

RIVER CURRENTS

River Centered: The Evolution of A Watershed Organization

By Rick Lofaro, Executive Director and Heather Lewin, Watershed Action Director

"Any river is really the summation of the whole valley. To think of it as nothing but water is to ignore the greater part."

- HAL BORLAND

Do you remember where you were in 1996? Some might say that, for better or worse, Colorado and the Roaring Fork Valley was a different place back then. In case you hadn't found your way here yet, let me set the stage. The Av's had just won the Stanley Cup during their first season in Denver. Men were still racing World Cup on Aspen Mountain, and the X Games were still 5 years away. Aspen Highlands had just banned the historic ski patrol deck jump, Aspen Skiing Company's lift ticket prices "boldly passed the \$50 mark" and City Market in El Jebel was relatively new. Meanwhile, the Roaring Fork Club was taking shape, and consequently, so was Roaring Fork Conservancy (RFC). In the beginning, RFC's mission was to protect and enhance riparian areas located throughout the Club's property and develop a plan for the 3 miles of river that flow through Basalt. Soon after the creation of the organization, however, founding board members acknowledged that truly protecting the Roaring Fork River also meant protecting all the water that flows into it. RFC's mission was subsequently expanded to include the entire Roaring Fork Watershed. And so, a watershed organization was born.

Education and Action: Finding Our Purpose

After RFC established itself as the first group focused solely on river and water issues in the Roaring Fork Watershed, we were ready to spread our wings. Realizing that a critical component of water protection and conservation is fostering the connection between the people of the valley and the rivers, we implemented an education program. By teaching water specific lessons in local schools and taking on 24 local water quality monitoring sites through Colorado River Watch, we found effective ways to begin to reach the community and share the river's story. When we could not take students to the river, we brought the river to the classroom with aquatic macroinvertebrates, water quality samples, and hands-on water-focused lessons. Within a few years, we developed a reputation as a highly effective watershed education organization. As the curriculum expanded to cover a broad range of water related and watershed issues, we realized that education, while essential, was only part of the puzzle.

"If you have a river, then you should share it with everyone."

- CHEN GUANGBIAO

Sometimes amazing things happen when teaching. Often, the teacher learns as much as or more than the students. While teaching about the watershed, we learned that we needed to

(Continued on page 2)

Tim O'Keefe, RFC's first education director, provides an introduction and overview before a float through North Star Nature Preserve in 2006. RFC educators still provide this program and it continues to be one of the most popular spring program offerings.



not only share a message of conservation and protection, but we also needed a more in-depth understanding of the unique challenges that the Roaring Fork River and its tributaries face. Sharon Clarke, the first Watershed Action Director, often reminded us that "the breathtaking beauty of the Roaring Fork Watershed may deflect our attention from critical ecological challenges." Images of clear running mountain streams with anglers and rafters suggest a healthy and vibrant resource but its sustainability is not guaranteed. We realized that our job was to protect and enhance the invaluable resources here in the Roaring Fork Watershed.

Sharon's vision and persistence deserve much of the credit as RFC's focus expanded from education and water quality to include both watershed science and water policy development on a local, regional, and statewide level. We have carried and built upon her legacy in the years since she left. So, what does that mean? It means that RFC leads, participates, and partners in watershed and stream management planning to strategically improve watershed heath. We participate in the Colorado Basin Roundtable, and write letters to local, state, and federal entities using science-based facts to support healthy waterways. It means we embarked on studies like the Roaring Fork Watershed and Crystal River Management Plans to engage stakeholders and accomplish on the ground work built on scientific

research. It means we try to take the lead on water issues and bring diverse stakeholders together on projects that benefit the community and the river.

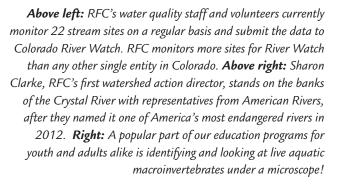
"Boundaries don't protect rivers, people do."

- BRAD ARROWSMITH

Collaboration and Community: Finding our Home

Growing from a small organization with one employee narrowly focused on a 3 mile stretch of river, RFC's current full-time staff of seven now engage in all aspects of watershed protection: education, science, policy, and community. In the summer of 2018, RFC will take its organizational foundation, created through two decades of progress, into a new location, The River Center. There, we will continue to realize new opportunities to enhance and elevate our work on the watershed and our community's ties to it. With an update to the RFWP and implementation of the CRMP in progress, and more inschool and community programs rolling out every day, we couldn't be more excited to continue to grow, learn and engage in our new home.













2018 RIVER CONSERVATORS:

WOODY CREEK DISTILLERS Mary & Pat Scanlan and Mark Kleckner & Tracey Snow

By Sarah Woods

Roaring Fork Conservancy will honor Mary and Pat Scanlan and Mark Kleckner, founders of Woody Creek Distillers, and Tracey Snow, as our 2018 Robert Billingsley River Conservators at the 19th Annual River Rendezvous on July 11, 2018.

After years of pursuing their own careers, these three longtime friends came together to follow their dream - create a line of spirits whose quality is a lasting legacy for the community, their families and friends. Woody Creek Distillers is proud to use produce grown on their family farm in Woody Creek and neighboring farms.

From seed to bottle, it's all done in the Roaring Fork Watershed.

Pat and Mark feel where they make the spirits is as important as how they make their spirits. They know that growing and sourcing their produce locally not only makes for the best ingredients, it's also good for the environment. The team is dedicated to protecting and enhancing the natural resources of Woody Creek. Their distillery is a low-emissions facility using the most efficient distillation technology available. The waste from their raw products goes back to the Scanlan family farm in Woody Creek as compost, or to local ranches as livestock feed.

When they founded Woody Creek Distillers they knew they wanted to make nothing but the finest craft spirits, each with a unique taste and character that was true to the origins of that spirit. It is a standard they hold themselves to every day. They grow and harvest some of their own ingredients, like potatoes for their premium vodka. They also only source their grains from trusted Colorado farms, like the rye in their 100% rye mash whiskey.

They distill every spirit they make in their own custom Carl stills. They never use neutral grain spirits, or blend with base spirits from other distillers. Rest assured that every bottle produced by Woody Creek Distillers is truly handcrafted to the highest standards.

Early on, Pat saw the opportunity to use the unique farm land within the Roaring Fork Valley and especially Woody Creek, in a sustainable fashion to grow world-class potatoes to create their award winning vodka. Agricultural property that sat idle since the 1940's was rejuvenated, including the use of legacy irrigation sources like the Salvation Ditch in Woody Creek. Woody Creek Distillers also revived farming on land leased from Pitkin County Open Space and Trails, bringing back agricultural vibrancy to idle valley properties.

The state-of-the-art distillery in Basalt is rife with thoughtful design and engineering. From the beetle-kill pine elements in the tasting room and barrel storage facilities, to fully sustainable production processes, Woody Creek Distillers exemplifies conservational and environmentally sound operations. All heating and cooling is done within closed loop systems, using hot water produced during the distilling process for heating, while using incoming water for cooling prior to production with zero discharge. Finally, 100% of the stillage, the leftover grains and solids from distillation, are used for cattle feed and nutritional enhancement of farm land.

The Woody Creek team are true conservationists and environmentalists and have supported Roaring Fork Conservancy for many years. Congratulations, Woody Creek Team!







Thank You

to ALL the volunteers and sponsors who made our 20th Annual Fryingpan River Cleanup a success!









2017 Annual Report:

How Do We Bring People Together to Protect Our Rivers?

Looking back on 2017, perhaps our biggest milestone was captured in a single shovel full of soil: the monumental groundbreaking of the River Center in Basalt. Though the wait was long, the pouring of the River Center foundation came at the perfect time.



We invite you to read through our 2017 accomplishments in our 2017 Annual Report. Thank you for your continued support that makes our work possible!

View the report at http://www.roaringfork.org/about-us/



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Watershed Explorations

2018 SUMMER & FALL EVENTS CALENDAR

MAY

- 17 Ruedi Reservoir Tour: Storing West Slope Water
- 31 Birding Maroon Creek Wetlands

JUNE

- 2 14th Annual River Float
- 6 North Star Preserve Roaring Fork River Float
- 7 North Star Preserve Roaring Fork River Float
- 14 Fishing in Schools Teacher Workshop
- 14 North Star Preserve Roaring Fork River Float
- 19 North Star Preserve Roaring Fork River Float
- 20 Lazy Glen Open Space Opening
- 21 Flowers & Filtration: Rio Grande Wetland Walk
- 26 Deer Hill Early Summer Wildflower Walk
- 27 Family Night at Filoha Meadows: Fireflies, Bats, and Bugs
- 28 Family Night at Filoha Meadows: Fireflies, Bats, and Bugs

JULY

- 2 Filoha Meadows: Firefly & Rare Orchid Walk
- 5 Family Night at Filoha Meadows: Fireflies, Bats, and Bugs
- 9 Filoha Meadows: Firefly & Rare Orchid Walk
- 17 Family Night at Filoha Meadows: Fireflies, Bats, and Bugs
- 18 Filoha Meadows: Firefly & Rare Orchid Walk
- 24 Filoha Meadows: Firefly & Rare Orchid Walk
- 25 Water in the Age of Silver: Touring Aspen's "Holden Works"
- 27 Twin Lakes Tunnel & Diversion Tour

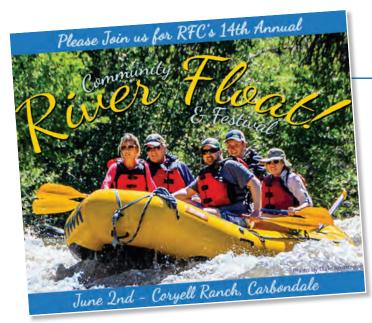
AUGUST

- 8 Family Exploration at Filoha Meadows
- 11 River Center Grand Opening
- 17 Family Exploration at Filoha Meadows

SEPTEMBER

- 7-8 Crooked Creek Wetland Planting
- 8 Family Exploration at Filoha Meadows
- 11 Aspen Tap: Drinking Water Tour
- 19 Filoha Evening Walk: Elk & Bighorn Sheep
- 25 Carbondale Bicycle Ditch Tour

Registration opens 3 weeks prior to program date. For program information and to register visit: www.roaringfork.org/events



COME FLOAT WITH US!

RFC's Community River Float & Festival Saturday, June 2, 2018

TICKETS:

Float & Festival: \$50 (\$40 for RFC Members) Suitable for ages 12+

Festival Only: \$30 (\$25 for RFC Members) All Ages Welcome

REGISTER BY MAY 30 at http://www.roaringfork.org/events





Roaring Fork Conservancy spent the last 22 years bringing people together to protect our rivers. We are thrilled that as we move into our next 20+ years, the River Center will provide us a home in which to bring together visionaries, researchers, policy-makers, elected officials, and academic researchers to discuss regional, state, and national water issues and share ideas with the broader community. As the demand for our science, policy and education expertise increases, the timing is perfect for growing in our capacity!









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Fireflies at Filoha Meadows

Kristen Doyle, Watershed Educator

Last June, I found myself guiding a group across a timeworn bridge, past a seemingly old barn, into a meadow along the Crystal River. I exhausted my botanical knowledge leading a search for rare orchids, and my explanation that the "old barn" was actually a fabricated set from a little-known Disney movie seemed to squash some of the scene's romanticism. As dusk settled in, I wondered if the show we were all anticipating was about to happen, or if I would need to awkwardly explain that it was too cold, too rainy, or too early in the season for our performers to reveal themselves. Then I saw it – a soft light emanating from just a few feet away. As the group fell silent, another light pulsed in response from across the field. And then another. Before long, Filoha Meadows was alight with the soft green glow of fireflies.

Fireflies, also known as lightning bugs, are neither flies nor true bugs, but beetles (Coleoptera). Hatching from eggs, firefly larvae are voracious predators of slugs, snails, and soft-bodied insects. These larva live underground and are capable of producing a light of their own. In the late spring of their second year the larvae pupate, a process akin to a caterpillar creating its chrysalis, before emerging as the adults we are accustomed to seeing. The dazzling display of light is actually a mating call, signaling to others they are "single and ready to mingle." These flashing patterns differ



Clockwise from top left: Adult Photuris firefly and the light organs of the male, female, and larva. Photos by Dr. Larry Buschman.

between species, and are also used by scientists to identify who is who. However, not all "come hither" flashing patterns end happily ever after – the females of some species mimic the flash patterns of others, and then viciously attack and consume their would-be lovers. After mating, female fireflies gently lay their eggs in soft, damp soil, and the life cycle begins anew.

The presence of these copulating coleopterans at Filoha Meadows and other thermal wetlands is a mystery. Fireflies typically live at lower elevations, and while populations have been found at hot springs throughout Colorado, these populations are isolated with miles of arid mountains between them. One theory is that as homesteaders developed the west, fireflies in the east took advantage of irrigation ditches and canals, expanding their range. Dr. Larry Buschman, an entomology Professor at Kansas State University with over 20 years of firefly experience, finds that explanation lacking. Fireflies only persist near permanent, year-round water sources, with many populations found in remote areas reached only by wilderness backpacking. Buschman suggests in his *Field Guide to Western North American Fireflies* that thousands of years ago, when the climate of the American West was wetter, these burly beetles made their way across the continental divide and dispersed into damp forests and wetlands in the West. As the climate became drier, available habitat shrank leaving pockets of fireflies lingering on in our remaining springs and marshes, isolated from each other and subsequently developing their own local



Viewing fireflies during a Filoha Meadows program.

adaptations. Because of this, Buschman believes the population present at Filoha Meadows (currently identified as Photuris *spp.*) may actually be its own sub-species. This uniqueness and isolation also makes the relic population at Filoha meadows vulnerable and vital to protect, as there are no nearby populations possible of reestablishing themselves. While these fireflies may create more questions than answers, once thing is certain: the fireflies at Filoha meadows continue to sparkle for spectators, helping RFC inspire people to explore, value, and protect not just the Roaring Fork watershed, but all creatures big, small, and bright that call it home.

Interested in seeing these fireflies yourself?

Attend one of our July Filoha Meadows programs, FREE thanks to Pitkin County

Open Space & Trails. Details, including dates and registration, can be found at www.roaringfork.org/events.



Staff & Board Flows



Matthew Anderson, Watershed Action Intern

Matthew is an Environmental Science and Resource Management major at the University of Washington in Seattle. This is his second summer assisting the RFC Watershed Action team with water

quality and conservation easement monitoring. Matthew was born and raised in Basalt.



Johnny Cronin, Director of Donor Relations

Johnny's experience building relationships with donors and fundraising for conservation programs, including The Nature Conservancy and Houston Wilderness, follows a successful

career as an entrepreneur. Johnny's background dovetails well with RFC's 22-year mission of inspiring people to explore, value and protect the Roaring Fork Watershed. Graduating from Texas Tech with a degree in Public Administration, Johnny appreciates the busy intersection that is conservation, "friendraising" and governing these sometimes complicated issues. Johnny, his wife Vicki, and his entire family are respectfully dedicated supporters of the amazing outdoor opportunities Colorado provides.



George W. Kelly III, RFC Board Member

Born and raised in Canton, Ohio, George W. Kelly III moved to Colorado upon graduating from St. Bonaventure University with a degree in Marketing in 1998. After starting his career with East West Partners in

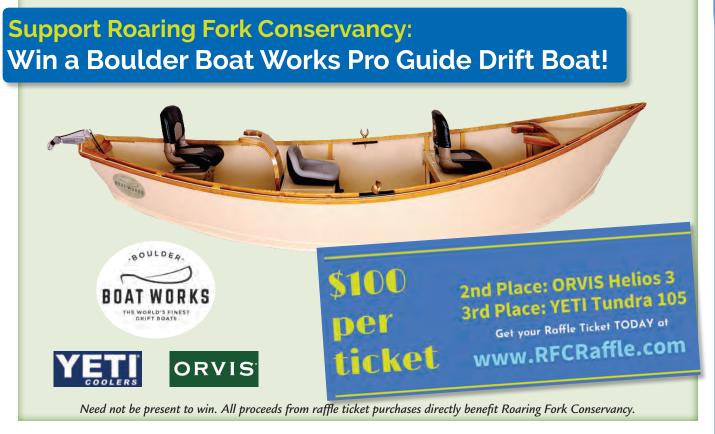
Vail which eventually took him to Lake Tahoe, George and his wife Stacey were drawn back to Colorado and the Roaring Fork Valley, an area that has become home. After a career in leadership roles with East West Partners and Aspen Skiing Company George decided it was time to start his own business. In 2011 George founded Organic Return, an Award Winning Digital Marketing Agency with local and national clientele. Organic Return is a member of 1% For The Planet and focuses on working with hospitality, real estate and business-to-business companies throughout the United State. George lives in Basalt with his wife Stacey Kelly and two kids; four-year-old George IV and six-year-old Audrey.



April Long, Watershed Plan Coordinator

April is a water resources engineer with 16 years of experience assisting local governments with stormwater management programs. For the last decade, April has served as the Stormwater

Manager and Clean River Program Manager for the City of Aspen. She started this program and has grown it into a nationally recognized program for its progressive and creative approach in regulation and award-winning design, construction, and performance of water quality improvement facilities. While she continues her role with the City of Aspen, April is also the principal of her own private contracting business, Colorado Watermark, LLC, where she specializes in strategic planning for water resources and watershed master planning and implementation. April is working with RFC staff to re-engage stakeholders in the update of the 2012 Roaring Fork Watershed Plan.Originally from Alabama, April has a degree in Biosystems Engineering from Auburn University. She spends her free time near the water, too – hiking, camping, skiing and rafting with her family and friends.



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RIVER CURRENTS

is published biannually by Roaring Fork Conservancy. Since 1996, Roaring Fork Conservancy has inspired people to explore, value and protect the Roaring Fork Watershed. We bring people together to protect our rivers and work to keep water in the streams, monitor water quality, and preserve riparian habitat. Roaring Fork Conservancy is an independent 501(c)(3) not-forprofit organization registered in the state of Colorado.

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RIVER CURRENTS

An Unforgettable Summer...

By Rick Lofaro, Executive Director

While it could be said about any summer and every summer, the summer of 2018 was truly an unforgettable one in Basalt and the Roaring Fork Valley. A record dry winter devoid of any serious snowfall or honest powder days gave way to a spring with below average runoff across the watershed. In May and June river flows peaked early, absent the roiling torrent we often see and anticipate in late spring - the kind of runoff that sweeps the stream of last year's sediment and algae, and overtops its banks to saturate the riparian habitat, allowing the 'green ribbon of life' to thrive. The

kind of winter our mountain ecosystem relies on, one with robust snowfall that remains in a high elevation frozen reservoir and slowly releases over a warming spring, is less and less common.

By late June, river levels were dropping fast, and water temperatures were rising to a concerning level. Enter Hot Spots for Trout, a Roaring Fork Conservancy (RFC) citizen science temperature monitoring program (see related article on page 12). River flow levels throughout the watershed were 1/3 to 1/6 of average, and summer was shaping up to be hot and dry.

Weeks of 90°F plus temperatures in Glenwood Springs, Basalt and even in Aspen, exhausted even the Roaring Fork Valley's tolerance for sunny days. RFC worked closely with the Roaring Fork Fishing Guide Alliance and Colorado Parks and Wildlife by holding weekly conference calls to discuss how to respond to these conditions. As a

result, the Hot Spots for Trout program was expanded to a new voluntary closure program from 2 PM to midnight on some area rivers, giving the trout a break during the hottest part of the day. The response from the commercial fishing industry and

the angling public at large was fantastic, and most everyone was reeled in by 2 PM.

On June 29, in the midst of monitoring the already stressed rivers, RFC loaded the final boxes from the old rental office and officially moved into the River Center. Four days later, on the evening of Tuesday, July 3, the Lake Christine fire ignited ¼ mile from the River Center. The fire fighters, the first responders, the community response and all of the events are truly unforgettable.



Roaring Fork River behind the River Center on July 20, 2018. The flow was 285cfs whereas one year ago on the same date it flowed at 1,050cfs.

if you were here you know, saw and have a unique story of just how heroic the effort was to save our towns. Yet, all the while we kept thinking about the river.

Words cannot describe it, but



It was very stressful for everyone to see our beloved rivers struggle through summer. Tourism, agriculture, and municipal water supplies, all suffering in a dire time of need. Now that we are into fall and still lacking precipitation, there is talk of a Colorado River Compact Call, the ultimate repercussion of years of drought and water

shortage. The water struggle is real and never so pressing as today. So, start the snow dance and prayers now, and hope for a better snow year, ski season, water year and a rejuvenation of our rivers... so that we can try to forget about this past summer.



What happens after a wildfire?

A LAKE CHRISTINE WILDFIRE UPDATE

Steve Hunter, Civil Engineer/Hydrologist, White River National Forest, United States Forest Service

On the July 4th holiday in 1994, I was a fly fishing guide floating down the Colorado River staring at a small plume of smoke which would become one of the worst tragedies in wildland firefighting. I did not know it then but the South Canyon Fire would have an effect on my life and career. Fast forward 24 years to July 3, 2018, I again found myself staring at a plume of smoke of what would become the Lake Christine fire.

Like most valley residents, I followed the incredible efforts of local, state, and federal firefighters and first responders. I spent the 4th of July watching the aerial assault on the fire from tankers, heavy helicopters and single engine air tankers as the smoke would turn into impressive pyrocumulus clouds in the afternoon.

As the firefighters gained containment on the fire I knew the work of the U.S. Forest Service was far from over. I am the Burned Area Emergency Response (BAER) coordinator and specialist for the White River National Forest. I worked to mobilize a BAER team for the fire when the fire was still actively burning. Due to the busy fire season in the West, several team members were coming off other fires to assist while others were here locally.

A BAER team is composed of scientists, engineers and other specialists whose main objective is to rapidly access post-fire conditions to determine the level of potential risks to life and safety, property, critical natural and cultural resources. The team conducted analysis in the field and used science-based computer models to rapidly evaluate and access the burned area.

The team uses satellite imagery to create a soil burn severity map which categorizes the burn in areas of unburned, low, moderate, and high. The amount of moderate and high soil burn severity help to determine post-fire hydrologic and geomorphic response.

Debris flow modeling is done by the United States Geological Survey (USGS) to help determine the risk of such events occurring. The BAER team worked with interagency partner's including the Natural Resource Conservation Service (NRCS) who worked with private property owners in preparing for increased runoff and potential flooding.

The BAER team analysis helps determine the appropriate post-fire treatments for the area. Treatments for the Lake Christine fire included noxious weed detection and eradication, seeding and planting, improving drainage features on roads and trails, hazard trees, signage, and storm patrols.

At Left: High soil burn severity on the top of Basalt Mountain with hazard tree. Soil burn severity helps determine post-fire hydrologic and geomorphic response.



There are three phases of wildfire recovery:

- 1. Fire suppression repair
- 2. Emergency stabilization Burned Area Emergency Response (BAER)
- 3. Long-term recovery and restoration

Fire suppression repairs took place for over a month until fire crews demobilized at the end of September. BAER restoration work has begun as well, and this work will continue through the fall of 2018 and resume in the spring and summer of 2019.

Roaring Fork Conservancy is leading the effort on the long-term restoration. A team of experts from multiple jurisdictions met at the end of September to begin plans for addressing and prioritizing recovery and restoration efforts.

The Lake Christine fire changed the landscape that we were all used to. Portions of the fire that were lightly burned were greening up in August and will recover quickly. Areas that burned the hottest will take decades to recover though ground vegetation should begin to reestablish in one to two years.

Roaring Fork Conservancy is leading the effort on the long-term restoration.

There will be the continued risk of flooding, sediment and debris flows with any significant rain or snow events. The last BAER assessment on the White River National Forest was the Coal Seam fire in 2002. In 2018, there were four BAER assessments on the White River National Forest.

For additional information about the Lake Christine fire and other wildfires, please visit InciWeb which is "an interagency all-risk incident information management system" and can be found at https://inciweb.nwcg.gov/. More specifically, the Rocky Mountain Region can be found at https://inciweb.nwcg.gov/incident/5928/. Stay tuned to post-Lake Christine fire volunteer efforts in 2019!





Above: US Forest Service BAER team soil scientists and hydrologists analyzing soil burn severity on the Lake Christine fire. **Top Right:** Aerial image shows a mosaic of high, moderate, and low/unburned burn severity on Basalt Mountain above Upper Cattle Creek. **Bottom Right:** Aerial image of mostly high burn severity. Helicopters help BAER specialists rapidly access the entire fire to verify burn severity. The team then targets specific areas to analyze on the ground.

A COLLABORATIVE CLEAN-UP

Matthew Anderson, Watershed Action Intern

In 2015, RFC embarked on the Cattle Creek Stream Health Evaluation, intended to understand and address impaired conditions on the stream as designated by the State of Colorado. This included significant water quality monitoring, stakeholder outreach, fundraising, and collaborative efforts up and down the stream. That work continued this summer as 23 individuals from RFC, the Bureau of Land Management (BLM), Garfield County, and Rocky Mountain Youth Corps (RMYC) partnered to address concerns on BLM property along Lower Cattle Creek, a tributary to the Roaring Fork River.

The two-day project started with trash removal in a heavily littered riparian area. The enthusiasm and energy of the high school-aged RMYC volunteers kick-started the work, and soon, trash was being found everywhere, including in the trees! The bulk of findings included hundreds of bullet casings and shotgun shells, beverage bottles, and clay pigeons, while more unusual items such as a DVD player, car seat, and leaky oil container were also found. In addition to trash removal, an old fire pit was dismantled, the ash shoveled away, and a large wood pile was removed to discourage future fires. A few lucky RMYC volunteers donned hip waders and searched the stream itself for unwanted trash – which they found! Finally, BLM staff strategically placed boulders to discourage vehicular access to the creek while still allowing walk-in access.

On day two, approximately 450 yards of barbed wire was removed. This fencing was no longer in use and posed a hindrance to wildlife attempting to access the creek. RMYC's previous fencing experience was invaluable at this stage; their record-time removal of the fencing allowed more time for further trash cleanup. In total, 2,260 pounds of trash and debris were removed from Cattle Creek and the surrounding riparian habitat during the two-day work project.

This project was an excellent opportunity for RFC to continue working with Garfield County and the BLM in addressing the health of Cattle Creek. Additionally, the project allowed RFC to provide some knowledge and context about local watersheds to RMYC volunteers. The youth learned about the importance of riparian habitats in Colorado and quickly connected this project to river conservation. Projects such as these foster partnerships and provide meaningful, educational, and fun opportunities for youth from inside and outside the valley to interact with the Roaring Fork watershed.

Top Right: Removing unnecessary barbed wire fencing. **Middle:** So many shotgun shells and bullet casings. **Bottom:** We found a muffler. Hope the car got out okay!















Not Your Typical Science Class

Liza Mitchell, Education Programs Manager

What were the most memorable moments of your childhood? Surely they weren't sitting in the classroom.

While traditional education might not top the charts of a young person's life, discovery often does. RFC's new Youth River Stewardship Project combines interdisciplinary, place-based lessons about watershed science with a float trip on the river!

RFC's emphasis on field education aligns with a significant body of research showing how effective field-based experiences are in building students' sense-of-place, self-efficacy and environmental literacy. Targeting middle school students, RFC has partnered with several local schools and rafting companies to overcome traditional barriers to getting kids on the river. Once on the river, students work with each other and RFC educators to test the water quality of the river, assess riparian health, and learn to observe the intersecting dynamics of humans and nature.

Research suggests our country's youth spend less time outside, are less interested in natural resource careers, and participate in fewer outdoor recreation activities*. By providing opportunities for students of all backgrounds to connect with nature through a guided, educational rafting experience, RFC educators expose these students to careers in natural resources as well as recreation and establish authentic understanding of how healthy rivers benefit local ecosystems and economies. Water resources in the West are threatened by increasing population, climate change, and development; it is vital we prepare the next generation of citizens with the knowledge needed to make informed environmental decisions and take appropriate action at all levels.

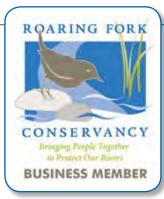
With grant support from Paddle Nation, RFC educators have spent over 31 hours in direct student instruction through the Youth River Stewardship Project, helping over 300 local students get on the river and conduct scientific assessments of river health!

Objectives of RFC's Youth River Stewardship Project

- Ensure youth of diverse backgrounds get to know and experience their local rivers
- Convey the importance of healthy rivers to our environment and economy
- Give students opportunities to do hands-on, field-based science research on the river
- Inspire the next generation of environmental stewards and water professionals

Louv, Richard. (2005). Last Child In The Woods: Saving Our Children From Nature-deficit Disorder. Chapel Hill, NC: Algonquin Books of Chapel Hill.

^{*} Hager, S., Straka, T., & Irwin, H. (2007). What do teenagers think of environmental issues and natural resources management careers? Journal of Forestry. 105(2), 95-98.



2018 BUSINESS MEMBERS: Thank you for supporting essential river research, education, and conservation work!

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Thank Your

Each year, at our annual River Rendezvous fundraiser, a "Paddle Raise" is held to raise funds for specific RFC programs. This year the River Rendezvous planning committee decided to break with tradition and dedicate the paddle raise to the First Responders that kept our community safe during the Lake Christine Wildfire. Starting with \$10,000 from Alpine Bank, over \$120,000 was raised between the River Rendezvous on July 11 and the following weeks. The Lake Christine Wildfire was a difficult time for many in our community and we are all so grateful to the first responders from Aspen to Carbondale for their heroic actions!





Promoting Roaring Fork Watershed Pride!

RFC partnered with local artist, storyteller and environmental advocate, Sarah Uhl, to create a story map of the Roaring Fork Watershed. More accessible than a topographic map, this piece of art is incredibly accurate, thanks in part to aerial tours of the watershed with EcoFlight. It features the "important places" of the Roaring Fork Watershed – the rivers, tributaries, lakes, reservoirs, mountain peaks,

towns, and iconic landmarks that are all inexorably linked within our watershed.

The original story map is on permanent display at the River Center, but if you want to show some pride in the Roaring Fork Watershed, make a donation to RFC and receive one of the maps as a thank you gift.

\$35 donation = 12" x 16" print \$55 donation = 24" x 36" print

Where the Water Meets the Land: Impacts of Drought on Agriculture

Elizabeth Chandler, Owner/Operator, Golden Eagle Ranch, New Castle, CO

The Lake Christine wildfire, low river flows, stressed fish, and reduced recreation are all well publicized results from the hot and dry summer. Less understood is the effect the hot and dry summer has had on agriculture.

Agriculture depends on water to raise crops and grow livestock. Without water, agriculture cannot survive. Think of what happens when you forget to water your houseplants for a week or two. When given water they just don't come roaring back to life; it takes a while for them to recover and

pastures and hay fields that haven't received irrigation water or significant rain since early June. then they are usually not quite as healthy as before. Now think about our These fields didn't produce a very robust hay crop this summer and will not be able to provide fall feed for livestock. The longer term question is what will they produce next year even with good water?

The law of supply and demand holds true for agriculture. The high demand and low supply made hay extremely expensive this year, resulting in early sales of livestock and a deep culling of the mother herd. This increased supply of livestock at the market exceeds the demand and results in lower prices. The secondary issue is the reduced numbers in the mother herd. It will take multiple years for ranchers to build their herds back up to a profitable size. This reduces the buying power of ranchers and causes other businesses to also have reduced profit margins. Farm supply stores, equipment dealers, and trucking businesses will all be impacted, but so will restaurants and recreation businesses.

This is not the first extremely dry year from which agriculture has had to recover, but it is the hottest and driest year ever in our area. The combination of hot and dry magnify the effects of each other. The hot weather increases the evaporation from streams and lakes, increases the water needed by plants to produce, and lengthens the period of time plants need water. The best prediction from climatologists is this weather pattern may be our new normal. The uncertainty adds to the stress: Will rain come and the drought be over, or are the climatologists right that hot and dry weather is our new normal?

The emotional impact of working hard to tend your livestock and land only to have it lost to circumstances beyond your control is difficult to appreciate. It is hard to wake up every morning to dry fields knowing that you will have to sell off livestock that you have spent years raising. You worry about how long it will take for your fields to reestablish themselves - if you get good water next year. Will there be snow? What if next year is as dry as this one? Can we keep the ranch? Should we just sell off now? How much can we sell and still have a chance to survive if we get snow? The list of questions goes on and on, but the real point is that a drought is very stressful. It is about the survival of your livelihood, your way of life, your family's

Tourism, recreation, wildlife, and agriculture are all interrelated. Wildlife depends on irrigated lands for winter pasture. Recreation and tourism both benefit from the open space and green fields that agriculture provide. Agriculture benefits from the recreational and tourism based economy. The hot and dry year has had a negative impact on all of these areas. A good water year will restore recreation and tourism, but it will take several years for our fields to regain full production and to build the livestock herds back up to current numbers.

At left, photo by Katherine Dessert. At right, photo by Tim O'Keefe













1. RFC staff with Governor Hickenlooper. 2. Children use microscopes to get a close up view of the aquatic insects!
3. Guests tour Old Pond Park. 4. Guests tour the River Center Water Quality Lab. 5. Using the River Center classroom to update guests about the Lake Christine wildfire. 6. RFC Board Members. 7. Celebrating at the donor reception, the Edwin & Jenny Long Murphy family. 8. Former Governor Bill Ritter talks to RFC's Director of Watershed Science & Policy, Heather Lewin, and Director of Community Outreach, Christina Medved. 9. Governor Hickenlooper meets Sarah Uhl, the Roaring Fork watershed map artist, along with RFC Education Programs Manager, Liza Mitchell, and executive director, Rick Lofaro. 10. Governor Hickenlooper is presented a Roaring Fork Watershed Map by executive director, Rick Lofaro, and RFC board president, Pat McMahon. 11. Franklin Carson, RFC board president Pat McMahon, RFC National Council Members Carter Brooksher and Judy Baum, with Governor Hickenlooper. 12. RFC executive director, Rick Lofaro, along with Mr. John Stulp, Special Policy Advisor to the Governor for Water and Chairman of the IBCC at State of Colorado, Vice President of RFC National Council Carter Brooksher, and former Governor Bill Ritter during the Ribbon Cutting. Photos provided by Dale Armstrong, Christina Medved and Diane Schwener.



















Creative and Cooperative Water Management Benefits the Fryingpan River

Heather Lewin, Director of Watershed Science & Policy

As the 2018 water year comes to a close, there likely won't be too many sad goodbyes. A warm, dry winter gave way to a hot, dry summer - and all that goes along with it from fire to drought. This summer, good news about water seemed about as hard to come by as a rain storm. However, hard times breed cooperation and innovation, particularly in water management. As we have seen throughout

this summer, the management of Ruedi Reservoir plays a critical role in not only the Roaring Fork watershed, but the whole Colorado Basin.

Ruedi Reservoir was built as compensatory storage for the Fryingpan-Arkansas Diversion project. Put simply, Ruedi Reservoir holds water dedicated to Western Slope use in order to offset water sent to the Eastern Slope via transmountain diversion from the

Fryingpan River by Barry Mink Fryingpan headwaters. Beyond a certain amount of water being held as "reservoir water"- water which is not released downstream - water in Ruedi is dedicated as either "fish water" or "contract water." Fish water is stored in Ruedi and released throughout the spring and summer to help four threatened or endangered fish species that live in the Colorado River and require additional water in an area near Grand Junction known as the "15-Mile Reach." Contract water was sold by the Bureau of Reclamation (BOR) to recover the costs of building and operating the dam. Contract water is held by a variety of entities from municipalities to HOAs, with the largest shares belonging to Ute Water Conservancy District, Colorado River District,

While it's true that recreation economy was not the purpose behind Ruedi's creation, there is no denying its value. In 2015, RFC commissioned an economic study with Colorado State University that showed recreation at Ruedi adds \$3.8 million to the local economy. The same study found that keeping winter flows in the Fryingpan

and Exxon Mobil Corporation.* However, for most local

residents, Ruedi unlocks the door to Basalt's recreation

economy; from flatwater recreation on the reservoir to

fishing on the Fryingpan. Those who live in the area are

often concerned that these local interests are overlooked in

at a minimum of 70cfs, to lessen anchor ice formation and impacts, adds \$1.5 million to the economy. Avoiding anchor ice also has ecological benefits. Anchor ice can freeze and scour macroinvertebrate habitat, having negative effects on not only the insects, but also the fish and birds who eat them. However, without a water right on the Fryingpan or contract water in Ruedi, RFC has



found it challenging to

ensure this minimum flow is met in low snow years. Conversations with the BOR have had positive results, where managers work to keep water at environmentally beneficial flows. However, this arrangement comes with no guarantee as many decisions that regulate Ruedi water management involve specific uses and target areas, and are complicated by the utilization of water stored in multiple reservoirs around the state to meet these needs.

Ensuring winter minimum flows are met consistently requires creativity and cooperation. RFC approached the Colorado River Water Conservation District ("River District") last summer with the possibility of coordinating a lease of some of their contract water for winter flows. Each contract has a specific target water use, and it is difficult to operate outside the uses specified in the contracts. Fortunately, some of the River District's contracts included winter environmental flows as a specified use. However, water is not free, and leasing water comes at a cost. This is the first environmental contract water lease that the River District has ever participated in, requiring staff to ask their governing board to both allow the lease, and price it the same as an agricultural water lease. With River District Board approval, the lease was then brought to the Colorado Water Conservation Board's (CWCB) Stream and Lake Protection Section, who has money available to lease water for environmental benefits. With both boards' approval RFC helped secure 3,500 acre feet of water to supplement winter flows. CWCB staff is now returning to their board to ensure that any of that 3,500 acre feet that is not used during the winter becomes available to the 15-mile reach this summer.

Ruedi management efforts.

RFC continues to work with both the River District and CWCB to discuss creative management options to help meet local needs. For example, the River District re-allocated their reservoir releases for the Grand Valley from other reservoirs and sent additional water down the Fryingpan in July. That release provided flow benefit not only to the Fryingpan, but also the Roaring Fork, where flows were low and temperatures were high. This water, while meeting a downstream use, was able to benefit a local use as well. At a time when water management is as important as ever, we are hopeful that this sort of creative management strategy, designed to meet multiple uses will serve as an example for the future.



*Gardner-Smith, Brent. (2016, April 17) Who Owns the Water in Ruedi Reservoir? Aspen Journalism, retrieved from https://www.aspenjournalism.org/2016/04/17/who-owns-the-water-in-ruedi-reservoir/.



Boulder Boat Works Raffle Winner!

As part of our River Center Grand Opening ceremony on August 10 and 11, RFC raffled off a beautiful Boulder Boat Works Pro Guide drift boat package valued at \$18,000. We were thrilled to pull the winning ticket of Nancy Reinisch and Dr. Paul Salmen of Glenwood Springs. RFC called and emailed Nancy to inform her she had won. This was her email response –

"YAHOOOOOO!! Please call me! I bought this ticket for my husband's 65th birthday and for being the best cancer caregiver ever to me! I am screaming for joy! Oh my gosh, oh my gosh!! Thank you, thank you! Please call me, unless of course, you don't want to hear screaming!!!"

A perfect ending to a perfect Grand Opening weekend. Nancy, now at age 65 and in the midst of a second battle with metastatic breast cancer, reached a career high by completing her 100th triathlon in 2018. Paul received the kind of birthday present fly anglers dream of. Now he and Nancy can row off into the sunset and enjoy their new Boulder Boat in the same valley where they live, where the boat was made, and where the boat belongs - on the gold medal waters of the Roaring Fork River!



Staff & Board Flows



Matthew Anderson, Watershed Action Intern

Matthew returned to RFC for a second summer to assist our Watershed Science & Policy group. Matthew was born and raised in Basalt and is currently a junior in the Environmental Science and Resource Management program at the

University of Washington in Seattle. Matthew helped conduct water quality field-work, data management, maintained in-stream temperature loggers, and monitored conservation easements throughout the Roaring Fork watershed.



Mercedes Wilson, Executive Assistant/Office Coordinator

As a recent transplant to Basalt, Mercedes welcomes the opportunity to work protecting the Roaring Fork Watershed. Living by the Mississippi and the Indian Rivers forged her passion

for water. Having spent time in Thailand, Italy and Nicaragua served to further her interests in riparian rights, conservation and wildlife. Mercedes looks forward to supporting RFC's mission with her management and administrative skills. Mercedes is also Spanish Bilingual with a Master of Science in Disaster, Resilience and Leadership. During her free time, Mercedes enjoys spending time with family, rafting and fishing.



Michelle Schindler, RFC Board Member

Michelle joined the RFC board in 2018. She is an attorney with the Matthew C. Ferguson Law Firm, P.C. in Aspen, Colorado, where she concentrates her practice in real estate and commercial litigation. Michelle grew up in

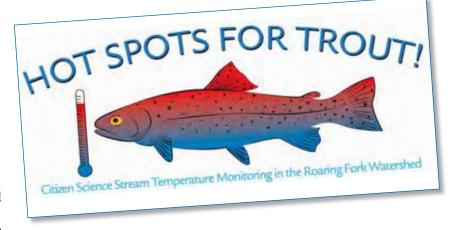
Madison, Wisconsin and then attended Northwestern University, where she earned her degree in Environmental Sciences. Prior to going to law school, Michelle worked for 5 years in environmental advocacy and the non-profit sector. After attending law school at Loyola University of Chicago, Michelle started her legal career in Chicago, Illinois and several years later moved to the Roaring Fork Valley. Michelle resides in Basalt, Colorado.

Citizen Scientists Keep a Pulse on River Temperatures!

Kristen Doyle, Watershed Educator

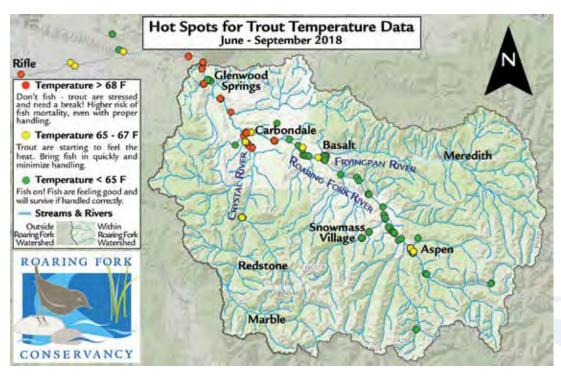
As water temperatures increased and drought persisted this past summer, RFC restarted a citizen science project, Hot Spots for Trout, to monitor local river and stream temperatures.

From June to September, 63 volunteers submitted over 280 observations throughout the Roaring Fork Watershed. That's over 1,000 individual measurements! This information allowed RFC to identify areas of concern and collect additional data where needed. The



measurements taken by our Hot Spots for Trout volunteers also helped RFC collaborate with Colorado Parks and Wildlife (CPW), resulting in voluntary fishing closures from 2pm-midnight, giving fish a break in the hottest part of the day.

The data submitted by our volunteers suggests those fishing closures may have prevented a considerable number of trout mortalities. The combined stress of angling and warmer water can be enough to kill, even when anglers follow proper catch-and-release techniques. Stream temperatures were mostly within a healthy range for trout in the Roaring Fork upstream from Basalt (below $65\,^{\circ}$ F). Downstream was a different story. Afternoon water temperatures below Carbondale often crept above $68\,^{\circ}$ F – the temperature at which CPW asks anglers to pack it up and fish another day.



Special thanks to the Roaring Fork Fishing Guide Alliance and the Roaring Fork Valley Fly Fishing Club, whose members stepped up to volunteer and get the word out, CitSci.org, and fishpond, inc. who provided thermometers.

Effects of Water Temperature

Chad Rudow, Water Quality Program Manager

Water temperature can impact both chemical and biological processes in rivers. Chemically, it directly influences pH levels, the speed of chemical reactions, and oxygen levels. In particular, warm water holds less oxygen than cold water, limiting the supply available for aquatic life.

Biologically, higher temperatures increase the rate of energy production and oxygen consumption in fish and aquatic insects. This can cause significant stress on organisms as they require increasing levels of oxygen, which are already limited in warmer water, to maintain body functions.

19TH ANNUAL REPORT THE FRY INC. ON THE BANKS OF THE FRY INC. JULY 11,

ON THE BANKS OF THE FRYINGPAN July 11, 2018



2018 River Conservators were Mary & Pat Scanlan and Mark Kleckner & Tracey Snow (pictured here)



Jennifer & Scott Thompson, Basalt & Snowmass Village Fire Chief, with Heather & Greg Knott, Basalt Chief of Police.

Dane Brooksher, Pat McMahon and Judy Baum



Edgell Pyles, Marianne & Dick Kipper, and Marty Pickett enjoy themselves on the banks of the Fryingpan River.



Crosby Vail and Kory Ross attending the trout release tank.



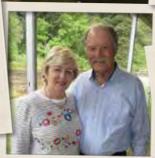
Rick Lofaro, executive director of RFC, with the Boulder Boat Works drift boat raffled off this summer.



Basalt Police Chief Greg Knott and Fire Chief Scott Thompson were honored at this year's River Rendezvous.



Alexandra George, Emily Davis, Sam Broom and Anna Schwinger



Sarah & Robert Woods at their final year of organizing River Rendezvous. RFC will always be grateful for their contributions and service.



Carter Brooksher with Harry and Bonnie Kloosterman and Kathy and Jerry Pettit.

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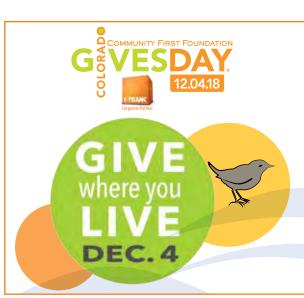


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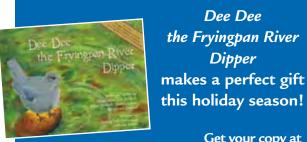
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RIVER CURRENTS

The Winter We So Desperately Needed

by Rick Lofaro, Executive Director

The summer of 2018 left a wake of dismal river flows and reservoir levels, unrelenting hot temperatures, fires close to home and throughout the Mountain West, and serious concern for what winter may or may not bring in the aftermath of the fourth worst drought year on record. Collectively, the watershed community performed our best snow dances in hopes that mother nature would deliver the winter we so desperately needed. The dances worked, the prayers were answered and the jet stream

relocated with Colorado right in the bullseye.

A cool and calming fall settled in and school groups arrived at The River Center daily. The ideal trifecta for watershed education had emerged in Old Pond Park, the Roaring Fork River and The River Center. Ample indoor and outdoor learning space surrounded by opportunities to interact with the riverine ecosystem have allowed our education programs to excel. Whether utilizing the outdoor courtyard to model the watershed with climbing ropes (see photo) or dipping a kicknet in the Roaring Fork River to capturing insects, our educators and visiting students are equally

enthusiastic about the place and the subject matter.

The snow started falling sometime in mid-October and continued as the return of a "real" (and quite cold) winter became official, and was welcomed with resounding joy. Epic powder days returned, plows ran around the clock some days, schools had snow days and, as I had hoped would be the case, I was thankful but sick of shoveling by March 1. To the delight of the watershed, and dismay of my back, March delivered plenty of additional snow throughout Colorado to help alleviate the drought - at least for the time being.

The abundant snow and cold this winter was a welcome change. Winter gave the RFC staff time to settle into The River Center after a busy and hectic summer, and a front row seat to some of the most epic displays of winter on the river. As winter's grip tightened, temperatures dropped allowing significant amounts of ice to form in and around low flowing streams. Periodic warming spells released ice jams in the Roaring Fork River in stellar fashion, and RFC was able to document nine

separate events between December and February. This natural phenomenon provided a notable learning opportunity for RFC and the community at large. Community alerts preceding ice jam breaks helped keep people safe and out of the river, and also brought the community together along the riverbanks and bridges to watch the ice roar through.

Shortly after a rare double-header ice jam break on January 4, I decided to see how the trout fared. My first outing from The River Center reacquainted me with the Fork I'd fallen in love with so many years ago when I first moved to Basalt. I made it out weekly between January

and mid-March, beginning every adventure from the beloved River Center mudroom where my waders and rods now hang. I went out the back door and pat the cutthroat trout bike rack for good luck, and within minutes I was reinvigorated and reminded how fortunate we are to have and protect the river in our backyard.

I'm grateful for the snow this winter bestowed upon us, but remain aware that one good year, while it relieves some pressure, does not solve the long term water shortages that exist in the West. However, today, I am thankful the outlook for this summer looks favorable. See you on the river!



ONLY RAIN DOWN THE DRAIN!

Storm drains and rivers lead downstream to someone's drinking water supply!

by Christina Medved, Director of Community Outreach

When rain falls onto hard surfaces like paved roads and parking lots, that water runs off into storm drains. Most storm drains empty directly into the nearest stream without filtering debris or pollutants. Often these streams are the sources of someone's drinking water. How do we educate residents and visitors about protecting these sensitive areas?

RFC partnered with Colorado Rural Water, Eagle River Watershed Council, Middle Colorado Watershed Council and most municipal water suppliers in the Roaring Fork Valley – and beyond – to address this need. Starting this



summer, you will see signs along roadways and streams, reminding us all to "Keep It Clean 'Cause We're All Downstream!"

View tips and access resources on ways you can help keep our streams and drinking water supply healthy by visiting www.roaringfork.org/ KeepItClean

Throughout
Colorado many water
Providers created plans
to protect their drinking
water sources. Learn
how by reviewing your
community's "Source
Water Protection Plan"
at www.crwa.net.



The Good, The Bad, and the Fire

by Heather Lewin, Watershed Science & Policy Director

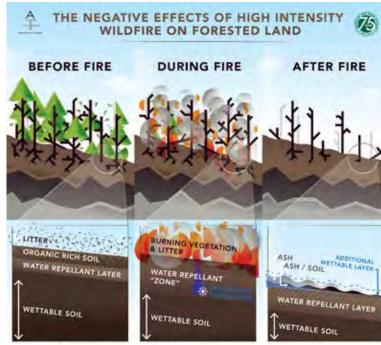
As an abundant snowpack receded from Basalt Mountain in April, the darkened landscape reminded us of a summer that seemed long left behind. Hot, dry days in smoke-filled skies were replaced by the seemingly endless bluebird powder days this winter. While optimism abounds for a robust runoff that leaves the drought behind us, the short- and long-term changes from the fire remain in the community and on the landscape.

The good news: There's significant moisture from the winter, which gives plant communities a better chance to begin to regenerate, bringing back the green landscapes and all the associated benefits including wildlife habitat, erosion control and scenic vistas we've become accustom to enjoying.

The bad news: High-intensity fires can increase flood risks, erosion rates and vegetative recovery, jeopardizing downstream values, from homes and businesses to streams and habitat. Debris and sediment flows can be several orders of

We're looking for volunteers to help with the Lake Christine wildfire restoration project on June 12. Find details at

www.roaringfork.org/events



LITTER (needles, leaves, dead grass, bark, etc.) | WETTABLE SOIL (receives, filters and stores moisture)
WATER REPELLANT LAYER (decomposition of waxy material that comes from plant residues – these
materials can coat soil, preventing water from filtering through)

magnitude larger than flows that historically exist in a given area, creating concerns for private property and ecological

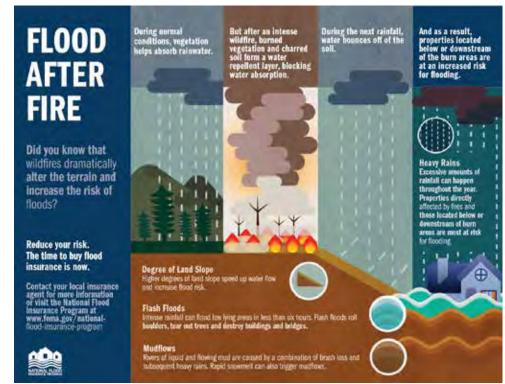
impacts, particularly in-stream. Refer to the graphic below to learn how you can protect your home and the stream.

The good news: The U.S.
Forest Service, Colorado Parks
and Wildlife, Bureau of Land

Management and Natural Resource Conservation Service all have projects underway to protect private property, revegetate public lands and mitigate debris flows.

The bad news: There will probably be some sediment or debris flows this summer, most likely during the runoff or monsoon season.

The good news: Highintensity burns only account for about 12% of the total area of the Lake Christine wildfire, meaning that much of the beloved Basalt Mountain will come back stronger and more resilient, much like the community has done.



2 RIVER CURRENTS ~ Spring 2019

WATERSHED SCIENCE

80

POLICY

Training Citizen Scientists

by Chad Rudow, Water Quality Program Manager

Volunteer Stream Teams contribute significantly to one of RFC's longestrunning programs: baseline water quality monitoring. These incredibly dedicated citizen scientists assist with monitoring across the Roaring Fork Watershed, from Aspen to Glenwood Springs. The teams vary in size, age, location and longevity, but they all share a passion for hands-on science and a desire to help protect local streams and rivers.



Recently, a number

of stream teams "retired" from monitoring, providing opportunities for new volunteer recruitment and engagement. To ensure these volunteers had the necessary tools for their new "job," RFC hosted a training at The River Center, generously funded by Aspen Skiing Company's Environment Foundation. A number of existing Stream Team members also participated for "refresher training" allowing new and existing groups to meet and share their experiences.

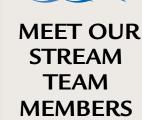
Over the course of two evenings, participants learned the intricacies of

and accurate water quality monitoring. The first evening was spent at a stream near The River Center, learning proper protocols for recording measurements and collecting various water samples. The second evening involved learning how to analyze those samples through chemical titrations and scientific meters. Participants learned how additional samples are collected, processed and shipped to a lab for in-depth

conducting precise

analysis, and how data is compiled through the Colorado River Watch program and used by RFC and state agencies to assess the health of local streams and rivers.

By the end of the training, new groups of citizen scientists had the tools and knowledge necessary to begin their important work. They join the existing Stream Team members – some of whom have volunteered for more than 15 years – to form a network of 20 volunteers integral in measuring and documenting the health of local streams and rivers.



RFC sincerely thanks the following individuals for their dedication to monitoring the health of local streams and rivers. Their help is invaluable!

Joanie Anderson Jeannette Cohen **Matthew Hamilton** Dick Helmke George Johnson **David King** Lacy King Jim Kirschvink **Patty Lecht Leigh Louis** Charlie Lueders Jennifer Long **Buzz McArthur** Martha Moran **Bob Morse Lesley Morse** Shannan Osburn Aimee Ruddell Laura Taylor George Wear





WATERSHED EXPLORATIONS

2019 Summer & Fall Events Calendar*

JUNE

- 8 15th Annual River Float
- 12 North Star Preserve Roaring Fork River Float
- 13 North Star Preserve Roaring Fork River Float
- 19 North Star Preserve Roaring Fork River Float
- 26 Family Night at Filoha Meadows: Fireflies, Bats, and Bugs
- 27 Family Night at Filoha Meadows: Fireflies, Bats, and Bugs

*Registration opens 3 weeks prior to program date.

JULY

- 1 Filoha Meadows: Firefly & Rare Orchid Walk
- 2 Filoha Meadows: Firefly & Rare Orchid Walk
- 8 Filoha Meadows: Firefly & Rare Orchid Walk
- 11 Family Night at Filoha Meadows: Fireflies, Bats, and Bugs
- 16 Family Night at Filoha Meadows: Fireflies, Bats, and Bugs
- 18 Filoha Meadows: Firefly & Rare Orchid Walk
- 19 Twin Lakes Tunnel & Diversion Tour
- 23 Herron Park Insects of the Roaring Fork River
- 24 Water in the Age of Silver: Touring Aspen's "Holden Works"

AUGUST

- 6 Fishing in Schools Teacher Workshop (Basalt)
- 8 Family Exploration at Filoha Meadows
- 8 Fishing in Schools Teacher Workshop (Salida)
- 14 Family Exploration at Filoha Meadows
- 21 Get the Inside Scoop at Cozy Point

SEPTEMBER

- 14 Family Exploration at Filoha Meadows
- 18 Filoha Evening Walk: Elk & Bighorn Sheep

For more information and to register visit: www.roaringfork.org/events

Roaring Fork Conservancy Water Education Programs by Grade Pre-K K Water Voles & Adaptation Prout, Trout, Trou

To learn more about Roaring Fork Conservancy, visit www.roaringfork.org

RIVER CURRENTS ~ Spring 2019 ~ RIVER CURRENTS

5

River Rules for Fun & Safety!

Floating Etiquette (rafts, kayaks, SUPs)

- Wear a lifejacket. Always. Things can happen quickly on a cold, fast moving river.
- Be equipped with safety knife and whistle.
- Carry a First-Aid Kit.
- Respect private property.
- Know the river, have a map, talk to local outfitters for guidance and daily conditions.
- Pick up and pack out all trash.
- Don't crowd other river users.

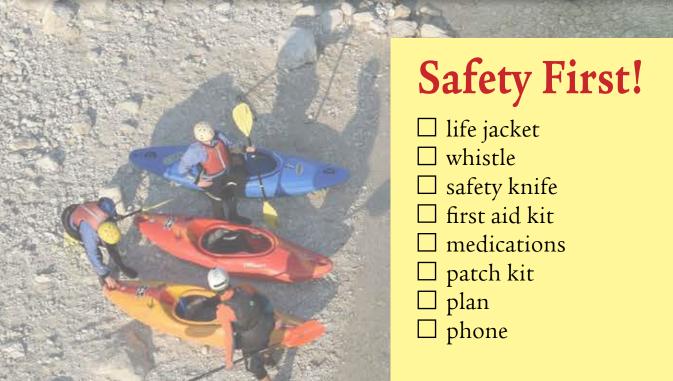
- Wade anglers downstream have the right of way. Quietly move around them or communicate otherwise.
- Be organized, fast and efficient on the boat ramp when putting in and taking out. Be courteous to other river users and limit ramp time to 5-10 minutes.
- Follow the golden rule treat others as you would like to be treated both on the boat ramp and on the water.

Fishing Etiquette

In addition to Floating Etiquette:

- Obtain a valid Colorado Fishing License.
- Learn and follow local fishing regulations.
- Land fish quickly, do not play them to exhaustion.
- Keep fish wet and in the water. Minimize fish handling.
- Release fish gently in clear water, allowing fish to swim away after recovery.
- Barbless hooks all the time.
- Anglers give other anglers plenty of room.

Stop by
THE RIVER CENTER
IN BASALT FOR
YOUR RIVER
STEWARD
STICKER.



Before you get on the water, ask yourself:

- Am I capable of navigating the river in its current state?
- Is the river at a safe level for me and my guests?
- Do I have a plan?
- Does someone know where I am floating and when I plan to be back? (Remember to make contact when float is finished and take-out is reached safely.)

Be a STEWARD of the River

S hare the river - with everyone

T read lightly and leave no trace

E tiquette is for ALL river users

Wait your turn and be patient

A dhere to closures & regulations

R espect all life - wild and human

Do your part to protect the river



Explore
Value
Protect

www.roaringfork.org

2019 River Conservator: RICK NEILEY



Roaring Fork Conservancy will honor Rick Neiley as our 2019 Robert Billingsley River Conservator at the 20th Annual River Rendezvous on July 10, 2019. Rick joined RFC's Board in 2000 and after 18 active years retired at the end of 2018. His expertise around river issues, conservation easements and vast experience serving on other boards throughout the Roaring Fork Valley helped shape the direction of RFC in its first decade. Rick was also instrumental in the direction and eventual completion and opening of The River Center. As an attorney with Neiley Law Firm, LLC, Rick's expertise in legal and financial matters was particularly valuable over his long tenure with RFC. We wish him tight lines and best fishes!

You're invited to The Brooksher Vatershed Institute



Thursday, JULY 18 • 1pm 50 Years of **River Protection NICOLE SILK**

Executive Director, River Network

As water champions celebrate the 50th anniversary of the burning of the Cuyahoga River in northeastern Ohio, Nicole will share what river protections have emerged since that infamous day, and shed light on what the next 50 years of water protection will bring.

Roaring Fork Conservancy invites you to The Brooksher Watershed Institute at The River Center for presentations that address our most precious resource, water. We'll discuss the most current water-related issues at the local, state and regional level, and provide opportunities for one-on-one dialogue with these water leaders. Light refreshments will be served.

SEATING IS LIMITED. Register at www.roaringfork.org/events.



Staff & Board Flows



Elliott Audette, Business Manager

Originally from Saratoga Springs, New York, Elliott moved to the Roaring Fork Valley in 2011 to work for the Aspen Skiing Company. During his time with them he

grew a passion for winter and summer sports, the great outdoors, and the Roaring Fork Valley community. Elliott has enjoyed volunteering for RFC since the spring of 2016. His favorite events are the Fryingpan River Cleanup and River Rendezvous. Elliott is looking forward to expanding his impact on the community by working with RFC year-round!



Megan Dean, **Education Program Coordinator**

Megan's love of rivers began on the mighty Mississippi where she worked as a water patrol officer for the Iowa Department of Natural Resources. Wanting to

focus on education instead of law enforcement, she graduated from the University of Iowa with a B.S. in Education with a Specialization in Sciences. She moved to Colorado to pursue her passion for education as a teacher in the Roaring Fork Valley. After gaining some amazing teaching experience in the classroom, Megan opened Unlimited Horizons Tutoring and Enrichment, enabling her to build and offer after-school environmental education programs to valley students. With a dedication to watershed education, she became a part-time educator for RFC in 2015, then returned to the classroom for a short time, and finally rejoined RFC full-time in June as the Education Program Coordinator. Megan can often be found playing on her paddleboard and enjoying other watersports with her family.

Thankyou!

After serving a combined 41 years on the RFC board, Stephen Ellsperman, Dick Kipper, Rick Neiley and Don Schuster stepped down this past spring. Thank you for your many contributions to RFC!



Ellsperman .



Kipper







Schuster

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is published biannually by Roaring Fork Conservancy. Since 1996 Roaring Fork Conservancy has inspired people to explore, value and protect the Roaring Fork Watershed. We bring people together to protect our rivers and work to keep water in the streams, monitor water quality and preserve riparian habitat. Roaring Fork Conservancy is an independent 501(c)(3) not-forprofit organization registered in the state of Colorado.

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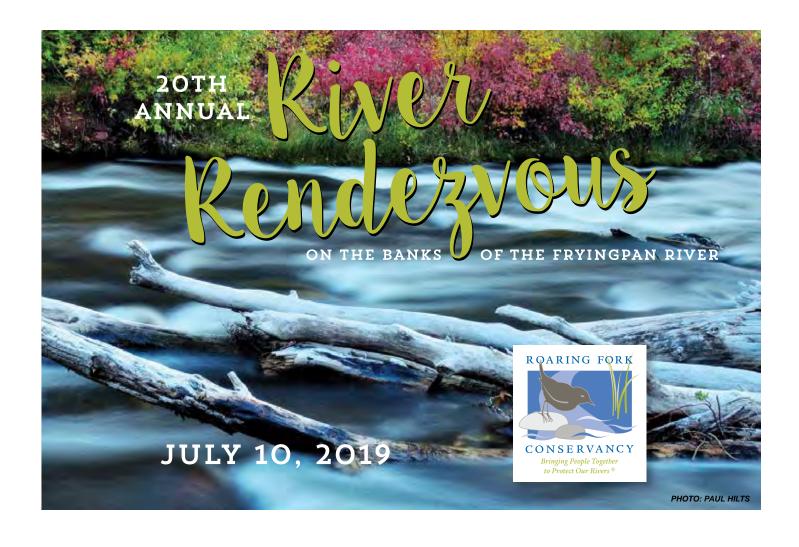
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RIVER CURRENTS

Fall 2019 - Winter 2020

Bringing People Together to Protect Our Rivers®

Reading the River

by Rick Lofaro, Executive Director & Heather Lewin, Director of Science & Policy

Every river has a story to tell. The story may be written in the rocks or the banks, the rapids or the eddies, the fish or the insects. As we interact with the river, we learn to read the story the river is telling through observation, experience and tradition. For many, the perspective from which we read the river relates directly to one's preferred forms of recreation. For the seasoned river enthusiast, knowing how to read the rocks and rapids to ensure safe boat passage or honing in on that really BIG trout's hiding spot is second nature. For others, it may be knowing where a particular sediment deposit might reveal gold, or the way that a river moves over time to benefit a larger ecosystem.

In Mark Twain's A River Pilot Looks At The Mississippi he compares river boating and reading the river to critically examining literature, registering how perspectives change with experience and knowledge. With time spent on and around the river, one's perception evolves as a deeper understanding of what we are truly observing is unveiled. It is often through this understanding that we develop a greater connection to the river and discover that even the most experienced river reader whether angler or boater - is still humbled by the river, knowing that there is always more to learn. This, perhaps, is what draws so many to the river. It's not a book to read once and forever know how it will end. It is reading that holds eternal secrets, and unveiling one leads only to the desire to

learn and understand more. Through this exploration, one begins to internalize the value of the river; and the need to protect and care for it becomes a mission, because the story is so compelling and too valuable to be lost.

Learning to read the river creates new opportunities to explore, study or simply enjoy them. With so many different perspectives, professions and passions, the river speaks to its readers in many different languages. Some read the river to help plan - for trips or activities, floods or droughts. Other read the river in data points, sample collections or hydrographs. As river professionals, we at Roaring Fork Conservancy (RFC) must become fluent in reading rivers in a variety of ways - and the necessary river-reading skills can vary day to day. A thorough and thoughtful read can result in an accurate weekly river report, a fun day of floating or the perfect cast. In some form or another, we are all continuing to learn to read the river each time we interact with it. That is part of the fun, magic and passion.

This newsletter looks at how we can read rivers and landscapes to help inform and shape the work we do in the watershed and beyond. I encourage each of you to take a stroll or a wade or a float along your favorite river and start your own reading list – be it books, rapids, or rocks – to further your knowledge and passion. Most importantly, take a moment to enjoy a unique reading of the river every time you visit its banks.

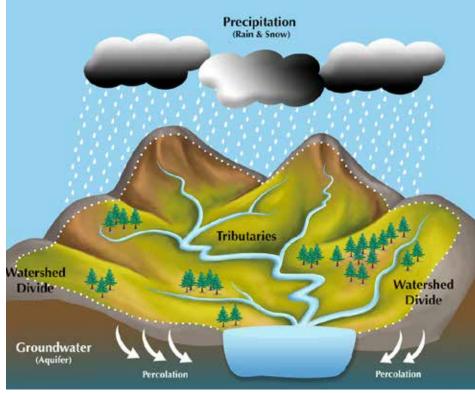
Watershed: an area of land where all the water drains to one place (a.k.a. drainage basin, catchment area)

by Christina Medved, Director of Community Outreach

Watersheds are delineated by topography; ridges are the high points (watershed divide) and streams or lakes are the low points. As it rains and snows on natural groundcover, the water travels through soil (percolation) which acts as a sponge. When underground, it is used up by plant roots or travels into the groundwater supply and eventually makes its way to a waterway at the bottom of the watershed. Precipitation that lands on hard, impervious surfaces like roads and parking lots runs off into a storm drain and into the local waterway.

Anytime you are standing on land, anywhere in the world, you are in a watershed. Get to know your local watershed, because what is on the land is either going to have a positive or negative impact on your local waterway. Keep in mind that vegetated riparian areas and natural groundcover allow precipitation to slow down, be spread out and absorbed into the ground, where plant roots will actually clean and filter pollutants before entering waterways.

The Roaring Fork Watershed is 1,420 square miles, roughly the size of the state of Rhode Island. The headwaters of its three major rivers – Crystal, Fryingpan and Roaring Fork – all begin in



Center for Watershed Protection

designated wilderness areas. What's on the land in these areas? Trees and a diversity of plants with deep roots that help keep our rivers healthy.

Want to "read" your local watershed?

Think about where you are right now and ask yourself the following questions:

- Is there a river nearby and, if so, what's it called?
- Where does it begin?
- What's on the land upstream from you?
- What do you know about the health of this river?

Generally, the health (or impairment) of a river can be determined by what is on the land upstream and adjacent to it. Get to know your watershed and remember, everyone lives downstream. That is why each of us has a responsibility to help keep them clean!

The Keep It Clean West Slope Partners remind you

ONLY RAIN DOWN THE STORM DRAIN!



This beautiful area where we live, play and work are headwaters to rivers AND sources of someone's drinking water.

Find these signs along local rivers reminding us to KEEP THEM CLEAN because many downstream depend on it!

For more information visit www.roaringfork.org/KeepItClean

Below the Surface . . . Stream Health from a Different Perspective

by Chad Rudow, Water Quality Program Manager

When it comes to studying stream health, many people naturally think of studying the water itself. Others might remember that stream banks, called the riparian area, are also important. But how many people consider studying the bottom of a river?

The river bottom, called the stream bed or benthic zone, is inextricably linked with stream health, affecting water movement, water quality, groundwater interactions and even which organisms live in a body of water. Studying these components can provide important insights into the overall condition of a stream.

Physically, the stream bed contains rocks and organic material called substrate. The size and makeup of substrate can be studied to determine stream classification, effects or water movement and influence

can be studied to determine

Stream classification, effects on

water movement and influences

on aquatic life. In addition, some pollutants bind with sediment and thus can be sampled for water quality concerns.

Biologically, the stream bed is home to many aquatic organisms and studying them gives important insights into stream health. Aquatic insects, called benthic macroinvertebrates (macros), are typically found amongst the substrate and can be sample to provide information on nutrient sources, water quality and habitat. They are also a critical link in the food chain. Aquatic plants serve as indicators of stream health, particularly when they are noticeably scarce or overabundant.

Numerous factors can influence the physical, chemical and biological characteristics of a stream bed. Large algal blooms can form due to excessive nutrient loads and coat the stream bed, impacting habitat and depleting oxygen levels critical to aquatic life. Sediment from human or natural causes can settle on the stream bed, smothering habitat and transporting pollutants. In winter, anchor ice can form on stream beds with low flows and negatively impact aquatic life. On the positive side, spring runoff can improve stream health by flushing sediment and pollutants downstream, scouring algae and creating new habitat for aquatic life.

So, what does a healthy mountain stream bed look like from



This simple tool — a 5 gallon bucket with plexiglass bottom — allows researchers to study stream beds (without sticking their heads underwater!).

below? In general, it contains a diverse mix of substrate, aquatic plants and macros, and lacks excessive levels of sediment and algae. Next time you're at the river, study the stream bed or pick up a rock and see what it tells you.



This algae, part of a 2016 bloom in the Roaring Fork River, is Cladophora Glomerata commonly known as "cotton mat" or "blanket weed."

The Three C's of Fish Habitat

by John P. Newbury, Owner at <u>newburyanglingarts.com</u>

Our summer-long runoff has drawn to a close with the rivers and streams of the Roaring Fork Valley dropping to seasonal flows. Lower autumn and winter stream flows allow the wading angler a better opportunity to fish a stretch of the river more intimately than when floating. Whether you float or wade a river, having the skill to "read the water" will put you in front of more fish more frequently.

Learning to recognize where and how fish exploit their habitat will improve your fishing skill set.

"...having the skill to "read the water" will put you in front of more fish more frequently."

water is not complicated if you take into consideration that fish need three things for primary survival: a respite from the **current**, **cover** from above and a **conveyor belt** (current that delivers an abundant food source to trout). These three factors can give you several stream-channel features at which to look. When you find a place with all three elements, you have water worthy of fishing.

Respite from the current can come in a couple of forms physical obstructions and hydraulic dynamics. Trout prefer a current speed in which they can comfortably hold steady while expending the least amount of energy. Look for current rate from a stroll to a brisk walk and a depth of one



to four feet. Fish will hold in much stronger or shallower currents if the bottom rubble is softball to bowling ballsized. Low-pressure gradients occur on the downstream side of rocks – much like how an airplane wing works – which allows the fish to hold with minimal effort.

When looking for fishable water, look for hydraulic features that funnel drifting material into bubble lanes. The best way to find these bubble lanes or current seams is to look for lines of bubbles drifting in single-file lines.





Photos: John P. Newbury

Photo: Steve Goff

Observe how the bubbles and foam always seem to take the same path as they get caught into micro-vortices. That is your indication that the currents are also gathering drifting food into a defined path akin to a conveyor belt.

Adding all three elements together is not hard to do. As you move from pool to pool, look for walking-speed currents flowing over softball to bowling ball-sized cobble that has observable bubble lanes. Then look for other clues as to where the fish might hold nearby while waiting to ambush drifting insects.

Roaring Fork Conservancy promotes stewardship of our rivers through watershed level education, with a mission that inspires us to explore, value and protect the rivers and streams of the Roaring Fork Watershed. Understanding how fish exploit their habitat will help guide you in finding fish and protecting habitats. Keeping the three C's - current - cover, and a conveyor belt - in mind while enjoying your day on the water will make you a better angler and observer, and in turn a better river steward.





2019 Fall & 2020 Winter Speaker Series

October 16, 2019

1,000 miles into the future: 150 years after John Wesley Powell's journey into the arid West

A presentation by:

Tom Minckley, Ph.D., Professor of Geology, University of Wyoming

This summer, 63 scientists, artists, authors, journalists, academics and graduate students spent 70 days retracing John Wesley Powell's 1,000 mile journey on the Colorado River. Expedition leader, Dr. Tom Minckley, will share personal stories about this adventure, what stayed the same or changed since Powell was there 150 years ago, and what the next 150 years will hold for the Colorado River basin if we don't heed his and Powell's on-the-ground observations.

November 12, 2019

Science Be Dammed; How ignoring inconvenient science drained the Colorado, and its relevance to the future of the Colorado River

A presentation by:

Eric Kuhn, Retired General Manager of the Colorado River Water Conservation District and coauthor, with John Fleck, of Science Be Dammed: How Ignoring Inconvenient Science Drained the Colorado River

In 2018, Eric Kuhn partnered with John Fleck, author of Water is for Fighting Over and Other Myths about Water in the West, to write a book about our understanding of Colorado River hydrology. Conventional wisdom is that the compact negotiators did the best they could with a limited gage record that happened to be during a very wet period. Kuhn and Fleck show that contrary to this myth, the politicians, states, and water agencies that shaped the development of the river had the science available to them to make better decisions, but political expedience prevailed and the science was ignored. Today, the Colorado River is overused and facing a future where climate change is reducing its flows. As we shape the future of the Colorado River, will we learn from our past mistakes or will we continue to ignore inconvenient science?

December 12, 2019

Predicting Powder and the Science of Snow with meteorologist Joel Gratz

A presentation by:

Joel Gratz, Founding Meteorologist, Open Snow

Join Joel for a fun and entertaining evening full of snow and science! Joel will present what the latest research says about how far in advance we can predict powder, he'll pinpoint which weather patterns bring the most snow to central Colorado, and he will also take you through a live forecast by showing the same satellite, radar, and weather model maps that he uses to make his daily predictions.

February 13, 2020

Anchor Ice in Mountain Rivers

A presentation by:

Edward Kempema, Ph.D., Senior Research Scientist, University of Wyoming

Anchor ice forms underwater and attaches to the beds of rivers, lakes, and seas in cold regions. It is a fascinating and poorly understood phenomenon. Dr. Kempema, who has studied ice for 40 years, will discuss the conditions leading to anchor ice formation, distribution in small mountain rivers, and impacts on mountain river systems - including winter flooding - and what potential management practices are available.

March 11, 2020

The Amazon River: Facing fears, chasing dreams, and a quest to kayak the largest river from source to sea

A presentation by:

Darcy Gaechter, World Kayaker & Owner/Operator of Small World Adventures in Ecuador

Darcy is the first woman to kayak the Amazon River from source to sea! What did it take for her to make her dream come true? Among stunning scenery and Class V rapids, she also encountered ruthless poachers and narco-traffickers, pled for mercy at the hands of one of the tribe's, and cut her hair to pass as a boy in hopes of saving her life. Darcy will share these stories and more about her 148-day journey down the Amazon River. Her book Amazon Woman: Facing Fears, Chasing Dreams, and My Quest to Kayak the Largest River from Source to Sea will also be available for purchase.

Additional details and registration can be found at www.roaringfork.org/events.



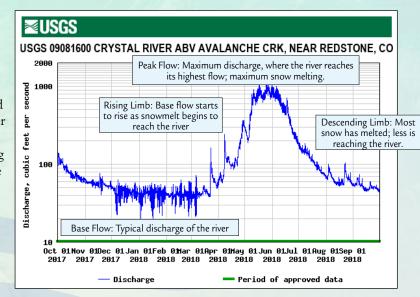
Making the Hydrograph Your Favorite Graph

by Heather Lewin, Director of Watershed Science & Policy

I've been told before that not everyone has a favorite graph, so if you are one of those people still dabbling in pie charts and scatter plots, do I have the graph for you!? The hydrograph will tell you just about everything (ok, maybe not EVERYTHING) you want to know about your favorite river. What is the flow today? Check the hydrograph! What is the base flow? Check the hydrograph! Still seems complicated? Let's break it down.

A "typical" hydrograph in a "typical" water year

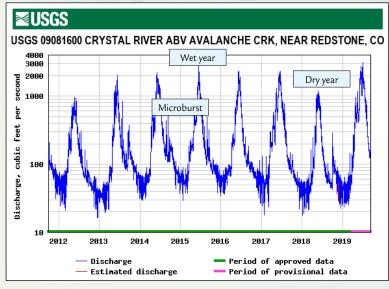
Notice that the river rings in the New Year not on January 1, but October 1. Good idea, river - way to avoid the crowds and cold weather! Well, there may be more to it than that. A water year measures a full year of precipitation, but because most precipitation falls in the winter and melts through the spring and summer, following the Gregorian calendar doesn't make sense. Besides, rivers like to function a bit outside the box. They don't always conform well, no matter how much we continue to try!



Same location, multi-year view

At RFC, we use past and current hydrograph information to assess daily flows for safety and ecological needs, and to compare current to past conditions. Looking at several years worth of data at the same place can tell the story of wet and dry years, fast and slow runoff, and patterns over time, such as shifting peak timing or declining base flows. Hydrographs can also show abnormally high or low flow events, such as microburst or monsoon storms, or ice jam breaks through irregular spikes.

The Crystal River above Redstone is one of the best places in the valley to depict a "typical" hydrograph because it is one of the few places where little water management affects the hydrograph. There are no dams or diversions above this point. The graph typically moves in a smooth curve as snow falls, melts and falls again. But, as many of you know, very little water in the west remains unmanaged. Through reservoirs and diversions, water is put to beneficial use to serve a variety of needs. A managed hydrograph can look quite different.

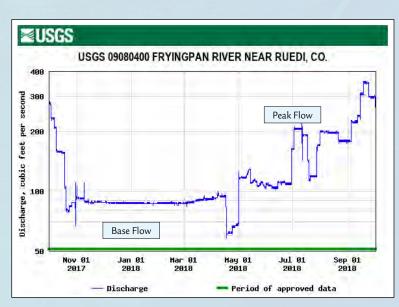


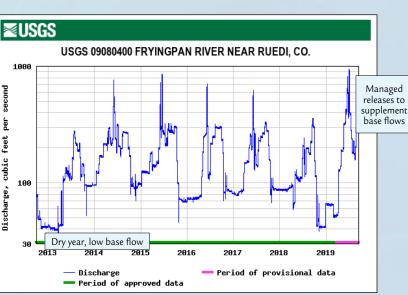
A managed waterway

If we consider a "typical" water year for the Fryingpan River below Ruedi Reservoir, it bares little to no resemblance to the unmanaged hydrograph. The curve depicted at Redstone is replaced by the angular movements of water out of the reservoir. Baseflow remains flat from about November 1 to mid-April. At that point, releases decline – perhaps to match inflow to Ruedi, which is the legal minimum release, or perhaps for human activity such as fish counts or other studies. Flows rise again, and a spring flushing flow takes place in early July. Managing reservoirs with higher flows to mimic the natural hydrograph is important to clean sediments and algae that grow over the winter, and the process benefits the natural geomorphology of the stream. Flows fluctuate through the late summer and fall based on how contract water is allocated - for endangered fish in the "15-Mile Reach," for irrigation in the Grand Valley, or for other uses before returning to base flows in November. Notice the greatest peak on the Fryingpan often occurs in the fall, based on managed flows, rather than in the late spring or early summer when the "typical" hydrograph peaks.

Managed systems in some ways mimic natural systems, and in some ways look quite different. Considering a managed system hydrograph over several years shows management trends over time. Coupled with anecdotal and biological data, lessons of management impacts and benefits are learned.

Sign up for our weekly river and snowpack reports at www.roaringfork.org/your-watershed/river-flows/





Hydrographs, whether natural or managed, tell a story about the river. From wet years to dry years, there is much to learn from flows and timing. Following trends from year to year, and month to month show cumulative impacts of climate change, and even land use and development.

So now that the hydrograph is firmly established as your favorite graph, visit www.roaringfork.org/your-watershed/river-flows and historical hydrographs throughout the watershed!

RIVER CURRENTS ~ Fall 2019 Fall 2019

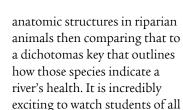
Students Develop Sense of Place & Connection by Reading Rivers and Watershed Maps

by Megan Dean, Director of Education

We are told in school that life is a reading test. In our watershed education programs, we teach students to explore and understand information illuminated in nature, by discovering how to "see" and "read" the patterns that are embedded in our natural surroundings.

One of the ways we teach students to see patterns is by introducing them to a map of the Roaring Fork Watershed. Students learn to see a similar design and pattern between the physical map of our watershed and the gill structure of a macroinvertebrate. Guiding students to observe and read the patterns of nature allows them to understand the interconnectedness between the systems that construct and define our world.

Students learn to read outside the pages of a book when they are identifying





Students gather knowledge by comparing the geomorphology on Coal Creek to that on the Crystal River. Photo: McKenna Miller





Our 5th grade geomorpology program teaches students to read the path of a river based on its geology, gradient and sinuosity.

(continued)

ages delight in the ability to observe a macroinvertebrate breathing through fluttering gills under a brock scope.

Students also learn to read their surroundings in our geomorphology programs which guide them through assessing the biological, chemical and physical health of our rivers and streams.

Our 5th grade geomorpology program teaches students to read the path of a river based on its geology, gradient and sinuosity.

Students gather knowledge by comparing the geomorphology on Coal Creek to that on the Crystal River.

In order to read the layers of our watershed, students often start with activities that allow them to create and explore their own maps.

For example, a fun activity is to crumple a piece of paper then slowly spread it out allowing the new wrinkles to become mountain ridges and valleys. Coloring the ridges with markers allow them to be more visible. Use a water bottle to make it rain and the marker will bleed and flow down into the valleys of the paper map, simulating a real working watershed!

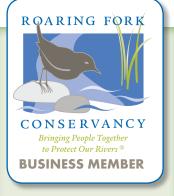
Once students understand the basic components of how watersheds work, they can move onto more complex maps and models taking



Guiding students to learn about river systems through uncovering the biology, geology and chemistry, layer by layer is like creating a book, chapter by chapter. As students progress through grade levels in school, we are there with programs that build and deepen their river knowledge.

their understanding even deeper. The Enviroscape model allows students to become entities of a community, creating both positive and negative effects. They use the model to

simulate how nonpoint pollution flows through a watershed learning how to create landscaping and structural changes to decrease or eliminate pollutants from entering the watershed.



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Thank you for supporting essential river research, education and conservation work!

Looking for a good book to read?

How about one of these, written by two of our upcoming Brooksher Watershed Institute presenters!



Science Be Dammed:
How Ignoring
Inconvenient Science
Drained the Colorado
River by Eric Kuhn
and John Fleck

Available at University of Arizona Press



Amazon Woman:
Facing Fears,
Chasing Dreams, and
My Quest to Kayak
the Largest River
from Source to Sea
by Darcy Gaechter

Pre-order now on Amazon.com



Liza Mitchell served as RFC's education program manager since 2015. She combined her education, research and outdoor experiences to create unique, hands-on programs for thousands of students and created partnerships with agencies and organizations that will remain long into the future. Earlier this year, Liza accepted a Natural Resource Planner and Ecologist position with Pitkin County Open Space and Trails. Thank you, Liza, for your hard work and contributions to RFC. We wish you the best in your new position and look forward to continuing to work with you!

Staff Flows Thank you!



Kristen Doyle has served as RFC's watershed educator since 2017. Among her many talents, Kristen brought her research in fisheries to the education programs and to reigniting a citizen science initiative Hot Spots for Trout last summer. She is also an incredible artist and used her talents to further evolve RFC's art and science education programs both at The River Center and with partners across the Roaring Fork Valley. Kristen recently accepted a position as the Teen Services Librarian at Basalt Regional Library. We wish you the best in your new position and look forward to working with you in your new role!



Michael Schuster joined RFC in 2015 and worked seasonally through May 2019 as a water quality program associate. During this time he earned a Masters in Environmental Management through Western Colorado University and earlier this summer started a full-time position with the City of Glenwood Springs. Thanks to Mike for 4 years of dedicated service and we wish him the best moving forward!



Matthew Anderson returned to RFC for a third summer to assist our watershed science team as a water quality program associate. Matthew is finishing his senior year in the Environmental Science and Resource Management program at the University of Washington in Seattle. Matthew helped conduct water quality program administration, field-work, data management, and conservation easement monitoring throughout the Roaring Fork watershed. Best of luck on your road to graduation!

5TH ANNUAL FLY TYING COMPETITION FEBRUARY I, 2020 * 4 - 10 PM The Tipsy Trout, Basalt, CO Details can be found at roaringfork.org/events



What's with the Gray Bird?

The little gray bird in the RFC logo is called an American dipper (Cinclus mexicanus), also known as a water ouzel. It lives along healthy mountain streams which provide abundant macroinvertebrates (e.g., aquatic insects) for them to eat, along with diverse, undisturbed riparian habitat.

Look for a dipper the next time you are out on the river. Often found in the fastestmoving section of the river, you can see them standing and "dipping" on a rock, and then suddenly they dive into the water! They swim for short segments in search of the aquatic insects they find so delicious.

Seeing dippers in our local streams lets us know in a quick snapshot that the stream food web is healthy, as the macroinvertebrates they eat are also indicators of healthy streams.



Bringing People Together to Protect Our Rivers®

The American dipper continues to remain the perfect "mascot" for RFC - a champion of, and constant presence in, healthy streams of the Roaring Fork Watershed.

the Fryingpan River

Teach Your Children to Read the River with Dee Dee the Fryingpan River Dipper

You can help teach your children, grandchildren, nieces, nephews and friends how to read the river by introducing them to Dee Dee, an American dipper!

Follow Dee Dee's adventures in the Fryingpan River, then use the five-page River Journal in the back of the book for your own exploring.

Illustrated by 4th graders at Basalt Elementary and written by RFC staff, children and adults of all ages will enjoy and learn from this book (though

it is primarily intended for elementary-aged students). Dee Dee the Fryingpan River Dipper may be purchased at The River Center in Basalt.

Learn more at www.roaringfork.org/education-and-outreach/american-dipper-childrens-book/

RIVER CURRENTS

inspired people to explore, value and protect the Roaring Fork Watershed. We bring people and work to keep water in the streams, monitor water quality, Roaring Fork Conservancy is an independent 501(c)(3) not-forprofit organization registered in the state of Colorado.

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When you donate to Roaring Fork Conservancy at <u>ColoradoGives.org</u>, you help us bring people together to protect our rivers, monitor water quality, preserve riparian habitat, and educate the next generation of river stewards.

From all of us at Roaring Fork Conservancy, thank you for your support!

<u>Colorado Gives.org</u> is made possible by Community First Foundation and FirstBank.

Christina Medved

From: christina@roaringfork.org Friday, March 27, 2020 6:40 PM Sent:

To: Christina Medved

Subject: SPAM - March River Notes | Meet The Feather Thief author, Snowshoe Capitol Creek

Ranch, Learn to Fly Fish



March 2020













Snowshoe Capitol Creek Ranch

Monday, March 9

Join Pitkin County Commissioner Steve Child and staff from Pitkin County Open Space and Trails and RFC, on snowshoes through the Capitol Creek Ranch riparian area. We'll wander past beaver ponds and through aspen forests while exploring the history of the property.

Capitol Creek Ranch, an iconic property that is protected by conservation easement within the Pitkin County Open Space and Trails program, was originally owned by the late Bob Child who was



integral in many significant conservation efforts in the Roaring Fork Valley starting as early as the 1960s.

This FREE program requires **REGISTRATION** before 12pm on Monday, March 9.

This FREE program is brought to you by Pitkin County Open Space and Trails.



Wednesday, March 11, 2020 - 5:30-7:30pm

The Amazon River: Facing fears, chasing dreams and a quest to kayak the largest river from source to sea

A presentation by:

Darcy Gaechter, World Kayaker, Owner/Operator of Small World Adventures in Ecuador, and Author

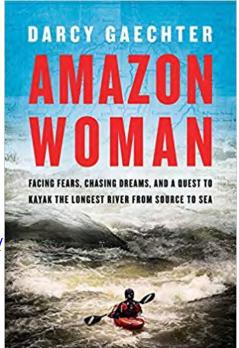
Darcy is the first woman to kayak the Amazon River from source to sea!

What did it take for her to make her dream come true? Among stunning scenery and Class V rapids, she also encountered ruthless poachers and narcotraffickers, pled for mercy at the hands of one of the tribe's, and cut her hair to pass as a boy in hopes of saving her life.

Darcy will share these stories and more about her 148-day journey down the Amazon River. Her book *Amazon Woman: Facing Fears, Chasing Dreams, and My Quest to Kayak the Largest River from Source to Sea* will also be available for purchase.

This program is FULL!

Join the wait list at www.roaringfork.org/events/



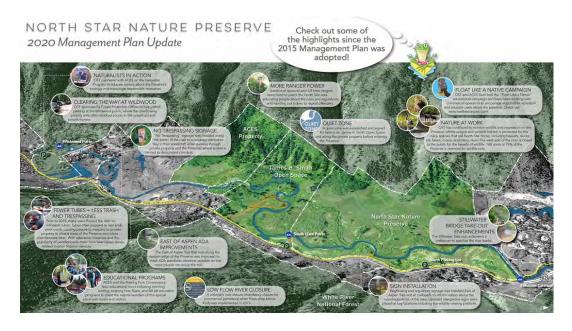
Save the date for this upcoming Brooksher Watershed Institute:

April 9 - The Feather Thief author Kirk W. Johnson (details at roaringfork.org/events)

Pitkin County Seeking Comments

North Star Management Plan Open to Public Comment

The 2015 North Star Nature Preserve Management Plan is the focus of an update in 2020. The draft update is open to public comment through April 1. Find links to the draft plan, an executive summary of the plan and a survey to collect public feedback at https://www.pitkinostprojects.com/north-star-management-plan.html



Adults: Learn to Fly Fish! Register NOW for 1-day Clinics

Learn to fly fish from the river experts! Spend a day with RFC staff and certified fly fishing instructors to learn the secrets of the river. We'll observe fish habitats, identify aquatic insects and trout species, demystify artificial fly paterns and which fly to use, learn to cast, and then... fish all afternoon! We'll even provide breakfast refreshments and lunch.

May 2: Women's Only Fly Fishing Clinic
May 9: Beginner Fly Fishing Clinic (co-ed)

Register soon as these clinics fill quickly (and space is limited)!



Registration and additional details can be found at http://www.roaringfork.org/events/.

Education Update:

Snow Science Programs

RFC educators have been deeply entrenched in Snow Science programs since the beginning of this year. Students ranging from 4th graders to adults have enjoyed learning and playing in the beautiful snow that contributes 80% of the water feeding our rivers.

Our *Snow to Flow* program on McClure Pass, in partnership with <u>Natural</u> Resources Conservation Service and hosted by <u>The Marble Hub</u>, guided participants through the science behind



studying snow pack. We helped unlock the mystery of how to measure the amount of water snow holds and how water managers use this information to make crucial decisions on water use.

Both adults and school age students enjoy digging snow pits and learning about snow water equivalent with hands-on activities. Students tell us one of the favorite activities is sculpting our watershed in the snow!

Learn more about our Snow Science programs or schedule one with Megan Dean, director of education, at megan@roaringfork.org.

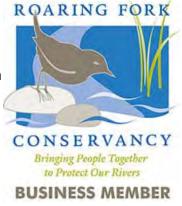
Attention Business Owners!

Clean, reliable water keeps business booming!

Did you know anglers, hunters, and wildlife watchers spent **\$144.7** billion on activities nationwide in 2011?*

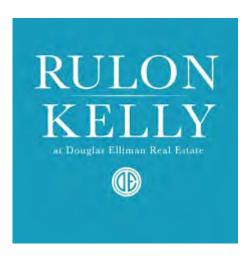
In the Roaring Fork Valley, the economic impact of angling on the Lower Fryingpan River alone is \$3.8 million annually, according to a 2014 economic study.**

Show your clients and customers that you support essential river research, education, and conservation work.



Click HERE to become a 2020 Business Member TODAY!

March's Spotlight Business Member:



The Rulon Kelly Team

at Douglas Elliman Real Estate

<u>The Rulon Kelly Team</u> brings together four full-time Aspen Snowmass Realtors in a unique blend of talent that works under the belief that a team always outperforms an individual effort. Sharing collective ethical standards, operating with honest communication, and working with a collaborative approach, each member brings their individual expertise to the table to create better solutions as a team.

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Thank you for helping protect our rivers and streams!

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Bringing people together to protect our rivers

P.O. Box 3349, Basalt, Colorado 81621 (970) 927-1290 www.roaringfork.org

Roaring Fork Conservancy is a 501(c)(3) not-for-profit organization. Our tax identification number is 84-1375379.

Donate online by clicking <u>here</u>.



Care march 20, 2020

Summary: Snowpack in the Roaring Fook watershed is at 113% of normal for this time of year. The vett, spring snow we received over the last week increased the snow water equivalent (SWE) at all SNOTEL sites over the last week, with Schofdel Pass reporting the greatest increase of 2.3 inches. Cold overright temperatures especially in the high country are keeping the water forces as snow so we are not seeing higher steram flows due to omelting, just yet, but it will hopefully translate to good flows this spring and summer. According to the Bureau of Reclamation, Roudil Recervoir releases will increase by 90 cfs today, bringing flows on the Flyingpain River to 185 cfs where it will remain for the near future.





Station information for each stream gage and SNOTEL site can be found at http://www.coampflork.org/your-watershed/inter-flow/Snowcoach data accurred from NSCS.

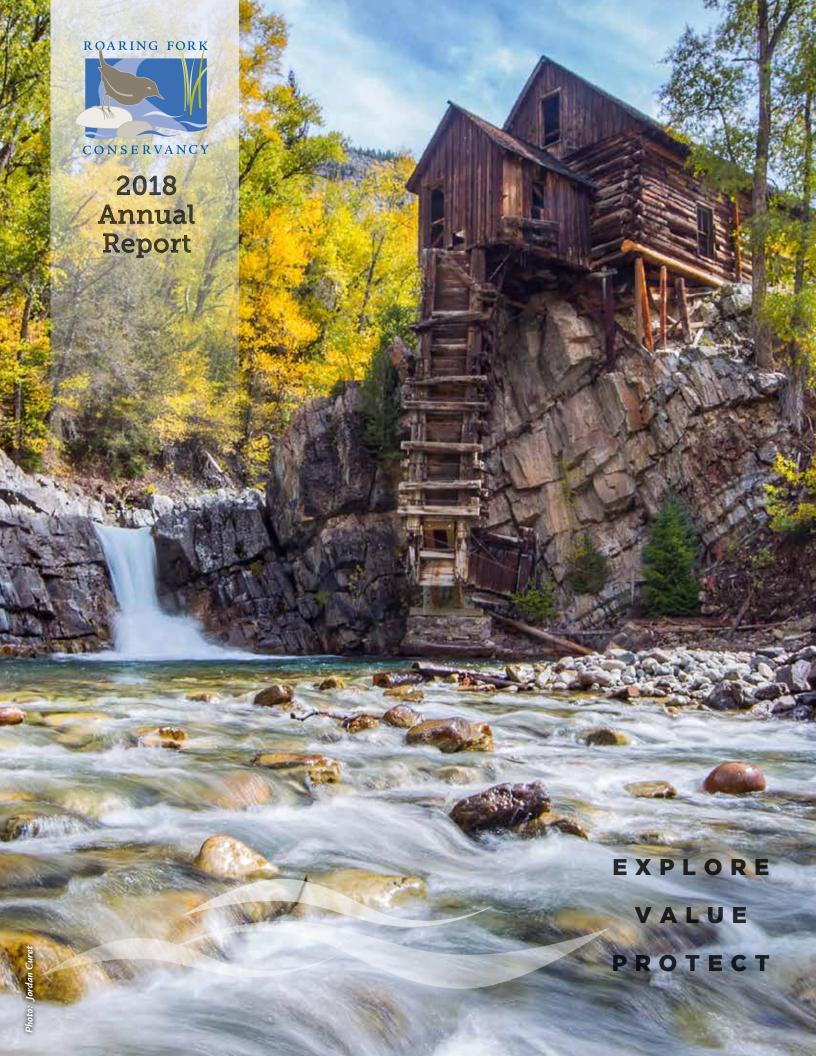
Stream flow data acquired from USGS.

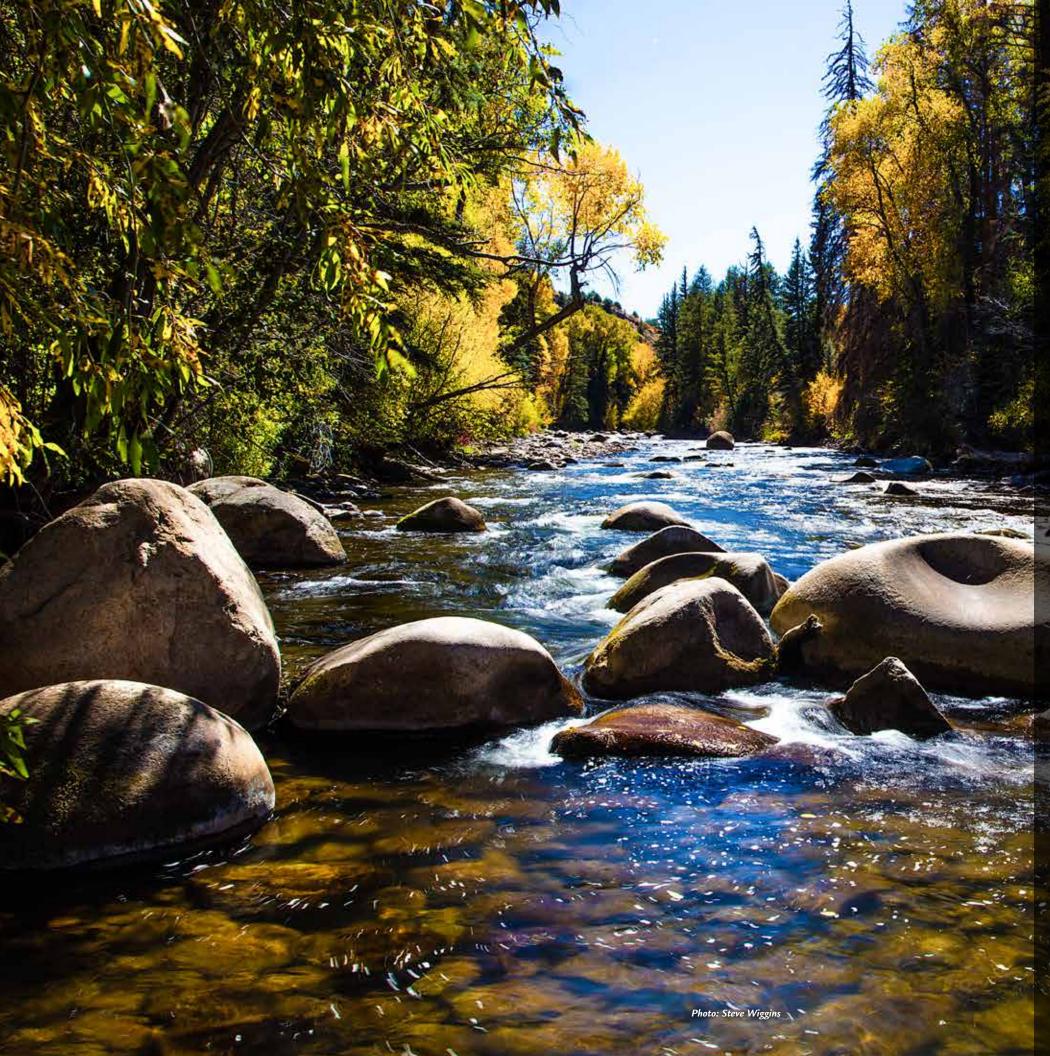
* Storzendow Gago

SWE - Snow Water Equivalent (includ) rendian - median SWE for this date (%) of a cubic feet per second renam - mean (average) of s for this date (SF - CNCE information water right of G Flore & Securptal & Colors (% of median in mean) Blue = above 1,50% Tool = 130,140%

- 110-179% Cress - 96-609% - 70-59%

Grange = 30-07% Red = below 50% Gran = items/ficient data





Message from Board President and Executive Director

Looking back, 2018 may have been the most memorable in Roaring Fork Conservancy's (RFC) 22-year history. This year brought so many changes for our organization. Some were positive and exciting, while others were stressful and

The biggest change was our move from a small corner office to The River Center. The River Center empowers us to fulfill our mission at a higher level, with education programs in the classroom and at the river, water quality testing in our laboratory, and more space to collaborate with our partners - always with a view of the river that brings us together. At the grand opening reception in August - as Governor Hickenlooper and his staff addressed the community and celebrated the Colorado Water Plan and its impacts in the Roaring Fork Valley - we were still in awe that the vision of The River Center was truly a reality.

Now, we are seeing that vision come to fruition beyond the physical building, as we embrace and grow into the endless potential of our new home.

On the other hand, a near-record low snowpack was followed by a hot, dry summer, leading to extremely low river flows and elevated river temperatures. A week after moving into The River Center, the Lake Christine wildfire started less than a quarter mile from our front door. But as Paulo Coelho said, "You drown not by falling into a river, but by staying submerged in it." So we fought our way to the surface, took a big breath, and enacted programs to raise awareness and support stressed river ecosystems. Our most successful program, the Hot Spots for Trout voluntary fishing closure, gave fish a break during the hottest part of the day by encouraging anglers to hang up the rod and waders from 2pm to midnight.

RFC has spent the past 22 years bringing people together to protect our rivers. As we move into our next 20+ years, we are inspired to continue and grow this mission. The River Center enables us to bring visionaries, researchers, policy-makers, elected officials, and community members together to discuss water issues and share ideas from the local to national level.

We hope you are excited and encouraged as your read through our 2018 accomplishments. If you have not had a chance to visit The River Center, we invite you to stop by for a tour.

Your ongoing support and engagement makes all our work possible. Thank you!



Pat McMahon President, Board of Directors



Parminaha Zul Jul Sn

Rick Lofaro **Executive Director**



On June 29, Roaring Fork Conservancy (RFC) staff officially moved into The River Center. This long awaited event was surrounded by excitement, anticipation and boxes. Lots of boxes. However, just four days later the excitement gave way to apprehension, as we evacuated The River Center when the Lake Christine wildfire ignited less than a mile away. When we were allowed to cross the evacuation barriers a few days later and return to the office, the tone, energy and focus of the summer was very different.

Subsequently, RFC received a call from Scott Fitzwilliams, U.S. Forest Service (USFS) Forest Supervisor, asking if RFC would take on the coordination of long-term post-fire restoration and fundraising. Fitzwilliams explained that he and Perry Will, Colorado Parks and Wildlife (CPW) Area Wildlife Manager, had identified RFC as a trusted organization with good-standing relationships among the varied jurisdictions whose scope overlapped the full burn area. RFC was honored to be chosen to fill this role and has since hosted a series of meetings, bringing together officials including USFS, CPW, Natural Resource Conservation Service (NRCS), Town of Basalt, Eagle County and Garfield County. The inaugural meeting was the first opportunity for representatives of these varied groups to gather in one place to discuss their long term roles in the post-fire restoration.

As demonstrated by the Lake Christine wildfire, RFC's tagline of "bringing people together to protect our rivers," is more applicable now than ever. In addition to uniting leadership from affected communities, RFC has also broadened the scope of our Science & Policy Program and now serves as a hub and coordinating entity for a variety of watershed projects.

On the Crystal River, we continue to work towards implementation of the Crystal River Management Plan, partnering with the Town of Carbondale, American Rivers, Aspen Valley Land Trust and others to pilot restoration projects at Riverfront Park and ditch efficiencies on the Weaver Ditch.

On the Fryingpan River, we were able to work with the Colorado Water Conservation Board, Colorado River Water Conservation District (River District) and Ruedi Water and Power Authority to help manage reservoir releases to increase benefits to local streams. This summer, when the Roaring Fork River was running low with precariously high temperatures (see Hot Spots for Trout on page 14), the River District was able to coordinate reservoir releases so that water continued to flow from the Fryingpan into the Lower Roaring Fork, reducing stream temperatures and elevating base flows to help flush any potential sediment pulses from the Lake Christine wildfire. RFC also worked to orchestrate a lease of 3,500 acre feet of River District contract water, stored in Ruedi Reservoir, to benefit winter base flows. The intent is to minimize anchor ice formation and impacts to benefit aquatic life. Releases began December 29, 2018.

Using the River Center as an anchor and a catalyst, the Science and Policy team will continue to nurture relationships, bring people together and think ahead so that when future environmental challenges occur in the Roaring Fork Valley, affected communities can continue to rely on RFC's expertise and established partnership infrastructure.



BLM Property

RFC identified a water quality and riparian habitat concern on Bureau of Land Management (BLM) property along Cattle Creek. After submitting a letter of concern to BLM proposing a site cleanup and protection from future degradation, the action was approved and implemented.

Fryingpan River

Worked with Colorado River Water Conservation District's coordination of reservoir releases to increase the flows into the Fryingpan River midsummer to benefit Roaring Fork River temperatures and base flows.

City of Glenwood Springs

Reviewed plans and submitted comments to inform elected officials on potential impacts to rivers, riparian areas and stormwater management for the City of Glenwood Springs proposed redevelopment of a brownfield site within City limits near the confluence of the Roaring Fork and Colorado Rivers.

In addition, Glenwood Springs River Commission and RFC developed and proposed Riparian Setback Regulations to Glenwood Springs City Council. RFC submitted comments and attended a work session to support the regulations, explain the importance of riparian areas and provide the science behind the proposed regulations.

County Line Project

Submitted a comment letter to the U.S. Forest Service regarding the proposed County Line Project in the Fourmile Creek, Thompson Creek and Crystal River watersheds. Primary goals of the project are to improve forest health and recreation opportunity. RFC's comment letter encouraged protection of stream and riparian health and related use of best management practices throughout the project.

Ruedi Reservoir

Coordinated the lease of 3,500 acre feet of Colorado River Water Conservation District contract water stored in Ruedi Reservoir to enhance winter base flows on the Fryingpan River and benefit aquatic life. The lease was funded by the Colorado Water Conservation Board's Stream and Lake Protection Program.

Roaring Fork Watershed Plan

Re-engaged numerous public, private and non-profit entities in the update of the Roaring Fork Watershed Plan through the first Roaring Fork Watershed Summit. The goal of the revision is to track progress, streamline, provide clarity, improve accessibility and update any information that is no longer relevant.

Crystal River

RFC hosted a Restoration Workshop on the Crystal River, and from that created a working group to analyze and prioritize restoration potential, feasibility and benefit.

Lake Christine Wildfire

Assembled and led meetings with the Lake Christine Technical Advisory Group to support communication between active agencies and facilitate long term restoration planning and projects.

The River Center: A Great Field

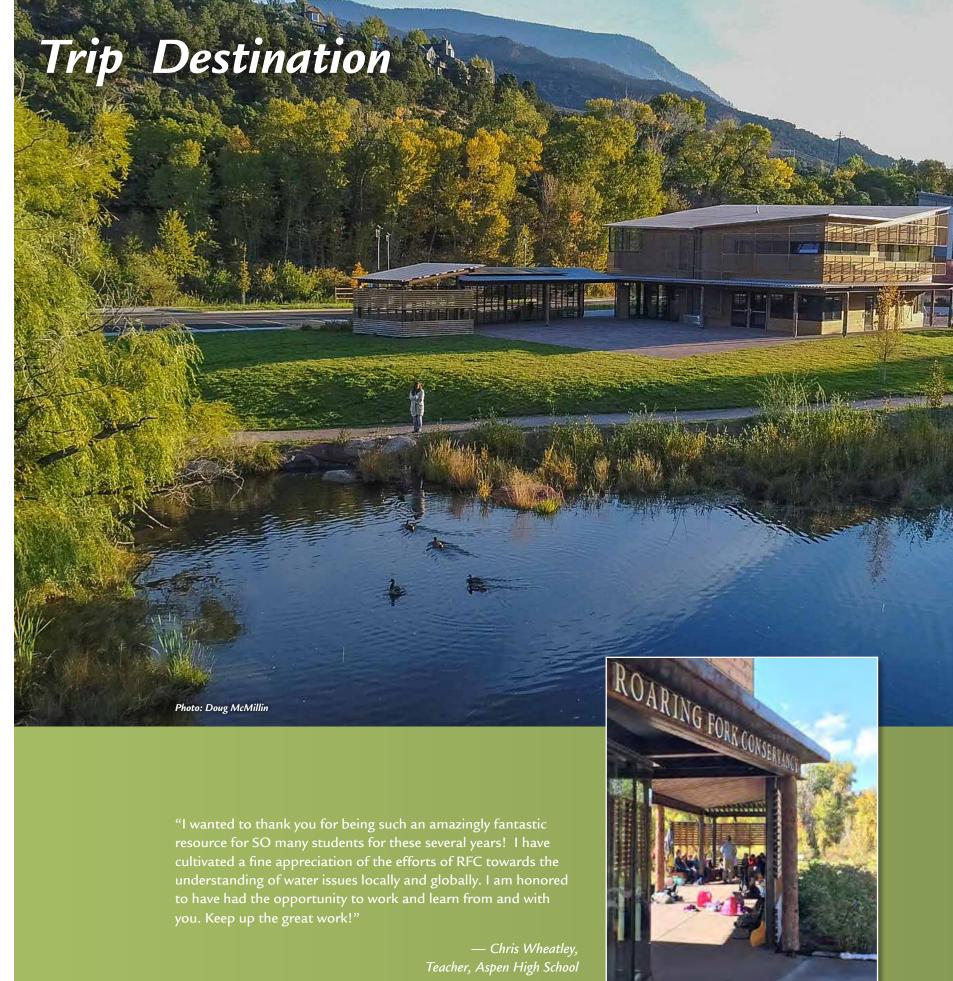
The River Center officially opened on August 10, 2018, and that very same week dozens of youngsters entered its doors for the first time to participate in RFC's Water Education programs. We didn't stay inside for long! The beautiful summer weather and the nearby Roaring Fork River beckoned us outside to explore, discover and learn together. In the first five months, The River Center welcomed over 700 youths from schools, clubs and camps to our stunning new facility. Nestled between the Lake Christine State Wildlife Area, the Roaring Fork River, Old Pond Park, and downtown Basalt, the setting facilitates authentic learning. It's the perfect place for a fun-filled, educational field trip!

There are endless opportunities for hosting groups of all ages and levels of curiosity here. The indoor classroom space provides flexibility and options when the weather prevents outdoor exploration; it can also be used as an area to discuss scientific protocols before taking our water quality or macroinvertebrate equipment outdoors for some riverside lab work. On a tour around the pond and to the river we can

provide positive outdoor experiences that connect people to their environment as we explore healthy riparian habitat, watch the river flow and see signs of wildlife all around. We use the surrounding topography and the basin-like shape of The River Center's roof to help define and teach about watersheds. And, by pointing to nearby hillside that was burned in the Lake Christine wildfire, we can begin a discussion on RFC's holistic approach to protecting rivers—whatever happens on land has the potential to impact rivers.

The energy and enthusiasm continues to grow around the education programs at The River Center. We are reaching new audiences, developing new partnerships and revamping our curriculum throughout this first year in our new home. We strive to enhance our water education while continuing to provide relevant, engaging programs. Our best inspiration comes unsolicited, directly from the mouths of our students. One student on a field trip to The River Center this fall was overheard shouting to his classmates that this was "way better than science class!"



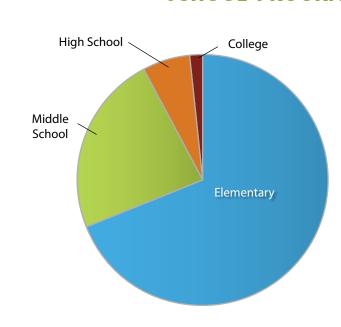








SCHOOL PROGRAMS



Roaring Fork Conservancy educators taught

213 river and watershed related school programs reaching

4.249 STUDENTS

2,930 Elementary School students

989 Middle School students

26 High School students

69 College students

NEW IN 2018

303 students were read RFC's first children's book Dee Dee the Fryingpan River Dipper and participated in a corresponding art and science program.

362 local middle school students learned about watersheds and then floated on our local rivers, for the first time, through RFC's Youth River Stewardship Project.







EDUCATION IMPACTS

Roaring Fork Conservancy educators taught **276** education programs making over **6,250** contacts in 2018!

COMMUNITY EDUCATION

- 24 Watershed Exploration opportunities were offered in 2018, including river floats, hikes through riparian habitats, water diversion project tours, snowshoe hikes, and excursions to view fireflies in rare thermal wetlands.
- **421** Participants in 2018 Watershed Explorations.











TEACHER & COMMUNITY PROFESSIONAL DEVELOPMENT

- **28** Teachers and volunteers trained in the National Fishing in Schools Program.
- 25 Participants in our 1-day Women's Fly Fishing Clinic and 1-day Adult Beginner Fly Fishing Clinic.
- 1st year raft guides received River Ecology Interpretation training.











Fryingpan River Cleanup

The 20th Annual Fryingpan River Cleanup drew over 160 residents and visitors to pick up trash along 14 miles of road adjacent to the Fryingpan River, the Roaring Fork River through Basalt, and Lake Christine. These committed, hard-working volunteers showed up in frigid temperatures after a fresh snowfall, helping ensure healthy Gold Medal waters in Basalt.

Annual River Float

The best way to learn about the river, is to get on it! Since 2004, RFC has hosted an annual river float to teach participants about the local wildlife, water issues, riparian habitat, and point out a few of our conservation easements along the way. This year we had over 150 people participate in the float, BBQ lunch and festivities.

Western Colorado Outdoor & Sportsman Expo, Fly Fishers International Fly Fishing Show

Over 100 people learned first-hand about RFC's science, policy and education programs when they stopped by our booth at the first Western Colorado Outdoor and Sportsman Expo in Eagle and Fly Fishers International Fly Fishing Show in Montrose. These new venues gave us an opportunity to share ways outdoor recreationists can protect rivers, and recruit new RFC members and Watershed Exploration participants.

River Center Grand Opening

Over 300 people from across
Colorado attended The River Center
Ribbon Cutting Ceremony and
Grand Opening Festivities in August.
Friends, family, donors, local elected
officials, Governor Hickelooper,
Former Governor Ritter and Chairman
of Colorado's Interbasin Compact
Committee John Stulp were among
those who celebrated with us.

Wetland Restoration Project

Crooked Creek Volunteer

RFC partnered with Roaring Fork Outdoor Volunteers, Wilderness Workshop, and the United States Forest Service on the 2018 Crooked Creek Volunteer Wetland Project. This was the third and final phase of a wetland restoration project in the headwaters of the Fryingpan River Valley near Crooked Creek Reservoir. Approximately 45 staff and volunteers planted hundreds of wetland plants, spread native seed, and hauled rock over a work weekend.

Russian Olive Removal

For the second consecutive year, RFC worked with students and staff from Colorado Rocky Mountain School to identify and remove Russian Olive trees (an invasive species) from the campus, riparian areas and agricultural fields. The removal of these trees will help improve riparian habitat and diversity.

Rain Barrel Workshop

With collaboration and sponsorship from the City of Aspen, RFC taught 13 Pitkin County residents about rainwater harvesting, rain barrel installation and maintenance, rain barrel regulations in accordance with Colorado Water Law, and went home with an installation-ready rain barrel.

Qualified Water Efficient Landscaper Certification

RFC partnered with the City of Aspen to develop and teach Colorado's first Qualified Water Efficient Landscaper (QWEL) training. QWEL is an Environmental Protection Agency WaterSense professional certification program teaching participants about water efficient and sustainable landscapes, especially in the arid west.

River Stewards

RFC's River Stewards, a volunteer group of young professionals, spearhead community engagement events to inspire young river enthusiasts to explore, value and protect the Roaring Fork Watershed. Events in 2018 included:

- Engaging diners with fly casting demonstrations and tips at Aspen Skiing Company's Farm to Table Dinners at Elk Camp in Snowmass
- Hosting the RFC display and Water Wheel of Trivia at the Fly Fishing Film Tour in Aspen
- Supporting RFC's Annual River Float

Hot Spots for Trout:

The year 2018 may be remembered as one of the most intense drought years in over a decade, characterized by minimal snowpack and precipitation, hot temperatures, low stream flows and the Lake Christine wildfire. These conditions affect water quality of streams, including significant and reverberating impacts from increased water temperatures. As flows decrease, water temperatures rise, a trend which becomes more dramatic as flows drop lower and lower.

Warm temperatures can cause significant stress on aquatic organisms such as fish and insects. Rising stream temperatures decrease the amount of oxygen water can hold, but increase the oxygen required by aquatic species to maintain bodily functions.

In response to these concerns, RFC revamped a citizen science project originally introduced in 2012— Hot Spots for *Trout* — to monitor local stream temperatures. Between June and September, 63 volunteers collected 280 temperature measurements on streams and rivers throughout the Roaring Fork Watershed! Data was submitted via cell phone app or online at CitSci.org, a citizen science platform created by Colorado State University. This information allowed RFC to gather watershed-wide data and identify areas of concern. RFC water quality staff then installed temperature loggers at four of these areas along the lower Roaring Fork and Crystal Rivers. These loggers collected and stored stream temperature measurements every half hour, 24 hours a day, throughout the summer. Staff downloaded data weekly to monitor temperature levels and shared this data with Colorado Parks and Wildlife (CPW).

Measurements submitted by *Hot Spots for Trout* volunteers, combined with RFC's rigorous temperature logger data, helped develop a detailed picture of temperature levels and fluctuations throughout the watershed – air temperatures of 90°+ from Glenwood Springs to Aspen and river flows at 1/3 to 1/6 of average combined to elevate water temperatures to a concerning level. RFC worked closely with the Roaring Fork Fishing Guide Alliance and CPW hosting weekly conference calls discussing responses to these conditions. As a result, a new voluntary fishing closure from 2 PM to midnight was initiated, giving the trout a break during the hottest part of the day. Support and participation from the commercial fishing industry and the angling public at large was integral to the program's success.

This project highlights how data can drive action and collaboration, leading to meaningful protection for local streams and the lives that depend on them.











Cattle Creek

This was the fourth consecutive year RFC conducted targeted biological and chemical water quality monitoring on Cattle Creek. This data has new importance, documenting baseline conditions prior to possible Lake Christine wildfire impacts, which burned in Cattle Creek headwaters.

In 2018, RFC continued to address the health of Cattle Creek with funding from Garfield and Eagle Counties. Water quality and stream flows were measured throughout the year at three sites, documenting the lowest flow conditions since the study began. Macroinvertebrate samples were collected above and below a newly installed diversion

structure on Lower Cattle Creek to help understand its impacts on macroinvertebrate populations.

In effort to continue to engage the community and improve creek health, RFC and Garfield County hosted a stakeholder meeting to present study updates and provide riparian and septic system best management practices. RFC also partnered with the Bureau of Land Management (BLM), Garfield County, and Rocky Mountain Youth Corps to conduct a trash cleanup and fence pull on BLM property along Middle Cattle Creek. In total, 2,260 pounds of trash, debris, and fencing were removed from the property!

Fryingpan River

For the fifth consecutive year, RFC surveyed the levels of the algae *Didymosphenia geminata* (a.k.a. didymo and rock snot) levels in the Fryingpan River. Surveys of Didymo stream bed coverage and basic water quality monitoring were conducted at 7 locations in the spring, summer and fall.

RFC maintained temperature loggers at 3 sites along the Fryingpan River. These loggers have operated yearround since 2013, providing 5 years of continuous water temperature data.

Water Quality Accomplishments

Partnered with volunteer Stream Teams to conduct regular water quality monitoring at 22 Roaring Fork Watershed sites, which included 106 sampling events and 15 volunteers working a combined 148 hours.

Upgraded to a new multi-parameter sampling instrument, with funding from Aspen Skiing Company's Environment Foundation, to enhance RFC's continuing efforts to monitor the health of streams and rivers throughout the Roaring Fork Watershed.

Assisted with the annual statewide training of over 60 new Colorado River Watch participants in water quality monitoring protocols and measuring in-stream properties.

Moved into the new Water Quality Lab in The River Center. This significant upgrade to RFC's water quality program is utilized as a staging area for field work, classroom for water quality lessons, and laboratory for processing and analyzing samples by staff and Stream Team volunteers.





Water temperature logger



Gifts and Contributions

Roaring Fork Conservancy acknowledges our generous donors and program sponsors. Your contributions enable us to continue our watershed education programs, science and policy work. Thank you for ensuring our work will continue for many years.

\$100,000+

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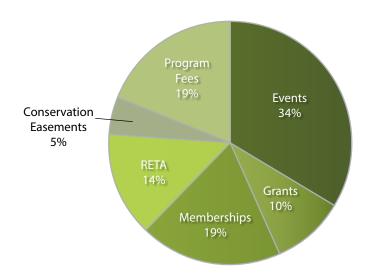
In Memory of LeRoy & Martha Waterman **Judith & Nick Huston**

To make a tax-deductible contribution please visit www.roaringfork.org/donate or contact Sheryl Sabandal, Development Manager at (970) 927-1290 or sheryl@roaringfork.org.

2018 Financial Summary

Roaring Fork Conservancy

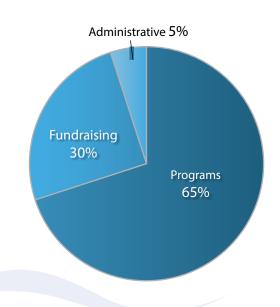
2018 OPERATING REVENUES



Total	\$1,103,458
Program Fees	204,170
Conservation Easements	52,414
RETA	155,018
Memberships	212,760
Grants	109,300
Events	\$369,796
2018 Revenues	

2018 OPERATING EXPENSES





Roaring Fork Conservancy is an independent 501(c)(3) not-for-profit organization registered in the state of Colorado. Roaring Fork Conservancy donor records are not sold, exchanged, or provided to any outside organization in any way.

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ROMING FORK WATERSHED

Uncredited photographs provided by Kristen Doyle, Christina Medved, Liza Mitchell, Chad Rudow and Michael Schuster.

In honor of our 2018 River Center Grand Opening, RFC partnered with local artist, storyteller and environmental advocate, Sarah Uhl, to create a story map of the Roaring Fork Watershed. More accessible than a topographic map, this piece of art is incredibly accurate, thanks in part to aerial tours of the watershed with EcoFlight. It features the "important places" of the Roaring Fork Watershed - the rivers, tributaries, lakes, reservoirs, mountain peaks, towns, and iconic landmarks that are all inexorably linked within our watershed.

The original story map is on permanent display at The River Center, but if you want to show some pride in the Roaring Fork Watershed, make a \$35 donation to RFC and receive a 12" x 16" print as a thank you gift.



ROARING FORK CONSERVANCY

The River Center · 22800 Two Rivers Road · Basalt, CO 81621

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Since 1996, Roaring Fork
Conservancy has inspired
people to explore, value, and
protect the Roaring Fork
Watershed. We bring people
together to protect our rivers
and work to keep water in the
streams, monitor water quality,
and preserve riparian habitat.

As one of the largest watershed organizations in Colorado, Roaring Fork Conservancy serves residents and visitors throughout the Roaring Fork Valley through school and community-based Watershed Education programs and Watershed Action projects, including regional watershed planning, water resource policy, and stream management and restoration initiatives.



Bringing People Together to Protect Our Rivers®

www.roaringfork.org 970.927.1290





Message from Board President and Executive Director

The year 2019 was one of rejuvenation and celebration in the mountains, rivers and streams of the Roaring Fork Watershed. Following a record drought year in 2018 the winter of 2018/2019 was really winter, with abundant snowfall and sub-freezing temperatures enduring for weeks. The freeze/thaw cycle in late December and early January was active and ice jam releases were dramatic and frequent on the Roaring Fork River. On January 4, two separate ice jam releases roared through Basalt. The Fork surged and increased for a short time by nearly 700% (from approximately 200 cfs to 1,400 cfs) as a torrent of ice, wood and debris filled the river channel. The community rallied around this incredible natural occurrence, lining the bridges and high banks to watch the ice roll through. Roaring Fork Conservancy (RFC) rallied around the science, education and safety concerns with ice jam releases. In collaboration with local emergency management agencies and the National Weather Service, a system was developed to predict releases, inform the public and send text and email alerts when ice jam releases were expected. One week later, a group of anglers reported receiving a text alert and exiting the river safely prior to an ice jam release.

Winter held on; the snow kept coming. Skiing was phenomenal, persisting well beyond expectation and the season

extended into June. Avalanches let loose throughout the Western slope in record numbers, several of which closed mountain highways for days and even weeks. The much-anticipated runoff arrived a few weeks later than expected but lasted for many weeks. The river was full, the Lake Christine burn scar and surrounding landscape was as green as Ireland, and water was abundant. Big whitewater was celebrated by boaters into the summer, and by mid-summer floating and fishing was as good as ever. The watershed rebounded robustly in this time of plenty and the river demonstrated its resilience.

The river's resilience and longevity no longer occur by chance, solely based on natural phenomenon and cycles. The endurance of the river requires a community who is vigilant - watching, listening, and acting with the river in mind.

In time, we hope RFC will continue to show the same resilience and longevity as the river. As we enter our third decade firmly established in The River Center, we continue to be the voice for the river and an asset to the community by continuing our outstanding educational programs, growing our science and policy work, and steadily monitoring the health of our rivers year in and year out. We're here to stay - and we hope you are too.

Your ongoing support and engagement make all our work possible. Thank you!



Pat McMahon President, Board of Directors



Parminaha Pulshos

Rick Lofaro **Executive Director**

There are three main categories for studying stream health: water chemistry, physical habitat, and biology. Within those categories many parameters can be measured, and the best overall picture of stream health comes from analyzing components of all three. One way to assess the biology of streams is by studying aquatic insects, worms, and crustaceans, known as macroinvertebrates (macros). These small organisms serve as valuable indicator species because they have long aquatic life stages where they are continually exposed to many components of stream health (such as temperature changes, dissolved oxygen levels and pollutants). The presence, absence, and diversity of macros provide important insights to stream health over time.

Macro samples are collected from the streambed, preserved, and sent to a laboratory where they are counted and identified. In many cases, samples contain hundreds or even a thousand specimens. This data reveals diversity and density of macro communities and a reflection of water quality.

RFC makes use of macro data in a variety of ways: they are periodically collected watershedwide as an overall indicator of stream health and utilized in targeted studies to examine changing health along a stream or in response to changing conditions. Often, RFC's macro data is also submitted to the Colorado Water Quality Control Division for their statewide assessments of stream health.

This fall, RFC staff collected macro samples from the Fryingpan River as part of RFC's ongoing Comprehensive Fryingpan River Assessment. Learn more about this study at

www.roaringfork.org/your-watershed/fryingpan-river.

Given the valuable data gained from examining macro communities, RFC will continue to utilize macro sampling as an important tool for studying long-term stream health.









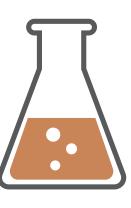
- Conducted a 7-hour water quality training for RFC's citizen science Stream Team volunteers, funded by the Aspen Skiing Company's Environment Foundation. Participants included new and existing volunteers who learned the intricacies of conducting precise and accurate water quality monitoring. The data collection by Stream Teams and RFC staff, is conducted in collaboration with River Watch of Colorado (River Watch), a state-wide water quality program.
- ▲ RFC and River Watch hosted their first Meet and Greet for local teachers and volunteers participating in the River Watch program. Attendees from Aspen to Silt connected with each other, met River Watch staff, and listened to Barb Horn, River Watch founder, speak about how their data is utilized throughout the state.
- △ Partnered with volunteer Stream Teams to conduct regular water quality monitoring at 22 Roaring Fork Watershed sites, including 106 sample events, and 18 volunteers working a combined 158 hours.



18 Volunteers



22 Watershed Sites



106 Sample Events



Worked





Cattle Creek

This marks RFC's fifth year of conducting targeted biological and chemical monitoring on Cattle Creek with funding from Garfield and Eagle Counties. Water quality and stream flows were measured throughout the year at three sites, documenting this year's above average snowpack and stream flow conditions.

In addition, at the request of Garfield County, RFC served as a technical advisor for a Colorado Department of Transportation project to modify the culvert structure where Cattle Creek flows under Highway 82.

Fryingpan River

For the sixth consecutive year, RFC surveyed *Didymosphenia geminata* (didymo) levels in the Fryingpan River. Surveys of didymo stream bed coverage and basic water quality monitoring were conducted at 7 locations in the summer and fall.

RFC maintained temperature loggers at 3 sites along the Fryingpan River.

These loggers have operated year-round since 2013, providing 6 years of continuous water temperature data.



Roaring Fork Watershed

Roaring Fork Watershed Plan Purpose:
To plan for and work toward an environmentally and economically healthy watershed that benefits all who have a stake in it.

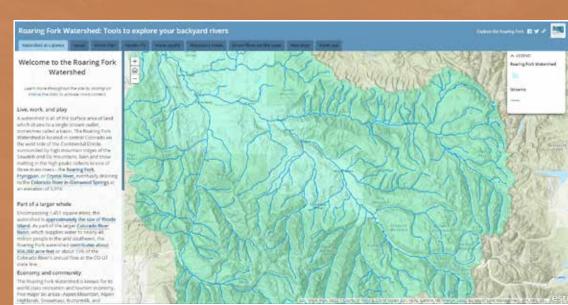
The Roaring Fork Watershed Plan, originally published in 2012, is the product of over four years of collaboration and effort by more than 100 people, representing dozens of agencies, governments, and interests throughout the Roaring Fork Valley. It is a compendium of proposals and recommendations developed by both experts and interested citizens, meant to be implemented by a variety of agencies, governments, and other entities, as resources allow. It details more than 250 action items, intended to provide guidance and direction on how best to cooperatively improve and protect the water resources of the Roaring Fork Valley ranging from identifying and protecting major wetlands to pursuing opportunities for improving natural and artificial water storage.

Throughout 2017 and 2018, with funding from Pitkin County Healthy Rivers Board, RFC met with and interviewed numerous coordinating entities to determine and document projects or actions completed

that achieved Plan goals. Significant accomplishments in the past six years show measurable benefits to the watershed, valuable collaboration, and widespread dedication to the resource. This process led to the creation of the Roaring Fork Watershed Interactive Information System. Housed in the RFC website, the interactive tool hosts easily accessible information about the Roaring Fork Watershed so that every user, from grade school students to the seasoned scientist, can peruse research projects and recommended actions regarding a particular stretch of river, subbasin, or the entire watershed.

As was originally intended, the Plan is a dynamic and flexible document to be periodically updated as projects are completed, new information is gathered, and priorities and plans change. Dedicated to fostering implementation, RFC and Ruedi Water and Power Authority will continue to serve as resources to participating entities, and check in with stakeholders to promote priority projects, connecting potential partners in action or funding, and celebrate accomplishments.

Read the Roaring Fork Watershed Plan at www.roaringfork.org/your-watershed/roaring-fork-watershed-plan/.





City of Glenwood Springs

RFC continues to serve as a technical advisor for the City of Glenwood Springs and the Glenwood Springs River Commission on stream health and policy projects.

RFC is providing consultation for Glenwood's Three Mile Creek Confluence Comprehensive Planning and Design Project. This project includes erosion control, stream bank improvements, recreation access, and riparian restoration.

RFC continues to support the proposed Riparian Setback Regulations currently being reviewed by the Glenwood Springs Planning and Zoning commission. RFC staff regularly attends meetings and submits comments explaining the importance of riparian areas and providing the science behind the proposed regulations.

White River National Forest Fuel Management Plan

Submitted a comment letter to the U.S. Forest Service regarding the proposed Forest Health and Fuels Management Project. Primary goals of the project are to improve forest health, manage live and down fuels, and enhance tree diversity. RFC's comment letter encouraged protection of water resources, minimization of potential impacts, and related use of best management practices throughout project implementation.

Fryingpan River

The winter of 2019 was marked by extreme snowfall and intense cold. Coming out of the 2018 drought, releases in Ruedi Reservoir were scheduled to run at the minimum, 39cfs or inflow. Because of the concern for aquatic life and anchor ice formation, RFC worked with the Colorado Water Conservation Board and the Colorado River Water Conservation District to procure a 3,500 acre-foot lease of water to be released as supplemental flow throughout the winter to benefit the Fryingpan ecosystem. Releases were held to around 65cfs, which is within the range found beneficial to macroinvertebrate life in a 2006 study.

Lake Christine Wildfire

The Lake Christine wildfire left behind a charred landscape, threatening water quality in the Roaring Fork Valley. RFC was approached by Colorado Parks and Wildlife and U.S. Forest Service as a regional entity to lead the local, long-term restoration effort. Since that time RFC has hosted several meetings with all jurisdictions involved to discuss individual and coordinated efforts, which continued through the spring and summer. RFC also worked with Roaring Fork Outdoor Volunteers and Colorado Parks and Wildlife to coordinate a volunteer replanting effort that drew over 300 people. In addition, RFC initiated conversations with Ruedi Reservoir contract water holders to enable a flushing flow in the case of mud or sediment reaching the stream.

Crystal River

RFC, with the Town of Carbondale, and partners Aspen Valley Land Trust, American Rivers, and Public Counsel of the Rockies, completed the planning phase for restoration and enhancement of a one-half mile, 18-acre reach of the Crystal River as it flows through the town of Carbondale. The goal is to improve the efficiency of the town owned Weaver Ditch headgate and diversion. The project involves planning and design for: restoration of the riparian area along the west side of the river, in-river work for the Weaver Ditch diversion structure and in-river habitat and bank improvements. It also calls for enhanced user experience and passive educational opportunities.

With contractors DHM Design, River Restoration, and Lotic Hydrological, RFC and partners worked through several phases of site evaluation and design process. Extensive public comment was documented and used to shape the final design, which was approved by the Town of Carbondale Board of Trustees.

With 60% design complete, the project is moving the approved design forward and is currently in the fundraising phase to implement the design plan, which carefully balances the educational opportunities and accessibility with avian habitat and wildland environment preservation. With ADA accessibility and a gathering space near River Valley Ranch's South Bridge, this property will serve as an educational resource for the five Carbondale schools located within walking distance of the site as well as the community at large. Through thoughtful restoration, that preserves existing habitat, enhances areas of concern, and creates new habitat where it was lost due to human impacts, this project serves as an example to property owners looking to invest in riparian habitat. In addition, the in-channel work, particularly in the areas impacted by the Weaver Ditch diversion structure, both at the structure and downstream, will be a powerful demonstration of how rebuilding dated infrastructure can benefit both the water rights holder and the river.

Getting students ON the river

It's an amazing experience to watch a student's connection to the river grow with each set of rapids, each overturned rock, watching nature showcase other worlds through real-life adventures. Over the last two years, RFC was able to dive deep into watershed education with Glenwood Springs Middle School students. Through a semester-long program, students' basic, sometimes even fearful, perspective of our rivers was transformed. These middle school learners became stewards of the rivers, deeply entrenched in their protection.

For about 65% of the students, this would be their first time *on* a river. The excitement, nerves, and even a smidgen of fear, created an energy that could barely be contained by the school bus while traveling to the launch. Glenwood Adventure Company provided the rafts and guides allowing us to deliver this experience to 150, 6th grade students.

To start off, the River Adventure Week plunged students into watershed education by giving them authentic experiences on and sometimes in the water. Before getting on the rafts, students gathered around a Roaring Fork Watershed map to get a bird's eye view of the rivers that are the lifeblood of this valley. Once they were on the river, RFC educators guided students through chemical and physical water quality testing while rafting.

On the land, students used sand on the riverbanks to create the Roaring Fork Watershed. Students learned how to trace rivers back to their sources, high on the ridges that cradle our valley. Understanding how water travels helps students learn that we are all connected and every action we take, good or bad, floats downstream. Following the kick-off week, additional lessons and activities exploring even deeper into the complex issues that frame water in the west, were continued in the classroom.

After learning about our rivers, one student quietly whispered, "Before, I would just throw my trash on the ground, but now I think about what I've learned, and put the trash in my pocket because I don't want to hurt the river."

Groups of students turned their knowledge into action. One group designed a rain garden to absorb pollution from the middle school's parking lot. Another group created a design for an in-home gray water treatment system to help reduce the amount of water used. Students also illustrated macroinvertebrates and turned their creations into products that they sold, raising money for local, water-focused nonprofit organizations.

RFC is leading students through these impactful learning experiences because as our rivers are the lifeblood of the west, our children will be the guides of the future.

Partnering with Roaring Fork Conservancy really helped to elevate student learning. It's one thing to read about something in a textbook, it's even more powerful if students can experience it firsthand. RFC made those experiences possible and we are so grateful for them.

Autumn Rivera, 6th Grade Science Teacher,
 Glenwood Springs Middle School





To learn about non-point source pollution, we had an expert speaker from Roaring Fork Conservancy come in and show us a plastic model called an Enviroscape. Our teacher poured water on it to show how the water flows through the model and where the headwaters (beginning of the river) started, where non-source point pollution (pollution that eventually makes it into the river) comes into the river and where that pollution might come from, for example, parking lots, gas stations, oil from cars and trucks, etc.

EDUCATION IMPACTS

Roaring Fork Conservancy taught **259** education programs making over **7.000** contacts in 2019!

COMMUNITY EDUCATION

Watershed Explorations were offered in 2019, including river floats, hikes through riparian habitats, water diversion project tours, snowshoe hikes, and excursions to view fireflies in rare thermal wetlands.

307 Participants in 2019 Watershed Explorations.









TEACHER & COMMUNITY PROFESSIONAL DEVELOPMENT

- 22 Teachers and volunteers trained in the National Fishing in Schools Program.
- 26 Participants in our Women's Only and Adult Beginner Fly Fishing Clinics.
- 1st year raft guides received River Ecology Interpretation training.
- 5 presentations at state-wide professional conferences.









SCHOOL PROGRAMS

Roaring Fork Conservancy educators taught
174 river and watershed related school
programs reaching

4,600 STUDENTS

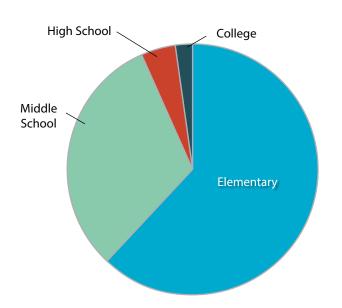
2,86 Elementary School students

1,445 Middle School students

198 High School students

96 College students

30% of school programs took place at The River Center.







Community
Outreach and
Engagement









Keep it Clean West Slope Partnership

Throughout Colorado, water providers developed Source Water Protection Plans to protect their drinking water sources with education being a major part of plan implementation. In the Eagle, Roaring Fork and Colorado River Valleys three watershed groups, seven water providers, three counties and the U.S. Forest Service formed the Keep it Clean West Slope Partnership to promote increased awareness and protection of our drinking water supplies. In an effort to get the word out on how to protect this vital resource, road signs reading "Keep it Clean 'cause we all live downstream," were placed alongside rivers on the western slope. In addition, bilingual brochures and coloring books for children are available to inform residents of ways they can protect water at their homes and at work.

Learn more at www.roaringfork.org/ KeepItClean

Fryingpan River Cleanup

The 21st Annual Fryingpan River Cleanup drew over 230 residents and visitors to pick up trash along 14 miles of road adjacent to the Fryingpan River, the Roaring Fork River and through Basalt. Volunteers even cleaned up a few boat ramps throughout the Roaring Fork Watershed.

Annual River Float

We believe the best way to learn about the river, is to get on it! Since 2004, RFC has hosted an annual river float to teach participants about the local wildlife, water issues, riparian habitat, and a few of our conservation easements located along the way. Due to very high river flows from a delayed spring melt, the float was cancelled in 2019 (only the 3rd float cancellation in 15 years!). Never-the-less, about 100 people enjoyed the BBQ lunch and festival at Coryell Ranch.

Lake Christine Restoration Project

RFC partnered with Roaring Fork Outdoor Volunteers and Colorado Parks and Wildlife in the first public restoration project to help heal the Lake Christine burn scar. Over 300 volunteers, ranging in age from 4 to over 70, hiked steep slopes to hand-seed thousands of native plants and create rock check dams on over 500 acres.

Lake Christine Wildfire Panel

RFC hosted a panel discussion to describe how the Lake Christine
Wildfire changed the local landscape and share completed, ongoing, and future restoration work. The panel was comprised of representatives from U.S. Forest Service, Natural Resources Conservation Service, Basalt Police, National Flood Insurance Program, Eagle County Sheriff's Office, Roaring Fork Fire and Rescue, and Colorado Parks and Wildlife. About 100 attendees learned how to be prepared for post fire events and get involved in upcoming projects.

Rain Barrel Workshop

With support from Valley Gardeners, RFC taught 20 local residents about rainwater harvesting, rain barrel installation and maintenance, and rain barrel regulations in accordance with Colorado Water Law. One lucky attendee went home with an installation-ready rain barrel.

Qualified Water Efficient Landscaper

For the second year in a row, RFC partnered with the City of Aspen to present Colorado's second Qualified Water Efficient Landscaper (QWEL) workshop. QWEL is an Environmental Protection Agency WaterSense professional certification program teaching landscape and irrigation professionals about water efficient and sustainable landscapes, especially in the arid west.

City of Glenwood Springs

RFC partnered with Glenwood Springs River Commission on community outreach and education projects:

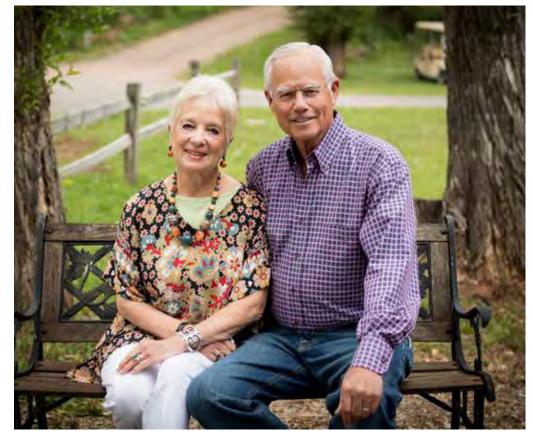
- ♦ Helped develop an interpretive sign highlighting streambank restoration and riparian work recently conducted in Veltus Park, along the Roaring Fork River.
- ▲ Joined the Glenwood Springs RiverFEST, a river cleanup and festival where over 100 participants walked along streams and floated on rivers throughout the city, collecting hundreds of pounds of trash.
- Participated in a riparian planting project, helping plant 80 riparian trees and shrubs along the Roaring Fork River on the city-owned Raymond Property.

River Stewards

RFC's River Stewards, a volunteer group of young professionals, spearhead community engagement events to inspire young river enthusiasts to explore, value and protect the Roaring Fork Watershed. This dedicated group helps RFC staff plan and execute our two largest annual community events, the Fryingpan Cleanup and River Float. In addition, they represent RFC at local films and festivals such as the Fly Fishing Film Tour in Aspen and 5Point Film Festival in Carbondale. The Stewards also share their time and expertise with RFC, helping with fishing clinics and school fishing programs, photographing events and programs, or joining the staff for a day of field work. This fun, multi-talented group meets monthly.

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The Brooksher Watershed Institute



Carter and Dane Brooksher have been an integral part of RFC's 23-year history. The Brooksher's experience with numerous nonprofit organizations combined with a passion for rivers and an undying devotion to RFC, provided vital support for this organization over the years. During Carter's 16-year tenure on the board she co-founded the National Council (formerly Rivers Council) and was instrumental in the creation of RFC's annual River Rendezvous fundraiser. After stepping off the board, she continued to serve on The River Center Steering Committee and, along with her husband, provide invaluable support to RFC fundraising, staff and events.

It was back in 1998 that Carter suggested RFC create a Watershed Institute – a series of presentations with water leaders that would discuss water at the regional, state, national and international levels. It was this vision, timed with moving into The River Center, that catapulted her dream into reality. Thus, in 2019 The Brooksher Watershed Institute was born.

RFC hosted seven speakers as part of The Brooksher Watershed Institute, engaging over 350 people in local, state and national water issues and providing opportunities for one-on-one dialogue with water leaders.









2019 Brooksher Watershed Institute Speakers

How to Manage the Colorado River for the New Normal (Drought)

Chris Treese, External Affairs Manager, Colorado River Water Conservation District

Plant a Seed, Grow a Snowpack: A discussion of cloud seeding in the Upper Colorado River Basin

Dave Kanzer, Deputy Chief Engineer, Colorado River Water Conservation District

Restoring Critical Riparian Habitat in the Age of Invasives

Cara Kukuraitis, Outreach & Education Coordinator, RiversEdge West

50 Years of River ProtectionNicole Silk, Executive Director,
River Network

1,000 Miles Into the Future: 150 years after John Wesley Powell's journey into the arid West

Tom Minckley, Ph.D., Professor of Geology, University of Wyoming

Science Be Dammed; How ignoring inconvenient science drained the Colorado, and its relevance to the future of the Colorado River

Eric Kuhn, Retired General Manager of the Colorado River Water Conservation District and coauthor, with John Fleck, of Science Be Dammed: How Ignoring Inconvenient Science Drained the Colorado River

Predicting Powder and the Science of Snow Joel Gratz, Founding Meteorologist, Open Snow









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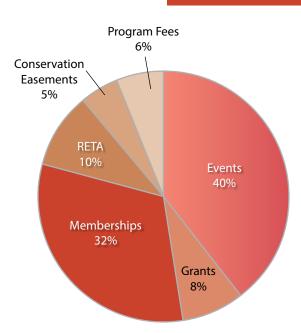
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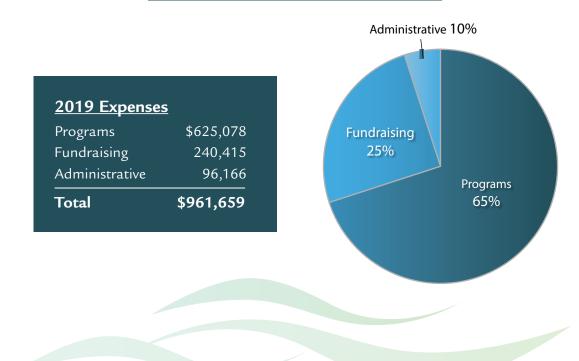
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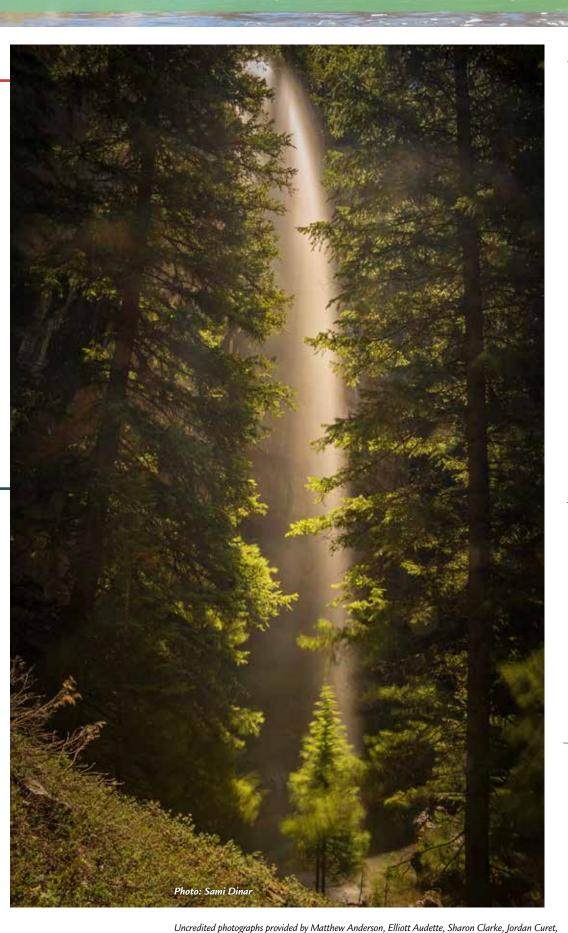
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and work hard to keep water
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