

THE RIVER RUNS

News from the Cowpasture River Preservation Association



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Photo of the Cowpasture River Farm bridge taken by Stewart Ford in January 2019.

Please send us your best photos of the Cowpasture River and the wildlife that accompanies it so that we might include them in our newsletter, as well as on our Facebook and Instagram pages.

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Editor: *Lynne Griffith*

From the President

The CRPA mission, in part, is to teach both public and private school students in three counties about the value of exceptional water quality. A potential result of this teaching is, hopefully, the “creation” of future Cowpasture River guardians.

For several years the online auction has raised money for the Bill Hardbarger Educational Scholarship Fund. The CRPA has also received, for two years, a generous donation from the Claude Moore Charitable Foundation to be used for the education of children. Consequently, our education coffers are quite healthy!

The board has been focused on how best to use these funds. We currently offer a “Kits for Kids” program to middle school students, which introduces children to river water monitoring, and we supported a “Pond Explorers” summer program offered by the Bath County Library. We have also conducted a River Ecology Lab at Mountain Gateway Community College.

The board recently approved funding scholarships for seniors at Alleghany, Bath, and Highland County high schools who plan to concentrate their studies in the Environmental Sciences. It also approved increasing the amount of the scholarship we offer at Mountain Gateway Community College. The increase was prompted by a letter received from Jacob Rak in which he thanks the CRPA for awarding him this year’s scholarship. Jacob’s truly heartwarming letter has been printed in this issue. I hope you all read it and enjoy your own “feel good” moment!

Many thanks for your continued support. Best wishes for a happy, healthy and prosperous New Year!

Yours truly,
Elizabeth



The Cowpasture River bluff on the river curve above Peters’ bridge. Photo taken by Dave Peters on 12-26-2022.



Executive Assistant's Corner

Thanks to your generosity, we have had another successful annual campaign. Our 2022-2023 campaign wrapped up on October 31, 2023. The final details of that campaign can be found on page 13 of this newsletter. We added 55 new members during this campaign, and 17 of those new members came to us from the artist retreat held at Fort Lewis Lodge back in May. Many of our past new members who have joined CRPA because of their attendance at the artist retreat have gone on to continue their memberships throughout the coming years. We are so grateful to have them with us, and we appreciate all of the talent and creativity that they bring with them.



Many of you have already donated during our new annual campaign cycle which kicked off on November 1st, and we thank you. We are so grateful for your ongoing support. Those donors are listed on page 14.

I also want to thank everyone who sent in their photos for the CRPA 2024 calendar. We received so many great choices, and unfortunately, we were unable to include all of them. I hope to use the extra photos in our newsletters and on our Facebook and Instagram pages. I ask that you continue to send them to me. When I'm searching for calendar photos, I need to have them in a horizontal format, but for any other purpose, we can use both vertical and horizontal shaped photos. Please keep them coming! We can't get too many beautiful photos of the Cowpasture River.

As we begin the new year, we have so many events to look forward to — the field trips, the annual meeting, the summer picnic, the online auction, the artist retreat, a river float, the educational events, etc. We hope you will consider coming out and joining us for these various events. Please keep your eye out for the emails and social media postings we will be sending out which will alert you to all that is going on. We hope to see more of you in the coming year.

Happy Holidays,
Lynne Griffith



CORRECTION TO THE FALL 2023 NEWSLETTER

Apologies for the mislabeling of this summer picnic photo in the Fall 2023 newsletter. The people in the photo are (from left to right) Chris Peters, Candice Dupoise, Rick Miller, Suzanne Miller, Terry King, Dave Peters and Katherine Dupoise.

Education Committee Update

One of the purposes for the funds raised through the online auction benefitting the Bill Hardbarger Educational Scholarship is to provide a yearly \$500 scholarship to a second-year forestry student at Mountain Gateway Community College. The recipient of this year's scholarship is a very worthy gentleman — Jakob Rak. Please take a minute to read his story below.

I am a second-year student in the Forest Management Technology program at Mountain Gateway Community College (MGCC). I was inspired to pursue a degree in forestry in large part by my family; my extended family owns and operates a forest land management business, sustainably managing over 7000+ acres of forest across the Virginia tidewater and the eastern shore of Maryland. While I have been attending school, I have occasionally helped both my grandfather, the president, and my father, the vice president, with "forest operations." This past summer, I also worked as an intern with the US Forest Service on the GW-Jefferson National Forests, and continue to work part-time with them, helping to support their silviculture program.



Water quality and Best Management Practices (BMPs) are extremely crucial to the work that both my family's business and the US Forest Service do. The Cowpasture River is a great example of utilizing BMPs to ensure water quality. I learned this firsthand last fall when in one of my classes at MGCC, we participated in water quality testing on the Cowpasture with local volunteers. The number and diversity of aquatic organisms (or "indicator species") really illustrated the great work that the CRPA and volunteers do to maintain the Cowpasture's high quality water.

This May, I will be graduating from MGCC with an associate's degree, and I am currently planning to transfer to West Virginia University next fall to pursue a bachelor's degree in forestry. Once I finish school, I hope to work for the US Forest Service on the GW-Jefferson National Forests as a Silviculture Forester and to help support my family's forestry business. I am extremely grateful for the financial support the CRPA has awarded me; with it and some additional financial aid from other sources, my tuition for this entire academic year has been covered. Thank you very much for your generous support! — Sincerely, Jacob Rak



WALTON TRACT CLEAN-UP

Many thanks to Elizabeth Van Lear, Joe Wood, Greg Vess, Dave Peters, Mike Van Yahres, Puggy Farmer, Dale Perry and Bill Adamson (not pictured) for coming out on Saturday, October 28th to pick up litter along the Cowpasture River in the Walton Tract. We picked up quite a lot of trash, so their efforts were very much appreciated. Our next clean-up will occur on April 27, 2024.

Monitoring Committee Update

THE AUTUMN BUG PICK



Photo by Puggy Farmer

Kit Burnett, Dick Brooks and Kim Manion collecting bugs from the Cowpasture River.

out that count of benthic invertebrates. The Cowpasture was healthy at both sites. Chilly, but happy, they said goodbye until the spring picks begin.

It was back in the water, the cold water, for a small group of CRPA river monitors on October 8, 2023. Kim Manion, Kit Burnet, Dick Brooks and Puggy Farmer waded into the Cowpasture at the Walton Tract in the early, breezy October 8th afternoon. The count was good, so after two sample nets, they were out of there headed for the Windy Cove Station. There, Somers Knight was waiting for them ready to help. So, together, five monitors knocked



Photo by Kit Burnett

Dick Brooks, Kim Manion, Somers Knight and Puggy Farmer

KITS FOR KIDS

Many thanks to Kit Burnett, Kim Manion, Somers Knight and Puggy Farmer who came together on September 17, 2023 to assemble the "Kits for Kids." These stream monitoring kits will go to the 6th grade students in Bath and Alleghany counties. The booklet included with the kit gives step-by-step instructions for investigating a stream of the student's choosing. Some of the activities require special supplies which are included in the kits. The students are required to receive permission from their parents or guardians and the owner of the stream (if it is on private property). They must bring along a responsible person to help, and they must pick a safe spot where the banks are not too steep and the water is calm and shallow. It's a great way for the students to get to know the streams in the Upper James River Watershed.



Photo by Kit Burnett

Kim Manion, Somers Knight and Puggy Farmer putting together the kits.

JOIN US FOR OUR UPCOMING FIELD TRIP



Arne Peterson with one of his duck boxes on the Cowpasture River at Lynchburg Camp with camp representative, Jeff Mayes. (Photo courtesy of J.F. Brown.)

EXPLORING WOOD DUCK BOXES

We're looking for six hardy souls to join Arne Peterson for an afternoon of wood duck nest box inspections. You will need warm clothes, waterproof boots and a tough outer jacket. Leather gloves are recommended for removing screech owls. You must be able to hike a half-mile round trip over rough terrain. Along the way, we'll discuss predators, competitors, box placement, box inspections and habitat needs. The cost is \$5. You can register at <https://cowpastureriver.org/shop/exploring-wood-duck-boxes/>

Arne Peterson Bio: *Arne is a long-time CRPA member. He has organized and coordinated the Virginia Highlands Wood Duck Club for 30 years. In addition, he ran the Rockbridge Ducks Unlimited Club for five years. He is also the head of the Environment Committee at his local Ruritan Club where he coordinated the development and building of the nature trail by Millboro Elementary School.*

Highlights from the Nature Trail Hike



Photo by Traci Miller

We received wonderful feedback from Traci and Mett Miller, as well as Staples and Tim Kute, regarding their participation in the September 16th nature trail hike led by Arne Peterson. The trail was completed by the Millboro Ruritan Club and winds through the wooded property of the Millboro Elementary School. After the hike, they all gathered in the picnic shelter and discussed how to attract large cavity nesters, such as owls, kestrels and wood ducks.



Photo by Staples Kute

Give the Gift of a CRPA Membership



It is the holiday season. Think about a gift membership for someone you love who has experienced the Cowpasture during his/her lifetime. It can be a young person who may have been a camper or someone you'd like to introduce to the watershed, or even someone you'd like to be envious of such a treasure.

All are welcome and what a great gift! See the last page of this newsletter for details on how to give. Or go online to <https://cowpastureriver.org/shop/donate/>

Staff at DWR's Aquatic Wildlife Conservation Center are Working to Preserve a Species on the Brink of Extinction

*Preface and Article by Ron Messina
Virginia Department of Wildlife Resources*

(Article Reprinted with permission from Virginia Wildlife Magazine)

Preface

The Bullpasture River will always occupy a special place in my heart. It's the place my wife and I, along with our two boys, spent many brilliant summer days together swimming, fishing and generally soaking in the sun while vacationing at a cabin set along the Bullpasture Gorge. My little boys are grown men now, but our times splashing and playing in the cold, clear spring-fed waters shadowed by our black lab, Jet, remain some of the most precious memories of my entire life.

Back then, I didn't really grasp the importance of the underwater architecture, of the amazing work freshwater mussels do to clean rivers, and preserve life in the ecosystem; I was just enjoying the river with my family. But it turns out a whole host of unseen creatures were living there--many different species of mussels--doing their job, filtering the water, holding the substrate together, and making all that enjoyment possible. Some of these animals, like the Appalachian Monkeyface in the Clinch River, and the James River Spineymussel in the Cowpasture, are endangered or even on the brink of extinction. And they need help.

It's an honor to have my story, 'Saving the Appalachian Monkeyface' featured in this issue of "The River Runs." I hope you will enjoy reading about the good work the Virginia DWR and its many partners have done to bolster mussel populations in the Clinch, and know that similar efforts are ongoing in the Cowpasture River, as well. In 2018, biologists stocked hundreds of juvenile James Spinemussels into the Walton Tract of the Cowpasture, beginning a restoration of a species that has lost 95% of its historic range. I applaud the important work the CRPA is doing to protect and preserve the beautiful Cowpasture watershed, and look forward to continuing efforts in the future!

A hand plunges into the cool waters to place a marble-sized freshwater mussel firmly into the sandy, rocky, river cobble. Virginia's Clinch River in Russell County is the site of the first stocking of the Appalachian monkeyface, *Theliderma sparsa*, one of the rarest creatures in the world. It's a species that could wink into extinction if not for the efforts of the team assembled here on the water. The man who placed the mussel stands, dripping with water, as sunlight shines down on the remote valley, the winding river, and the life within.

"It's a good day," says Tim Lane, Southwest Virginia mussel recovery coordinator for the Virginia Department of Wildlife Resources (DWR). There was a lot packed into that simple statement—years of innovative research and painstaking work had gone into this historic mussel release. Specialists from various conservation groups working with him would agree, as each played a crucial role in this recovery effort.



An adult Appalachian monkeyface mussel.
Photo by Meghan Marchetti/DWR

Representatives from the U.S. Fish and Wildlife Service (USFWS) and The Nature Conservancy (TNC) are here, shoulder to shoulder with DWR staff. Partners at the Department of Conservation and Recreation (DCR), Virginia Tech, and nearby landowners have also provided support for the project. This mussel may be scarce, but it's got a whole community of conservationists in its corner.



This aerial photo shows the reach of the Clinch River in Russell County, Virginia, where the Appalachian monkeyface has been returned to the water. Photo by Ron Messina/DWR

DWR's media crew is here too, tripod set up in the river, capturing the historic moment with their cameras. "How rare is this mussel?" asks the cameraman. "It's like a northern white rhino," Lane replied.

A Last Chance

The Appalachian monkeyface mussel has been on the federal Endangered Species list since 1976. The earth's last remaining population of the species exists only in one place—a 10- to 20-mile stretch of the nearby Powell River in Southwest Virginia and Northeast Tennessee. It's disappeared from other streams due to poor water quality and habitat destruction throughout the upper Tennessee River Basin. DWR's mussel recovery team scoured the river bottom looking for them each spring for three years. After hundreds of hours searching, they could only locate eight, each one like finding the proverbial needle in a haystack.



WR Mussel Recovery Coordinator Tim Lane inspects mussels being cultured in the floating upweller system (FLUPSY) located at the AWCC. Photo by Ryan Hagerty/USFWS

They hoped they could take those eight mussels, only three of which were female, back to the lab at DWR's Aquatic Wildlife Conservation Center (AWCC) to propagate them in a controlled setting as they have done successfully with other dwindling mussel species. The mussels could be then placed back into the wild, to give the species a much needed helping hand. Special permitting from USFWS to hold and study individuals of the species long-term was required, since the Endangered Species Act actually prohibits the capture and possession of endangered species, including the Appalachian monkeyface.

The AWCC, located at DWR's Buller Fish Hatchery in Marion, is a compact but cutting-edge aquatic laboratory, bristling with tubes, rows of tanks, and jammed with specialized equipment to grow and monitor mussels. The modest facility has an amazing record of success in that endeavor.

But there was a problem—the Appalachian monkeyface had never been cultivated in a lab, so there were unknowns around every corner. Scientists didn't even know the mussel's host fish. Some

species of mussel use common gamefish like walleye or largemouth bass as hosts, others use catfish or tiny darters—but no one knew the host fish the Appalachian monkeyface needed for this early life stage. Without it, there could be no restoration effort. It fell upon DWR’s Mussel Recovery Biologist at the AWCC, Tiffany Leach, to figure it out.

“We tried over 40 fish species,” Leach said, but none were right. AWCC staff wondered if possibly monkeyface’s host fish no longer existed in these waters—in which case, the Appalachian monkeyface species was likely doomed.

Finally, the team tried a rare, four-inch minnow that’s seldom found in the Powell River. Leach soon noticed juvenile mussels, called “drop-offs,” on the tank’s bottom. The blotched chub turned out to be the host fish, and the key to the Appalachian monkeyface’s survival. The team focused on finding more blotched chubs to use as hosts, surveying local waters with electroshock gear, so they could pair them in tanks with the mussels. It was one big mystery solved, and one step forward in saving a mussel that had seldom ever been seen, and never yet cultured.

“Every week they lived, it was new. No one had ever seen a [monkeyface mussel] at a month old, two months old, or a year old,” Leach recalled of watching the resulting juvenile mussels grow. “Every time I sampled them, it was something no one else had ever seen.”



The blotched chub, host fish for the Appalachian monkeyface mussel. Photo by Hunter Greenway/DWR

Each day culturing them brought new discoveries, but even more questions. It took long hours at the office working weekends and holidays just to keep them alive—hacking nature, it turns out, is hard work.

“The main reason it took so long to get to this point is that the Appalachian monkeyface doesn’t have a straightforward propagation process,” said Lane. “Some mussel species, it’s like baking a cake for us—we know what to use and how to do it. This species, it felt like astrophysics. It was close to impossible to figure out how to produce them.”



Mussel Recovery Biologists Sarah Colletti and Tiffany Leach prepare fish hosts for glochidial inoculation. This process allows the glochidia to latch onto the gills of the fish, where after a short period they will drop off and be collected for culture by the AWCC staff. Photo by Tim Lane/DWR

While most mussels use a lure to entice a host fish, the Appalachian monkeyface didn’t. Biologists had problems figuring out what triggered its glochidia release until they just happened to observe a larval release in the captive mussels that was triggered by the vibrations of staff walking near their pan. “We just learned this recently, and biologists in the past wouldn’t have realized what was happening, but for sure they were disturbing them and triggering them to release the larvae in the process of collecting them,” Lane said.

Good News

From the eight they started with, the AWCC staff produced 165 Appalachian monkeyface mussels—enough to begin putting some back into Clinch River where they once lived. Of those, 125 were released and 40 were kept in captivity to support similar efforts in the future. Now, should some disaster strike the monkeyface population in the Powell, there will hopefully be a second brood stock surviving in the Clinch. A lot of thought and planning went into the selection of the site, beginning with confirmation that the host fish was present.



Tim Lane (left) and Tiffany Leach (right) sort Appalachian monkeyface mussels selected for release into the Clinch River. Photo by Meghan Marchetti/DWR

“We put them at what we feel is the safest place to put them in the state of Virginia,” Lane said of the Russell County location. “If they have a chance to thrive, this is the best chance humans can give them.”

The Clinch River holds an amazing 133 species of fish and 46 species of freshwater mussels, with more imperiled species—22—than any other river in the country. Its watershed sits in the middle of the Great Appalachian Valley, a vast, 1,200-mile trough running from Canada to Alabama. Its upper reaches are so pristine, and hold such abundant biodiversity, it’s been called “the temperate Amazon.”

“This river has the single highest density of imperiled aquatic species of any temperate river in the world,” said Braven Beaty, an ecologist with The Nature Conservancy. “It’s a special, special place. And it warrants our attention and our work to make sure that extends for the next generation and generations to come.”



Braven Beaty of The Nature Conservancy waves a detector wand along the river bottom to find the approximate location of mussels that have passive integrated transponder (PIT) tags attached to their shells. Photo by Meghan Marchetti/DWR

On the occasion of the Appalachian monkeyface release, Lane took advantage of having an elite team on the water to do a river-bottom survey of previously stocked mussels. Surveys let researchers monitor the health of a population or even to track an individual mussel over time as it grows. This is Lane’s favorite part of his job, because it’s a glimpse into the mussel’s underwater world, allowing a real-time view of the overall vigor of mussels in the stream.

To conduct the survey, a biologist waves a detector wand along the river bottom to find the approximate location of mussels that have tiny passive integrated transponder (PIT) tags attached to their shells. Assistants called “searchers” float alongside in snorkel gear to pick out the tagged mussels so they can be examined, aged, measured, and safely returned to the river bottom.

On this day, they found 15 different species of healthy mussels that staff from the AWCC had previously stocked, along with one big surprise—an untagged juvenile oyster mussel.

Just like the monkeyface, the oyster mussel is critically endangered. Finding a young oyster mussel here confirms that the thousands of previously stocked oyster mussels have now begun naturally reproducing successfully in this section of the river. That’s the long-term goal for the oyster mussel as well as the eventual hope for the Appalachian monkeyface—to begin new self-sustaining populations here in the Clinch.

They Need Our Help

Mussels can live for up to 100 years, scuttling along the river bottom for short distances with a muscular “foot” they extend from their shell. They are filter feeders, consuming detritus and pollution from the river, with each capable of filtering about 10 gallons of water each day. Lane compares their importance and their function in the water to that of trees on land.

“Mussels are the forests of our fresh waters—just like you have a diverse, deciduous forest with oak trees and maple trees, the diversity of these mussels is important for the stream, because they all like different little niches out there in the river bottom,” Lane said. “They all have different fish hosts that come and go, so sometimes one species of mussel is doing well and having high recruitment and others aren’t; over time others will be doing well. Having all that diversity increases the community’s chance for persisting in the future.

“Mussels are important just like trees are to cleaning our air,” Lane continued. “They clean the water for all the fish, the salamanders, crayfish, and bugs. They’re starting at the base of the ecosystem, taking all the algae, bacteria, and detritus out of the water, fixing that to the bottom of the substrate, and making that energy available to the food web. Ultimately, humans are at the top of that food web and rely on them just as much as everything else.”

Lane says we all have a role in protecting these important creatures. Mussels are adept at filtering natural pollutants, but are extremely sensitive to man-made chemical pollution, like fertilizers and pesticides, and have experienced mass die-offs from contaminants humans have dumped into rivers over the years. Fortunately, the Clean Water Act of 1972 has made a big impact in preventing toxic discharge into our rivers. Property owners can do their part to help our rivers too, by keeping riparian buffers—stream banks—undeveloped and their livestock out of the river. When trees and

plants near the water’s edge are removed, it causes erosion that chokes mussels in silt, creating a dead zone.



The team of (from left) Tiffany Leach/DWR, Tim Lane/DWR, Braven Beaty/TNC, Sarah Colletti/DWR, Maddie Cogar/DWR, and Rose Agbalog/USFWS celebrated a “monumental” day for the AWCC after releasing Appalachian monkeyface mussels into the Clinch River. Photo by Meghan Marchetti/DWR

“They need our help. When we want to go fishing, swimming, or canoeing in a clean stream, we take for granted all that freshwater mussels are doing for us,” Lane said.

The team at AWCC has successfully cultured and stocked 35 different species of mussels to date, many with names as colorful as their distinctively patterned shells—rough rabbit’s foot, snuffbox, Cumberlandian combshell, birdwing pearlymussel, pink heelsplitter—and now, the Appalachian monkeyface. Lane says the imaginative names likely came from malacologists (mussel researchers) hundreds of years ago, working by candlelight, perhaps seeing a monkey’s profile or a bird’s wing in a shell.

Rose Agbalog, biologist with the UFWS, said that returning the Appalachian monkeyface mussel to the Clinch is “monumental. It’s a great step towards recovery of the species. Even though we have a long way to go, this is the first step in that direction.”

Lane said the day of the monkeyface release was the biggest day for the AWCC since it was founded in 1998. “I’m just very proud of the work my team has done, as well as the people who came before us, whose shoulders we’re standing on, who spent their whole careers trying to figure out how to recover species like the Appalachian monkeyface. They left behind all these little scraps of knowledge on how to produce them that we were able to piece together.”

The Appalachian monkeyface stocking on the Clinch has kick-started long-term goals for eventually producing tens of thousands more Appalachian monkeyface, as well as other endangered mussels and fish, and widening their range to nearby streams and tributaries.

“Hopefully one day, we’ll reach a point where this stream is functioning the way it should again, and we can focus on some of the nearby streams that aren’t as well off,” Lane said. “All these mussel species should be there as well, but they’re not. So we’d like to continue spreading this work we’re doing all over the Southwestern Virginia region.”

As the sun lowered on the horizon, the stocking team placed the last of the PIT-tagged mussels into the Clinch River’s stable bed of gravel and sand, where they can thrive and grow. The hard work is over for the day—the coolers are empty and the cameras packed away—but Lane and his team at the AWCC, and all their conservation partners, will return to their work of recovering species at the edge of extinction all over again in the morning.

Ron Messina is a passionate outdoorsman and the Video Production Manager at the Virginia Department of Wildlife Resources.



The rivers of Southwest Virginia are home to an incredible diversity of mussel species, including some of the most imperiled on Earth, and all need our protection. Photo by Meghan Marchetti/DWR

Thank You To Our Loyal Watershed Members

We are grateful for the additional donations we have received for the 2022-2023 Annual Campaign season that have come in since our Fall 2023 newsletter was published. Those donors are listed below, along with any members who were accidentally left off of the Fall 2023 donor list. **New members are highlighted in bold.** *(Some donors have asked that their names not be published).*

Total donations for the 2022-2023 Annual Campaign ending on October 31, 2023 came to \$66,382.20.

Our new 2023—2024 annual campaign kicked off on November 1, 2023 and will run through October 31, 2024. The people who have donated to this new annual campaign before this newsletter was published are listed on the next page. We will now list our donors on an ongoing basis in every issue of “The River Runs,” not just in the fall issue.

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50th ANNIVERSARY

Virginia's only Year-round Chamber Music Experience

Join us for performances by the Garth Newel Piano Quartet and special guest artists, followed by shared gourmet meals prepared by our resident chef.

Spring Music Weekends | May
 Summer Chamber Music Festival | Late-June thru Labor Day Weekends
 Fall Foliage Music Festival | October Weekends
 Thanksgiving & New Year's Celebrations
 Winter Concerts & Pub Series



Garth Newel Piano Quartet

Thanks to our Sponsors:



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Hot Springs, VA | 540.839.5018 | www.GarthNewel.org

Photo by Tracy Fisher



"AND THE AWARD GOES TO. . ."

Congratulations to Greg Barnes who won this year's "CRPA Best Cowpasture in Any Medium" award at the Bath County Plein Air Festival held this past September. As you can see, Greg painted a beautiful depiction of the Cowpasture River.

Many thanks to the Warm Springs Gallery and Barbara Buhr for another fabulous Plein Air event! Greg's pastel and other works can be found at www.warmspringsgallery.com.

Morning on the Cowpasture, Pastel, 18" x 14"
by Greg Barnes.



Post Office Box 215
Millboro, VA 24460
director@cowpastureriver.org

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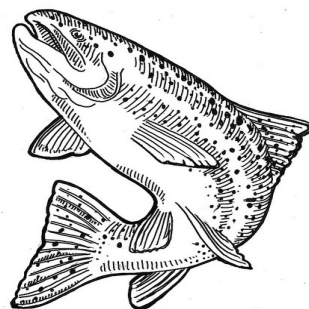
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(Note: A financial statement is available upon written request from the Virginia Department of Agriculture and Consumer Services — Office of Charitable and Regulatory Programs.)