



Big Thompson Watershed News

The Quarterly Newsletter of the Big Thompson Watershed Forum

Spring 2005

Volume 6, Issue 1

Spring Run-Off Along the Big Thompson River

by Fred Renner

Fred Renner is the Big Thompson River Commissioner for the Colorado Division of Water Resources.

Springtime in the Rockies. This phrase elicits many images such as longer and warmer days, casting a fly upon the river surface, and the annual snowmelt run-off from mountain streams. For the many of us who depend on the waters of the Big Thompson River for various uses, we wait in anticipation of what is to come. The historic records tell us that, on average, the Big Thompson will peak on June 14, but it may peak as early as May 9, or as late as July 14. The amount or flow measured in cubic feet per second (cfs) may vary from an average of 1175cfs to a high of 4690cfs in 1941 and a low of 262cfs in 1977. "Cfs" is a measurement of flow in which one cubic foot of water flows by a given point in one second of time, equal to 449 gallons per minute. Many factors and mechanisms, both natural and human, influence the amount and timing of the run-off and the distribution of snowmelt along the reaches of the Big Thompson River to its confluence with the South Platte River.

One major natural factor is precipitation. From November to April the majority of precipitation falls in the form of snow in the Big Thompson Watershed, which includes Rocky Mountain National Park ranging in elevation from 9000 to 14,000 feet and a drainage area of 305 square miles. Over the years the Natural Resource Conservation Service and its co-operators have taken snow samples at specific snow courses in the Big Thompson basin. This data, consisting of water content and density, is compared and analyzed to forecast run-off amounts for the basin. However, there are several other natural components that can influence the timing of this predicted discharge. It all starts with a good base from early snowfall in November and December. This base creates a barrier or "shingle" from the ground to snow pack which prevents snowmelt from seeping into the ground, sliding, or melting into the rivulets and small streams which unite into the Big Thompson. Temperature can also impact timing and amounts. A very warm month with

above-average temperatures can cause flows to rise earlier than normal. Conversely, cooler temperatures reduce flow amounts and extend run-off. High winds, which are common in our area during the winter and spring months, can add to evaporation of snow moisture by the process of sublimation. And adding rainfall to snowmelt can cause flood events.

Man himself plays a large role in determining how much and where along the Big Thompson the flows will be. River flow regulation for hydropower, storage reservoirs, existing water rights, surface diversions, and cropping patterns affect the amounts and distribution of river flows along the reaches of the



Big Thompson. Starting at Lake Estes, the Bureau of Reclamation diverts or "skims" Big Thompson water through a labyrinth of tunnels, power plants and canals to generate power, to store water in the Horsetooth and Carter Lake reservoirs, and to release this "skim" or borrowed water back to the Big Thompson at the mouth of the canyon. When flows increase rapidly into Lake Estes, the Bureau will release the rising waters out of the lake back to the natural river course. A major tributary to the Big Thompson, the North Fork, is basically an unregulated drainage and

empties into the Big Thompson at Drake. As we move downstream, flow can be diverted at Dille Tunnel approximately 1.5 miles from the canyon mouth. The mouth of the canyon located by the Dam Store on Hwy 34 is the beginning of a complex ditch system that diverts water to various local reservoirs for storage and to place the water on land for irrigation. The flow amounts in the river before it enters the environs of Loveland depends upon which structure is in priority and how full the reservoirs are. River "calls" on the South Platte River can also alter flow amounts. A "call" is a request by a water user to curtail junior appropriators in order to provide water to a senior right. Reservoirs such as Jackson, Riverside and Empire located near Ft. Morgan are senior to some of the local storage reservoirs; thus, this water must travel down the Big Thompson River to its confluence with the South Platte River.



ABOUT US...

The Big Thompson Watershed Forum is an association of private citizens and representatives of government, organizations, and businesses. We are united with the common goal of protecting water quality throughout the Big Thompson Watershed. We strive to accurately assess conditions in the Big Thompson Watershed and to facilitate informed, cooperative water quality protection.

North Front Range Water Quality Planning Association is a cooperating agency. The Forum maintains a strong partnership with the Thompson R2-J School District. The Forum is a Colorado 501(c)3 nonprofit corporation.

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WATER QUALITY PLANNING PROCESS MOVES FORWARD

by Rob Buirgy

In the last issue of the *News* we introduced the Forum's Water Quality Management Planning Process. The first phase of this planning process is gaining momentum, and we are on track to complete both phases by the end of 2006. In order to keep our readers up to date on this crucial planning process, (which we are fondly referring to as the 'Project'), we are dedicating this portion of the *News* to Project updates and important issues that surface during the planning process.

The two phases of the Project are organized in a way that allows flexibility as the Project team works with local potentially affected interests (PAI's) to build the sustainable network that will respond to future water quality challenges. We are finding that our early intuitions were accurate - the more people involved in this sort of process, the longer it takes! Consequently, we are following through with a dynamic scope of work that allows Phase One to guide the specifics of the second phase of the Project. The final product will be a Big Thompson Water Quality Management Plan that promotes effective management strategies to reduce or eliminate the water quality impacts of nutrients in our watershed.

While the scope of work is in draft form as this issue of our newsletter goes to press, we can take a sneak peak at the overall objectives and goals of Phase One in order to set the stage for meetings and work products that will be completed before you receive the next issue of the *News*.

Phase One

Phase one comprises parallel efforts to incorporate the evaluation of water quality data with input from PAI's to prioritize nutrient-related impacts and identify water quality goals. Phase one goals include:

(1) Involve PAI's to identify nutrient-related water quality impacts and management goals, and participate in completing the project;

(2) Use water quality data collected in the Big Thompson Watershed to assess the severity and extent of nutrient-related water quality impacts in our waterbodies;

(3) Review and recommend necessary changes to monitoring programs;

(4) Provide a basis for developing targeted management and protection strategies by identifying and prioritizing specific nutrient sources and locations.

The final product will be a Big Thompson Water Quality Management Plan that promotes effective management strategies to reduce or eliminate the water quality impacts of nutrients in our watershed.

Phase Two

Phase two will focus on identifying and evaluating water quality management strategies, and will include the following goals:

(5) Identify potential water quality management strategies to reduce or eliminate nutrient-related water quality impacts;

(6) Develop recommendations for water quality management strategies;

(7) Develop methods for evaluating effectiveness of the Project and implementation of recommended strategies;

(8) Finalize the Big Thompson Water Quality Management Plan.

Progress...

There are several subcommittees hard at work to accomplish these goals. You will be able to access the membership and work products for each subcommittee on the Forum's website by the end of May 2005 - and if these goals pique your interest, we invite you to contact us at 970-613-6160 for more information. The success of this Project is ultimately determined by the communities and people involved, and we are encouraging all interested parties to get involved early and often for the best possible outcome!



Urban Land Use Negatively Impacts Macroinvertebrates in the Big Thompson River

by Jeffrey Boring

A recent scientific article in the journal *Environmental Monitoring and Assessment* found that the total number of macroinvertebrate taxa in the Big Thompson River decreased downstream from water quality impacts in the City of Loveland, including stormwater outfalls and wastewater treatment plant discharges. Negative impacts associated with agricultural practices were also observed, although the relationship between these practices and environmental impact were neither strong nor consistent. Average total number of macroinvertebrate taxa decreased by 10, 31 and 26% at sites in and below the City of Loveland, as compared to non-urbanized reference sites.

Macroinvertebrates, such as mayflies, stoneflies and dragonflies, are naturally occurring organisms that inhabit freshwaters, including the Big Thompson River. These organisms are indispensable, providing critical ecosystem functions such as recycling dead organic matter, breakdown of surface vegetation and algae, and supplying food for a variety of fish. Macroinvertebrates are commonly used by aquatic ecologists in the study and assessment of stream health.

An analysis of the components of stormwater runoff or waste water discharge and the relative impacts they have on the macroinvertebrate community of the Big Thompson River has not been conducted, and therefore it is not possible to identify the root cause of the decline in the total number of macroinvertebrate taxa. However, water chemistry data have been assessed and show that the Big Thompson is negatively impacted by urbanization. Between 1982 and 1989, large

increases in conductivity and some nutrients were observed below wastewater treatment plants; however, no water quality standard violations were detected on the Big Thompson River during this time period. Conductivity levels and the concentration of some nutrients were still high compared to the non-urbanized reference sites, but were much lower in 2001, when water quality analysis was continued.

The urban environment's effect on macroinvertebrate communities has been well studied, and trends generally show that macroinvertebrate diversity decreases with increasing levels of urbanization. Urbanization alters natural flow regimes by changing the hydrological cycle and increasing stormwater runoff. Urbanization also modifies the chemistry of receiving water bodies by increasing the levels of sediment, nutrients, metals, and other pollutants. Other studies have shown that these pollutants have a variety of biological impacts on macroinvertebrates, including changes in habitat structure, loss in prey detection, and reduced oxygen transfer.

The good news is that many macroinvertebrates are highly mobile and can recolonize areas with improved water quality. The Big Thompson Watershed Forum's Water Quality Management Plan focuses on nutrient-related water quality impacts, and will result in cleaner water. Clean water generally spells healthy water, including a community rich in macroinvertebrates and other aquatic organisms.

This article was adapted from an article originally published in the journal Environmental Monitoring and Assessment (2005), Volume 101, pages 175-202.



On to Greener Pastures - Literally!

Our Program Director, Janeen Simon, is leaving the Forum after four years of hard work. Janeen joined the Forum in the spring of 2001 to help Rob develop the community outreach and education program. As Program Director, Janeen was also responsible for fundraising and other income generation strategies, the incorporation of the Forum as a 501(c)3 nonprofit corporation, the implementation of a nonprofit accounting system, and other daily organizational activities.

Janeen will be moving back to her coffee farm in Guatemala. She and her husband, Ken, will maintain the working farm, and plan to open a small bed-and-breakfast to welcome the adventure travelers that visit the northern highlands of Guatemala. Janeen and Ken's long-term goals are to start a school for the local Mayan children that will focus on sustainable agriculture, cultural revitalization, and leadership.

Janeen will never be far from her river roots - the beautiful Mestelha' river runs through the middle of her property. She and Ken are looking forward to spending many enviable hours cooling off in spectacular waterfalls surrounded by lush, tropical vegetation.



BEST WISHES, JANEEN. WE'LL MISS YOU!



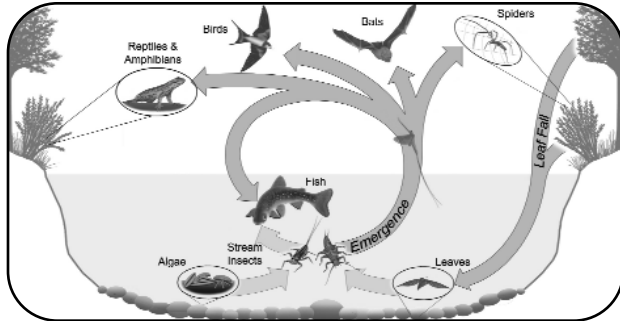
River Life A focus on the organisms that live in and around Colorado's waters.

The Flies that Bind: The Importance of Insects in River Food Webs

by **Bob Zuellig and Jeremy Monroe**

Bob Zuellig and Jeremy Monroe are aquatic ecologists at Colorado State University, and also represent Freshwaters Illustrated, a nonprofit group dedicated to promoting aquatic awareness through photo, video, and film.

Insects are often the most diverse groups of river fauna. The vast majority of stream insects spend their immature stages in the stream, as aquatic larvae or nymphs and eventually emerge, or "hatch," from the stream as winged adults to mate and disperse. This remarkable life cycle allows stream insects to inhabit two completely different mediums, air and water, and to possess



Stream insects are an essential part of river food webs.

adaptations suited to these different environments. For example, stream insect larvae and nymphs have gills to acquire oxygen from the aquatic environment, and stream insect adults generally have wings to move about the terrestrial environment. Yet, even more remarkable is the strong role stream insects play in river food webs.

As aquatic larvae and nymphs, stream insects may eat algae, plants, decomposing leaves and organic matter, and they may also eat each other. Many species specialize on certain foods and feeding strategies, such as filter-feeding caddisfly larvae, which capture food particles drifting in the current with outstretched legs, or certain mayfly nymphs that brush algae off of stone surfaces. Stream insect larvae and nymphs are, in turn, the chief food source for many aquatic predators, like fish, amphibians, and crayfish.

As adults, stream insects become food for a host of terrestrial predators, such as birds, bats, and spiders. These predators, along with fish, often capitalize on synchronized insect emergences, when insect adults leave the water and return to lay eggs. Likewise, flyfishing anglers are tuned in to insect "hatches," and use artificial flies to imitate emerging nymphs, pupae, and adults.

So, the next time you're on the river and you inhale a swarm of midges or dodge a darting dragonfly, consider the complex web of life surrounding rivers and the central role that insects play in them. You may just find a deeper appreciation for "flies."



Spring CleanUp - River Style!

by **Janeen Simon**

It's springtime, and what better way to celebrate the sunshine, budding vegetation, and thundering flows of snowmelt than a good old-fashioned spring cleaning. In the spirit of "Healthy Water/Healthy Habitat," we will include outdoor cleaning as part of this annual spring ritual. On May 14th, we will once again tackle the Greeley/Loveland Irrigation Ditch as part of our annual National River Cleanup Event. Last year roughly 60 volunteers picked up more than five tons of garbage! That's the good news. The bad news is that the ditch needs to be cleaned again.

While not exactly "rivers," the irrigation ditches are included in our waterway cleanups because they drain into the main waterways of the Big Thompson Watershed. The Greeley/Loveland Irrigation Ditch eventually runs into Boyd Lake, an important aquatic habitat and recreational opportunity for local communities and the drinking water supply for the City of Greeley. By removing all the garbage from the ditch in the spring, we avoid washing unwanted debris into the lake when the irrigation water is turned on.

It is important to note that much of the garbage that ends up in our waterways is a result of household cleanings. Unfortunately, many folks dispose of their unwanted mattresses, car parts, shopping carts, and more by depositing them into the ditches and other waterways rather than taking them to the dump. You can help us educate the public about the importance of keeping our waterways clean by encouraging your neighbors to properly dispose of the refuse created by their spring cleaning activities. Don't have enough garbage to warrant a trip to the dump? How about joining with your neighbor(s) for a communal dumping spree? You can share the costs as well as the workload and you might even have a lot of fun in the process!



Volunteers collected over five tons of garbage in the Greeley/Loveland Irrigation Ditch on National River Cleanup Day in 2004.



COMMUNITIES IN ACTION

by Janeen Simon

The Big Thompson Watershed Forum's mission is to assess and protect the quality of water in the Big Thompson Watershed. One of the ways in which we achieve our mission is by conducting community outreach and education programs. We believe that educating people and getting them involved in cleanup, restoration, and protection activities will lead to a sense of stewardship for our water resources. This sense of stewardship perpetuates the process of protecting the very water that we all rely upon. Each year we conduct several of our own events, and participate in other organizations' activities such as Earth Day events, club and association meetings, and county or city festivals. Through these events, we target water professionals, business owners, teachers, children, individual community members, elected officials - any and all people that can influence the quality of the Big Thompson's water.

Our first event of the year is the annual *National River Cleanup Day*. Currently, we remove trash from one to three different areas within the City of Loveland, but our long term goal is to cover all of Loveland's waterbodies in a city-wide, community cleanup effort. Our hope is that eventually folks will choose a location in their own neighborhood and organize individual community cleanups that can be coordinated with the overall event. You can read more about this year's National River Cleanup Day scheduled for May 14th on page 4.

The *Thompson River Revival* is scheduled for September 24th. This will be our fourth year for the Revival and it will again be located at Centennial Park in Loveland. The River Revival is our signature event. We combine all the elements of our community outreach programs in one - education, restoration, and celebration. We invite the public to begin the day with a river cleanup along the bike path between Wilson Avenue and Highway 287. Following the cleanup, we offer a variety of educational activities hosted by many of our community partners.

Our goal is to have these activities be interactive, hands-on when possible, and fun. Some of our regular educators are the Colorado Division of Wildlife, Trout Unlimited, City of Loveland Stormwater Division, City of Loveland and Larimer County Open Space Commissions, Community Collaborative Rain and Hail Study, Hydro Construction's Water Wagon, Loveland Youth Gardeners, Larimer County Master Gardener, and many others. Each year we add new and different learning activities. To celebrate the Big Thompson and the community effort to protect the river, we offer a picnic lunch complete with live music to create a festival atmosphere. We want everyone to learn, have fun, and share in the care of our precious and scarce water resources.

Our final event for 2005 will be the *Loveland Children's Water Festival* to be held in October. Roughly 1,200 fifth-graders from the Thompson School District attend this day-long activity. The children learn everything there is to know about water - where it comes from, how it's processed, and where it ultimately goes - in a series of classroom and exhibition hall hands-on and interactive activities. The importance of good water quality, and what each individual child can do to protect it, are stressed along with easy-to-do water conservation techniques.

With a full-time staff of four, the Forum relies heavily on sponsorships and volunteer participation to be able to offer these important community activities. Besides the obvious benefits of extra bodies to do the work, and money to purchase the needed supplies, equipment, and other event materials, our partners are the essence of the Forum. They provide a valuable network of knowledge and expertise, support and, above all, enthusiasm, which creates a fun and dynamic atmosphere in which to conduct our many activities. It would be impossible to list everyone here that participates in our community outreach activities, but I would like to extend a heartfelt thank you to each and every municipality, agency, corporation, organization, association, community group, and individual that has shared their valuable time and other resources with the Forum.



Lyndsey Daugherty, a volunteer from the Thompson River Project, assisted with HydroSphere's Water Wagon at last year's Loveland Children's Water Festival.



Mounted birds of prey were on display at the 3rd Annual Thompson River Revival in 2004.

KEEP UP THE GOOD WORK!



FORUM & SCHOOL DISTRICT JOIN FORCES ON ROTARY CLUB CENTENNIAL PROJECT

By Melissa Adams, Thompson School District

Melissa Adams is Communications Coordinator, Thompson School District

When residents walk or ride on the city's bike trail and read the interpretive signs, they can thank an array of community representatives, including district students and the Big Thompson Watershed Forum. Scores of high school science students joined the City of Loveland, the Loveland Rotary Club, the Forum, and the Thompson School District to create seven interpretive kiosks and a three-paneled information station along the city's bike and hike trail. The joint project was unveiled in February as the Loveland Rotary Club's Centennial project, celebrating the 100th year of Rotary International.

Dick Lubinski, who was named Loveland Rotarian of the Year for his efforts on this undertaking, started working on the Centennial project nearly three years ago. "We had a goal to come up with a community project that was very centrally located, visible and permanent," he said. "We also wanted it to be an active project for our members, not just for us to be the funders."

The club asked local organizations to define some needs that fit the criteria. "We received about 15 proposals. We narrowed it down to six and asked them to come and present to our club. We selected the proposal from Tom Hewson and the Thompson School District high school science classes to create the kiosks."

What makes the project especially effective is that it will continue to involve students, Lubinski said. "Our goal is to rotate the information on the seven interpretive signs every six months through projects in high school science classes," said Hewson, Thompson Valley High School science teacher. Science students at TVHS, Loveland, and Mountain View high schools became part of the project. Eventually, he said, the high school students will work with middle or elementary students to prepare information. The eighth sign is the main information station at Centennial Park, which identifies the three sponsoring organizations.

Rob Buirgy, Executive Director of the Forum, said his organization bridged the classroom work with final deliverables by assisting with the design and printing of displays, and

staffing the call-in line for people who want more information. "At its heart, this project is about teachers and their students interacting with the community through an incredible public venue. The Forum will continue to provide the support necessary for long-term success."

Alistair McDonald, current Loveland Rotary Club President, was impressed with the effort. "It turned out better than anyone would have expected," he said. "It's a wonderful showcase for the work of the students." The students were impressed as well. "This was a great project, a lot of fun for the students," said MVHS science teacher Jory Sorensen. "The students were very inspired and motivated because it was real."

"I really enjoyed the technology part - learning to use the computer software," said TVHS River Project student Andy Harem. "But being outside is also awesome - and it shows the community that we have something to leave to them." Other students echoed similar sentiments in having a rich learning experience where they could see the results of their work actually helping the community. "I liked the creativity involved," said Kelsey Howe from TVHS. Tyler Heyne, an LHS senior in the environmental science class, designed one of the signs. He was proud that something he helped to make was becoming a piece of history, something that others would see and use. "It's showing our hard work," he said.

LHS science teacher, Darlene Halvorsen, said the students thought it was a pretty cool project because it is something people will use. "This took a huge amount of work on the part of the students," she said. "It was a great learning experience. They had to conduct research and learn new technology with computer programs, and now the community can enjoy it."

Along the path, the interpretive signs address riparian zones, cottonwood ecosystems, stream life and more. Gary Havener, Director of the Loveland Parks and Recreation Department, said the city assisted with the planning and logistics of placing the signage. He added that the signs enhance the bike/hike trail experience. "I think the real positive is having the kids involved in the original signage as well as in the future," he said.

Lubinski headed a committee that included Hewson, Buirgy, Sorensen, Halvorsen, several Rotary members, representatives from the City of Loveland, and Terry Schueler and Sharon Tillman from the Thompson School District.

We'd be Up a Creek without You...

This feature is dedicated to those individuals who are so essential to the Forum's success - our volunteers.

Please join us in welcoming three new members on our Board of Directors: Nicole Seltzer, Greg Dewey, and Gabri Vergara. Nicole is the Water Resources Planning & Environmental Liaison for the Northern Colorado Water Conservancy District; Greg serves as a Water Resources Engineer with the City of Loveland's Department of Water and Power; and Gabri is the Solid & Hazardous Waste Education Specialist for the Weld County Department of Public Health & Environment.

We'd also like to welcome Neil Grigg as this year's Board chair, and extend a heartfelt **Thank You!** to Steve Adams for his dedicated service as chairman for the past three years.

THANK YOU ALL FOR YOUR UNTIRING SUPPORT OF THE FORUM!





**The Forum Welcomes
Diana Johnson**

Diana Johnson recently joined the Forum as Associate Director. The position of Associate Director is a new position, created to better serve the Forum's status as a growing non-profit organization. Diana is responsible for managing a range of internal operations including fundraising, financial systems, human resources, and business activities. A primary aspect of her position is to develop and execute the Forum's comprehensive revenue strategies. Additional responsibilities include assisting the Executive Director with strategic planning, budgeting, organizational and staff development; and managing the Forum's community outreach, volunteer, and membership programs.



Diana brings to the Forum over seven years of nonprofit financial, operations and management experience, with particular expertise in policy creation, grant development and compliance, and marketing. Diana previously served as Business Director for Safe Shelter of St. Vrain Valley and Director of MBA Programs at CU Boulder's Leeds College of Business. Diana has a J.D. with an emphasis in environmental law from the University of Colorado at Boulder, and a B.A. from the University of California at Berkeley.

Diana sums up her excitement about working with the Forum: "I'm thrilled to be part of the Forum's team. We have all the necessary ingredients - a focused commitment to water quality protection; community, state and national support; and motivated, highly skilled staff, Board of Directors, and volunteers - to successfully achieve our mission and become a model for collaborative watershed protection in the arid west."

WELCOME, DIANA!

BTWF Membership Form

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Clip and mail this form to the address on the back of the newsletter, or join on-line at www.btwatershed.org. Thanks!

Donations

Please consider donating to the Big Thompson Watershed Forum today. We rely entirely on voluntary contributions for our operating funds. Only with your help can we continue to protect water quality. Your donation is completely tax deductible. Make your check payable to the Big Thompson Watershed Forum and mail it to us at the address on the back of the newsletter. For more information, contact Diana Johnson at djohnson@btwatershed.org or (970) 613-6162. In-kind contributions and volunteer services are also greatly appreciated. Thank you!

Does your employer have a Donation Matching Program?

This space is dedicated to introducing our readers to the partners that are critical to the Big Thompson Watershed Forum's vitality and success as an organization.



Commitment, passion, and service are a few of the words used to describe Bob Worrall. The Forum is fortunate to have someone like Bob as a partner in its mission. Bob has always lived his life giving to the community, particularly the environment. As part of his passion for environmental issues, Bob serves as "Creation Care Coordinator" for First United Presbyterian. This year, Bob has organized an active day of Earth Day celebration focusing on water topics, including a presentation entitled "Water is A Sacred Sacrament." Bob is instrumental in maintaining the Forum's partnership with the Lions Club, where he promotes our annual events and the importance of protecting the Big Thompson watershed.

We particularly appreciate Bob's unflinching commitment to the Loveland community and his sense of caring for its people, land, and water. Bob demonstrates daily the power of giving.

THANK YOU, BOB!



BIG THOMPSON WATERSHED FORUM

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THE FUTURE OF WATER QUALITY IS IN OUR HANDS

Join the Forum Today!

Since 1997, the BIG THOMPSON WATERSHED FORUM has worked to fulfill its mission to assess and protect the quality of water in the Big Thompson Watershed. We need you! Your participation broadens our representation and enriches your knowledge and ability to protect water quality. And...membership is free!

To join the Forum, visit our web site, call, or complete the form on page 7.

WET'S HAPPENING: Calendar of Upcoming Events

May 14 - 22, 2005: National River Cleanup Week Greeley/Loveland Irrigation Ditch, Loveland, CO. Call (970) 613-6166 or visit www.btwatershed.org for more information.

May 20-24, 2005: National River Rally: Inspiration, Education, Celebration Keystone, CO. Visit www.rivernetwork.org for more information.

June 12-16, 2005: American Water Works Association Annual Conference and Exposition San Francisco, CA. Visit www.awwa.org/ace2005 for more information.

August 25-26, 2005: Colorado Water Congress Summer Convention Steamboat Springs, CO. Visit www.cowatercongress.org for more information.

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