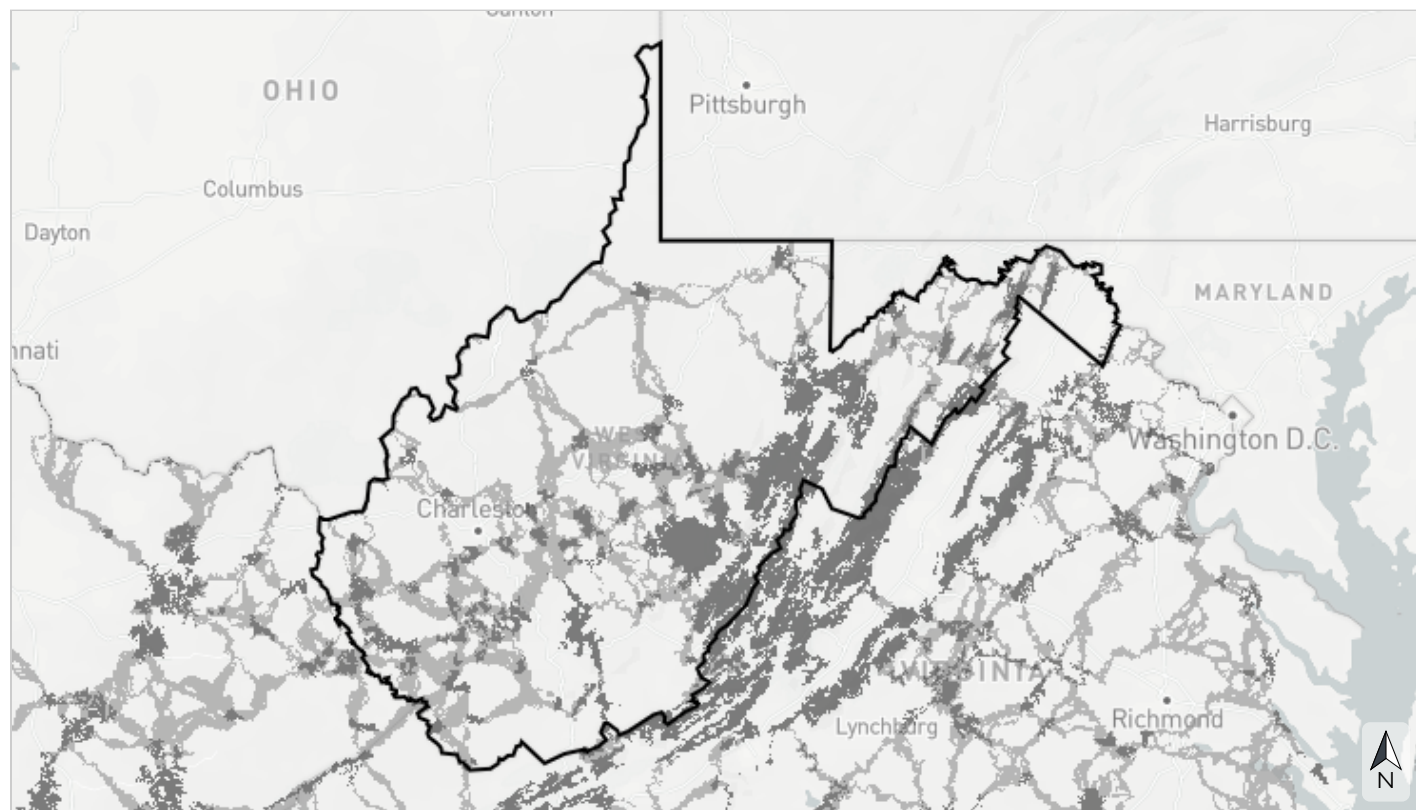
Table 1: Extent of each Blueprint priority category.

Priority Category	Acres	Percent of Area
Highest priority	1,567,470	10.1%
High priority	1,982,987	12.8%
Medium priority	3,387,688	21.8%
Priority connections	905,610	5.8%
Lower priority	7,662,509	49.4%
<i>Outside Southeast Blueprint</i>	935	<0.1%
<b>Total area</b>	<b>15,507,199</b>	<b>100%</b>

## Hubs and Corridors

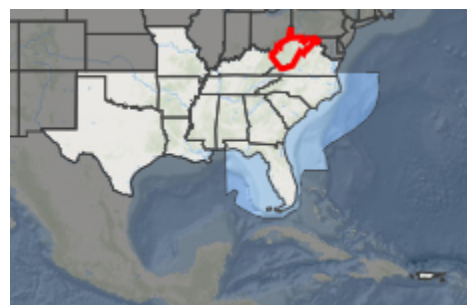
The Blueprint uses a least-cost path connectivity analysis to identify corridors that link hubs across the shortest distance possible, while also routing through as much Blueprint priority as possible.

Inland hubs are large patches (~5,000+ acres) of highest priority Blueprint areas and/or protected lands, connected by inland corridors. Marine and estuarine hubs are large estuaries and large patches (~5,000+ acres) of highest priority Blueprint areas. Marine and estuarine corridors connect those hubs within broad marine mammal movement areas.



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- Inland hubs
- Inland corridors
- Marine & estuarine hubs
- Marine & estuarine corridors
- Not a hub or corridor

Table 2: Extent of hubs and corridors.

Type	Acres	Percent of Area
Inland hubs	2,157,776	13.9%
Inland corridors	2,768,154	17.9%
Not a hub or corridor	10,580,334	68.2%
<i>Outside Southeast Blueprint</i>	935	<0.1%
<b>Total area</b>	<b>15,507,199</b>	<b>100%</b>

# Indicator Summary

Table 3: Terrestrial indicators.

Indicator	Present
East Coastal Plain open pine birds	-
<a href="#">Equitable access to potential parks</a>	✓
<a href="#">Fire frequency</a>	✓
Great Plains perennial grasslands	-
<a href="#">Greenways &amp; trails</a>	✓
<a href="#">Intact habitat cores</a>	✓
<a href="#">Interior Southeast grasslands</a>	✓
Mississippi Alluvial Valley forest birds (protection)	-
Mississippi Alluvial Valley forest birds (reforestation)	-
Playas	-
<a href="#">Resilient terrestrial sites</a>	✓
South Atlantic amphibian & reptile areas	-
South Atlantic forest birds	-
South Atlantic low-urban historic landscapes	-
<a href="#">Urban park size</a>	✓
West Coastal Plain & Ouachitas forested wetland birds	-
West Coastal Plain & Ouachitas open pine birds	-
West Gulf Coast mottled duck nesting	-



Table 4: Freshwater indicators.

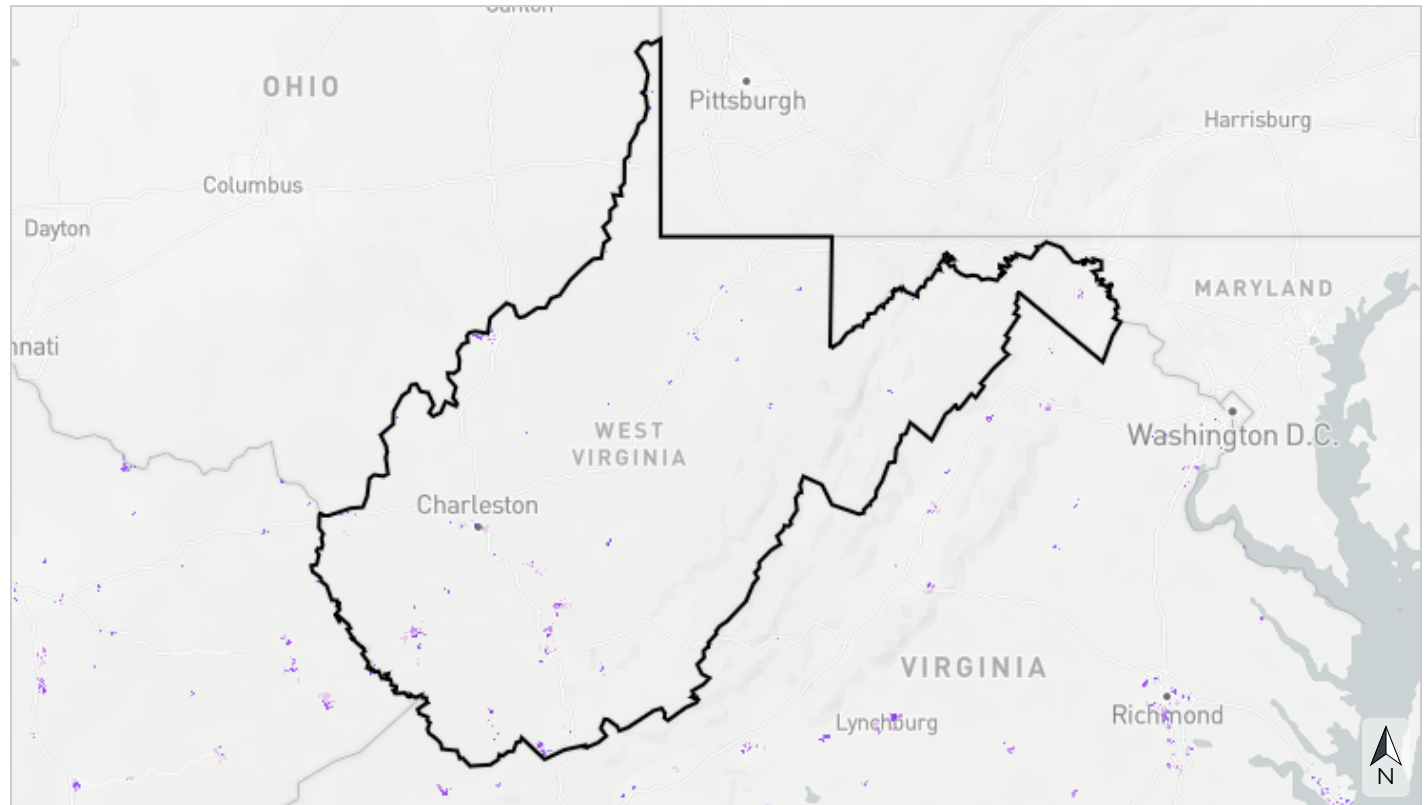
Indicator	Present
Atlantic migratory fish habitat	-
Gulf migratory fish connectivity	-
<a href="#">Imperiled aquatic species</a>	✓
<a href="#">West Virginia imperiled aquatic species</a>	✓
<a href="#">Natural landcover in floodplains</a>	✓
<a href="#">Network complexity</a>	✓
<a href="#">Permeable surface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



Terrestrial

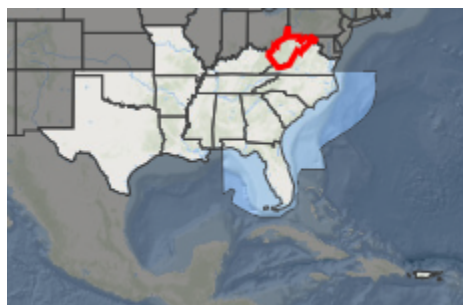
## Equitable access to potential parks

This cultural resource indicator prioritizes places to create new parks that would fill gaps in equitable access to open space within socially vulnerable communities. 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.



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- Very high priority for a new park that would create nearby equitable access
- High priority for a new park that would create nearby equitable access
- Moderate priority for a new park that would create nearby equitable access

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

	Indicator Values	Acres	Percent of Area
↑ High	Very high priority for a new park that would create nearby equitable access	24,335	0.2%
	High priority for a new park that would create nearby equitable access	16,652	0.1%
↓ Low	Moderate priority for a new park that would create nearby equitable access	27,976	0.2%
	<i>Area not evaluated for this indicator</i>	<i>15,437,301</i>	<i>99.5%</i>
	<i>Outside Southeast Blueprint</i>	<i>935</i>	<i>&lt;0.1%</i>
	<b>Total area</b>	<b>15,507,199</b>	<b>100%</b>

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



Terrestrial

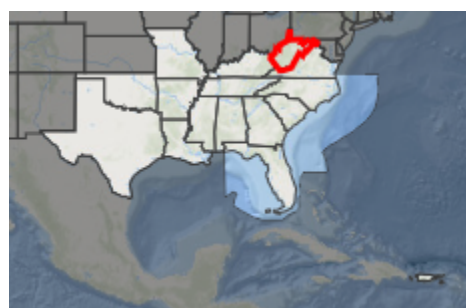
## Fire frequency

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 both 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.



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- 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 in this area. 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	675	<0.1%	↑ In good condition
	Burned 2 times from 2013-2021	1,937	<0.1%	
	Burned 1 time from 2013-2021	93,661	0.6%	
↓ Low	Not burned from 2013-2021 or row crop	15,409,991	99.4%	↓ Not in good condition
	<i>Outside Southeast Blueprint</i>	935	<0.1%	
	<b>Total area</b>	<b>15,507,199</b>	<b>100%</b>	

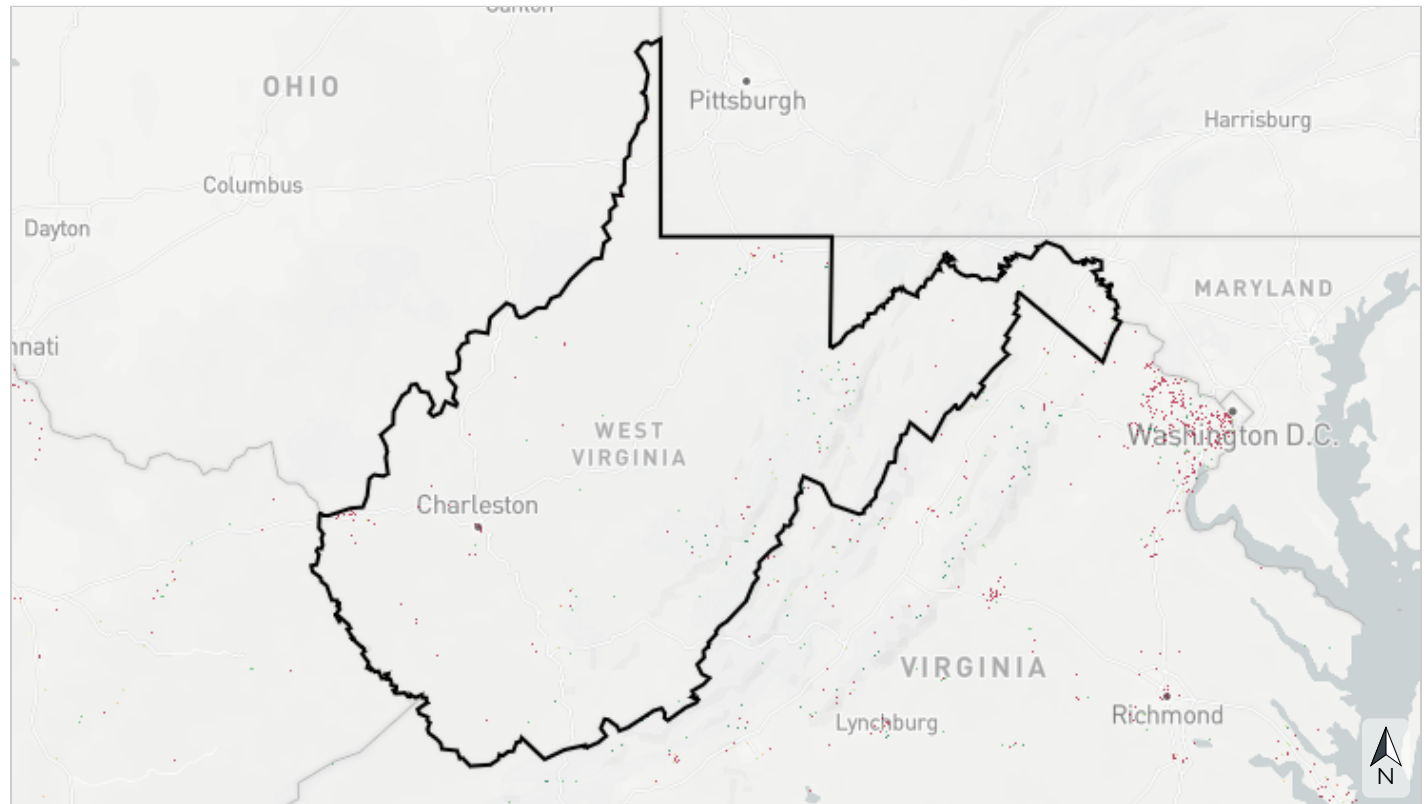
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Terrestrial

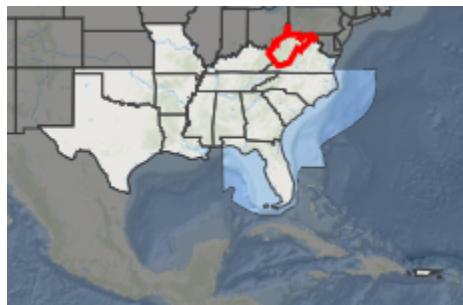
## Greenways & trails

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.



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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  $\geq 40$  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 or other path

Table 7: Indicator values for greenways & trails in this area. 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	4,845	<0.1%	
	Mostly natural and connected for 5 to <40 km or partly natural and connected for $\geq 40$ km	7,409	<0.1%	
	Mostly natural and connected for 1.9 to <5 km, partly natural and connected for 5 to <40 km, or developed and $\geq 40$ km	3,008	<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	1,028	<0.1%	↑ In good condition
↓ Low	Partly natural and connected for <1.9 km or developed and connected for 1.9 to <5 km	692	<0.1%	↓ Not in good condition
	Developed and connected for <1.9 km	170	<0.1%	
	Sidewalk or other path	17,409	0.1%	
	Area not evaluated for this indicator	15,471,703	99.8%	
	Outside Southeast Blueprint	935	<0.1%	
	<b>Total area</b>	<b>15,507,199</b>	<b>100%</b>	

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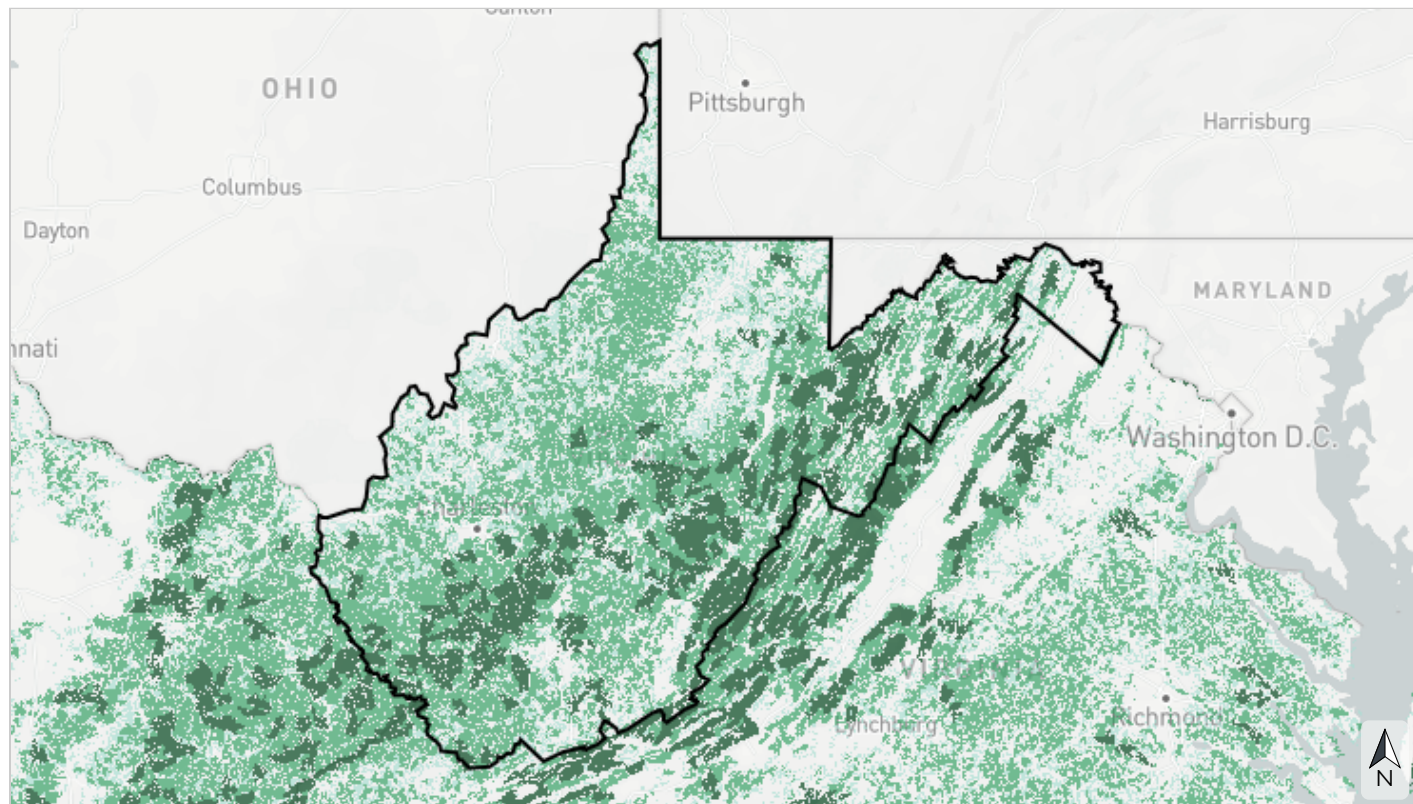




Terrestrial

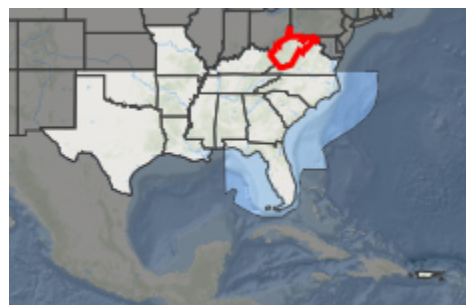
## Intact habitat cores

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 in this area. 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)	2,772,036	17.9%	
	Medium core (>1,000-10,000 acres)	5,941,823	38.3%	
	Small core (>100-1,000 acres)	1,951,091	12.6%	↑ In good condition
↓ Low	Not a core	4,841,313	31.2%	↓ Not in good condition
	<i>Outside Southeast Blueprint</i>	935	<0.1%	
	<b>Total area</b>	<b>15,507,199</b>	<b>100%</b>	

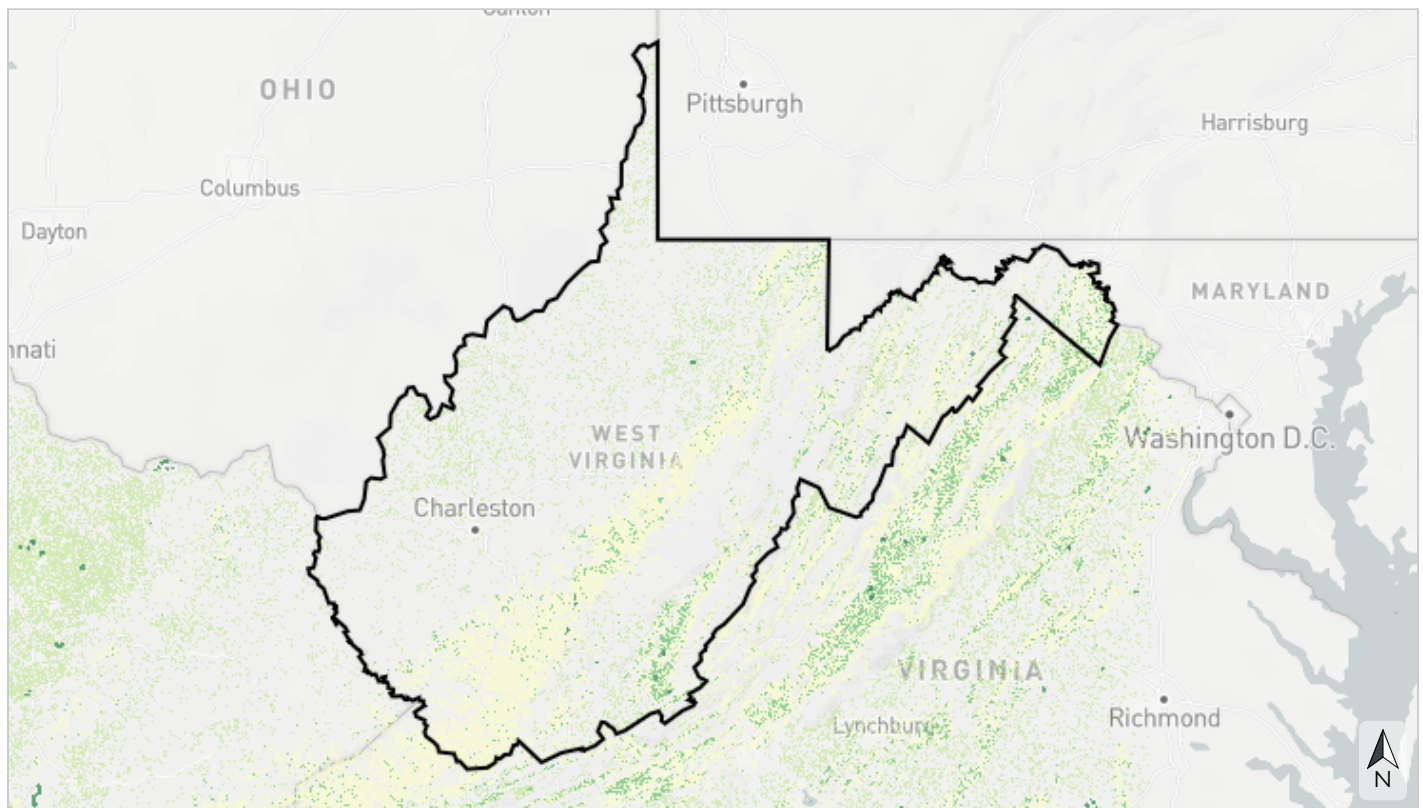
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Terrestrial

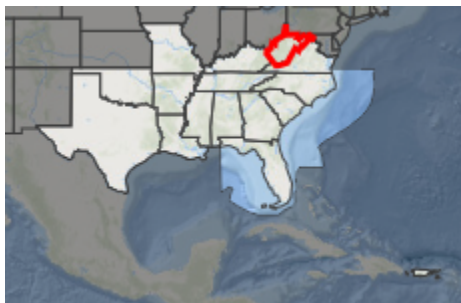
## Interior Southeast grasslands

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 Initiative, the Central Hardwoods Joint Venture, the Rangeland Analysis Platform, and The Nature Conservancy.



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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 in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	Known grassland	528	<0.1%
	Known grassland buffer	11,193	<0.1%
	Potentially compatible management within grassland geology (undeveloped powerline right-of-way or perennial forbs and grasses)	293,940	1.9%
	Potentially compatible management outside of grassland geology (undeveloped powerline right-of-way or perennial forbs and grasses)	1,283,225	8.3%
	Grassland geology	2,430,959	15.7%
↓ Low	Grassland less likely	11,486,419	74.1%
	<i>Outside Southeast Blueprint</i>	935	<0.1%
	<b>Total area</b>	<b>15,507,199</b>	<b>100%</b>

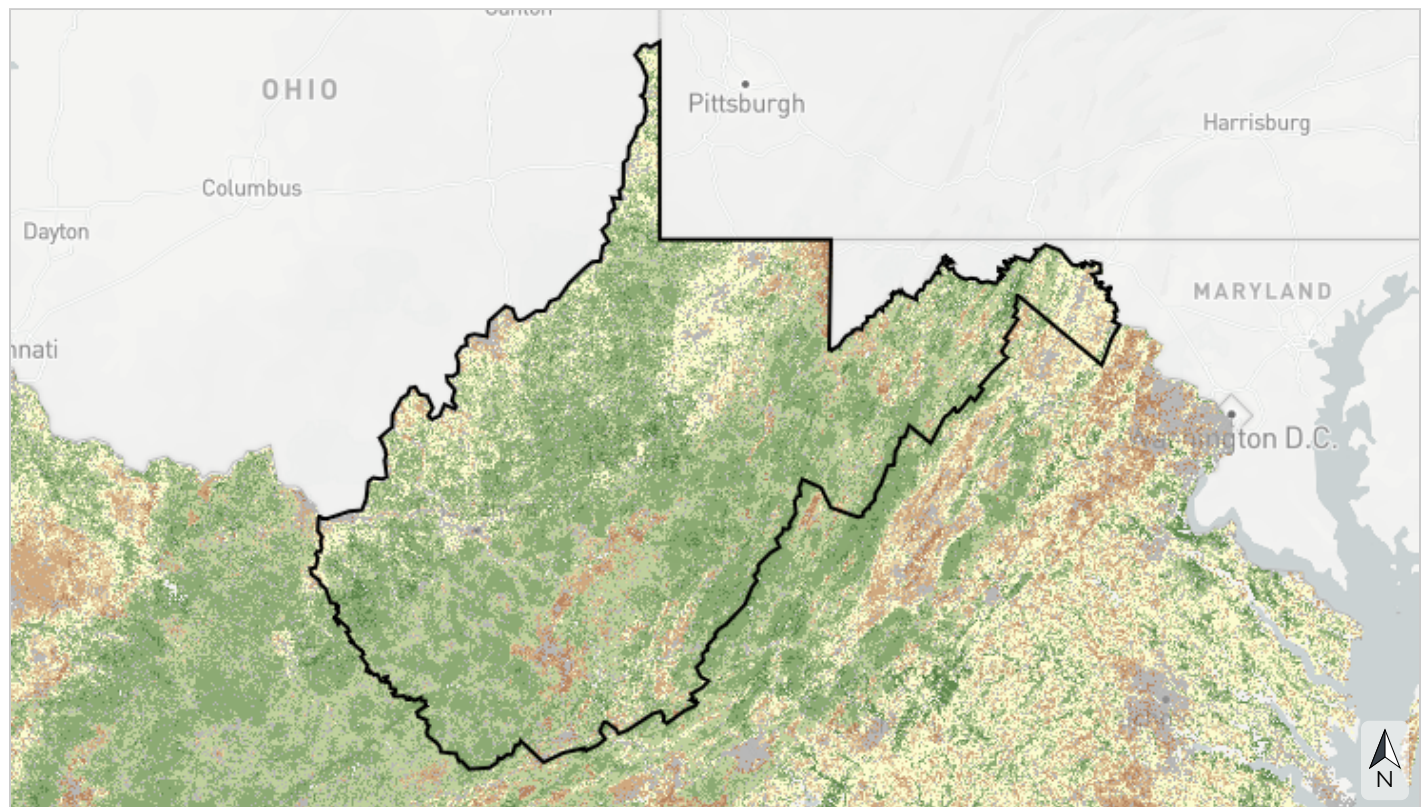
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Terrestrial

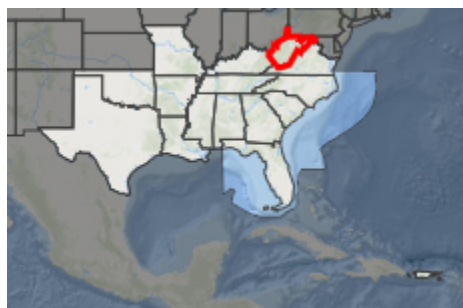
## Resilient terrestrial sites

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 10: Indicator values for resilient terrestrial sites in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	Most resilient	312,524	2.0%
	More resilient	5,952,833	38.4%
	Slightly more resilient	4,875,951	31.4%
	Average/median resilience	1,478,886	9.5%
	Slightly less resilient	552,987	3.6%
	Less resilient	578,416	3.7%
	Least resilient	130,804	0.8%
↓ Low	Developed	1,510,962	9.7%
	<i>Area not evaluated for this indicator</i>	<i>112,900</i>	<i>0.7%</i>
	<i>Outside Southeast Blueprint</i>	<i>935</i>	<i>&lt;0.1%</i>
	<b>Total area</b>	<b>15,507,199</b>	<b>100%</b>

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

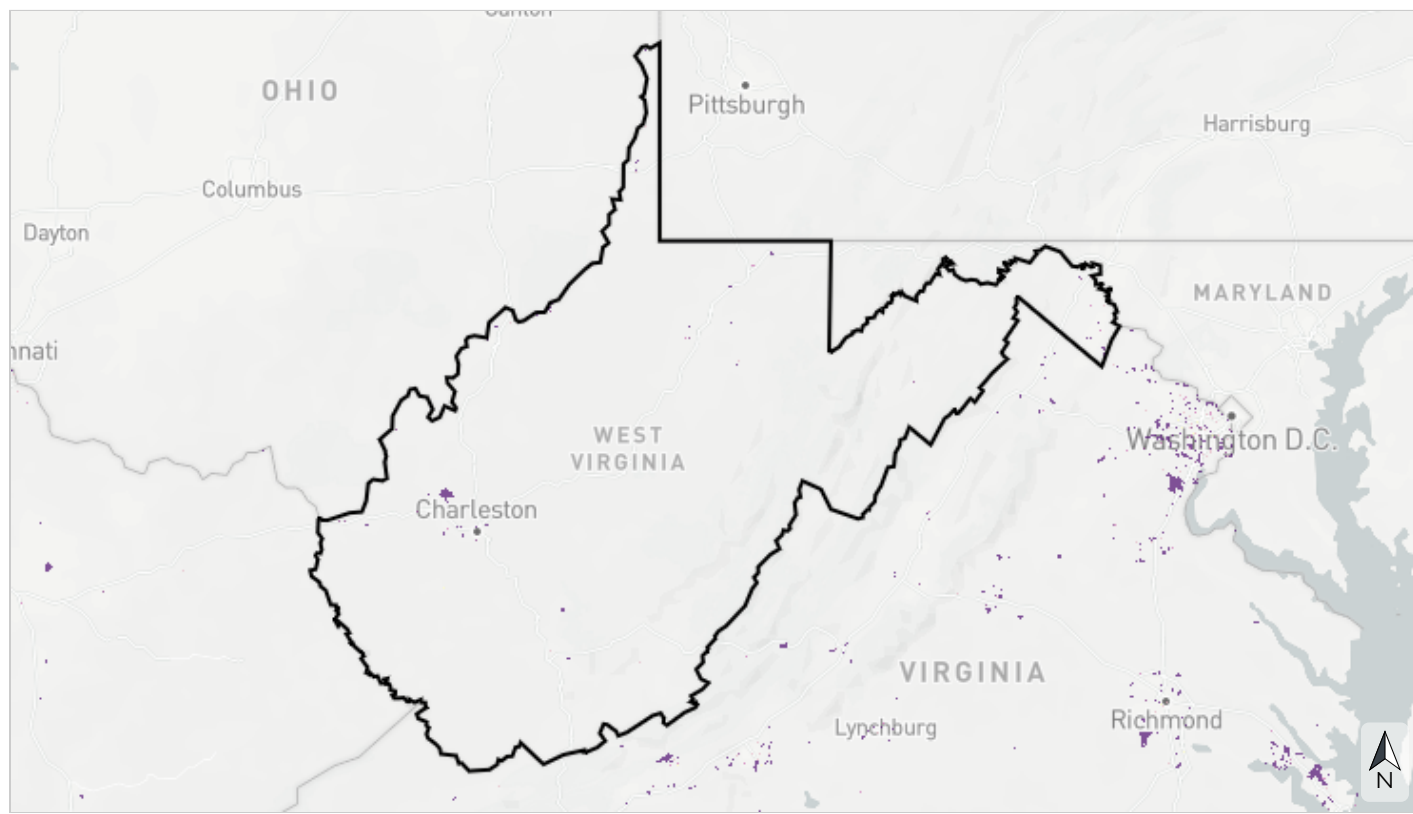




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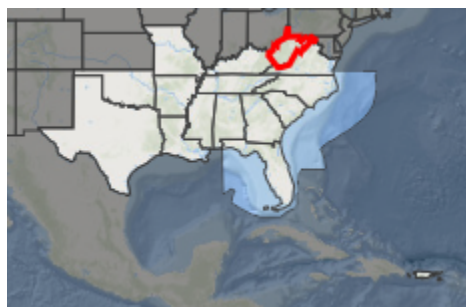
## Urban park size

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 U.S. Geological Survey's Protected Areas Database and 2019 National Land Cover Database percent developed impervious layer.



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- >75 acre urban park
- >50-75 acre urban park
- >30-50 acre urban park
- >10-30 acre urban park
- 5-10 acre urban park

Table 11: Indicator values for urban park size in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	>75 acre urban park	21,548	0.1%
	>50-75 acre urban park	1,229	<0.1%
	>30-50 acre urban park	1,139	<0.1%
	>10-30 acre urban park	1,594	<0.1%
↓ Low	5-10 acre urban park	464	<0.1%
	Area not evaluated for this indicator	15,480,289	99.8%
	Outside Southeast Blueprint	935	<0.1%
	<b>Total area</b>	<b>15,507,199</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 species diversity not well-represented by other freshwater aquatic indicators. 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.



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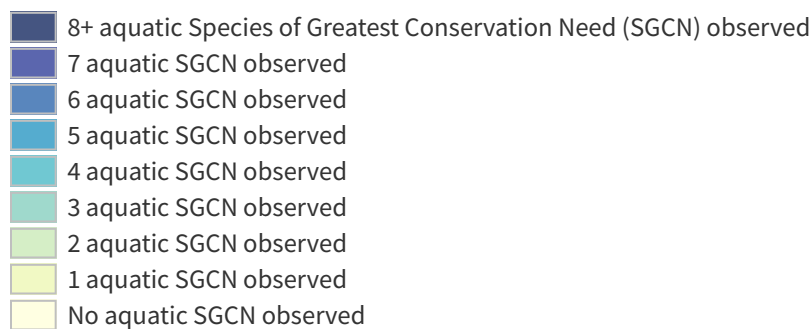
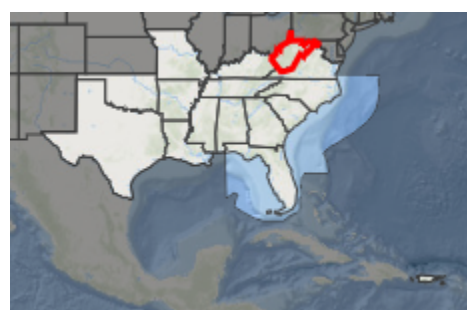




Table 12: Indicator values for imperiled aquatic species in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	8+ aquatic Species of Greatest Conservation Need (SGCN) observed	24	<0.1%
	7 aquatic SGCN observed	0	0%
	6 aquatic SGCN observed	2.4	<0.1%
	5 aquatic SGCN observed	0	0%
	4 aquatic SGCN observed	7.5	<0.1%
	3 aquatic SGCN observed	2	<0.1%
	2 aquatic SGCN observed	176	<0.1%
	1 aquatic SGCN observed	791	<0.1%
↓ Low	No aquatic SGCN observed	1,715	<0.1%
	<i>Area not evaluated for this indicator</i>	<i>15,503,546</i>	<i>100.0%</i>
	<i>Outside Southeast Blueprint</i>	<i>935</i>	<i>&lt;0.1%</i>
	<b>Total area</b>	<b>15,507,199</b>	<b>100%</b>

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



Freshwater

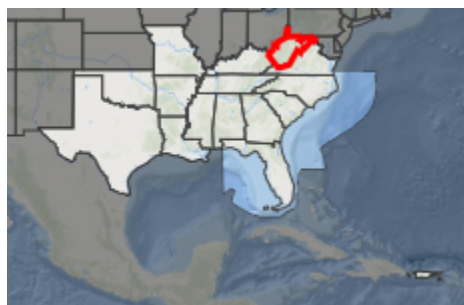
## West Virginia imperiled aquatic species

This indicator counts the number of aquatic species within each 12-digit HUC subwatershed in West Virginia that are listed as G1 (globally critically imperiled), G2 (globally imperiled), or threatened/endangered under the U.S. Endangered Species Act. It captures patterns of rare and endemic species diversity not well-represented by other freshwater aquatic indicators. It fills a key gap in the imperiled aquatic species indicator, which does not yet cover West Virginia. This indicator originates from the Environmental Protection Agency's EnviroAtlas data.



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- 5 aquatic imperiled (G1/G2) or threatened/endangered species observed
- 3 aquatic imperiled (G1/G2) or threatened/endangered species observed
- 2 aquatic imperiled (G1/G2) or threatened/endangered species observed
- 1 aquatic imperiled (G1/G2) or threatened/endangered species observed
- No aquatic imperiled (G1/G2) or threatened/endangered species observed

Table 13: Indicator values for West Virginia imperiled aquatic species in this area. A good condition threshold is not yet defined for this indicator.

	Indicator Values	Acres	Percent of Area
↑ High	5 aquatic imperiled (G1/G2) or threatened/endangered species observed	10,863	<0.1%
	3 aquatic imperiled (G1/G2) or threatened/endangered species observed	7,008	<0.1%
	2 aquatic imperiled (G1/G2) or threatened/endangered species observed	44,212	0.3%
	1 aquatic imperiled (G1/G2) or threatened/endangered species observed	76,905	0.5%
↓ Low	No aquatic imperiled (G1/G2) or threatened/endangered species observed	782,423	5.0%
	Area not evaluated for this indicator	14,584,852	94.1%
	Outside Southeast Blueprint	935	<0.1%
	<b>Total area</b>	<b>15,507,199</b>	<b>100%</b>

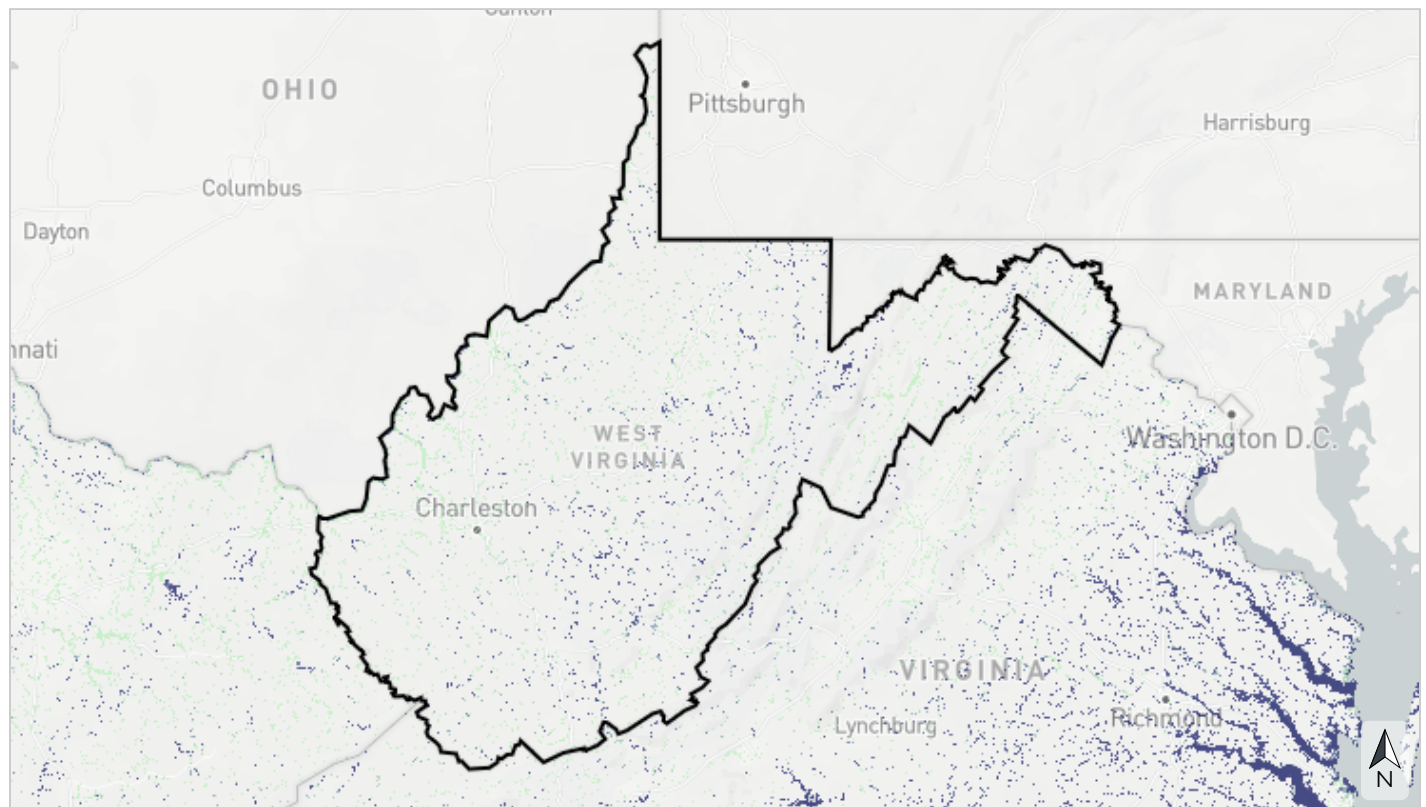
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



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 2019 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.

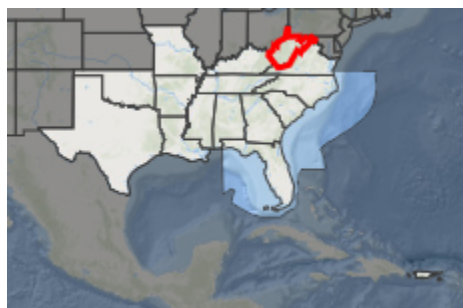


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49

98

197 miles



- >90% natural habitat within the estimated floodplain, by catchment
- >80-90%
- >70-80%
- >60-70%
- ≤60% natural habitat within the estimated floodplain, by catchment

Table 14: Indicator values for natural landcover in floodplains in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	>90% natural habitat within the estimated floodplain, by catchment	139,326	0.9%	↑ In good condition
	>80-90%	75,585	0.5%	
	>70-80%	93,784	0.6%	↓ Not in good condition
	>60-70%	100,372	0.6%	
↓ Low	≤60% natural habitat within the estimated floodplain, by catchment	536,788	3.5%	
	Area not evaluated for this indicator	14,560,409	93.9%	
	Outside Southeast Blueprint	935	<0.1%	
	<b>Total area</b>	<b>15,507,199</b>	<b>100%</b>	

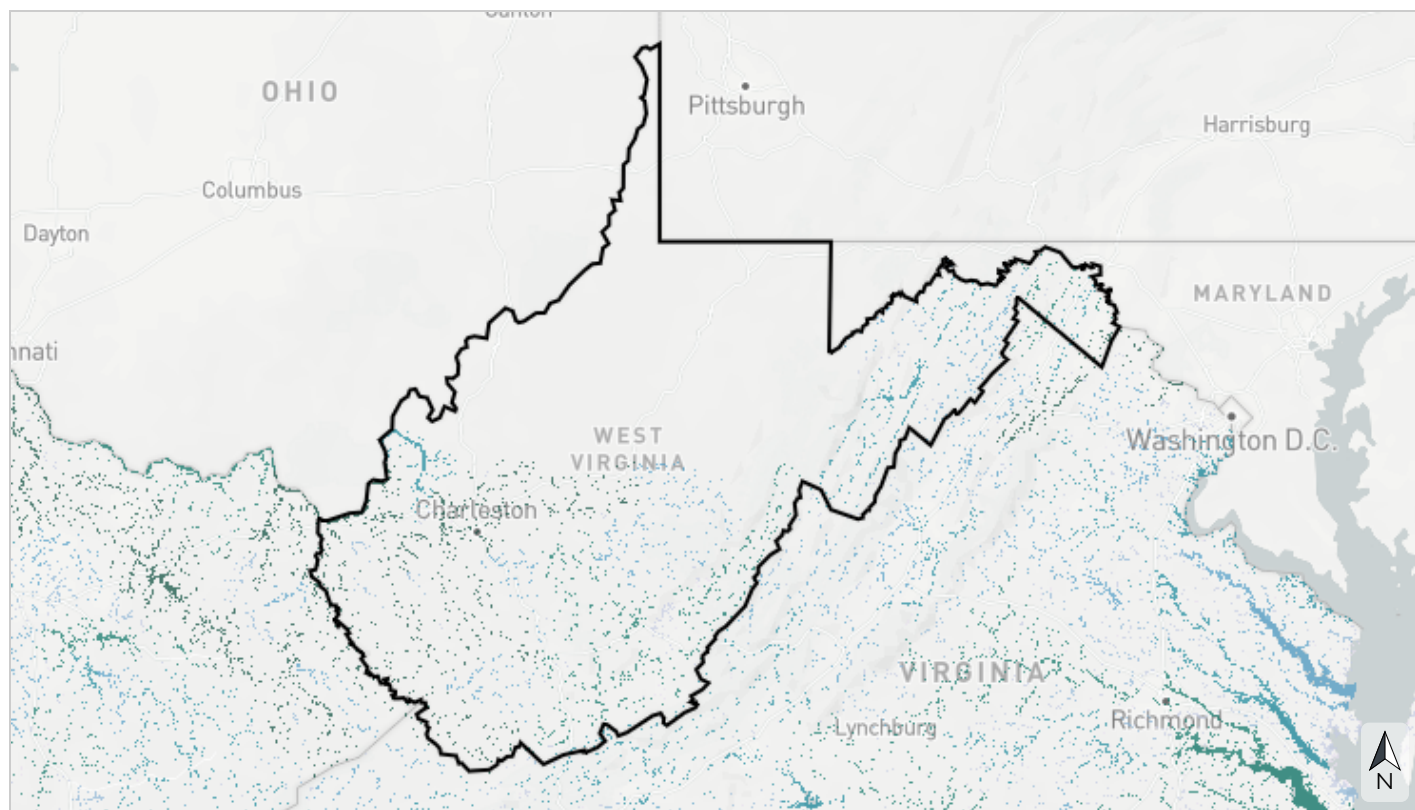
To learn more and explore the GIS data, [view this indicator in the SECAS Atlas](#).



Freshwater

## Network complexity

This indicator depicts the number of different stream size classes in a river network not separated by 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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49 98 197 miles



- 7 connected stream classes
- 6 connected stream classes
- 5 connected stream classes
- 4 connected stream classes
- 3 connected stream classes
- 2 connected stream classes
- 1 connected stream class

Table 15: Indicator values for network complexity in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	7 connected stream classes	178,094	1.1%	
	6 connected stream classes	137,325	0.9%	
	5 connected stream classes	111,945	0.7%	
	4 connected stream classes	102,711	0.7%	↑ In good condition
	3 connected stream classes	12,744	<0.1%	↓ Not in good condition
	2 connected stream classes	26,487	0.2%	
↓ Low	1 connected stream class	5,061	<0.1%	
	Area not evaluated for this indicator	14,931,897	96.3%	
	Outside Southeast Blueprint	935	<0.1%	
	<b>Total area</b>	<b>15,507,199</b>	<b>100%</b>	

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

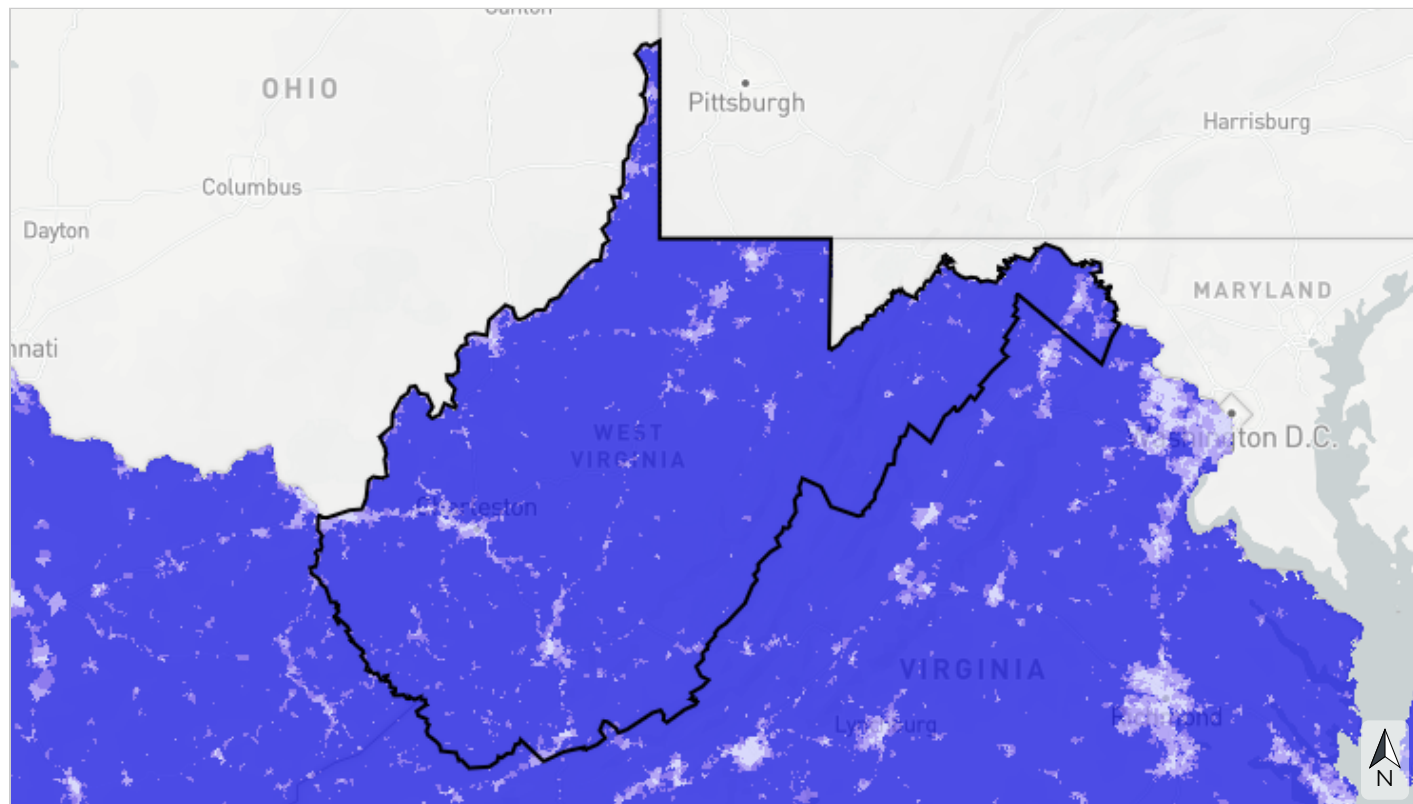




Freshwater

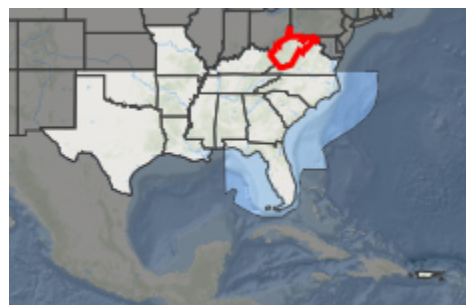
## Permeable surface

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 2019 National Land Cover Database percent developed impervious layer.



Basemap credits: Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

0 49 98 197 miles



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



Table 16: Indicator values for permeable surface in this area. Good condition thresholds reflect the range of indicator values that occur in healthy, functioning ecosystems.

	Indicator Values	Acres	Percent of Area	
↑ High	>95% of catchment permeable (likely high water quality and supporting most sensitive aquatic species)	14,475,083	93.3%	↑ In good condition
	>90-95% of catchment permeable (likely declining water quality and supporting most aquatic species)	524,667	3.4%	↓ Not in good condition
	>70-90% of catchment permeable (likely degraded water quality and not supporting many aquatic species)	433,880	2.8%	
↓ Low	≤70% of catchment permeable (likely degraded instream flow, water quality, and aquatic species communities)	72,634	0.5%	
	<i>Outside Southeast Blueprint</i>	935	<0.1%	
	<b>Total area</b>	<b>15,507,199</b>	<b>100%</b>	

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

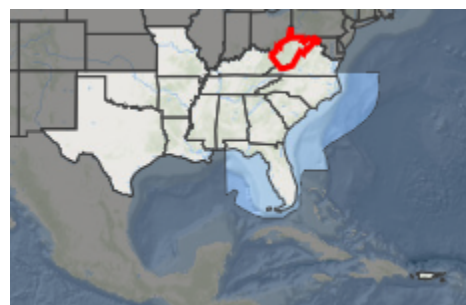
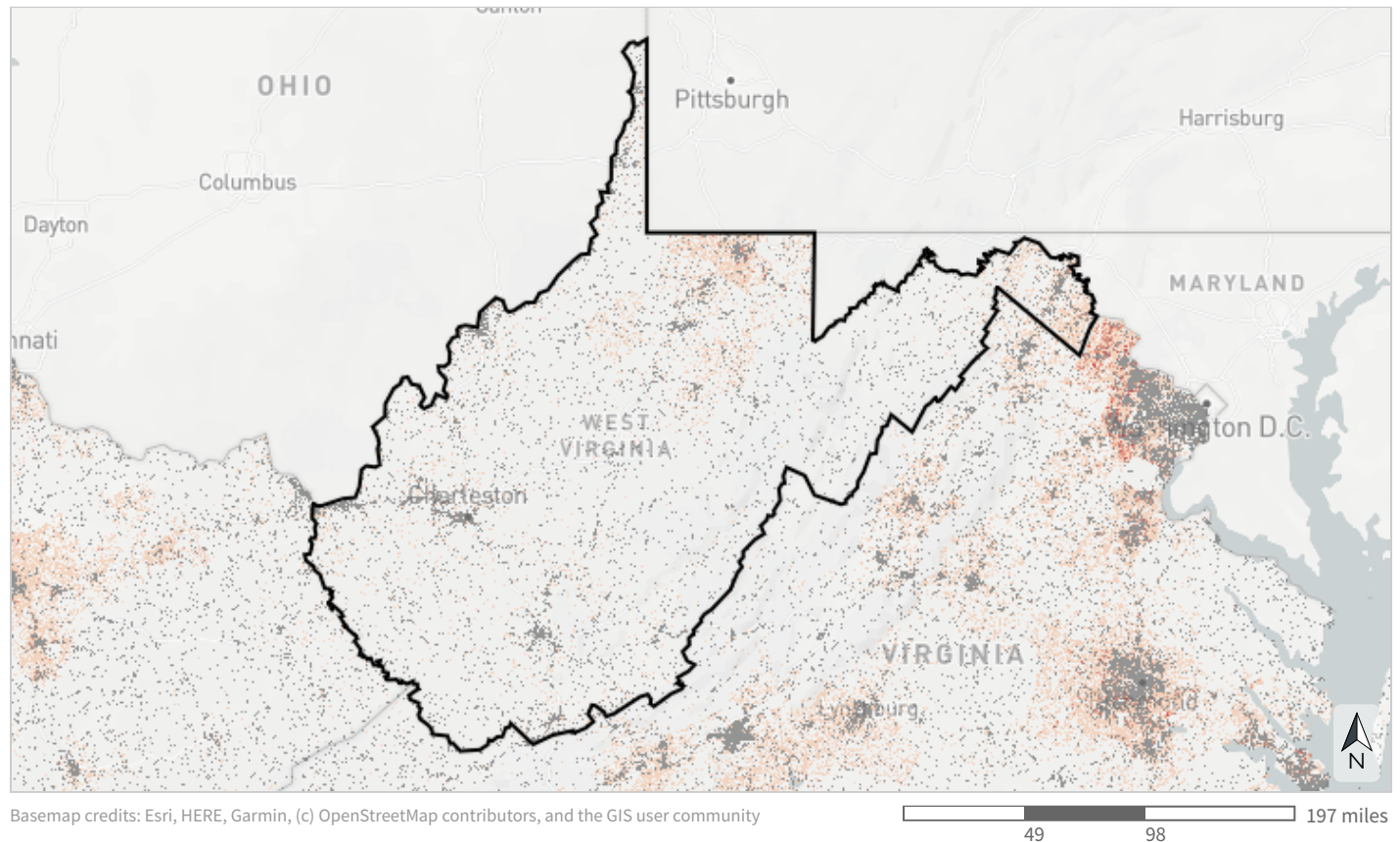
# Threats

## 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 2019 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 2019
- 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

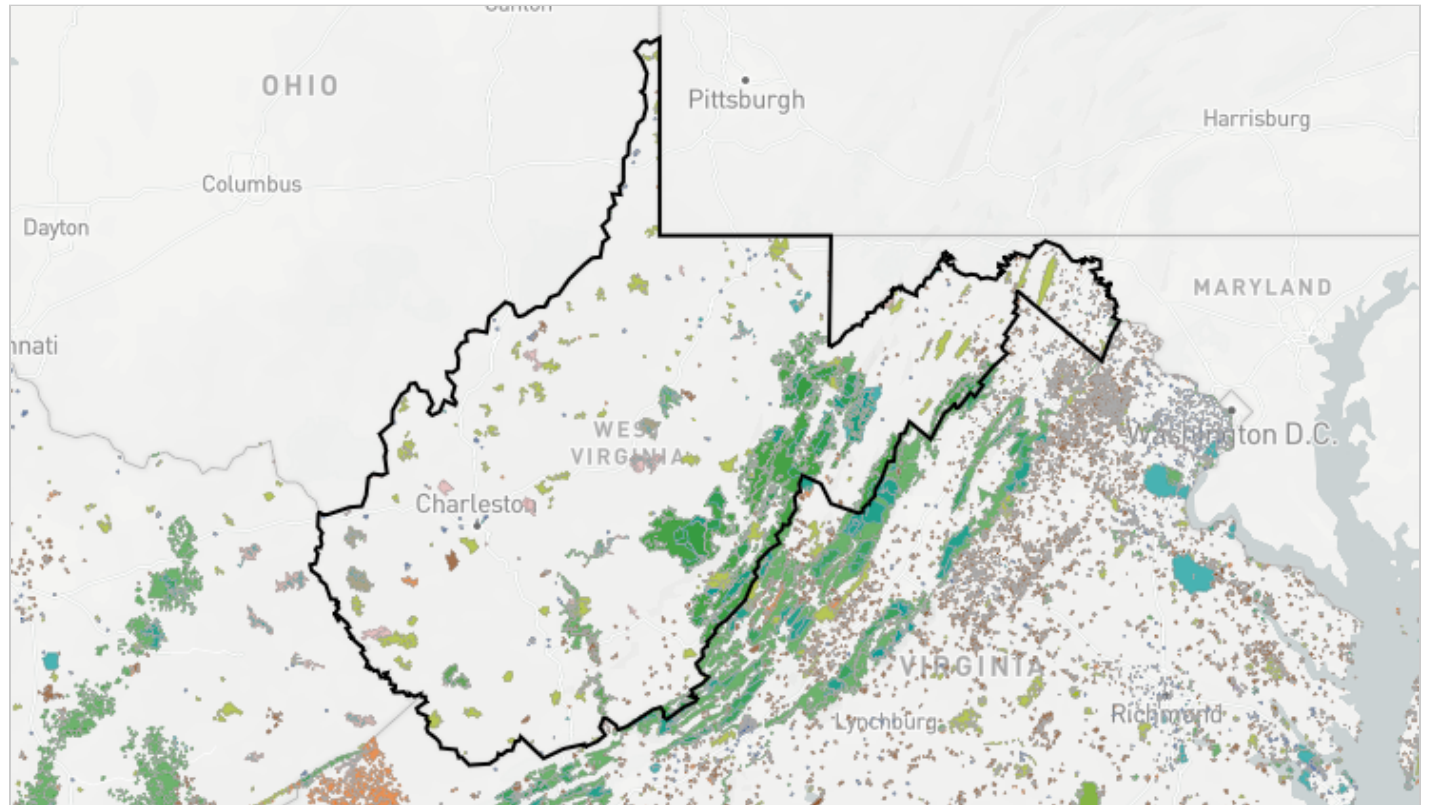
6.8% of this area is already urban in 2019, and an additional 4.8% has at least a moderate probability of urbanizing by 2060.

Table 17: Extent of projected urbanization by decade in this area. Values from the FUTURES urban growth model. Data provided 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 2019	1,057,018	6.8%
2020 projected extent	1,066,699	6.9%
2030 projected extent	1,072,476	6.9%
2040 projected extent	1,077,273	6.9%
2050 projected extent	1,081,234	7.0%
2060 projected extent	1,084,946	7.0%
2070 projected extent	1,087,863	7.0%
2080 projected extent	1,090,167	7.0%
2090 projected extent	1,092,014	7.0%
2100 projected extent	1,092,984	7.0%
<i>Not projected to urbanize by 2100</i>	13,631,405	87.9%
<i>Outside Southeast Blueprint</i>	935	<0.1%
<b>Total area</b>	<b>15,507,199</b>	<b>100%</b>

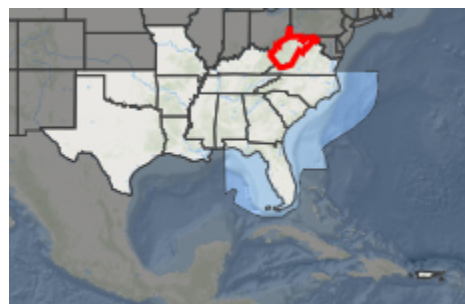
# Ownership and Partners

## Conserved lands ownership



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49 98 197 miles

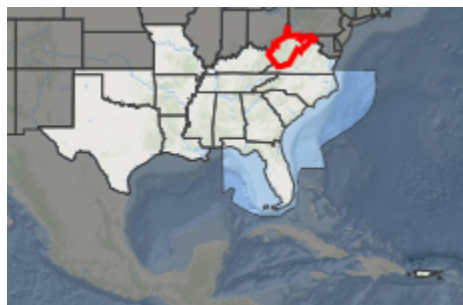
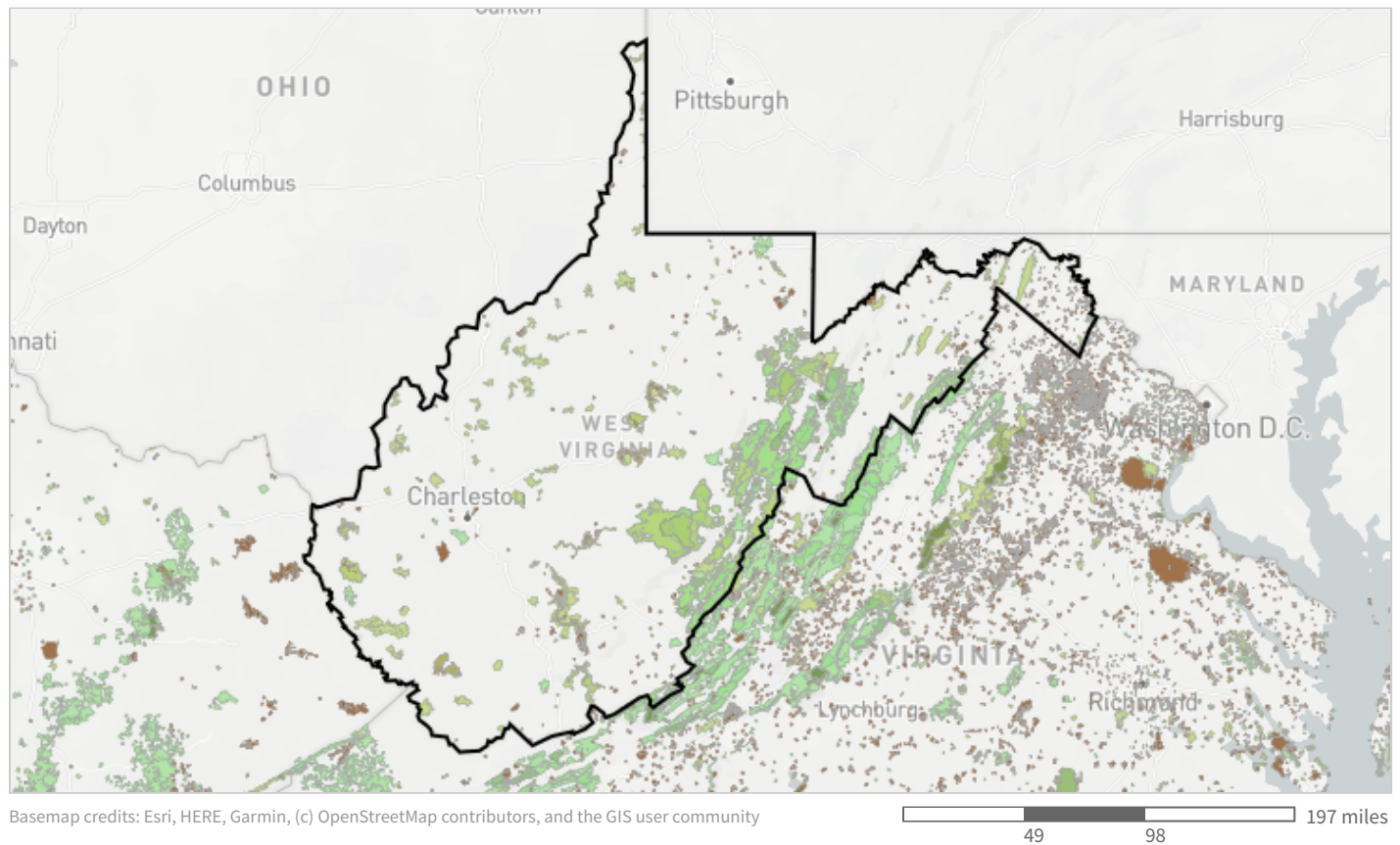


- |                |                                    |
|----------------|------------------------------------|
| Federal        | Joint                              |
| State/province | Private non-profit conserved lands |
| Territorial    | Private conservation land          |
| Regional       |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

Table 18: Extent of ownership class in this area. Protected areas are derived from the [Protected Areas Database of the United States](#) (PAD-US v3.0). 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.

Ownership	Acres	Percent of Area
Federal	2,285,651	14.7%
State/province	380,215	2.5%
Regional	524	<0.1%
Local	22,733	0.1%
Joint	64,290	0.4%
Private non-profit conserved lands	14,609	<0.1%
Private conservation land	94,426	0.6%
Designation	467,022	3.0%
Ownership unknown	131,444	0.8%
<i>Not conserved</i>	<i>12,046,285</i>	<i>77.7%</i>
<b>Total area</b>	<b>15,507,200</b>	<b>100%</b>

## 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 19: Extent of land protection status in this area. Protected areas are derived from the [Protected Areas Database of the United States](#) (PAD-US v3.0). 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.

Land Protection Status	Acres	Percent of Area
Managed for biodiversity (disturbance events proceed or are mimicked)	119,333	0.8%
Managed for biodiversity (disturbance events suppressed)	1,716,620	11.1%
Managed for multiple uses (subject to extractive uses such as mining or logging, or OHV use)	1,448,198	9.3%
No known mandate for biodiversity protection	176,764	1.1%
<i>Not conserved</i>	<i>12,046,285</i>	<i>77.7%</i>
<b>Total area</b>	<b>15,507,200</b>	<b>100%</b>

## Protected Areas

- Monongahela National Forest (USDA FOREST SERVICE; 920,728 acres)
- Cranberry Wildlife Management Area (U.S. Forest Service; 159,286 acres)
- Potomac Wildlife Management Area (U.S. Forest Service; 145,991 acres)
- George Washington and Jefferson National Forest (USDA FOREST SERVICE; 125,889 acres)
- Little River Wildlife Management Area (U.S. Forest Service; 121,604 acres)
- Neola Wildlife Management Area (U.S. Forest Service; 105,694 acres)
- Spruce Knob-Seneca Rocks (99,824 acres)
- Cheat Wildlife Management Area (U.S. Forest Service; 79,571 acres)
- Rimel Wildlife Management Area (U.S. Forest Service; 68,056 acres)
- Otter Creek Wildlife Management Area (U.S. Forest Service; 67,620 acres)
- Tea Creek Wildlife Management Area (U.S. Forest Service; 67,455 acres)
- Blackwater Wildlife Management Area (U.S. Forest Service; 61,316 acres)
- Wardensville Wildlife Management Area (U.S. Forest Service; 54,942 acres)
- NERI (NPS; 52,890 acres)
- Shenandoah Wildlife Management Area (U.S. Forest Service; 50,719 acres)
- Cranberry Wilderness (47,742 acres)
- Beaver Dam Wildlife Management Area (U.S. Forest Service; 40,641 acres)



- Tomblin Wildlife Management Area (WV Division of Natural Resources; 25,180 acres)
- EAST LYNN (Unknown; 24,834 acres)
- East Lynn Lake Wildlife Management Area (U.S. Army Corps of Engineers; 24,791 acres)
- Seneca Creek (22,287 acres)
- Sleepy Creek Wildlife Management Area (WV Division of Natural Resources; 22,232 acres)
- BLUESTONE (Unknown; 22,147 acres)
- Otter Creek Wilderness (20,705 acres)
- Elk River Wildlife Management Area (WV Division of Natural Resources, U.S. Army Corps of Engineers; 19,678 acres)
- ... and 1,094 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

Urbanization data are derived from the FUTURES urban growth model. Data provided by the [Center for Geospatial Analytics](#), NC State University (June 2022).

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](#).

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