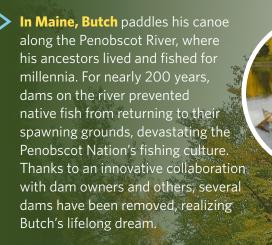


## Appalachians Appein a Changing Climate

 From forested mountains to deep river valleys, the Appalachians harbor a remarkable variety of wildlife, cultures and communities.
 © Dylan Jones



In Pennsylvania, Susan and her granddaughter explore their family's property, spotting bobcat dens and flocks of songbirds. Susan inherited the land, which has been passed down through generations, but her paycheck wouldn't stretch far enough to cover conservation practices that support biodiversity and carbon storage. Through the Family Forest Carbon Program, she gets paid to improve management of her land.

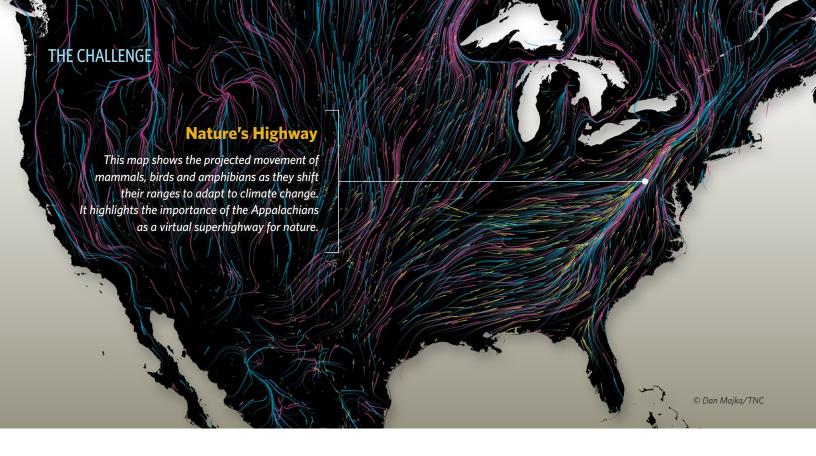
In South Carolina, Lindsay and Shawn brew craft beers using high-quality freshwater sourced from the local watershed. Fire is an integral part of healthy watershed forests, and The Nature Conservancy helps Greenville use controlled burns to improve forest health and ensure a reliable water supply for over half a million people in the county.



#### What connects these people are the

### Appalachians

 Native fish thrive throughout the Appalachians, such as here in New Hampshire's Ammonoosuc River.
 Seff Lougee Inset photos, top to bottom:
 Bridget Besaw, American Forest Foundation, Birds Fly South The Appalachians offer these opportunities—and many more—to tackle the intertwined climate and biodiversity crises while benefiting local communities and livelihoods.



#### We must work at a continental scale,

finding bold new ways to collaborate to find equitable solutions.

Recognizing the threats and opportunities this region faces, The Nature Conservancy (TNC) has identified the Appalachians as one of the most globally important landscapes for tackling climate change and conserving biodiversity—along with the Amazon, Kenya and Kalimantan in Indonesia.

To address the challenges facing the Appalachians, TNC is advancing solutions in three interrelated areas:

**CONNECTIVITY:** Create a 2,000-mile connected network of resilient lands and waters—a biodiversity superhighway enabling plants and animals to adapt to a changing climate

**CLIMATE:** Protect and manage forests to store significant amounts of carbon, and accelerate the transition to well-sited renewable energy

**COMMUNITIES:** Support resilient communities with sustainable livelihoods and strong connections to the region's incredible natural landscapes

As the only environmental organization with staff living and working across the Appalachians, TNC is uniquely positioned to partner with a wide range of communities, governments and businesses to conserve this globally valuable landscape.

By working together on connectivity, climate and community solutions, we can simultaneously conserve vital wildlife habitat, reduce greenhouse gas emissions, build resilience to the impacts of climate change and generate new job and recreation opportunities. And by coordinating our efforts from Quebec to Alabama, we will focus on the highest-impact opportunities and allocate resources where they are most needed, as outlined in the following pages.

We are at an extraordinary time in history. This is the deciding decade to address the existential threats of climate change and biodiversity loss and build the future we envision.





### Connectivity

TNC has been conserving vital Appalachian habitats for decades. Now we must ramp up our efforts, coordinating them across the Appalachians to stitch together a virtual superhighway for nature—a continental-scale network of connected, resilient lands and waters where animals and plants can move as the climate warms.

#### To expand our impact, we will:

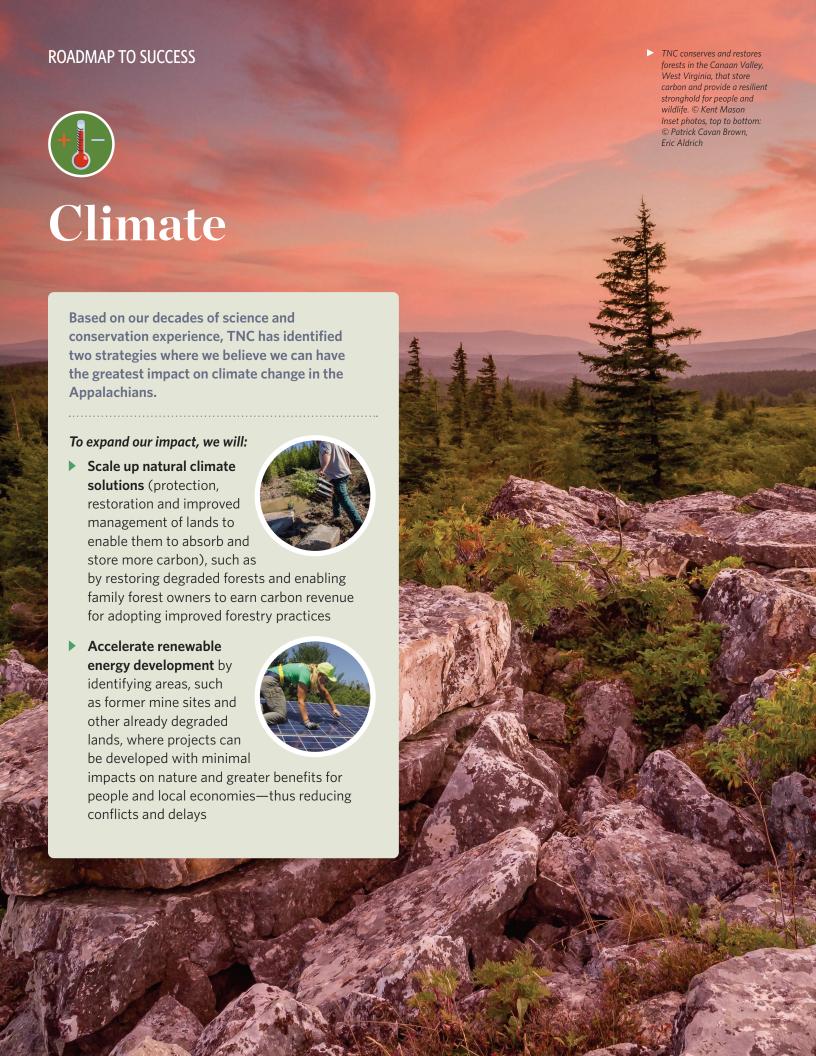
- Protect and connect vital lands and waters, leveraging public funding and innovative financing to lead outsized deals, connect key corridors and widen choke points
- Remove barriers, such as poorly designed culverts and dams, and restore stream banks to enable fish and other wildlife to move and shift their ranges
- Improve management of public and private lands by working with landowners to restore healthy forests, conduct controlled burns and adopt other climatesmart practices







▶ In the Cumberland Gap area along the border of Kentucky and Tennessee, TNC is conserving an important migration route, enabling animals and plants to shift their ranges to cooler climates.
© Cameron Davidson Inset photos, top to bottom:
© Jeff Wendorff, © Jerry and Marcy Monkman/ EcoPhotography, Jeff Lougee





> CONNECTIVITY, CLIMATE AND COMMUNITIES:

# Our solutions are designed to achieve multiple interrelated benefits.

For example, by siting renewable energy projects on already degraded lands, we can simultaneously speed the transition to clean energy, reduce greenhouse gas emissions, conserve vital wildlife habitat and generate new job opportunities.

#### To escalate our impact in all three areas, we will:

- ▶ Forge relationships based on mutual support and trust, knowing that enduring conservation success depends on the active involvement of people whose lives and livelihoods are linked to the natural world we seek to conserve
- ► Tap new sources of public funding and advance supportive policies and incentives, such as by forming an Appalachians Congressional Caucus
- ▶ Elevate the voices and decisions of historically disempowered communities, including those who were forcibly resettled or excluded
- ▶ **Build internal and external capacity** to care for Appalachian landscapes to safeguard plants and animals, address the changing climate, and provide economic and recreational benefits

► The Appalachians harbor a spectacular diversity of life, from moose, elk, bears and flying squirrels to golden-winged warblers, pileated woodpeckers, hundreds of fish species and 22 salamanders found nowhere else. © Scott Keyes





The Appalachians offer hope for wildlife, plants and people to adapt and thrive in a changing climate.
© Scott Suriano

## The Appalachians are a global treasure humanity cannot afford to lose.

We all benefit from the water and clean energy the Appalachians provide and the carbon the region stores. We must act now to protect and restore the region's irreplaceable wildlife habitat, diverse species and remarkable climate, recreation and economic opportunities.

The decisions we make over the next decade will forever alter the future of the Appalachians and the millions of people who depend on their natural bounty. TNC has the credibility, partnerships, science and innovative field experience to enable people and nature to thrive throughout the Appalachians for generations to come. Your support is what makes this work possible.

To learn more about how you can contribute to Appalachian solutions, please contact:

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