

RIVER CURRENTS



Local concerns spawn study of Fryingpan

Sharon Clarke, Watershed Action Director

Two years of extreme drought conditions and declining wildlife populations have Roaring Fork Conservancy and local citizens concerned for the health of the Fryingpan River. Beginning this fall, Roaring Fork Conservancy launched a series of studies to understand better the river's health. The studies, collectively titled the Comprehensive Lower Fryingpan River Assessment, have the overarching goal of ensuring the environmental and economic sustainability of the lower Fryingpan River, including its designation as a "Gold Medal Fishery." The 13 miles of river



Fryingpan River Dan Glidden

below Ruedi Dam offers some of the most popular fly fishing in the world and annually pumps millions of dollars into the local economy.

Given current concerns regarding the health of the Fryingpan River and fishery, Roaring Fork Conservancy is undertaking a comprehensive study to understand the current state of the Fryingpan and to create a long-term monitoring plan to track trends

over time. Roaring Fork Conservancy's initial aquatic studies will examine macroinvertebrates, flows, and water temperatures. In addition, we will conduct an assessment of the American dipper population; examine the extent of Didymosphenia geminata, an invasive algae; and repeat the 2002 Fryingpan Valley Economic Study to evaluate the role of the river in community vitality. Roaring Fork Conservancy will work with Ruedi Water and Power Authority, Bureau of Reclamation, and Colorado River Water Conservation District, U.S. Fish and Wildlife Service to investigate how new and existing contracts for Ruedi Reservoir water can be managed to ensure river and associated economic health.

"The Fryingpan is not only a world-renowned fishing destination but also a highly complex ecological system," said Rick Lofaro, executive director of Roaring Fork Conservancy. "Roaring Fork Conservancy's concerns stem from the desire to see a balance in how the river is managed for water rights holders, the economy, and wildlife."

The assessment began in October and will continue through the spring and summer of 2014. Preliminary results should be available this winter with a report of initial findings sometime in the early summer. The final study results will help inform management decisions on the lower Fryingpan River where flow is dictated by releases from Ruedi Reservoir, 13 miles upstream from Basalt.

For updates on the Fryingpan study visit www.roaringfork.org/fryingpan.



Pondering Drakes...

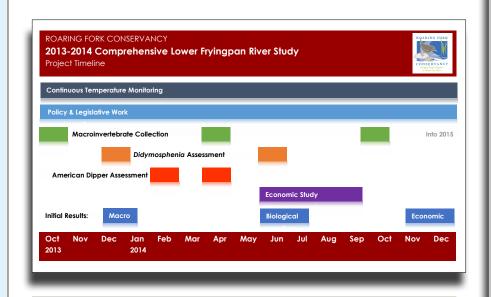
An essay by Cam Scott

Bugs. Job security. Besides being a roach raiding, bedbug busting, termite torching exterminator, there is only one other job I know where bugs and job security are so interdependent: being a fly fishing guide. While rivers come in all different shapes and sizes, only Oak Creek in Sedona, Arizona carries a similar red-rocked beauty, and only the Green River in the Flaming Gorge, Utah has as comparable and diverse bug hatches as our very own Fryingpan River.

Not surprisingly, the Fryingpan River is world famous for both its beauty and bug hatches. Bug hatches which you can set your watch to. Bug hatches trout set their watches to. Bug hatches that dippers, sparrows, and other song birds rely on for nourishment. And I am convinced it is the bug hatches, not the trout, which end up perplexing, vexing, and ultimately astounding tourists and clients who annually come from all over the world to fly-fish the Fryingpan.

All told, about 30 of us guide out of the fly shop where I work; that does not include guides from three other fly shops/organizations that carry permits to

Drakes continued on page 2



Keeping an eye on Fryingpan's "Rock Snot"

Kristjan Danis, Program Intern

Anglers on the Fryingpan River have recently noted a large increase in the presence of Didymosphenia geminata, also known as "rock snot". Didymo is a form of algae that grows in toilet paper-like stalks, and commonly covers river rocks in a brown layer of cell colonies. Didymo has been observed in the Fryingpan River since 1975. The effects of the recent Didymo blooms on the Fryingpan can be hypothesized from the effects of rock snot on other streams and rivers. Other waterways overtaken by Didymo have shown declines in fishery health. Studies on these affected fisheries have documented record low trout weights and young populations of trout that struggle to survive past the one year mark. The nature of this algae to cover the substrate of a river with a mat of cells threatens the health of macroinvertebrates. Didymo acts as a haven for midges, worms, and scud. The habitat for stoneflies, caddisflies, and mayflies, beneficial macros that are less resistant to disturbance, is negatively affected however, and can lead to a decline in their collective biomass.

Will Didymo ruin my day of fishing the 'Pan? It is hard to tell. This fall Roaring Fork Conservancy began macroinvertebrate and Didymo assessments on the Fryingpan (see page 1). These studies will help us understand how Didymo and low



A hand-full of Didymo shows how this algae covers river bottoms and threats the habitat of beneficial bugs. Tim Daley

flows may affect our fishery. One of the main reasons for the recent outbreak of Didymo across North America's Western waterways is anglers. Just like the New Zealand mud snail, Didymo has a tendency to travel with anglers on wading boots, flies, and nets, anything that may have come into contact with the algae. You can do your part by physically removing any large clumps of algae from your fishing gear and scrubbing waders and wading boots with a hot water soap solution or a 2% household bleach solution. Please report any Didymo blooms in the Roaring Fork Watershed to Roaring Fork Conservancy.

Pondering Drakes from page 1

guide Forest Service Land on the Fryingpan. Each year the sleepy town of Basalt transforms into a massive economic engine centered around the Fryingpan River. Be it bird, trout, or human, all of us depend on the Fryingpan's epic bug hatches to make or break our summers. And there is one bug in particular I look forward to seeing hatch: the green drake.

Unlike all of the other hatches on the Fryingpan (of midges, blue winged olives, caddis flies, stone flies, and pale morning duns), I begin to lose sleep over the green drakes in mid-July when they start to hatch on the Lower Fryingpan. Size 10-12 drake patterns like the Hoh, Cripple, Loopy Wing, and Sparkle Dun Emerger flit through my dreams. Even beer starts to take on a pale green hue. And the thing about the drakes on the Fryingpan: they are big, there are a lot of them, even your most sight challenged fly fishers can easily see them, and they bring some of the biggest trout of the year up on the surface to feed.

Only this year the drakes have mostly been absent. Sure, way up high near Ruedi Dam, in the Rocky Fork Day Use Area where water temperatures are most consistent, there have been some good hatches of drakes. But not great. Not epic. Not like I've seen in past years. And lower down on the river? Some afternoons I've seen a handful of them. Maybe five to 15 of them making their way into the sun-dappled air. But not enough to be of much note to the trout.

This summer's drake hatches have led me and many of my fellow guides to ask why? Where did they go? Was this past winter's 48 cfs not enough water volume to hold off anchor ice? Did it expose too many buggy shoals of rocks that should be holding both trout and bugs? And all of us: the dippers, song birds, sparrows, trout, and humans, every single one of us, is concerned.

Restoration work progresses on Crystal River & Coal Basin

Sharon Clarke, Watershed Action Director

Although not highly visible to the public, a lot of action is taking place in Coal Basin and the Crystal River. This work is made possible by major funding Roaring Fork Conservancy received from the Colorado Water Conservation Board's Water Supply Reserve Account.

Several projects are underway in the pilot area on the South Fork of Dutch Creek (Spring/Summer 2013 newsletter). On June 3rd and 4th, 750 Engelmann spruce trees were planted by US Forest Service staff with the help of Colorado Parks and Wildlife and the brute strength of "Aspen," the

Forest Service mule. Planting took place over approximately four acres within a 9,000 foot long decommissioned road prism. The goal was to improve vegetative cover which will increase infiltration and decrease erosion. Also in June, spot spraying to address the abundance of noxious weeds took place focusing on plumeless thistle, houndstongue, oxeye daisy, and Canada thistle in the recently disturbed area. In addition, continuous soil monitoring probes were installed to collect data to facilitate the comparison of the effectiveness of biochar/compost mix, compost, and no soil amendments to improve soil moisture.



A new stream gage on Coal Creek will measure flows and sediment loads helping scientists understand this complex basin. Sharon Clarke

With help from the USFS, Roaring Fork Conservancy conducted another round of macroinvertebrate sampling for the Crystal River, with focus on Coal Basin. Five of the six sites in Coal Basin did not meet state standards for aquatic life. All of the sites on the Crystal River fell within acceptable limits (see article below).

Meanwhile in the Crystal River Watershed, we continue to make progress identifying and ranking sediment sources using NetMap's state of the art watershed assessment tool. The goal is to determine the relative contribution of Coal Basin

compared to other major sediment sources along the Crystal River, and eventually to differentiate between human impacts and natural conditions (such as unstable geology and steep slopes). This will allow us to prioritize efforts and set realistic expectations how much reduction in sediment is possible.

In August, a permanent stream gage and companion meteorological station were established in Coal Basin to collect the basic hydrologic and meteorologic information necessary to support the design of site- specific mitigation

Coal Basin continued on page 7

2012 Macroinvertebrate Study yields fairly healthy results

Chad Rudow, Water Quality Coordinator

In the fall of 2012, Roaring Fork Conservancy worked with numerous partners to conduct Biological Monitoring, or biomonitoring, at 30 locations throughout the Roaring Fork Watershed. This monitoring involved collection and analysis of macroinvertebrates (aquatic insects) as an important tool for assessing the quality of streams and rivers. One goal of this study was to compare the results from 2012, a significant drought year, with a similar study conducted in 2011, a relatively wet year.

Laboratory results are back and have been divided into four groupings, each with a separate report: Coal Basin/Crystal River, Brush Creek, Northstar/Aspen, and a General Roaring Fork Basin Overview. One tool used to analyze the samples was the Multi-Metric Index (MMI) which was designed by the Colorado Division

of Public Health and Environment to give streams a single score based on multiple metrics. The following are some highlights of the study:

· 80% of the sites on the Roaring Fork River received MMI scores indicating healthy conditions.

· 60% of the Roaring Fork tributaries received MMI scores indicating healthy conditions.

· Two sites on the Roaring Fork River received an "impaired" designation based on low MMI scores. Both were in Aspen, at Mill Street Bridge and near the Music Tent.

• The following creeks received an "impaired" designation based on low MMI scores: Cattle Creek, Dutch Creek, Brush Creek (3 of 4 sites), and Coal Creek (4 of 5 sites).

· Of the sites included in both 2011 and 2012, 85% scored lower during the 2012 drought year.

To view this and other biomoni-



Macroinvertebrates from Snowmass Creek. Tim O'Keefe

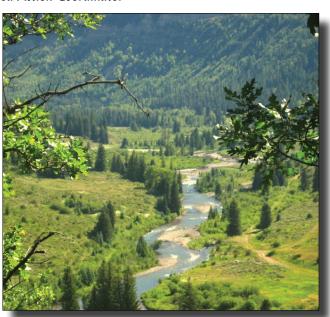
toring reports for the Roaring Fork Watershed visit www.roaringfork.org/publications.

RFC helps Garfield County & others protect riparian zone

Heather Tattersall, Watershed Action Coordinator

Who is responsible for our rivers? Who protects the water, animals, and vegetation that make up a river system? There is no simple answer to these questions. Some people feel a sense of obligation and stewardship to do what is best for the river. Some call Roaring Fork Conservancy for help and advice. Others do what is required of them by law. But who makes and enforces these laws? Some protections, such as the Clean Water Act and Endangered Species Act, exist at the Federal level. Some additional protections are offered by the state. The brunt of the obligation falls upon cities and counties and the

protections offered in their respective codes. While federal minimum protections may be adequate in some cases, they are, by nature, unable to deal with the specific



A healthy riparian area helps reduce erosion, improves wildlife habitat and absorbs floodwaters. This section of the Crystal River exemplifies a healthy riparian corridor. Sarah Johnson

the complex system that is idyllically referred to as a "Healthy River System," one that is often overlooked is not found in the water itself, but in the

erosion and sedimentation, mitigation of contaminants carried by runoff, addition of organic matter to the river, and vegetative shade to provide habitat and stabilize water temperature. In addition, riparian vegetation can protect banks from further erosion that would result in loss and/or damage to property.

Garfield County Board of Commissioners spent several months this spring writing, re-writing and reviewing their county codes in order to streamline economic development. The arduous process involved reviewing every line of the existing code and editing or deleting pieces that were deemed redundant or unnecessary. In the initial draft, one of the deleted pieces was local riparian protection. In

the prior version of the code, Garfield County had required a 35-foot distance from the river for all construction. This

> protection was redlined in the first draft. Roaring Fork Conservancy was contacted by concerned citizens and set to work, researching comparable county and city codes as well as the justification of a riparian corridor.

Current research revealed the intuitive: the greater the riparian area, the greater the protection it offers.

With the goal of increasing the minimum setbacks to 50 feet (or more), Roaring Fork Conservancy approached the Garfield County Board of Commissioners. While they did not accept the 50-foot recommendation, they did agree to keep a 35-foot setback. Understanding the necessary balance between human and natural communities, we are happy with this decision.

For more on how to care for private property along the river, please contact Roaring Fork Conservancy for your free copy of the "Citizen's Guide to Riverfront Property" or visit www. roaringfork.org/riverfront.

Conservancy urges GarCo to keep river setbacks Water Act, while necessary and beneficial, may not adequately protect the rivers," Lofaro and Tat-tersall state in the letter. "Restrict-ing storage of hazardous materi-als within (county codes) makes the applicant accountable to the county. allowine enforcement

GLENWOOD SPRINGS — A local river watchdog group is urg-

"Current research shows that the greater the riparian buffer, the greater the protections from physi-cal and chemical damages such as sedimentations, crosion and runoff

Land-use code hearing continues today

John Stroud

Post independent Staff

GLENWOOD SPRINGS — A local river watchdog group is urg
at minimum, retaining the previous code standard of 35 feet and encourages increasing these standards. The protections for waterways and aquatic life, wrote Rick Lofaro, executive direction, and Heather Tattersall, water-sted action coordinator, for the overalization.

and federal regulations and place.

That would include the removal of what's now a 35-foot setback provision for most structures, as well as a 100-foot restriction for storage of certain hazardous materials, sand and road salt.

However, regulations such as those contained in the federal Clean Water Act may be inademate, the Conservancy argues.

county, allowing enforcement and clean-up on a local level with support from the state and federa

needs of each unique area because they are designed to be broad enough to encompass a large and diverse country. State laws have a similar issue on a smaller level. In addition, much of the higher level protections apply to drinking water and big-picture water quality. Without understating the importance of clean drinking water and high quality water standards set out at the state and federal level the means to achieve these goals often becomes the responsibility of individuals on a community level.

While many factors are involved in

surrounding area. The green vegetation surrounding a healthy river is referred to as the "riparian corridor." Rivers require healthy and diverse riparian vegetation to thrive: willows, alders, and cottonwoods are some common plants seen in the green area surrounding a healthy river in the Roaring Fork Valley. These areas require protection at the local level. Without these protections, riparian vegetation is often replaced by lawns and houses, or reinforcing structures such as rip rap or concrete. Riparian vegetation is necessary for protection from

Conservation easement profile: Park East

Roaring Fork Conservancy acts as a land trust to hold 278 acres in 15 conservation easements in the Roaring Fork Watershed. In each issue of River Currents we highlight one of these conservation easements.

Stats

Size: 7.95 acres Recorded: August 30, 1999 Riverfront Protected: 2,120 feet of Roaring Fork River Owner: Park East Homeowners Public Access: Paved trail along western border of easement and two dirt trails that lead to river

About the Easement

The Park East Conservation

Easement is located in Glenwood Springs along the banks of the lower Roaring Fork River where steep embankments line the river. Maintaining the grasses, shrubs, sagebrush, juniper, and Gambel oak is essential to minimizing erosion from the steep slope into the river below. This protected riparian hillside offers peaceful community river access where the historical, coal-producing township of Cardiff once thrived. A relic from this bygone era, the Cardiff Schoolhouse now provides a gathering place for local arts and performances. Next time you're in the neighborhood,



The Park East conservation easement protects eight acres of land along the Roaring Fork River in Glenwood Springs.

stop by the Park East Conservation easement for a walk along the river or some early morning birding!

Recent Activity

In June, Roaring Fork Conservancy worked with eight volunteers, including a few neighborhood residents, to spiff up the Park East Conservation Easement. The crew set out in small groups and accomplished the following tasks: collected numerous bags of garbage, removed barbed wire fencing, trimmed vegetation along trails to the river, stabilized

the southern trail to the river, added signage to denote footpaths and minimize traffic off trail, and removed a large platform structure from the south end of the easement. A big thank you to all that participated. With community support, we hope for this to become an annual event.

For more on this and other Roaring Fork Conservancy conservation easements visit www.roaringfork.org/land.

- Compiled by Heather Tattersall

Hot Spots for Trout citizens monitor river temps for 2nd year

Extreme drought and high temperatures from early July to early August in the Roaring Fork Watershed caused concern for our rivers. Warm river temperatures make it difficult for fish and other aquatic life to survive due to low dissolved oxygen levels. For the second year in a row Roaring Fork Conservancy successfully engaged nearly 50 citizen volunteers in our Hot Spots for Trout temperature monitoring program during the five hottest weeks of the summer.



Marty Ames measuring temperatures on the Roaring Fork in Aspen (above). Warning signs (right) hit boat ramps in the lower watershed to warn anglers of high river temps. Marty Ames

The rapid action by all volunteers collecting stream temperatures resulted in weekly temperature reports shared with the press and interested parties, a sign campaign at down-valley boat launches and public access points, and an observed change in fishing patterns on the warmest stretches of the rivers. A large number of anglers were observed fishing early in the day, minimally handling the catch, and



avoiding late afternoon when the water is warmest, to help minimize stress on our local fishery. Visit www.roaringfork.org/ hotspotsfortrout for more.

4

Captain Cutthroat hooks the public on water conservation

Elizabeth Munn, Wyss Scholar, Education and Policy Intern

Captain Cutthroat made a big splash this summer as Roaring Fork Conservancy rolled out a new water conservation initiative, "Reel in Water Use." With the help of a grant from the Community Office

for Resource
Efficiency
(CORE), I spent
the summer
developing the
foundation for
the conservation

campaign including a logo, informational materials, and, of course, a giant fish costume! This project was a perfect



chance for me to blend my enthusiasm for conservation and penchant for whimsy and performance. Captain Cutthroat began making appearances at markets and fairs around the valley

in late July and is especially popular with pre-school kids.

The need for this new campaign is rooted in the ongoing drought in the western United States

and increasing demand on our fresh water supply. With the Roaring Fork Watershed receiving below average snowpack for two years running, this summer was a perfect time to raise awareness about the little things we all can do to help minimize water use. The Reel in Water Use campaign offered free sink aerators to reduce indoor water use, and moisture meters to help citizens monitor water use in landscaping.

FISH WATER TOO

Roaring Fork Conservancy, as a non-profit with basin-wide reach and extensive expertise in education and outreach, is uniquely positioned to provide consistent water conservation messaging throughout the valley. Lessons learned from this summer's outreach events will help inform the required education component



Captain Cutthroat turned some heads at festivals throughout the summer including the Glenwood Springs Farmer's Market (left) and Carbondale Mountain Fair (above). Heather Tattersall

of the upcoming Regional Water Conservation Plan.

Captain Cutthroat is excited to get out and about more often to promote this important work. Look for him around the valley and on the ski slopes this winter, and be sure to give him a "high-fin!"

For more on the Reel In Water Use campaign and for water conservation tips visit www.roaringfork.org/reel.

Invaluable Intern Experience

My summer began with water quality sampling in the Thompson Divide area with Chad Rudow



teaching me the ropes. I quickly learned there was much more than field work involved with water quality sampling. Chad and I spent many hours prepping materials and paperwork for our field days, and then even more time testing our samples

post-collection. The average college undergrads studying biology and interested in conservation rarely get to immerse themselves in the entire water quality sampling process.

After finishing up the peak runoff round of water quality sampling, I began preparing for the annual River Rendezvous. I was able to work closely with Robert Woods and spend a couple nights camping out at the Dallenbach Ranch to beef up the night security. I had a great time watching the Rendezvous turn out as successfully as it did. Once the Rendezvous was finished I paired up with Heather Tattersall for the annual conservation easement monitoring. Once again I was introduced to an entirely new process of preparation and post-monitoring paperwork involved with the management of conservation easements. Along with my larger projects, I spent a few days teaching children about aquatic insects found in ponds and rivers.

While spending my summer in Basalt, I not only gained invaluable experience with Roaring Fork Conservancy, but grew as an outdoorsman. I spent a portion of most days this summer fly fishing and soaking up big game and waterfowl hunting tips from Rick Lofaro. I had a blast this summer, and everyone I had the opportunity to work with will be truly missed.

adequate local supplies for drinking water and

flows, and recreation. By using water wisely, we

can preserve an essential community resource,

energy, and save money. At a variety of scales,

protect local rivers and stream habitats, conserve

CORE, RWAPA, and Roaring Fork Conservancy

are actively participating in plans for water con-

servation. For more information on the regional

jason@aspencore.org or Mark Fuller of RWAPA at

planning effort, please contact Jason Haber at

other domestic uses, fire protection needs, stream

Water Conservation

continued from page 6

fulcon@comcast.net.

- Kristjan Danis, Summer Program Intern

Building partnerships for regional water conservation

Elizabeth Munn, Wyss Scholar, Education and Policy Intern & Jason Haber, Community Office for Resource Efficiency

The Community Office for Resource Efficiency (CORE), in partnership with Ruedi Water and Power Authority (RWAPA) and Roaring Fork Conservancy, is engaging municipalities throughout the valley in the process of developing a Regional Water Conservation Plan. This plan will not only fulfill the mandate of the Water Conservation

Act of 2004, which requires large water providers to have a state-approved conservation plan, but also to help coordinate water conservation throughout the watershed.

To date, a Memorandum of Understanding defining the terms of the collaboration has been signed by five major water providers. CORE is pursuing a grant from the Colorado Water Conservation Board to continue the process and engage a consultant to

write the plan. In addition, four University of Michigan graduate students at the School of Natural Resources and Environment are studying parallel cases to help inform the plan.

Water planning is also ripe at a state level. According to executive order issued from Governor Hickenlooper's

office in May of this year, "the gap between water supply and water demand is real and looming" and "Colorado's drought conditions threaten to hasten the impact of the water supply gap." Hickenlooper has tasked Basin Roundtables to provide

regional water plans for inclusion in the upcoming state-wide plan.

Implementing water efficiency measures helps to ensure

Water Conservation continued on page 7

Coal Basin

continued from page 3

measures and eventually to help determine the effectiveness of restoration efforts in the Coal Creek watershed.

Coal Basin was chosen as a featured stop on the Colorado Foundation for Water Education's Upper Colorado River Basin Tour in June, attended by the general public along with state legislators and a local county commissioner. This gave attendees the opportunity not only to tour this unique and somewhat obscure location, but also to gain a more in-depth knowledge of the history, issues, and planned future projects. To learn more about Coal Basin, please visit www.roaringfork.org/coalbasin and look for future watershed explorations of this area.

Northstar Education



Roaring Fork Conservancy partnered with Pitkin County Open Space & Trails to provide roving river education at Northstar Preserve near Aspen this summer. Educator Elise Osenga (above) did the bulk of interacting with visitors. Pitkin County Open Space & Trails

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- · Knowing you support essential river research, education, monitoring and conservation work

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RIVER CURRENTS ~ Winter/Spring 2014 ~ RIVER CURRENTS













Each year Roaring Fork Conservancy offers over 30 Watershed Explorations and events. Some 2013 highlights include (clockwise from top left): Participants viewing a heron skull during the Northstar Heron Watching; cleaning up the river at the Fryingpan River Cleanup; rafting

the Roaring Fork River during River Float; floating through Northstar Nature Preserve; teaching raft guides about water issues; and exploring Filoha Meadows Open Space near Redstone. For an up-to-date list of events visit www.roaringfork.org/events. Sarah Johnson & Emily Chaplin

Watershed Map 3.0 **Available for Purchase**



Roaring Fork Conservancy partnered with Seth Mason of S.K. Mason Environmental this summer to develop a new Roaring Fork Watershed Map. This beautiful Raven-quality 32"x40" map is available for purchase by visiting www.roaringfork.org/maps. S.K. Mason Environmental LLC

Staff Flows



Claire Britt leaves us after 3 years as office manager. Claire brought a great front desk presence to the organization and helped us keep running smoothly. We wish her the best in Florida



Holly Pagan joined us in September as our Office Manager. A Basalt native, Holly's experience in human relations and organization will greatly benefit the office.



Tim O'Keefe, after 12 years as education director, is moving on at the end of 2013 to pastor a new church in Glenwood Springs. He is excited about this new challenge and appreciates all of the relationships built in his time with Roaring Fork Conservancy.

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