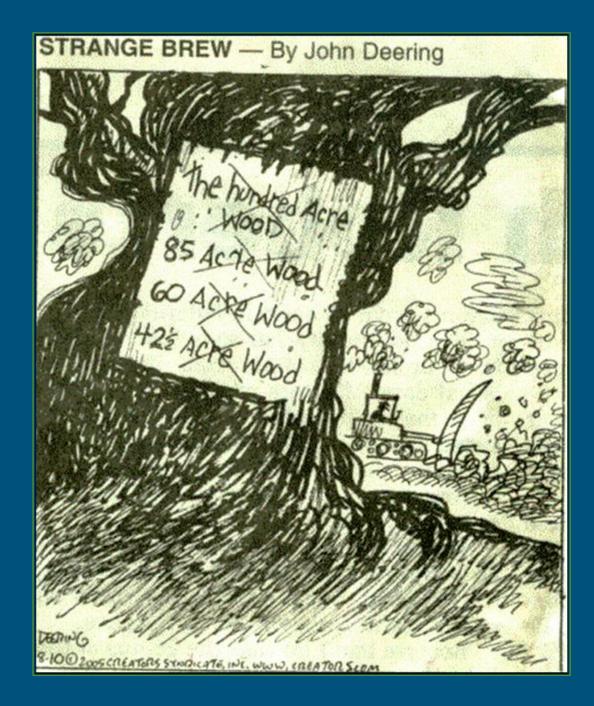


Conservation & Connectivity in the Piedmont

PEC Annual Meeting – June 1, 2024 Kim Biasiolli, Senior Conservation Field Representative, PEC







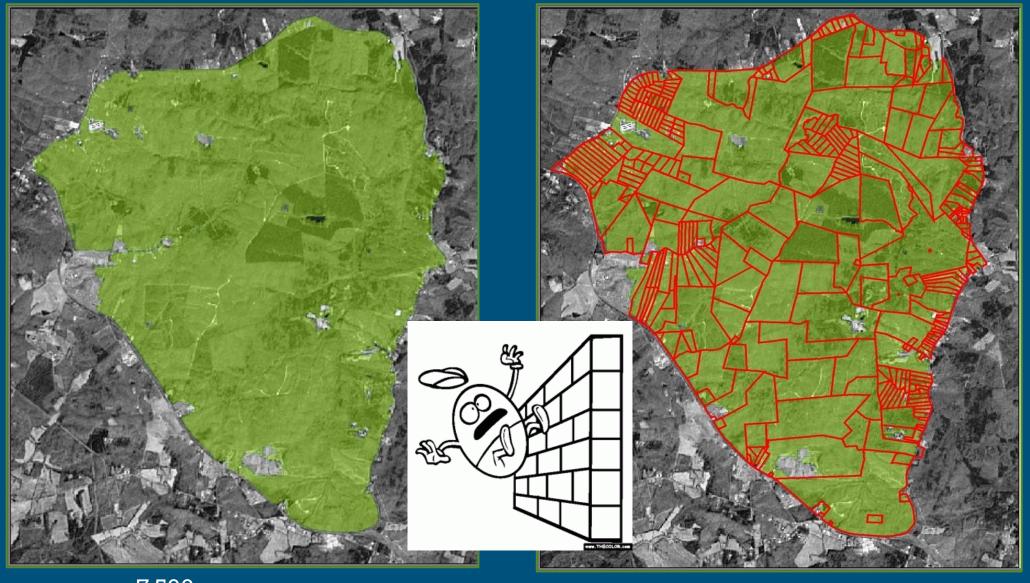


Parcelization



Fragmentation

The rural landscape is becoming more fragmented...



7,500 acres Single ownership High ecological integrity

7,500 acres 328 ownership parcels (avg. 22 ac.) Loss of ecological integrity



Keeping Rural Land Intact:

Rural Economies





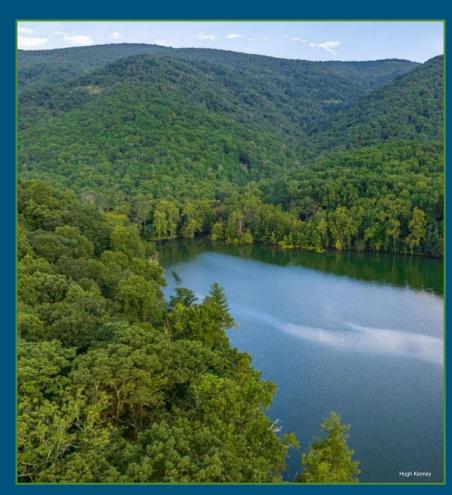
Smaller parcels are less economically viable as working lands.





Keeping Rural Land Intact: Watershed Protection & Climate Resiliency





Sugar Hollow Reservoir



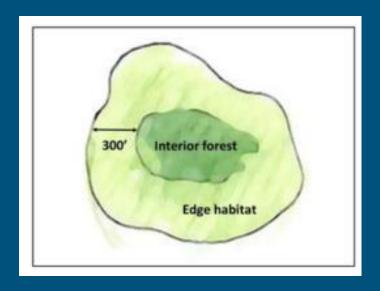
Holkham Road Albemarle Co. 2018

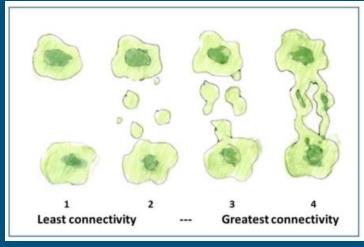




Spatial qualities affect habitat within a landscape:

- 1. SIZE
- 2. EDGE/INTERIOR
- 3. SHAPE
- 4. CONNECTIVITY





Keeping Rural Land Intact: Habitat









Many species in the Piedmont rely on interior forest and/or large patches of natural habitat to thrive.



Landscape-scale Conservation:



Private, working landscapes play a critical role



50 Current Biology

Black-throated green warbler

2/3 of stopover hotspots for migratory birds in the eastern US are on private land.

How can we address this challenge of keeping rural land intact?

Accelerate land conservation



PEC's goal is to protect +100,000 acres by 2030



Partnerships

Management Planning

Comprehensive Planning & Zoning

Recognition Programs

Ecosystem Services

Markets



The Conservation Toolbox

Legacy & Estate Planning

Overlay Districts

Purchase of Development Rights

Tax Incentives Grant Programs

Cost-Share Programs

Scenic & Historic Designations



What is a Conservation Easement?

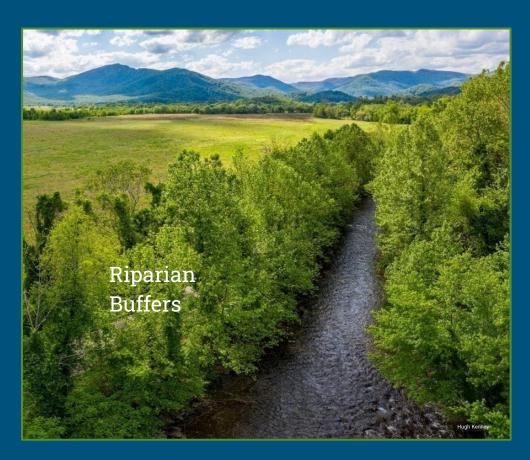


A voluntary legal agreement designed to protect natural and cultural resources in perpetuity.



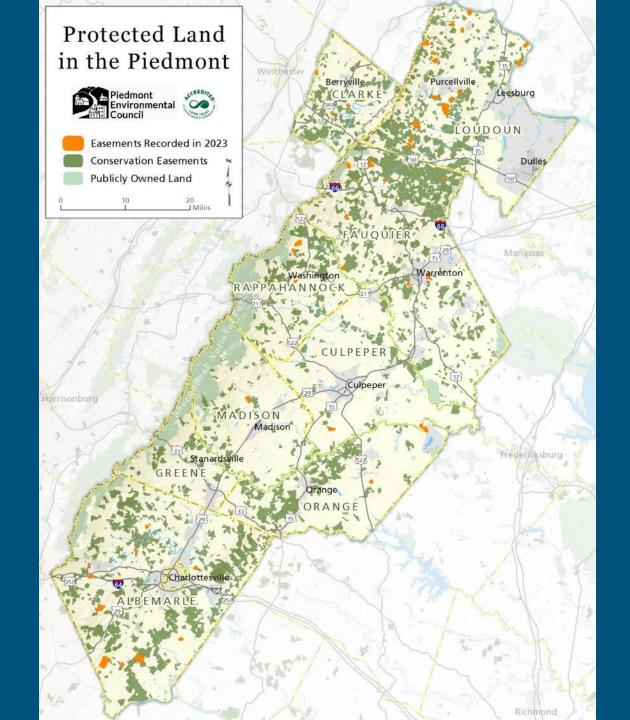
Conservation Easements: General Terms

- **❖** Limitations on:
 - Subdivision
 - Industrial & commercial uses
 - Buildings & structures
 - Impervious cover
- Requirements for:
 - Plans & BMPs for agriculture and forestry
 - Protection of priority resource areas



PEC Regional Conservation Status

How can we strategically prioritize conservation to maintain and enhance landscape connectivity?





Statewide Modelling for Strategic Prioritization

Ecological Cores

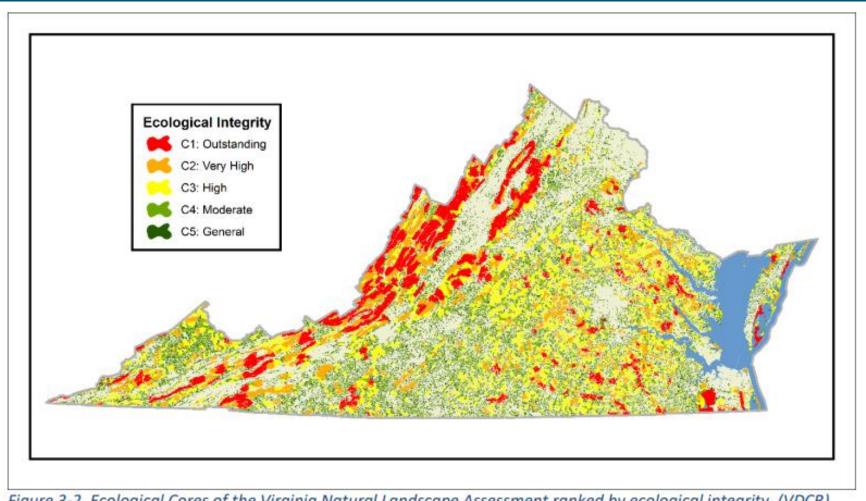


Figure 3-2. Ecological Cores of the Virginia Natural Landscape Assessment ranked by ecological integrity. (VDCR)



Statewide Modelling for Strategic Prioritization

Natural Lands Network

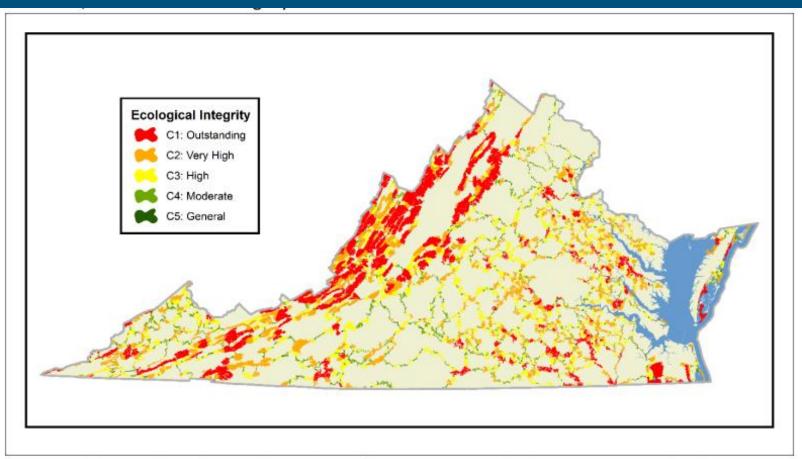


Figure 3-3. The Natural Lands Network is a subset of the Virginia Natural Landscape Assessment that shows connections between all the highest ranked Ecological Cores (C1 and C2). These corridors of natural land also include lower-ranked cores that intersect them. (VDCR)



Statewide Modelling for Strategic Prioritization

Biodiversity Resilience Corridors

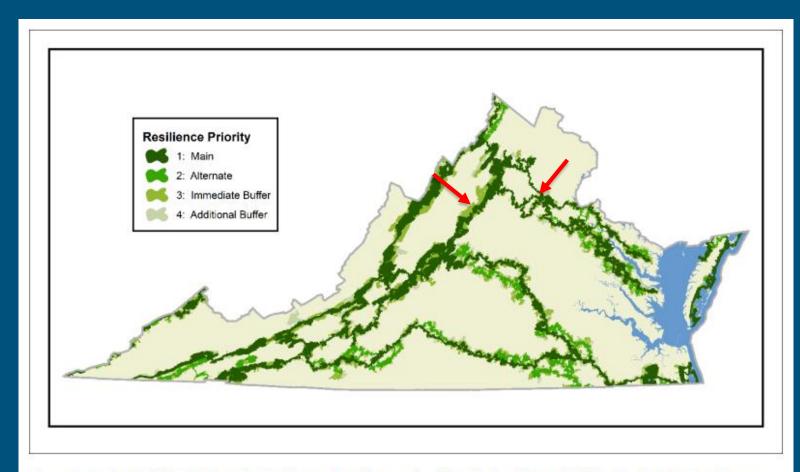
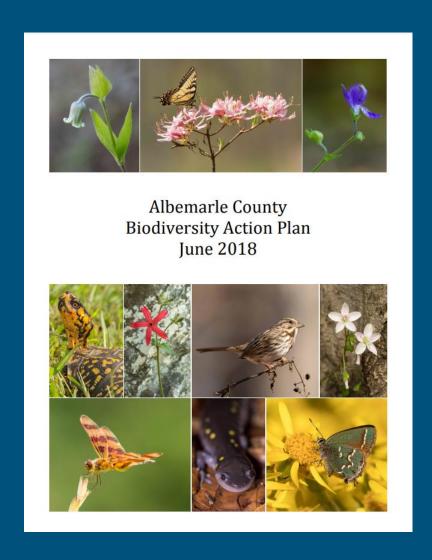
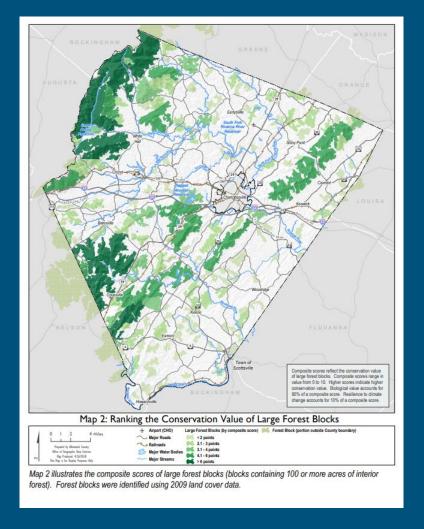


Figure 3-5. The Wildlife Biodiversity Resilience Corridors ranked by priority. These Wildlife Biodiversity Resilience Corridors include a new set of corridors for the upper peninsulas, on either side of the Rappahannock River, that were developed using the same methodology as for the ConserveVirginia Resilience Corridors.

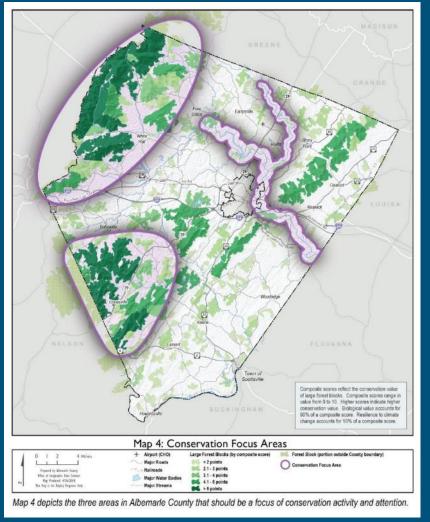
Local Planning & Modelling Albemarle County Biodiversity Action Plan



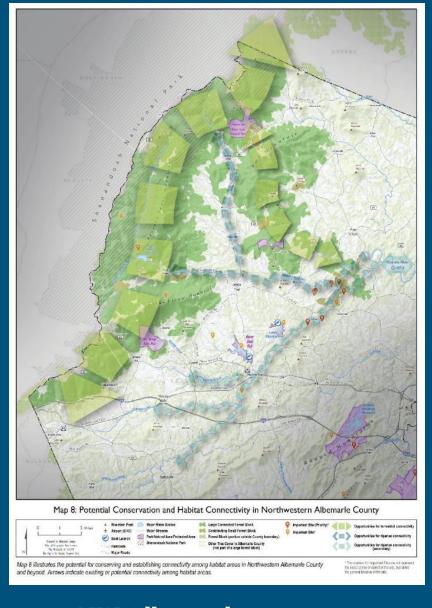




Local Planning & Modelling Albemarle County Biodiversity Action Plan



Conservation Focus Areas

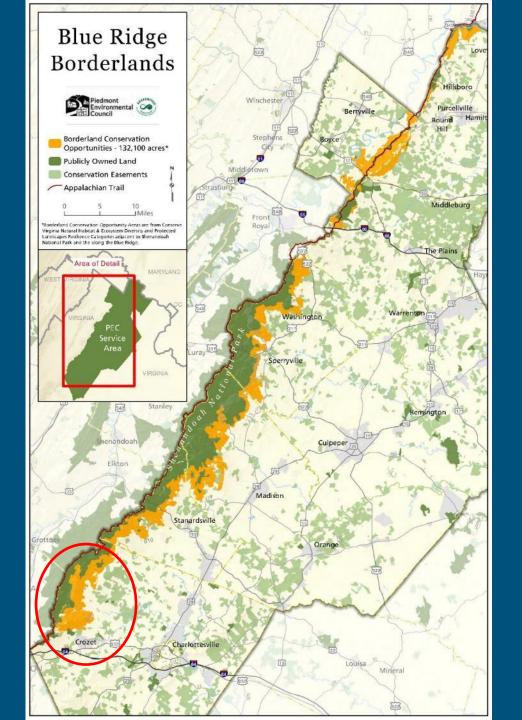


NW Albemarle Terrestrial & Riparian Connectivity Opportunities

Blue Ridge Borderlands

Identify & prioritize strategic conservation opportunities adjacent to public lands along the Blue Ridge.

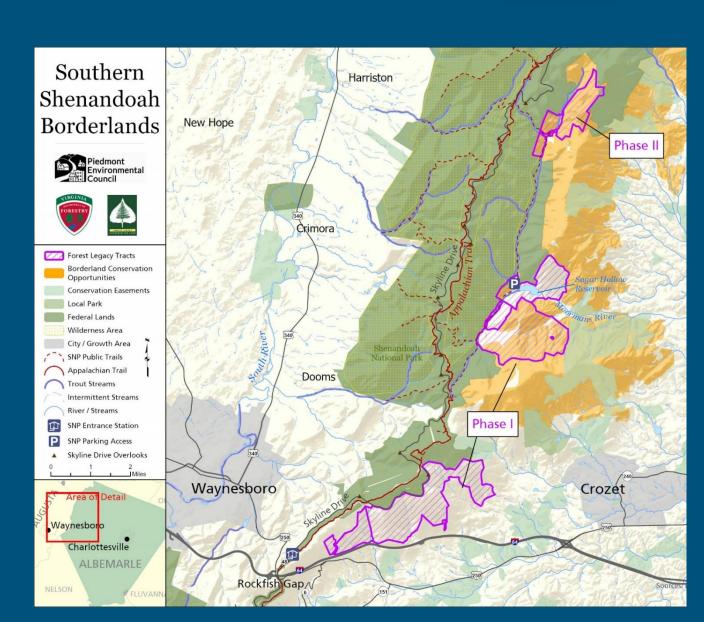
- Expand the corridor with forestland conservation
- Enhance public access
- Protect & restore aquatic habitat
- Capacity building
- Funding / policy innovation

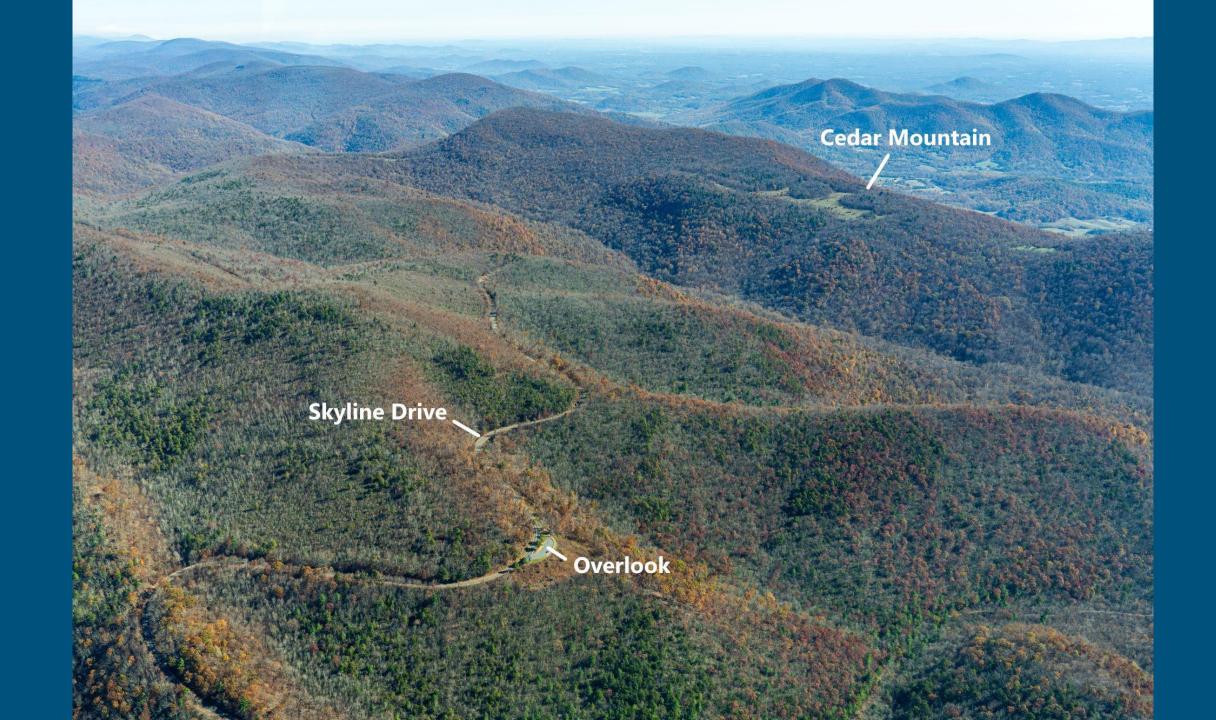




- Phase I (2023)
 - 4 landowners and >4,300 acres of forestland
- Phase II (2024)
 - 1 landowner and 767 acres of forestland

>5000 acres of privately owned forestland adjacent to Shenandoah will be permanently protected.





Conserving the Southern Shenandoah Borderlands

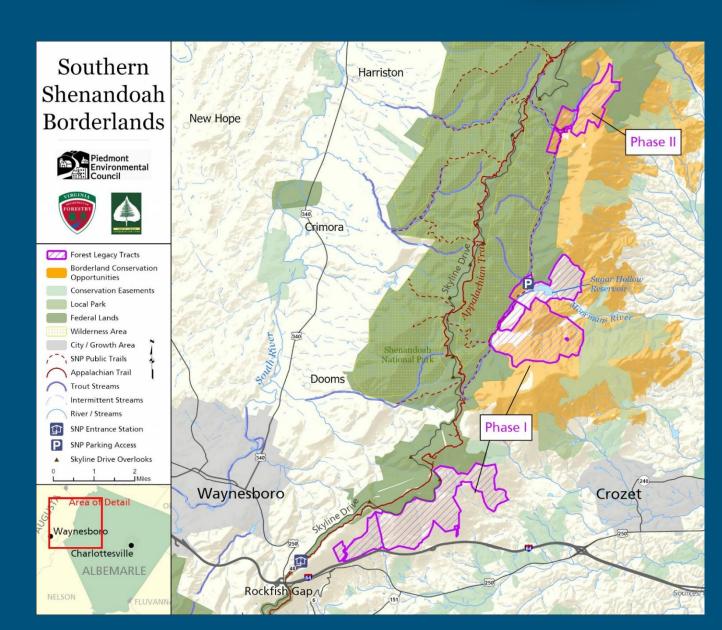


Forest Legacy Projects

Supporting conservation of the globally significant Appalachian Corridor

AND

Enhancing public access by formalizing trail ROWs

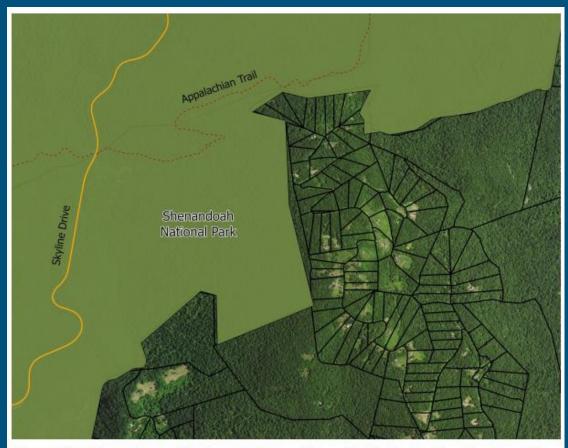




Minimizing parcelization and development potential

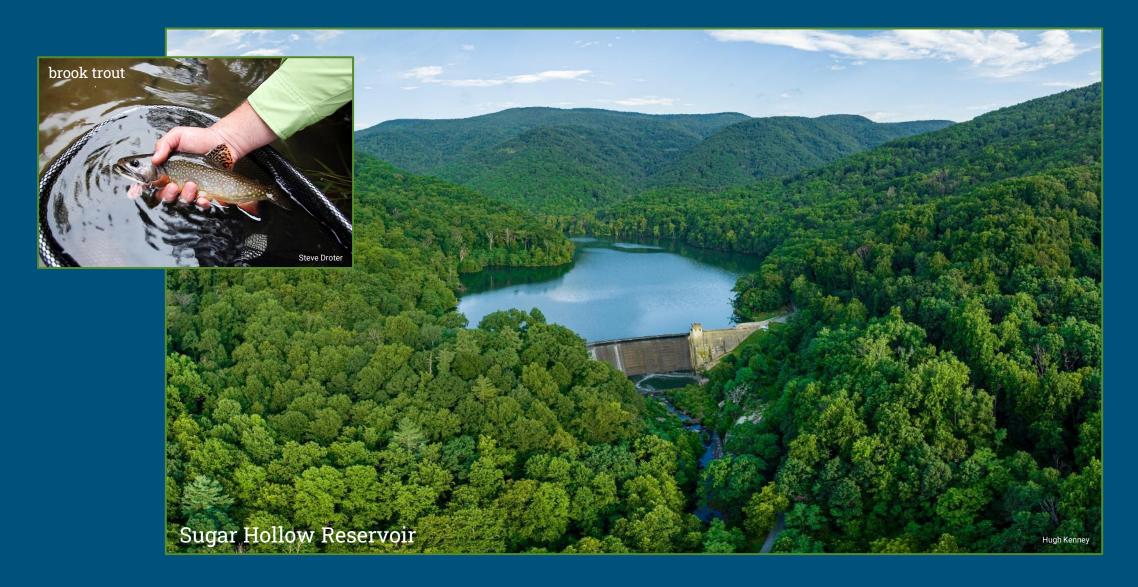


127 small residential lots adjacent Blue Ridge Pkwy, 2.5 miles south of project. (Photo by VDOF; realty site elkrockmeadow.com)



Parcelization along the boundary of the Nat'l Park, 8 miles north of Cedar Mtn. (Photo by Kim Biasiolli, PEC)



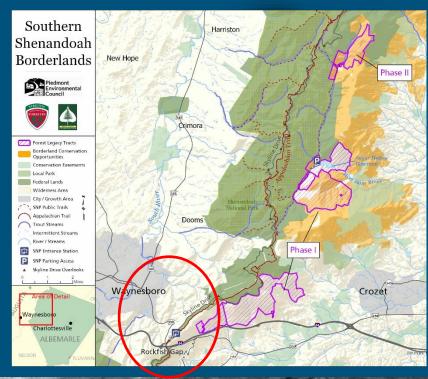






Afton Mountain/Rockfish Gap Conservation Collaboration

- Afton Mountain at Rockfish Gap is a chokepoint for terrestrial wildlife.
- Building a coalition of non-profit, state, & federal partners to develop solutions.
 - Broaden the corridor of protected land, AND
 - Identify potential infrastructure solutions to provide safe passage across I-64.





Enhancing Wildlife Crossings



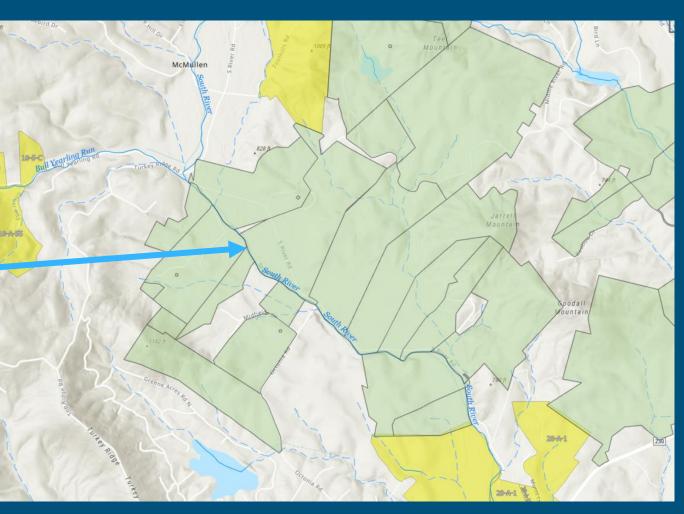
Roads are a barrier for wildlife movement.



Building a Riparian Corridor Collective Impact



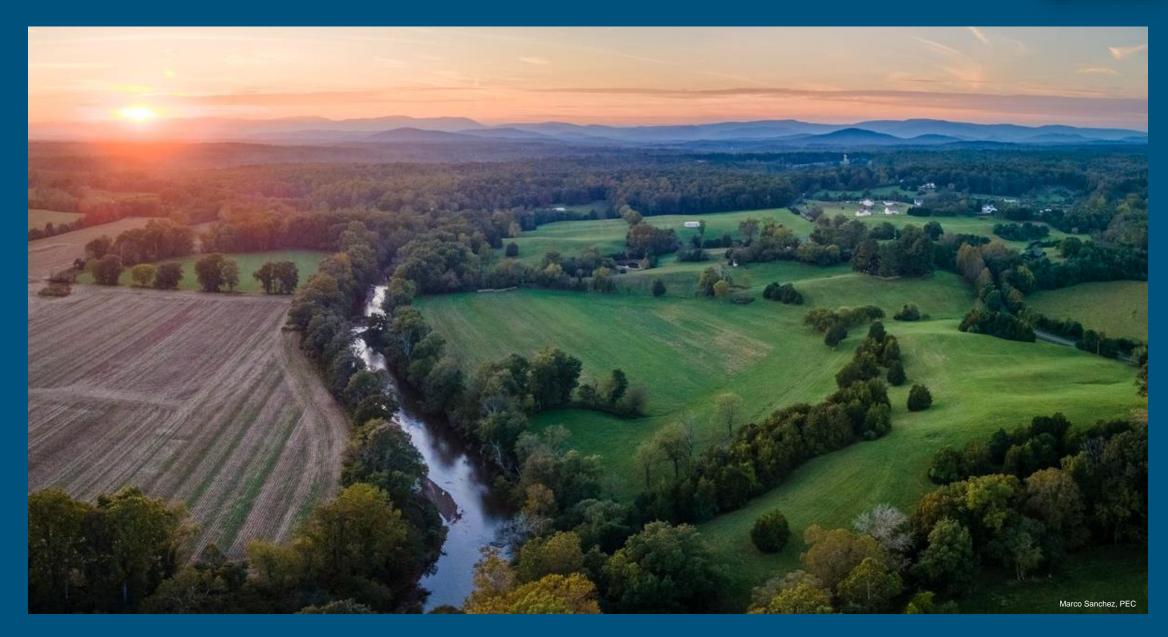




South River Area in Greene County >2000 acres conserved and counting...

A Mosaic of Forest & Farmland





Plantings for the Piedmont Watershed-based Restoration Initiatives & Partnerships



Volunteers plant a riparian buffer.



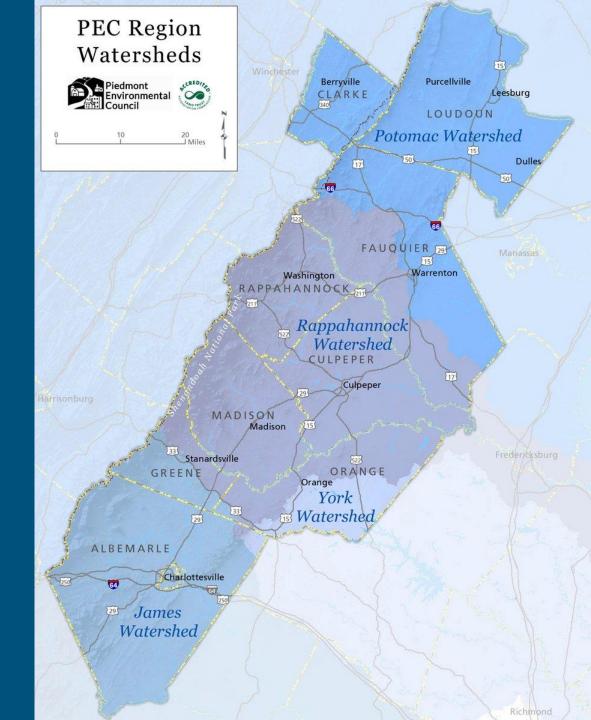














Rappahannock River Resilience Corridor

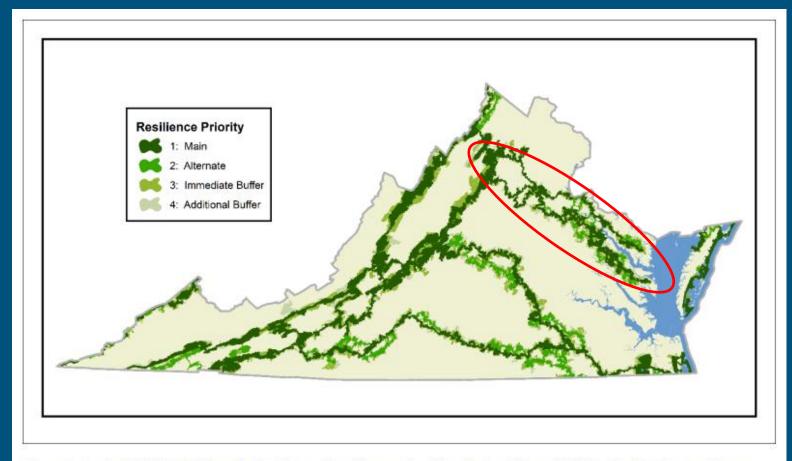


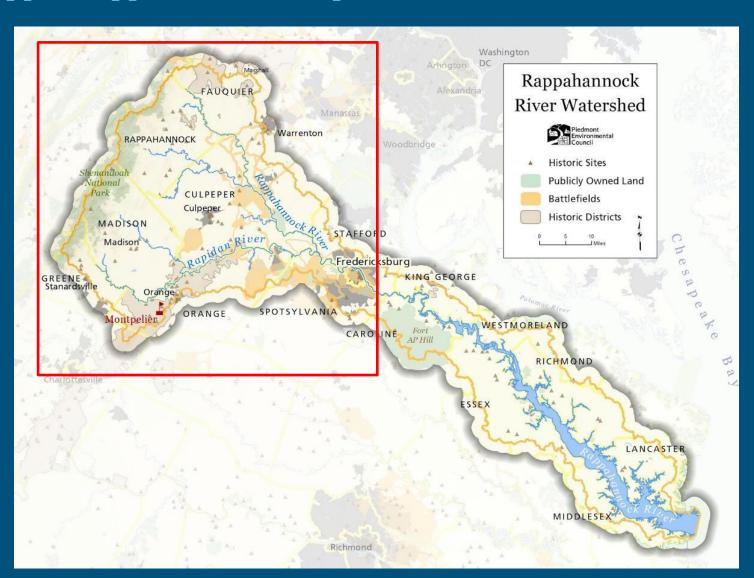
Figure 3-5. The Wildlife Biodiversity Resilience Corridors ranked by priority. These Wildlife Biodiversity Resilience Corridors include a new set of corridors for the upper peninsulas, on either side of the Rappahannock River, that were developed using the same methodology as for the ConserveVirginia Resilience Corridors.

Blue Ridge to the Bay



Accelerating conservation in the Upper Rappahannock-Rapidan watershed

- Conserving working farmland
- Improving water quality
- Restoring wildlife habitat
- Increasing public access
- Preserving historic & cultural resources



Rappahannock River Watershed Farmland Protection

- Agricultural Land Easement (ALE)Program
- Virginia Land Conservation Foundation (VLCF)

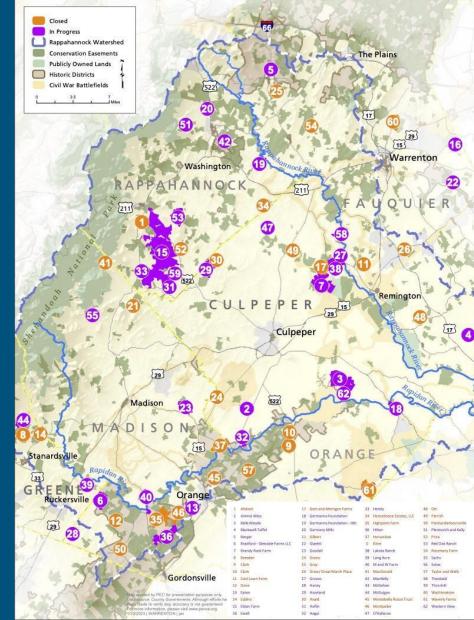
PEC has secured 7.4M through these programs to protect 3,700 acres of working farmland.

Volgenau Foundation Rappahannock Rapidan Conservation Initiative





Conserve and restore working farmland, historic battlefield lands, native habitat and water resources

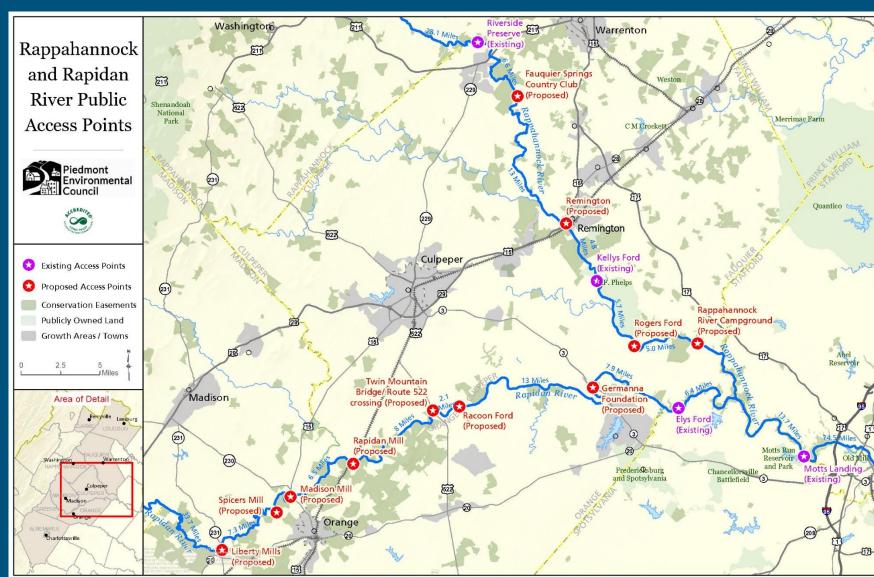


Rappahannock River Watershed Public Access









Protection + Stewardship Layering Conservation Tools





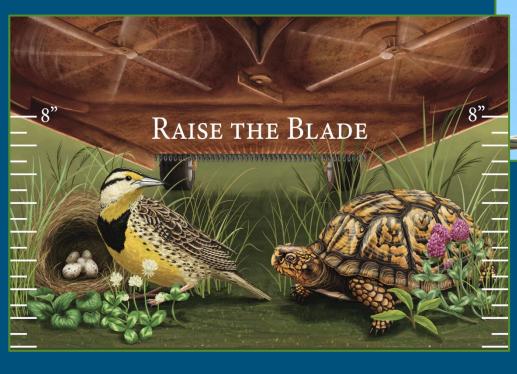




The Virginia Grassland Bird Initiative

Supporting bird-friendly practices on working lands













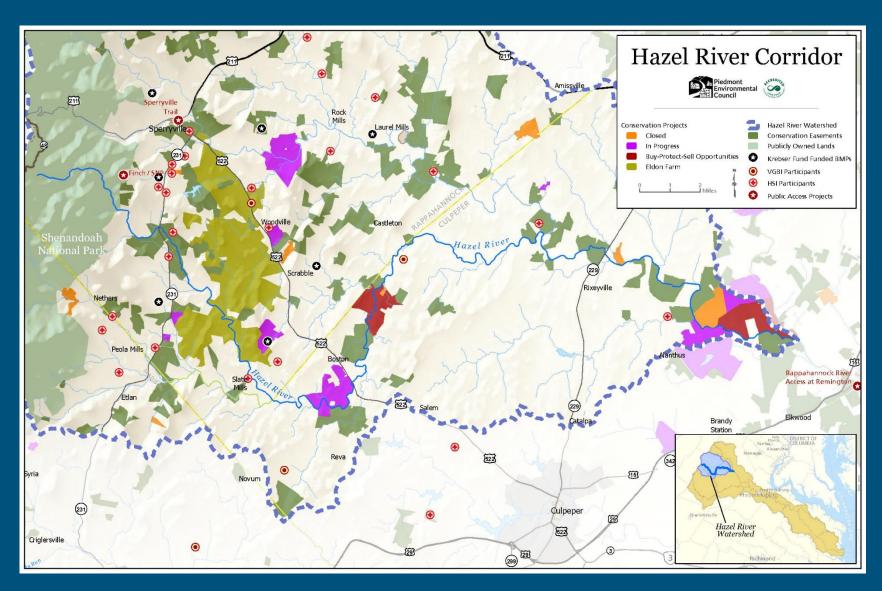




Protection + Stewardship Layering Conservation Tools



- Conservation easements
- Tree Planting
- Public Access
- Grassland BirdHabitat Restoration





Working collectively to protect our land & water





Questions?

Kim Biasiolli Kbiasiolli@pecva.org

