

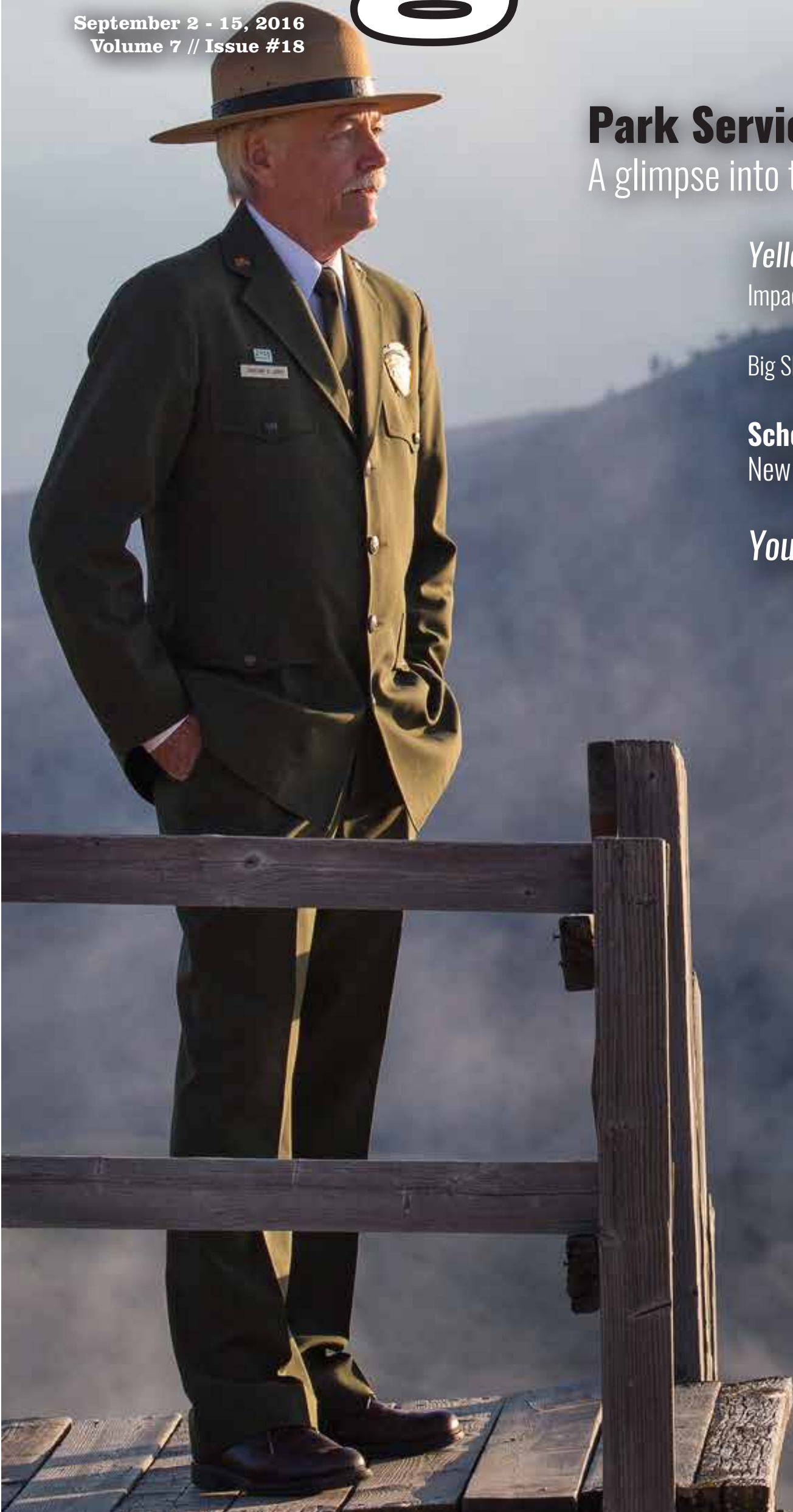
Explore

Life and land from the heart of the Yellowstone Region

FREE

Big Sky

September 2 - 15, 2016
Volume 7 // Issue #18



Park Service turns 100
A glimpse into the future

Yellowstone fish kill
Impacts on an iconic Western river

Big Sky Resort unveils \$150 million plan

School's in session
New faces, fall sports

Your guide to The Rut



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ON THE COVER: National Park Service Director Jonathan B. Jarvis peers over Mammoth Hot Springs in Yellowstone National Park. NPS PHOTO BY NEAL HERBERT

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Explore

Big Sky



What is this publication?

Explore Big Sky is the local paper for Big Sky, Montana, and a news and lifestyle journal for the Greater Yellowstone Region.



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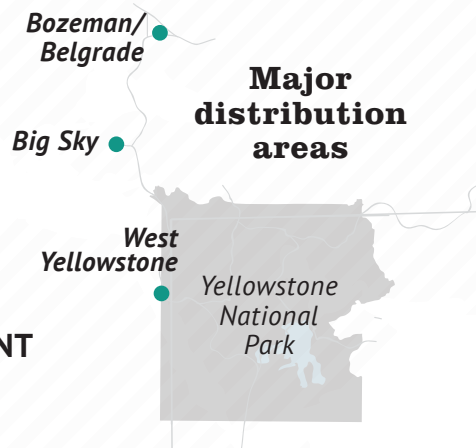
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Public comment sought on permanent Hyalite target shooting prohibition

CUSTER GALLATIN NATIONAL FOREST

The Custer Gallatin National Forest in April issued a special order temporarily prohibiting target shooting within the Hyalite drainage south of Bozeman. The Forest Service is now proposing to make this prohibition permanent and is seeking public comment.

The temporary restriction remains in place until an environmental analysis process is complete and a decision is reached, likely in January 2017.

The primary purpose of the temporary target shooting restriction was to address public safety issues. The Hyalite drainage receives more than 40,000 visitors monthly in the summer and over 20,000 monthly visitors in the winter. It is the most heavily recreated drainage on National Forest System lands in the state of Montana, with a large number of developed and dispersed recreation sites, 65 miles of road and approximately 70 miles of trail. The density of development and volume of recreationists make it unsafe to target shoot, which is defined as any shooting other than in pursuit of game.

The proposed restriction does not limit the ability to carry or possess a legal firearm within the Hyalite drainage.

Comments will be accepted until Sept. 19 and can be mailed to Gallatin National Forest, Attn: Steve Christiansen, P.O. Box 130, Bozeman, MT 59771. Electronic comments may be emailed to comments-northern-gallatin@fs.fed.us; enter “Hyalite Shooting Restriction” in the subject line. Comments may also be faxed to (406) 587-6758. If you have questions, contact Steve Christiansen at (406) 587-6701 or Lisa Stoeffler, Bozeman District Ranger, at (406) 522-2520.

Goodbye, West Yellowstone News

EBS STAFF

The West Yellowstone News is publishing its last article on Sept. 2, unless another company steps up to purchase it. The newspaper, one of 23 owned by Seattle-based Pioneer News Group, announced in mid-August that the paper’s finances were not supporting its overhead. The News was published by Pioneer’s sub-company, Big Sky Publishing, LLC.

Pioneer owns newspapers in Washington, Oregon, Utah, Idaho and Montana, including the Bozeman Daily Chronicle, the Belgrade News, and the now-defunct Lone Peak Lookout, which Pioneer closed in fall 2015.

“It’s a rough situation,” said Managing Editor Jeremy Weber on Aug. 31, the day EBS went to print with this newspaper. “We’ve been here 30 years and [the paper] has seen a lot of news. To see it go away is disappointing.”

Newspapers of various sizes across the country have seen declining advertising revenue in recent years. Last year, Pioneer’s Big Sky Publishing shuttered the Lone Peak Lookout after 33 years, also pointing to an inadequate revenue stream.

“We are not in the financial position to continue producing the publication under these circumstances,” said Big Sky Publishing President Stephanie Pressly in an Aug. 19 report published by the West Yellowstone News.

On its website, Pioneer News Group says it is a “...family-owned, multimedia company committed to advancing and empowering the communities it serves by providing essential information and services as a trusted and indispensable public resource.”

WMPAC hosts Law and Justice Center town hall meeting Sept. 13

EBS STAFF

On Tuesday, Sept. 13, at 7p.m. representatives from the city of Bozeman and Gallatin County will hold a town hall meeting at Big Sky’s Warren Miller Performing Arts Center to discuss the joint city/county Law and Justice Center plan that will be on the November ballot for Gallatin County voters.

Gallatin County and city of Bozeman commissions unanimously approved their pieces of a \$68.3 million bond for a joint Law and Justice Center project. The facility would house county sheriffs, city police, victim services, courts and clerks, city prosecutors, youth probation, the coroner, drug task force operations, and records for the criminal justice system.

The \$68.3 million bond is divided between county and city residents. Gallatin County’s share is \$47,630,481 and the city’s share is \$20,669,519. If approved by voters, Gallatin County taxes would increase by \$20.33 per \$100,000 in taxable market value and Bozeman city taxes would increase by \$24.58 per \$100,000 in taxable market value.

“The ability to protect child crime victims, domestic crime victims, and sexual violence victims will improve overnight,” Gallatin County Attorney Marty Lambert said in a press release.

If approved by voters, construction would begin in the spring of 2017 with the expectation of the center opening in 2019.

Future fisheries improvement projects approved for southwest Montana

MONTANA FISH, WILDLIFE AND PARKS

The Montana Fish and Wildlife Commission recently approved nearly \$250,000 in funding for 10 projects to improve Montana fisheries as part of the Future Fisheries Improvement Program.

Five projects, with a total grant award of \$179,550, are located in southwest Montana.

These projects include the installation of riparian fencing on the Big Hole River; the creation of Arctic grayling spawning habitat on Elk Springs Creek; a fish screen on Mulherin Creek to protect Yellowstone cutthroat trout from entering an irrigation ditch; a fish barrier on North Fork of Spanish Creek that will lead to protected westslope cutthroat trout habitat; and the reconnection of Yellowstone cutthroat trout habitat in the upper Shields River watershed.

Improvements are intended to improve fish reproduction, survival, and population size. These grants promote conservation of native species and are also expected to improve sport fishing.

Applications for the Future Fisheries Improvement Program winter-cycle grants are due by Dec. 1 to Fish, Wildlife and Park’s Fisheries Habitat Bureau. Any individual or group with a project designed to restore or enhance habitat for wild or native fish may apply for the funding. Applicants are encouraged to work with local FWP fisheries biologists. Landowners and other project partners usually share project costs, extending the grant dollars.

More information and Future Fisheries Improvement Program applications are available at fwp.mt.gov. Visit the Fishing home page, and scroll down to find the link to the Future Fisheries Improvement Program.

Op-ed

Montana veterans disappointed by Zinke's failure to lead

As Montana veterans, we feel it's our duty and obligation to hold our elected officials accountable for living up to the promises that they make to us and our families.

Montana has a long, proud tradition of military service. A higher percentage of our men and women serve in the military than almost every other state. Our veterans are proud patriots who put their unit and their country ahead of themselves.

Unfortunately, Congressman Ryan Zinke seems to have forgotten what military service is all about. And that's exactly why we stood on the steps of our capitol in Helena to share our frustration that the congressman plays politics with Montana veterans.

Make no mistake: We're not dismissing Congressman Zinke's service in the Navy SEALs. But we're expressing our disappointment in how he's chosen to serve his fellow veterans as a member of Congress.

Congressman Zinke has spent his time in office shamelessly touting his military service while at the same time disparaging and undermining veterans.

Congressman Zinke once compared veterans who receive U.S. Veterans Affairs benefits to "economic slaves." How can he equate men and women who served our nation and earned the benefits that come with that service to slaves?

At the same time, Congressman Zinke himself has received almost \$2,000 each month in veterans' benefits.

The congressman also told Iraq and Afghanistan veterans on a talk show "don't be a victim," while voting against \$15 million for veterans' health services and making it harder for VA workers to report evidence of wrongdoing.

We've all seen trouble at the VA—from wait times to lack of critical care for too many veterans—and we expect our elected leaders to help fix it. But how can the VA improve if Congressman Zinke stands in the way of efforts to make it work better?

We're also appalled that Congressman Zinke skips votes on veterans' issues to promote his own brand on cable news stations.

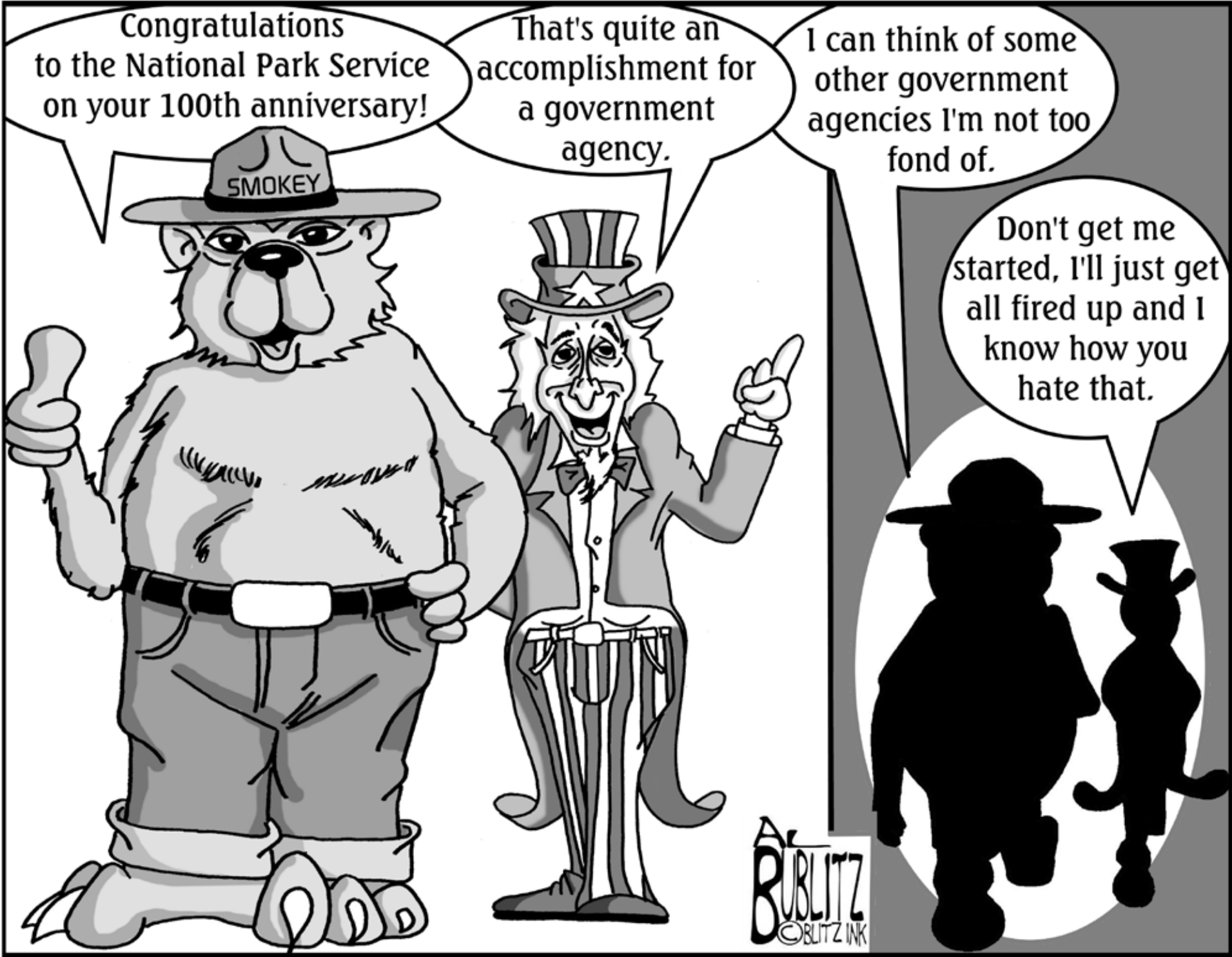
We, too, have served. In fact, one of us also served as a Navy SEAL, but bragging about our accomplishments—the number of people we've killed—was never part of our training. But Congressman Zinke brags about his kills.

The congressman also supports a presidential candidate in Donald Trump who insults families of fallen soldiers, prisoners of war and Purple Heart recipients.

We think Congressman Ryan Zinke needs to apologize to the veterans he has insulted for promoting himself over service, voting against issues that would support our fellow veterans and standing by a presidential candidate who would be a disaster for our nation and our overall security (and we'd rather take the word of 50 top national security advisers who have expressed concern about Trump over Ryan Zinke on this).

If Congressman Zinke won't apologize to the veterans he's forsaken in pursuit of his own prosperity, he needs to get out of the way so we can elect a leader who will not forget the contributions that Montana's 100,000 veterans made to this great state and country.

John Hollow (Helena), Captain, USNR-R
Diane Carlson-Evans (Helena), Captain, U.S. Army Nurse Corps
Jim Gillison (Missoula), Lt. Col., U.S. (Retired)





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Yellowstone River closed

Bullock declares state of emergency in response to closure, fish kill

BY AMANDA EGGERT
EBS ASSOCIATE EDITOR

LIVINGSTON, Mont. - Gov. Steve Bullock on Aug. 29 declared a state of emergency due to an aquatic invasive species in response to a massive fish kill and the resulting closure of 183 miles of the Yellowstone River.

Patricia Dowd with Gov. Bullock’s natural resource advisory team said Executive Order 14-2016 will help ease the financial burden upon businesses impacted by the closure, which bans all recreation on the Yellowstone River and its tributaries from the Yellowstone National Park boundary near Gardiner to the Highway 212 bridge in Laurel.

The closure was enacted by Montana Fish Wildlife and Parks on Aug. 19 to lessen recreational stressors and reduce the spread of a parasite that has killed an estimated tens of thousands of and mountain whitefish. FWP says the closure will remain in effect until environmental conditions improve and the widespread whitefish mortality ceases.

Hours after Bullock signed the Aug. 29 order, 45-50 business owners and employees who have lost revenue due to the closure attended a multi-agency “Rapid Response Unit” meeting at the Yellowstone Pioneer Lodge in Livingston. The meeting was organized by Bullock’s office to inform the public about resources that could minimize economic strain on an area that draws its lifeblood from the Yellowstone River.

Such resources include unemployment insurance for employees who fill out W-2 forms, federal small business loans with low interest rates, and up to \$15.4 million in state funds that are available as part of a Department of Commerce emergency grant program. Dowd added that the emergency declaration could help businesses recoup lost income from their insurance policies.

The “Rapid Response Unit” came on the heels of a heated public meeting at the Park County Fairgrounds on Aug. 24 attended by 300-400 people.

Fish, Wildlife and Parks spokeswoman Andrea Jones opened the Aug. 24 meeting with a summary of what the agency knows about the parasite responsible for the fish kill, *Tetrascapula bryosalmonae*.

Emigrant to Springdale appears to be hardest hit by the fish kill, Jones said. In addition to the tens of thousands of mountain whitefish that are believed to have died, a number of other species have succumbed to the parasite, which causes proliferative kidney disease.

FWP confirmed that at least one rainbow trout, one Yellowstone cutthroat trout, one sculpin and one long-nosed sucker have died from exposure to the parasite.

According to an Aug. 29 press release from FWP, two brown trout from Nelson’s Spring Creek tested positive for the presence of the parasite but were not exhibiting signs of the kidney disease that has ravaged whitefish. The other 27 other rainbow and brown trout collected from spring creeks along the upper Yellowstone tested negative for presence of the parasite.



A mountain whitefish lies dead on the banks of the Yellowstone River near Pine Creek Road in Paradise Valley. On Aug. 19, Montana Fish, Wildlife and Parks closed the Yellowstone to all recreation indefinitely. PHOTO BY RYAN WEAVER

At the Aug. 24 meeting, Jones reemphasized that this summer has been unusually hard on fish due to low flows and warm water—daytime high river temperatures have frequently reached 70 degrees. She explained that ideal temperatures for trout and whitefish are in the mid-50s F and the Yellowstone is running just 280 cubic feet per second above its all-time low from records dating back 120 years.

Officials don’t expect those conditions to ease in the near future. Sam Sheppard, the Region 3 supervisor for the agency, said the Yellowstone’s water temperatures don’t typically come down until October or November, and it won’t see increased flows until March.

One audience member said her ranch in Emigrant is experiencing “massive cancellations” due to the closure, and she knows more than 25 people who lost their jobs in the five-day stretch preceding the meeting.

Dan Vermillion, the Livingston-based FWP commissioner for this district, said it’s important that those impacted address the issue cooperatively.

“I really hope that we look at it from a community perspective and not one of us-versus-them,” Vermillion said.

He then spoke directly to those concerned that irrigation in Paradise Valley has contributed to low water levels. “Even if we shut off all the irrigation on the river, which is fairly minimal at this point in the summer, it would not turn this situation around,” Vermillion said.

Officials spoke about Montana’s complicated water rights. FWP does not have the authority to prevent water rights holders from drawing out of the Yellowstone and its tributaries, said Travis Horton, FWP’s region 3 fisheries manager.

Horton and Dr. Eileen Ryce, FWP’s hatchery bureau chief, fielded technical questions about the parasite and its impact upon fish.

The parasite has a complicated life cycle that requires two hosts, Ryce said. One key part of the cycle involves a bryozoan, an invertebrate animal similar to a freshwater sponge that serves as one of the hosts. Fish are the other host.

Ryce said the bryozoan host releases the infective stage for fish, which take in the parasite primarily through their gills. From there, the parasite travels into the bloodstream and causes kidney damage. The fish then excrete the parasite via waste products into the water, where it will infect more bryozoans and the cycle continues.

Ryce said spores of the parasite have been so prevalent in all fish tissue examined that it’s possible fish are dying of septic shock from exposure rather than the proliferative kidney disease. She added that the infection underway now would act like a vaccine: Fish that survive will have a strengthened immune response to future infections, she said.

When asked if FWP still believes that the parasite was introduced from another waterway via an unclean boat or waders, Ryce said the agency will likely never know when and where the parasite entered the Yellowstone. She said the agency still believes the river’s fish were not previously exposed to the parasite given how little immune response is evident in samples collected.

Horton said whitefish—which are native to Montana—tend to be highly sensitive to adverse conditions like temperature stress. “They’re typically the canary in the coal mine,” he said.

Ryce said the parasite does not pose a health risk to humans, dogs and birds—but the bacteria growing on decomposing fish could adversely affect them if consumed.

FWP’s message on collecting fish carcasses to mitigate impact to pets and wildlife was mixed. Initially, they encouraged people to collect what they could and dispose of the fish in an appropriate landfill.

However, Ryce changed the recommendation during the meeting, saying obtaining accurate carcass counts would be important to the agency as they make management decisions about the closure.

In the face of an unprecedented closure like this, FWP has been hammering home a message they’ve been spreading for 15 years to combat aquatic invasive species: clean, drain and dry gear before moving from one waterway to another. For more information on how to do this, read Pat Straub’s column on page 37.

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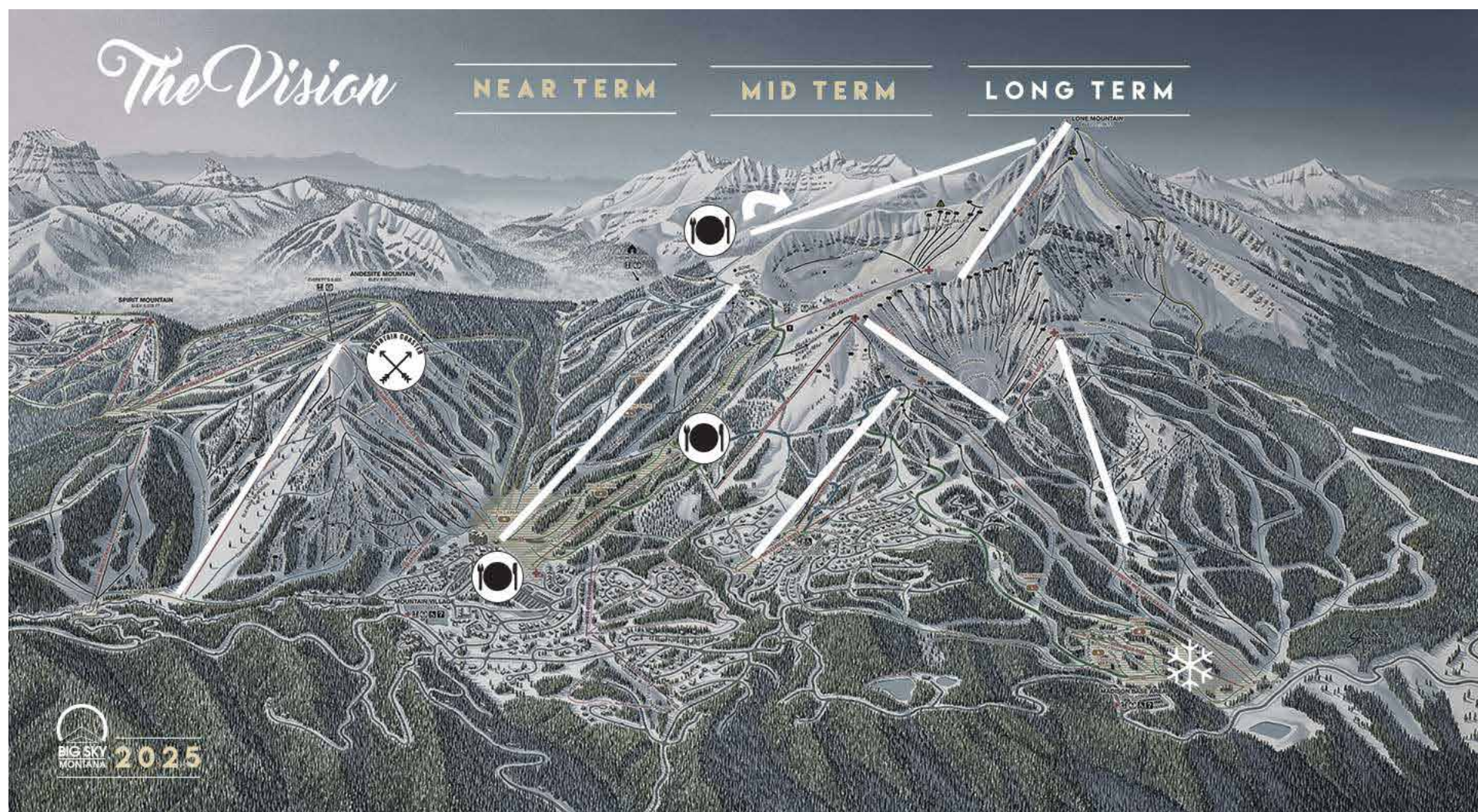
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Big Sky Resort plans \$150 million investment over next decade



The long-term plan for Big Sky Resort's 10-year, \$150 million investment—the white lines indicate future lift upgrades or expansion, including a lift installed on the south face of Lone Mountain, upgraded tram capacity and additional on-mountain dining establishments. IMAGE COURTESY OF BIG SKY RESORT

BY TYLER ALLEN

EBS SENIOR EDITOR

BIG SKY – Big Sky Resort on Aug. 24 announced a \$150 million investment in a 10-year vision for future improvements to create a European-style ski resort experience.

The plan includes 12 new or upgraded lifts—including eight bubble-enclosed lifts, a gondola originating at the Mountain Village and a lift on the south face—night skiing on Andesite Mountain, 10 new restaurants, as well as extensive renovations and construction in the Mountain Village.

More than 30 Big Sky business leaders, community members and media representatives listened as Stephen Kircher described the ambitious vision at the Peaks restaurant in the Summit Hotel. Kircher is the president of Boyne Resorts' eastern operation and his father Everett purchased Big Sky Resort in 1976, three years after it opened.

"This is about making Big Sky not just bigger but making it better," Kircher said. "We believe we have a unique positioning statement that ultimately we'll roll out in the next decade where we become the American Alps."

A new lift at the base of the Moonlight terrain is planned, creating the longest lift-served vertical drop in the U.S. at more than 4,500 feet.

Kircher laid out the investment in near-, mid- and long-term phases, and many of the near-term projects have been completed or are under construction, including two new Doppelmayr lifts that are replacing the Lone Peak Triple and Challenger chairlifts. The resort will also roll out variable ticket pricing this winter—a day ticket will cost \$89 to \$129—with the biggest discounts offered for early and online purchases.

Additional lift upgrades envisioned include Six Shooter, Ramcharger, Shedhorn, Iron Horse, Lone Moose, Swift Current, Thunder Wolf and a Lone Peak Tram capacity upgrade. New lifts would include a North Village Gondola, additional lifts in the Moonlight area and a chairlift that would access the south-face terrain that the tram services now.

The resort plans to offer night skiing off the Ramcharger lift beginning in the 2017-2018 season, and the North Village Gondola will eventually greet



Stephen Kircher, president of Boyne Resorts' eastern operation, describes the resort's vision for the future on Aug. 24 at the Peaks restaurant in the Summit Hotel. PHOTO BY AMANDA EGGERT

visitors near the existing tennis courts and where a future hotel will be built. The two-stage gondola will have a mid-mountain unloading station and top out at the bottom of The Bowl.

This capital investment will help accommodate an anticipated 650,000 annual visitors by 2025, and give Big Sky Resort international appeal. Employee housing, additional non-stop flights to Bozeman Yellowstone International Airport and expanded summer offerings—including more mountain biking trails, mountain coasters and high alpine ziplines—are also built into the plan.

Kircher said this is part of \$1 billion he expects to be invested in the next decade in the Big Sky community, by the resorts, developers and other business interests.

"Our goal is to help guide that [\$1 billion investment] ...to make this the most livable, the most sustainable mountain location in existence."

Visit bigsky2025.com for more information.

Back to school in Big Sky

BSSD chalks up eight new staffers

BY BELLA BUTLER
EBS CONTRIBUTOR

The time has come once again for Ophir schools and Lone Peak High School to open their doors to students for the new academic year. The students' first day was Aug. 31, but they didn't walk into the same school that they left in the spring, as the Big Sky School District is undergoing some major alterations.

The implementation of the International Baccalaureate (IB) program seems to be a standout change, but BSSD will also be welcoming a crop of new staff to aid in the transition process. Commenting on the new hires, Principal Alex Ide said it was "more about building resources than filling positions." Ide expressed excitement for the recently added faculty, as well as the administration's expectations for the school year.

"We are working towards becoming a flagship school for Montana," Ide said. "We plan to do this by building culture and building excellence." The community can expect great things for the future of Big Sky School District as well as the students that it houses.

Dr. Kate Eisele

Position: Middle/High School Science, AP Environmental Science

Eisele comes from Reno, Nevada, with her husband and dog where she previously taught math and science at an independent college preparatory school. She holds a doctorate in biology from the University of Nebraska, a bachelor's in plant science from Michigan Technological University, and studied teaching at Sierra Nevada College. Eisele joined the BSSD staff, in part, to work in a place with such abundant outdoor resources.



"We were drawn by the amazing recreational opportunities and the proximity to the Greater Yellowstone Ecosystem," she said. "I am thrilled to have a classroom a stone's throw from the outdoors and access to a great laboratory space."

Eisele's passion for the outdoors is evident, as she took an 18-day rafting trip this summer through the Grand Canyon with her husband.

James Miranda

Position: Middle/High School Math

Another Nevada resident, Miranda is moving to Big Sky from Las Vegas. Miranda received his bachelor's in physical science from the U.S. Naval Academy and his master's in health and human development from Montana State University. He has four children, three of whom are in college and the fourth is a sophomore at Lone Peak High School.



Miranda was an IB educator at his last school and joined the BSSD staff to be part IB again. The math instructor says it will be a challenge teaching grades six through 11, but he remains positive. "I am excited to be teaching all levels of math, as well as being down in Big Sky."

A sports enthusiast, Miranda has coached many athletic teams, including baseball, basketball and football. He also loves to hike and cook.

Sydney Garmer

Position: Middle/High School Math, AP Statistics



Garmer will be commuting to Big Sky from her current home in Belgrade. A Montana native, she grew up in Conrad and attended Carroll College in Helena, where she received her bachelor's in math with a minor in biology. She later attended MSU, where she earned her master's in education.

Garmer believes the BSSD is "going in a good direction [with] IB," and sees a great opportunity for her to help students in the new environment. "I am excited to get to meet students and be in the community," she said.

In addition to joining the Big Sky family, Garmer is also a new mom to a 1-month old.

Dr. Marlo Mitchem

Position: International Baccalaureate Curriculum Coordinator

Mitchem joins the Big Sky community after leaving her former home across the Atlantic in Frankfurt, Germany. She received her bachelor's in liberal arts from the University of Montana, her master's in "The Art of Teaching" from Pacific University, and has just finished her doctorate's in education policy and administration from the University of Minnesota.



Mitchem and her husband Brian Squillace, who is also a new teacher in Big Sky, wanted to find a place where they could "continue their commitment to an international education." Mitchem is very confident in the IB program.

"I believe in the vision of the school," she said. Her position is a new one at the school, but crucial one, she said. "It is always challenging for students to adopt a new program." Mitchem has two children, and she's excited for her family to be back in the U.S. after living overseas.

Tim Sullivan

Position: Music Instructor



Sullivan is moving to Big Sky from Boston, Massachusetts. Sullivan received his bachelor's degree from Furman University in South Carolina, but also spent a great deal of time educating himself in many positions in the Boston area. The new music teacher liked the art's appeal in the community of Big Sky, and it was a major part of his decision to join the BSSD staff.

"In many ways, the community of Big Sky represents what I believe to be the product of a successful arts education," Sullivan said. "Seeing so many people enjoy music and the general support given to the performing arts in this town was definitely part of my decision to move out here. I want to help engage Big Sky's youngest audiences by expanding the school's music curriculum and performing opportunities."

Sullivan describes himself as an outdoor enthusiast, and the mountain landscape was a great welcoming sign when he drove into beautiful Big Sky.

Arica Avila

Position: Middle/High School Counselor

This year, Big Sky School District made the decision to add a counselor specifically for Ophir Middle School and Lone Peak High School, and after an extended search, Avila was offered the position. During the hiring process, the administration was impressed with her instincts, can do attitude and approachable personality.



Having an additional counselor—especially one as sought after as Avila— will improve the counseling program in Big Sky schools tremendously, and it’s an exciting improvement. Avila is making the short move from Bozeman where she received her bachelor’s from MSU in history of arts, which she followed with a year working with Big Sky Youth Empowerment.

It was here that Avila discovered her passion for working with kids. She went back to MSU and earned her master’s in education for school counseling. Avila says she is thrilled to get to work in Big Sky. “I love Montana. I think I would rather be unemployed than to not get to work in this state,” she said.

The new counselor is also a Montana native who enjoys getting outside, and Avila encourages people to come in and introduce themselves. “I want people to drop by and say ‘hi.’ Come by and share your stories!”

Jackie Clawson

Position: Elementary Counselor

Avila isn’t the only terrific new counselor to be joining the BSSD family this school year. Originally from Ohio, Clawson has a bachelor’s in K-12 Music Education from Marietta College and a master’s in school counseling from Wright State University.



Clawson spent eight years working in student affairs in small, private liberal arts colleges around the country, but eventually came back to her love of teaching younger students. Ophir Elementary’s new counselor also has experience working beyond the borders of America.

“An interesting fact about myself is that I have built a house on six continents as a certified team leader for Habitat for Humanity,” she said. The Big Sky School District is excited to see Clawson carry over her experience and skills as a new team member this year!

Brian Squillace

Position: Middle School English and History

Joining the middle school staff this fall to teach English and history is Brian Squillace, husband of IB Coordinator Marlo Mitchem. Squillace has taught for the past five years a fair distance from Big Sky in Germany. Both his outdoor and family oriented personality make Squillace a great fit for the hometown of Lone Peak High School and Ophir schools.



The new staff member was drawn to the newly implemented IB program in Big Sky and Squillace has a great deal of international experience, including getting kidnapped while on a camel! Squillace has two children, one of which will be attending school this year. He is excited to get to meet students and be part of the Big Sky School District staff.

Isabella (Bella) Butler is a senior at Lone Peak High School. The outdoor-oriented community of Big Sky she grew up in has shaped her life, and she loves to snowboard, bike, rock climb, and practice her writing outside. Butler is also a member of many clubs and organizations at her school.



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To do so, they're remodeling a Mountain Village building that was formerly home to the Black Bear Bar and Grill.

“The interior was completely gutted,” said Brian Berry, human resources director at Big Sky Resort. “We’re almost starting from the ground up ... it looks nothing like it did when the Black Bear was present.”

Once the remodel is complete, the building interior will look similar to other Big Sky Resort employee dorms like the Golden Eagle Lodge in Meadow Village and Mountain Lodge, Berry said. There will be 44 pillows in 20 rooms. Rental rates have not yet been identified.

Berry said the investment in employee housing is part of the resort's 10-year vision known as "2025." On Aug. 24, Stephen Kircher, president of Boyne Resorts' eastern operations, said that plan includes \$12 million to \$13 million in investment for employee housing.

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HRDC hosting homebuyer education courses

EBS STAFF

BIG SKY – Community action agency the Human Resources Development Council is offering potential homebuyers an opportunity to learn more about the process on Sept. 13 and 14 at the Big Sky Community Food Bank.

Course topics will include advantages and disadvantages of homeownership, understanding credit, managing finances, the mortgage process and special programs that home shoppers might qualify for, among others.

A Housing and Urban Development-approved instructor will lead the classes, which run each evening from 5-9 p.m., to better help first-time homebuyers understand this process.

According to HRDC's website, completing homeownership education courses "may help you become eligible for down-payment assistance, low-interest mortgages and matched savings programs."

Courses are free and open to the public, but since space is limited, a \$25 refundable deposit is required. The deposit will be returned after the class, or students can opt to donate the money. Food, drinks and games will be provided.

Contact Sarah De Jong with HRDC at (406) 585-4882 or hbe@thehrdc.org for more information and to register.



PHOTO BY MATTHEW MILLMAN

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Section 2: ENVIRONMENT, SPORTS, & HEALTH



Natural richness abounds on Ted's side of mountain



BY TODD WILKINSON
EBS ENVIRONMENTAL COLUMNIST

In my book “Last Stand: Ted Turner’s Quest to Save a Troubled Planet,” there’s a chapter titled “Ted’s Side of the Mountain” that draws a stark dichotomy between Turner’s worldview and that of Tim Blixseth—the latter being the one-time “timber baron” who founded the Yellowstone Club and now

is a man dealing with epic financial difficulty.

Both men bought property in the same mountain range—Turner the 113,000-acre Flying D Ranch located along the northern face of the Spanish Peaks; Blixseth developed a tenth as much land as a real estate play for the ultra-wealthy within view of Lone Mountain. Each will leave behind very different legacies regarding their attitude and relationship with nature in Greater Yellowstone.

Turner has always known the status quo will never change unless you stand up and defy it.

As a billionaire businessman, he made his money the old fashioned way by practicing fiscal conservatism and paying careful attention to the bottom line. It’s worth mentioning that he didn’t amass his fortune by defiling the environment.

As an outlier, a technology disruptor and a maverick carrying the attitude of an underdog, Turner set out time and again—successfully—to prove naysayers wrong, particularly those who claim that conquering nature is the only way to make money.

When people told him it was a dumb idea to found 24-hour news in 1980, he didn’t listen. When critics said the Atlanta Braves could never become a perennial baseball contender, never win a World Series, he made the defeatists look foolish.

So it has been, too, with his pathfinding counterintuitive approaches to “eco-capitalism,” a way of thinking about business and environment that have been sharpened during Turner’s almost 30 years as a proud Greater Yellowstone denizen.

It’s not that Turner hasn’t made mistakes along the way, though he readily admits that he’s learned more from making course corrections in his thinking than from stretches when it’s been smooth sailing.

During the late 1980s, when he bought the Flying D, Montana cattle ranchers told Turner it would be a mistake for him to replace beef cows on his ranches with bison. Cattlemen looked upon buffalo as “exotic” species, even though the iconic Western behemoths had once been the most prolific native land mammals in the world.

Across more than a dozen ranches Turner today has a bison herd that numbers more than 50,000; no, he doesn’t manage them heavy-handedly as if they were domestic cattle.

Because of state laws, Turner is required to fence his bison in. He’s had few problems, however, with bison getting loose on neighboring property. At the same time, his fences allow ready transboundary movement of public elk, moose, pronghorn, and deer that spend part of the year on Turner grass (which he welcomes) and other seasons beyond his property.

Some of Turner’s private brucellosis-free bison contracted the disease after coming in contact with roaming infected public elk. Turner vaccinates his bison but unlike some cattle ranchers he doesn’t demonize elk and accepts the small risks of disease and losses to predators as a part of doing business.

He recognized early on that there was a karmic “rightness” about bringing bison back after settlers nearly annihilated all 35 million. As a species that evolved in the West over many millennia, Turner appreciates their superior competitive advantages over cattle.

Bison need less coddling than beef cows (which are bred to be docile). They can tolerate changing weather and climate better, don’t need to be fed huge amounts of hay to survive winters, don’t require being injected with growth hormones to fatten up, and are built by nature to better ward off predators.

That’s one reason, besides his fondness for wildlife, why Turner has a high tolerance for wolves and grizzly bears on the Flying D where today it’s home to 5,000 bison and one of the largest wolf packs in the Lower 48.

Despite assertions that wolf presence leaves bovines so stressed that pregnancy rates in cows are chronically adversely affected, pregnancy rates for Turner’s cow bison—with wolves in their midst—hover around 90 percent, says Turner’s staff veterinarian Dr. Dave Hunter.

Not long ago, Hunter ran an experiment comparing stress, via fecal cortisol and progesterone levels, in bison that had wolves around and other groups of bison that did not. Except for a stretch of weeks just after calving when mother bison are especially vigilant in protecting their babies, stress levels were identical.

“Wolves do not stress bison out. It’s almost like there’s this instinctive memory passed down through history in how the two species interact,” Hunter says, noting that Turner also tolerates the loss of bison calves to wolves. “Cow bison will kick the snot out of wolves if they veer too close to their calves and wolves respect that.”

The bison Turner sells commercially generate a profit. You can even eat the bison he raises at his Ted’s Montana Grill Restaurant in downtown Bozeman. Turner uses the revenue to keep re-enhancing the conservation values on his land—the essence of sustainability.

Those who insist that predators and prey on a western ranch are incompatible need to open their eyes. Turner is making it happen by defying the West’s cultural status quo of what it means to live a rich and meaningful life. As for Blixseth’s legacy, that’s for readers to decide.

EBS publishes Todd Wilkinson’s New West column every week online and twice a month in the print version of the paper. Wilkinson is author of the award-winning and critically acclaimed “Grizzlies of Pilgrim Creek, An Intimate Portrait of 399, the Most Famous Bear of Greater Yellowstone,” featuring 150 amazing photographs by Thomas D. Mangelsen. The book is only available at mangelsen.com/grizzly and when you order today you will receive a copy autographed by both author and photographer. Wilkinson also wrote a profile of Yellowstone Superintendent Dan Wenk for the summer 2016 edition of Mountain Outlaw magazine, now on newsstands.

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MSU researchers spread the buzz about bee viruses

BY MARSHALL SWEARINGEN
MSU NEWS SERVICE

BOZEMAN – Researchers at Montana State University have published an informational paper in a scholarly journal summarizing what’s known about the role that viruses play in honeybee health.

Co-authored by Michelle Flenniken, assistant professor in the Department of Plant Sciences and Plant Pathology, and two MSU graduate students, the article, “The Buzz About Honey Bee Viruses,” was published Aug. 18 in the journal PLoS Pathogens. The journal publishes “outstanding original research and commentary that significantly advances the understanding of pathogens and how they interact with their host organisms,” according to the journal website.

The article’s release came two days ahead of National Honey Bee Day, which was declared in 2010 by U.S. Secretary of Agriculture Tom Vilsack to further awareness of the important role that honeybees play in the food system and the threats the pollinators face, including from pathogens such as the viruses studied by the Flenniken lab.

“This is an exciting time in honey bee virology,” the authors write in the paper, adding that the study of bee viruses is “a rapidly growing field currently in its infancy.”

More than a dozen viruses circulate within and between honeybee colonies. Several viruses can be transmitted among multiple bee species, including bumblebees, and some viruses are carried by parasitic mites.

Honeybee colony losses have averaged 33 percent annually since 2006, increased from a historic average of approximately 12 percent. There are multiple factors, including chemical exposure, lack of quality forage and pathogen prevalence and abundance that impact honeybee colony losses. Flenniken said colonies afflicted with Colony Collapse Disorder, which accounts for approximately 5 percent of annual losses but is poorly understood, have a higher prevalence of certain viruses.

“We know that certain viruses correlate with poor colony health and colony losses, but the specific viruses differ depending on location and other variables,” Flenniken said. “There’s not one virus that’s always the culprit.”



Michelle Flenniken studies honeybee pathogens under a microscope in her lab in MSU’s Department of Plant Sciences and Plant Pathology. PHOTO BY KELLY GORHAM

According to co-author Alex McMenamin, a doctoral student in MSU’s Department of Microbiology and Immunology and a member of the Flenniken lab, new technologies are opening frontiers for bee pathogen research.

Until very recently, researchers have only been able to study the impact of viruses on bees at the macroscopic level, McMenamin said.

“Now, we can study individual viruses and their interactions with individual honeybee cells,” he said.

“We can look at all the genes that are expressed or ‘turned on’ when a bee is infected with a virus,” Flenniken added.

Eventually, pinpointing the molecular behavior of bee viruses and the bees’ immune response could help researchers understand the specific role those pathogens play in the complex equation of colony deaths, as well as develop management strategies to boost colony health.

Flenniken and the other co-authors, which includes Department of Microbiology and Immunology doctoral student Laura Brutscher, were invited to write the review paper as part of a special series that the PLoS Pathogens website calls a “living collection of short, educational, and highly useful articles.”

John Sherwood, head of MSU’s Department of Plant Sciences and Plant Pathology, said Flenniken and her collaborators are at the forefront of research into honeybee viruses.

“There is a lot of concern about honeybee colony collapse, but it’s been a very difficult puzzle to solve,” Sherwood said. “What’s unique about Michelle’s work is that until recently there has been relatively little research on the viruses [that may be key pieces of the puzzle].”

Publishing an article about bees in a journal that covers immunology, virology and microbiology is another illustration of how the study of pollinators is branching out beyond the fields of entomology and ecology, Flenniken said.

“Researchers from multiple disciplines are talking to each other about pollinator health,” she said, “and are pressing forward to address some of the important questions in bee biology.”

RECYCLE



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LPHS volleyball wins Battle in the Big Sky, gears up for promising season

BY AMANDA EGGERT
EBS ASSOCIATE EDITOR

BIG SKY – With a team packed with returning players and a strong showing on Aug. 27 at the third annual Battle in the Big Sky tournament, Lone Peak High School volleyball coach Sarah Phelps is feeling confident about the 2016 season.

“This is a team that is going to do great things,” Phelps said. “[When] we started this program six years ago, we were lucky to have 11 [players], so it’s absolutely phenomenal to have so many young women playing volleyball.”

There are 10 girls on the varsity team and 12 junior varsity players—the largest turnout in the history of LPHS’s volleyball program.

Phelps didn’t lose any players from last year’s team to graduation, and three players who earned All-Conference honors in 2015—senior Luisa Locker, sophomore Solae Swenson and senior Bianca Godoy—are back this year.

Last year, the Big Horns had their best season to date, finishing with a 13-6 record. “They’re just one year older, one year smarter, and one year stronger,” Phelps said of this year’s team.

LPHS won all eight matches they played on Aug. 27. In addition to winning the tournament, two Big Horns were named to the All-Tournament team—junior setter Kuka Holder and junior right-side hitter Bryn Iskenderian were recognized by the other coaches for their contributions.

Seven teams competed in the Battle in the Big Sky, including close rival White Sulphur Springs—the team that knocked the Big Horns out of the District tournament last year.

But on Aug. 27, the Big Horns came out on top, losing the first set 16-14 and then rallying in the second to win 15-7. During the third set—played to 11 rather than 15, per tournament rules—LPHS secured an 11-6 win.


Varsity teams from Shields Valley, Fromberg and West Yellowstone participated in the tournament, as well as two junior varsity teams from Big Sky High School in Missoula.

The Big Horns’ home opener is Saturday, Sept. 3, at 7 p.m. against Shields Valley.



Lone Peak High School kicked off the fall sports season with a solid showing at the third annual Battle in the Big Sky. They won all eight matches they played, claiming the tournament title in the process. PHOTO BY SARAH PHELPS

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Big Horns fall to Harlowton in season opener under the lights

BY TYLER ALLEN
EBS SENIOR EDITOR

BIG SKY – The evening of Friday, Aug. 26, was historic for the Lone Peak High School football program. It marked their inaugural contest as an eight-man team, the Big Horns’ debut in the 8C Southern Division and the program’s first game played under lights in Big Sky.

The momentous occasion and large crowd didn’t faze the Harlowton Engineers, as they scored with 8 seconds left in the first quarter on their way to a 28-12 victory. But after the initial touchdown the Big Horn defense found its stride and shut out the visitors for the balance of the first half.

“It was our first eight-man game and I could tell they were a little nervous, a little flat,” said Big Horn head coach Matt Bakken. “Our defense did a great job, especially in the first half, holding them to six points. Our offense has to work on timing and not making any mental mistakes.”

Bakken said his team played well considering it was adjusting to a different game than the six-man format the program competed in until this year. Eight-man rules are more traditional, with 10-yard first downs instead of 15 yards, and the post-touchdown kick is worth one point instead of two.

The school petitioned the Montana High School Association to allow the team one more year in the six-man class to give them time to adjust, Bakken said. But with a total school enrollment cutoff of 65 students and Lone Peak’s student body at nearly 100, the Big Horns were denied.

“It’s a new game. Having those two extra defenders makes it more difficult to get first downs and hard to break a long run,” Bakken said. “It’s a more defensive game, you can’t dance around in eight-man, you have to run straight at them.”

Harlowton opened up a 28-0 lead in the second half before Big Horns quarterback Eddie Starz connected with Liam Germain for a 32-yard



Big Horns quarterback Eddie Starz runs the football through the Harlowton defense Aug. 26 in Big Sky.
PHOTO BY SAM MUELLER

touchdown. Germain added a 15-yard touchdown run to close the gap to 28-12 late in the third quarter, but that would end the scoring for the night.

Starz and fellow senior, running back Bridger Babcock, both received All-State honors last year and the team will look to them, as well as defensive standout Holden Samuels, to lead them in the Big Horns’ new division.

Bakken said the team would be working on fundamentals and tackling ahead of their big game on the road against Denton/Geyser/Stanford on Saturday, Sept. 3. DGS is the defending six-man state champion and also moved to eight-man this season.

The Big Horns will have one more game under the lights in Big Sky this season, when they host Shields Valley on Oct. 7 for homecoming. Their next home game is Saturday, Sept. 10, against Broadview/Lavina.

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MSU Rodeo's strong finish in 2015-2016 bolsters hopes for upcoming season

BY MARSHALL SWEARINGEN
MSU NEWS SERVICE

BOZEMAN – The Montana State University Rodeo team, which had a banner year in 2015-2016, looks to continue a tradition of dominance in the Big Sky Region as the fall rodeo season opens in coming weeks, stoking hopes that the team could win a national title in the upcoming season.

The MSU men's and women's teams racked up enough points during last season's 10 collegiate rodeos to place first in the Big Sky Region, marking a 13th consecutive season win for the women's team. The entire team ranked first in the region in six out of collegiate rodeo's 10 events, which include bareback riding, steer wrestling and co-ed team roping.

Topping off the season, 13 team members qualified to compete in the National College Finals Rodeo, held this summer in Casper, Wyoming, by ranking in the top three in the Big Sky Region for their respective events.

"That shows how dominant MSU was across the board last year," said Andy Bolich, MSU Rodeo head coach. "I don't think there was any other school that had as many people qualify as we did."

Season highlights included Cierra Tredway, a senior from Belgrade, winning the Big Sky Region women's all-around for her performance in barrel racing, breakaway roping and other events. Senior Wyatt Bloom from Bend, Oregon, placed first in bareback riding for a fourth year in a row.

"I can't remember that ever happening before," Bolich said of Bloom's winning streak.

During the regular season, the toughest competition for MSU rodeo team members is often from their teammates, Bolich said. But at the National College Finals Rodeo, MSU riders and ropers are pitted against roughly 400 of the top contestants in the country.

"It's an individual sport, but at the end of the day it's a team thing also," said MSU business marketing major RYANNE TRACY, who as a sophomore competed in team roping and goat tying at the 2016 National College Finals Rodeo.

MSU has won eight national rodeo championships in the past 45 years, the most recent of which was a women's team victory in 2011. Taking home a team championship at the National College Finals Rodeo "is the big goal every year," Bolich said.

This year in Casper, five MSU rodeo team members placed in the top six in their events, and four members qualified for the finals round. The MSU team placed 18th overall, a solid finish considering the tight point margins, Bolich said.

"Finishing in the top 20 at that rodeo is good," he added.

Seventeen of the MSU team's 57 members in 2015-2016 were graduating seniors, leaving some big boots to fill, Bolich said. But, he said, the team has a solid group of incoming students, and the returning members are one year stronger.

"I have high expectations for this team," he said.

Bolich said to watch for Sage Newman when the chutes open on the 2016-2017 season with a rodeo in Cody, Wyoming, on Sept. 9. An incoming freshman from Melstone, Newman won saddle bronc at this year's National High School Rodeo Finals. Chase Dougherty, another incoming freshman, won bull riding on the summer amateur circuit.

"We should be really tough at regional level and also at the national finals," Bolich said. "We'll have a good chance at a team championship."

Will Powell, a business management major who took second in the men's all-around and first in steer wrestling in the region in 2015-2016, said "most of the team members have been rodeoing all summer, and everybody's really sharp."

"I think it's going to be a really good year," he said.



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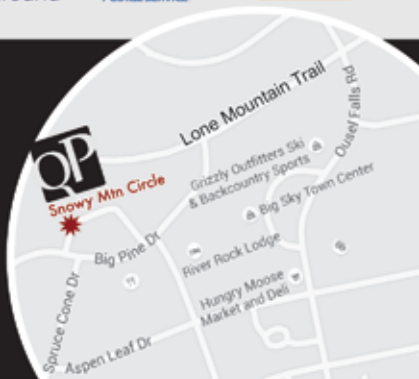
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Big Sky crosses home after 14th softball season

Huckers crowned season, tournament champs

BY JOSEPH T. O'CONNOR
EBS EDITOR

BIG SKY – Softball in Big Sky is more like a religion than a game.

Every Monday, Tuesday and Wednesday from June through August, smells of barbeque mingle with fans young and old in the Big Sky Community Park ball fields for a tradition that’s held captive summer audiences in this small town for nearly 15 years.

The Big Sky Softball League wrapped up season 14 with the annual weekend tournament Aug. 26-28. When the tourney dust had settled and the final out recorded, the Hillbilly Huckers—owners of three Big Sky Softball League tournament championships and eight regular season titles—had risen to the top yet again.

In the final tourney game, the Huckers crushed Black Bear by a final score of 33-7.

“It was an unexpected undefeated season with lots of luck along the way,” said Huckers manager Lee Horning, also co-commissioner for the league. “[We had] many one and two run games including an extra-inning game. We love playing against all the quality competition in this league.”

This 2016 season saw 16 teams competing for the top spot in the league, but on Aug. 24 the Huckers were again the last team standing after defeating Country Market 17-10 in the regular season championship game.

Despite a rally late in the game by Country Market, which finished 14-1 in the regular season this year, the Huckers offensive onslaught and strong pitching effort proved too much for the 2015 regular season and tournament champions.

A number of Big Sky groups and organizations have contributed to the league’s success over the years, Horning said.

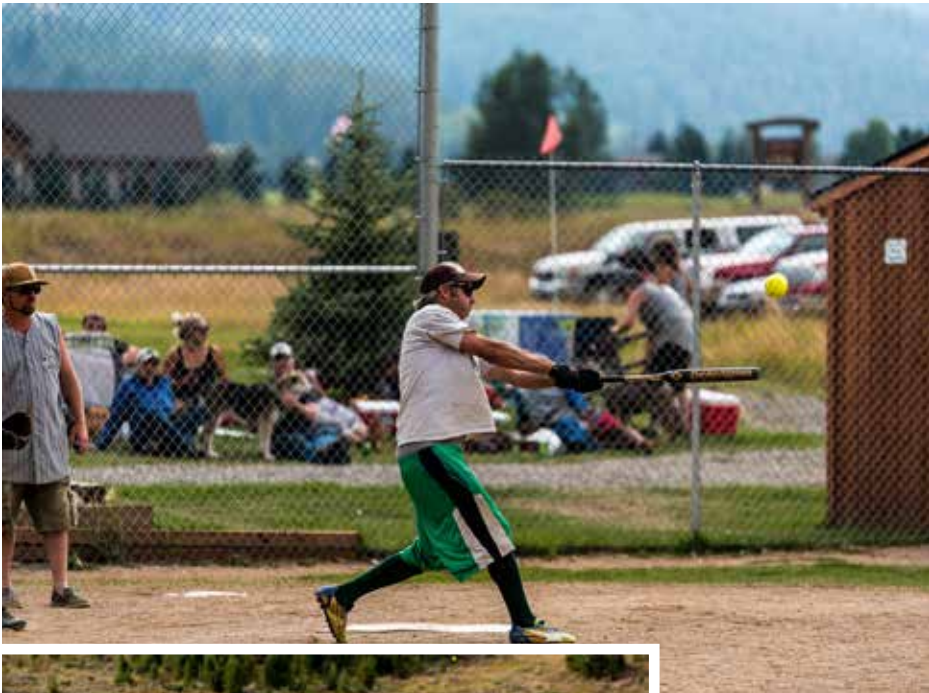
Among those responsible included the Big Sky Community Organization, which manages and operates the community park and area trails; league co-commissioner Ethan Magnant; official scorekeeper “Queen” Jean Palmer; communications director Margo Magnant; and head umpire Dave Schwalbe.

“The year overall was another success,” Horning said. “Our goal is to provide an enjoyable and fair league for participants of varied ages and abilities; a place for community members and teams to gather together around the sport of softball.”

See you next year. Now get to church.

Big Sky Softball League regular season results:

Hillbilly Huckers	15-0
Country Market	14-1
Yellowstone Club	11-4
Riverhouse	10-5
Black Bear	9-6
CIA/Broken Spoke	9-6
Jarvis	8-7
Michaelangelo’s	7-8
Montucky Moonshiners	7-8
Yeti Dogs	6-9
Milkie’s	6-9
Cab Lizards	5-10
Blue Mooners	5-10
Lone Mtn. Land Co.	4-11
The Cave	2-13
Big Sky Resort	2-13



Johnny Baer steps into one Aug. 28 during the final day of the 2016 Big Sky Softball Tournament. PHOTOS BY KYLE MELEHES/KYLE MELEHES.PHOTOGRAPHY

The Black Bear’s Jake Nelson rounds third and heads for home.



Black Bear celebrates victory on Sunday.



Mouth full of clay. Caleb Helsley slides headfirst into second base.



EYE ON THE BALL

5 bold predictions for the NFL season



BY BRANDON NILES
EBS SPORTS COLUMNIST

The 2016 NFL season kicks off Thursday night, Sept. 8, with a rematch of last year's Super Bowl contenders, as the Carolina Panthers visit the Denver

Broncos seeking revenge. Opening weekend is one of my favorite times of the year, as the culmination of a long off-season of hope and speculation comes to fruition. Here are five bold predictions to get you ready for football!

The Oakland Raiders will make the playoffs instead of the Denver Broncos

Denver won the Super Bowl last year, so it's hard to imagine they won't be competitive again this season. However, a closer look reveals a team that still has questions at the quarterback position, lost significant talent on their fourth-ranked defense from last year, and benefited in 2015 from a tremendous amount of luck.

Call me crazy, but with the Kansas City Chiefs looking strong, and the Raiders coming off a promising 7-9 season and loaded with young talent, I think Denver might be in for a rude awakening in 2016, while the Raiders take a step forward into wild-card consideration.

Devonta Freeman will lead the league in yards from scrimmage

This might not seem bold, as Freeman had 1,639 yards from scrimmage a year ago, good for fifth in the league.

However, doubt surrounds the third-year back out of Florida State, who seemingly came out of nowhere for the Atlanta Falcons last season.

Freeman is thought to be in store for a time-share with second-year back Tevin Coleman, but when I watch the Falcons, Freeman is the only running back who impresses me. Freeman caught 73 passes last year—third among running backs—and should be relied on heavily again. Some think last year was a fluke, but I'm buying all the Devonta Freeman stock I can get my hands on.

Tyrod Taylor will make the Pro Bowl

And I mean legitimately, not after the first six players decline to go for various reasons. It's hard to make the Pro Bowl at the quarterback position with so many talented players in the league, but Taylor will lead a Buffalo Bills offense flush with weapons and will benefit from a full off-season entrenched as the starter.

Taylor is a dual-threat playmaker who accounted for 24 touchdowns in 14 games last season and should lead the Bills to a wild-card berth this year.

The Minnesota Vikings will repeat as NFC North champions

While the Green Bay Packers are always considered Super Bowl favorites, it was the Vikings who won the NFC North division last season with an 11-5 record. The Vikings feature an emerging young quarterback in Teddy Bridgewater, a tremendous amount of talent on the defensive side of the ball, and an improved offensive line.

Plus, they still have the best running back in the game in Adrian Peterson and added first-round draft pick

Laquon Treadwell to their receiving corps. The Packers remain talented and should compete, but the Vikings will win another 11 or 12 games and repeat as division winners.

Tajae Sharpe will win Offensive Rookie of the Year

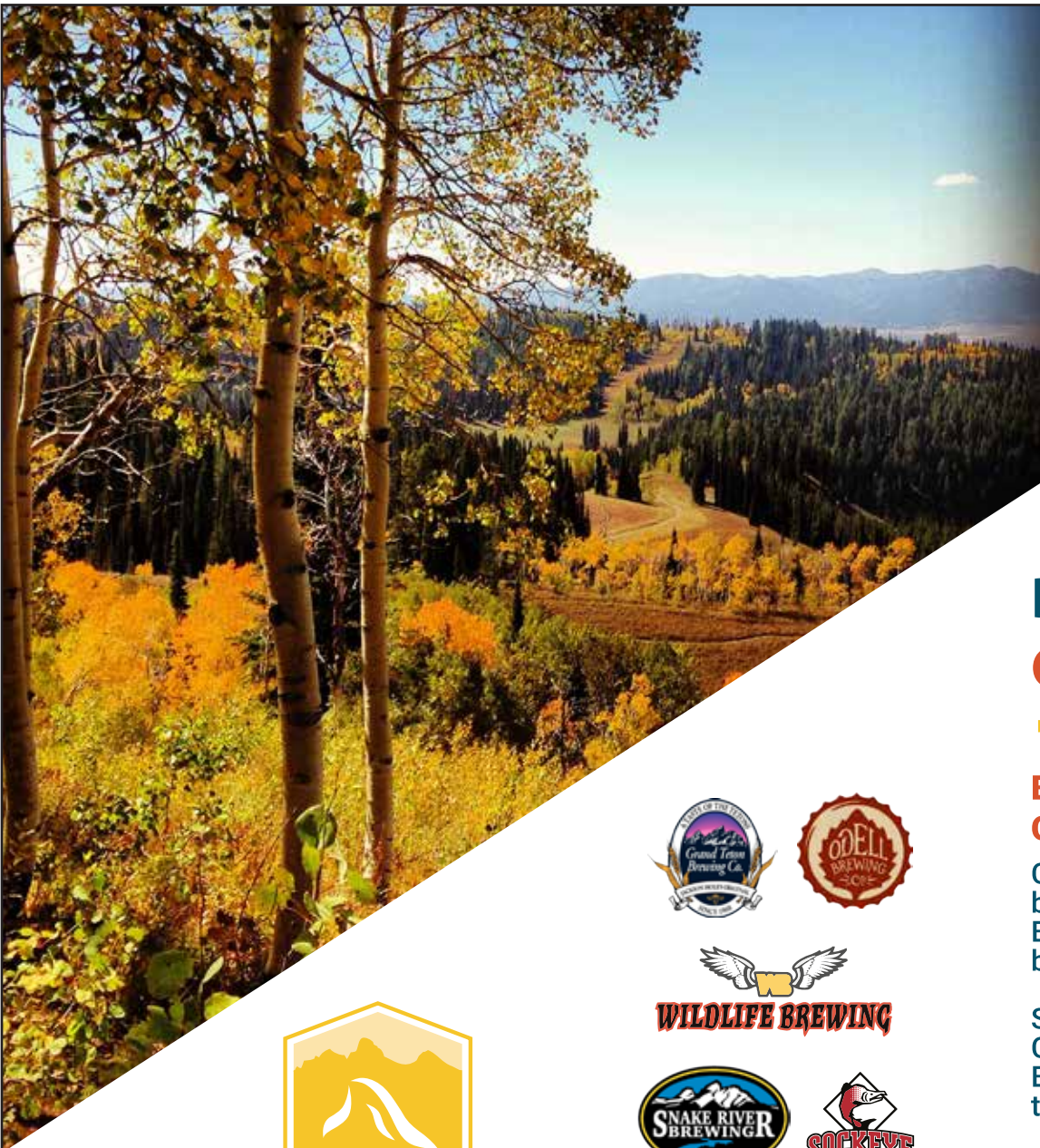
Usually, quarterbacks or running backs win this award, not receivers drafted in the fifth round. However, this kid out of Massachusetts has been very impressive for the Tennessee Titans in camp and the pre-season thus far, and seems to have already earned a starting job.

Sharpe has the trust of young quarterback Marcus Mariota and his excellent hands and route-running ability have put to rest any concerns there were about his ability to adjust to the NFL level.

In addition to bold season-long predictions, I like to make a pre-season Super Bowl prediction. There are several teams in each conference that should be competitive, including the Panthers, New England Patriots, Arizona Cardinals, and the Green Bay Packers. However, when I look at the off-seasons each team had, the talent and coaching in place, and the quarterbacks leading each team, two squads stand out most to me.

Super Bowl prediction: Seattle Seahawks over the Pittsburgh Steelers, 27-23.

Brandon Niles is a longtime fan of football and scotch, and has been writing about sports for the past decade. He is a fantasy football scout for 4for4 Fantasy Football and is co-host of the 2 Guys Podcast.



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Golf tips from a pro

Understanding and controlling ball flight

BY MARK WEHRMAN
EBS CONTRIBUTOR

One of the toughest things about golf is the ability to fix or correct your swing when you start to have issues. Usually this happens on the golf course and many times it can ruin a good round because one bad shot can start a snowball effect for the rest of your day.

However, if you have a general knowledge of two things that directly control the flight of your golf ball, you might be able to self-diagnose your “misses” just enough to get you through the round without major damage to your score.

The first major factor controlling ball flight is the angle of your clubface at impact—clubface angle controls 80 percent of the ball flight. If your ball slices to the right, then the clubface is open or pointed to the right at impact (for a right handed golfer). If your ball hooks, then your clubface is closed, or pointed to the left at impact. If you hit a straight shot you’ve delivered the clubface square to the target at impact.

The second thing controlling ball flight is the path of the golf club in relation to the swing plane. Where the ball starts its flight, coming off the clubface, is directly related to the path of the club heading into impact. If the path of your club is moving inside to out, your ball will start right of the target (for a right handed golfer). If the path of your club is moving outside to in, the ball will start left of your target causing you to pull the ball. When your ball flight begins straight towards your target, the path of your golf club is “on plane.”

Mark Wehrman is the PGA Head Professional at the Big Sky Resort Golf Course.



The angle of your clubface controls 80 percent of the golf ball’s flight. If you hit a straight shot you’ve delivered the clubface square to the target at impact. PHOTO BY TYLER ALLEN



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DOCTOR'S NOTE

EpiPen: \$700 for less than \$1 of medicine



BY DR. JEFF DANIELS
EBS MEDICAL COLUMNIST

Is it inevitable that the price of the medicines we rely on will only be affordable to the rich?

Another example of this disturbing trend emerged recently when the price of a dispensing device for a life-saving drug increased to a point where many people are concerned they can't afford it, with or without insurance. Why should such an essential drug, used by millions of people, be priced like a luxury?

An EpiPen is a very convenient way to administer the drug epinephrine, also known as adrenalin. Epinephrine is an immediate acting treatment once a severe allergic reaction is initiated in those with insect sting or severe food allergies, or any other reason for an anaphylactic reaction.

When someone with high allergic sensitivity is exposed to the offending substance, a certain segment of the body's immune defenses lead to the excessive release of chemicals such as histamine. This can cause generalized itching, swelling of the face, hives, difficulty breathing, and a drop of blood pressure to the point of shock; and anaphylactic shock can prove fatal. Epinephrine reverses this process very quickly.

The auto-injector technology behind the EpiPen was first developed by the military for administration of an antidote against nerve gas. Since it became publicly available around 1980, the EpiPen has been recognized as a legitimate way to carry or store this drug, and have it ready for emergency use. Here in Montana, an EMT can also administer it if a severe reaction prevents a person from self-administering the drug.

Mylan Pharmaceuticals, who bought the rights to manufacture the EpiPen from Merck & Co. in 2007, has consistently raised the price. It now costs about \$700 to purchase two EpiPens—they're always sold as a "two-pack." Since the drug that's in the EpiPen has a shelf life of about a year, technically they should be replaced annually. For a child with a life-threatening peanut allergy, that could add up to a year of college tuition by the time they graduate high school! The vast majority of EpiPens that are prescribed are never used because most patients learn to avoid the substance that gives them anaphylaxis.

I've used epinephrine out of a bottle during my work both as an allergist and at my Big Sky practice. The same amount of the drug that is injected out of an EpiPen costs 10 cents; the needle used for administration of the epinephrine costs 15 cents. For my patients who can't afford an EpiPen, I have supplied many pre-filled syringes of epinephrine.

The cost of an EpiPen has increased tremendously since they were first introduced. Mylan is in the spotlight now and there are congressional hearings to get answers as to why the costs are skyrocketing. One reason could be the fact that Auvi-Q, a similar product, was recalled in 2015 because of the possibility of inaccurate dosing. There are some other products on the market that deliver epinephrine for even more money, but EpiPen has the lion's share of sales.

On Aug. 29, Mylan announced that it would offer a generic version of their brand EpiPen for approximately \$300. This news prompted Vermont Sen. Bernie Sanders to tweet: "At \$300 generic EpiPens will still cost 3 times more than they did in 2007. This isn't a discount. It's a PR move." I agree, but at least it's a move in the right direction!

Dr. Jeff Daniels was the recipient of the 2016 Big Sky Chamber of Commerce Cbet Huntley Lifetime Achievement Award and has been practicing medicine in Big Sky since 1994, when he and his family moved here from New York City. A unique program he implements has attracted more than 700 medical students and young doctors to train with the Medical Clinic of Big Sky.

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From Jackie *with love*

Grow your own medicine



BY JACKIE RAINFORD CORCORAN
EBS HEALTH COLUMNIST

According to the American Cancer Society, “In 2016, there will be an estimated 1,685,210 new cancer cases diagnosed and 595,690 cancer deaths in the U.S.” Those are staggering numbers. If we were to take Hippocrates’ adage to heart, “Let food be thy medicine, and medicine be thy food” we would be sure to eat cruciferous vegetables daily.

Sulforaphane is one of the potent medicinal compounds found in cruciferous vegetables. Scientific research is proving it to be effective in not only preventing and treating cancer but also depression, inflammation, cardiovascular disease, premature aging and autism.

Cruciferous vegetables—named for their four-petal flowers that take the shape of a cross—are accessible, economical and delicious. They include broccoli sprouts, broccoli, cauliflower, Brussels sprouts, kale, cabbage, bok choy, arugula, collard greens, horseradish, kohlrabi, radishes, turnips and watercress.

It’s best to eat these hearty vegetables fresh rather than frozen, and lightly steamed or raw rather than thoroughly cooked, as excessive heat denatures the Sulforaphane. (There is debate about eating them raw for those with thyroid disorders. Consult your physician if you have been diagnosed with Hashimoto’s Disease.)

Researchers at Johns Hopkins University have found that Sulforaphane may inhibit the growth of breast cancer stem cells while helping the liver to oust harmful toxins and carcinogens from the body. Another study at Ulster University in Northern Ireland showed that eating approximately 3.5 ounces of sprouted vegetables every day protects against DNA damage, which is commonly associated with cancer risk.

The cruciferous vegetable that allows the most Sulforaphane to be absorbed by your body is broccoli sprouts. These immature seedlings of broccoli plants contain 10-100 times more Sulforaphane than full-grown broccoli. But broccoli, along with the other previously listed vegetables, is still a rich source and should be enjoyed regularly.

Broccoli sprouts are especially appealing because you can easily and affordably sprout your own throughout the year. Another added bonus is that they’re typically eaten raw so their nutritional benefits aren’t negated through cooking.

Follow these simple directions to sprout your own:

Supplies:

- Mason jar (wide mouth, quart sized)
- Sprouting lid (available at the Bozeman Co-Op or make your own by using the canning jar lid as a template and cutting out a circular piece of cheese cloth to replace the metal cap)
- Broccoli sprout seeds (organic seeds available at Lone Peak Caregivers in Big Sky and Planet Natural in Bozeman)

Directions:

- Pour 2 tablespoons of broccoli sprout seeds into jar
- Cover seeds with 2 inches of water and place sprouting lid on jar
- Store in a warm dark place overnight (I like to leave myself a “sprouting” reminder note on the counter)
- The next morning, drain the liquid off, rinse with fresh water and fully drain again—repeat in the evening
- Continue to store sprouts in a warm dark place, and rinse and drain twice a day

After a couple of days, you will notice the seeds begin to break open and sprouts start to emerge. After about four days, the sprouts will be approximately 1-inch long with yellow leaves. Move the jar into the sunlight, continuing to rinse the sprouts twice a day for three to four more days until the leaves turn green.

Broccoli sprouts have a crispy texture and slightly spicy taste. Serve them on top of salads and soups, use as a garnish or add to smoothies. They will stay fresh for about one week in your refrigerator.

How do you know when the sprouts are no longer good to eat? “Slimy sprout, throw it out.”

Happy sprouting!

Jackie Rainford Corcoran is an IIN Certified Holistic Health Coach and Consultant, a public speaker and health activist. Contact her at jackie@corehealthbmt.com.



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MEADOW VILLAGE DRIVE

\$395,000 | #212146 | Call Don
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Montana Properties

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Section 3: INSIDE YELLOWSTONE, OUTDOORS, & DINING



On the doorstep of Yellowstone, the National Park Service celebrates 100 years

BY AMANDA EGGERT
EBS ASSOCIATE EDITOR

"National parks are the best idea we ever had. Absolutely American, absolutely democratic, they reflect us at our best rather than our worst." – Wallace Stegner

GARDINER, Mont. - An actor impersonating Teddy Roosevelt introduced dramatic flair to the National Park Service's centennial celebration Aug. 25, with a spirited rendition of the speech the 26th president of the United States made when he laid the cornerstone of the iconic Roosevelt Arch.

The impersonator drew a healthy volley of cheers from the crowd of approximately 6,000 when he roared, "[Yellowstone] was created, and is now administered, for the benefit and enjoyment of the people."

When the 51st U.S. Secretary of the Interior Sally Jewell took the stage, she celebrated America's newest addition to the national park system: the Katahdin Woods and Water National Monument, which was designated by President Barack Obama on Aug. 24, the eve of the centennial.

In many ways, the 87,500-acre monument encompassing mountains, woods and waters of northern Maine is reflective of the Park Service's past and future. Katahdin is celebrated for recreational opportunities it provides for hiking, canoeing, fishing and cross-country skiing—outdoor activities that have long been synonymous in the public's imagination with iconic national parks like Yellowstone.



President Obama addresses the crowd on Aug. 25 via video recording.

philanthropist Roxanne Quimby's foundation, Elliottsville Plantation.

According to a White House press release, "this designation will build on the robust tradition of growing the park system through private philanthropy."

In a press conference before the formal program, Park Service Director Jonathan Jarvis said the park system is "chronically underfunded" and private dollars are necessary for the park service to fulfill its mission.



A Teddy Roosevelt impersonator at the Roosevelt Arch in Gardiner. PHOTOS COURTESY OF NPS

That message—become accustomed to private and commercial funding in the national park system—was echoed in the public program by several speakers, including Jewell; Yellowstone Superintendent Dan Wenk; and Kay Yeager, the board chair of the newly merged Yellowstone Association and Yellowstone Park Foundation.

Jewell outlined a vision for America's public lands that is resolutely inclusive and shines a light some of the darker chapters in U.S. history.

In the days preceding her Yellowstone visit, Jewell spent time at the Little Rock Central High School National Historic Site in Arkansas and the César E. Chávez National Monument in California. The former addresses a time in our nation's history when schools were segregated; the latter recognizes the importance of the farm worker movement, which in the 1970s helped give a voice to poor and disenfranchised workers.

"Our national parks are a living, breathing history book of American culture and heritage ... not just those that make us proud, places like this, but those that teach us painful lessons from which to learn," Jewell said.

"All Americans—no matter where they come from, how they worship or who they love—should see themselves in these public lands," she continued.

Presented with a number of unknowns and challenges—climate change eating away at the glaciers of Glacier National Park, the vagaries of the federal budget process, and the constant effort to remain relevant to the public—the park system has plenty of work to do in its next century. A diverse cadre of advocates certainly couldn't hurt the cause as the nation looks toward another century.

But what more ideal location than Yellowstone to commit to tackling those challenges? Or, as Jewell put it: "I can think of no better place to commemorate this milestone [than] here—at America's first national park, under a Big Sky, on a crisp night, in the shadows of beautiful mountains, and on the shoulders of conservation giants who came before us."

continued on pg. 34



Celebrating the NPS Centennial

Yellowstone National Park was established for “the benefit and enjoyment of the people.”
What will that look like in another 100 years?



Dan Wenk,
Mammoth Springs, Wyoming

“I hope it looks much like it looks today. I don’t know if the forests will be the same [due to climate change]. I think Yellowstone might have a maturing of the forest and the landscape. [I hope] the development within the park will be very similar if not smaller [and] we have greater appreciation for wildlife and migration corridors.”



Jonathan Jarvis,
National Park Service Director, Washington D.C.

“[In the] glass half full worldview, we will look at the North America continent and have ecological connectivity on the landscape so that big protected areas like Yellowstone will be physically connected [to other] protected areas...I would say that the park service will have embraced the use of new technologies that are non-intrusive to enhance the public’s experience.”



Christine Wilbur,
Vienna, Virginia

“ I think that all the natural beauty will be unchanged, but perhaps the infrastructure will be improved.. [There might be] more accessibility to the natural beauty that right now there’s no trails to ... I think the walkways will become more accessible to the handicapped. I think perhaps there will be more cabins and cottages for people to stay in.”



Randy Wimberg,
Bozeman, Montana

“I can hopefully say that it will maintain the natural history element, but I can also say that they’ll have another way of moving people through it. Whatever that technology is, I don’t know—but cars won’t be part of it ... They’ll have to control the amount of people somehow. Every year, it’s a new record. How can they maintain that?”



PHOTO COURTESY OF YELLOWSTONE NATIONAL PARK

For the 100th anniversary of the National Park Service, EBS wanted to conduct a special 406 Forum.

On Aug. 25, EBS Associate Editor Amanda Eggert and Video Editor Ryan Weaver scoured the NPS Centennial Celebration in Gardiner, Montana to find answers to two of the most important questions facing Yellowstone, the national park system and their visitors. Here are eight of the top responses.

One hundred years ago, the United States was the first country to establish a public land initiative like the National Park system.

What does it mean to you today?



John Cox,
West Yellowstone, Montana

“I think it’s an awesome thing. I think the Park Service is charged with such a knife edge of a task and they do a really great job...of saying hey we need to do this or stop doing this or change how we give access to the park. I think it’s a great thing.”



Jenny Lucas,
West Yellowstone, Montana

“I love that they maintain multiple beautiful places that I can come visit. I think it’s a tough job, too ... People are sometimes difficult to corral, especially when you’re trying to protect something.”



Greg Malloure,
Brighton, Michigan

“I’m glad to have it. I think it’s important that as more and more land gets developed we have these places that are wild.”



Becky Mitchell,
Livingston, Montana

“The land is a part of us. When you grow up here, the land shapes you and its just part of who you are ... I remember getting chased into an outhouse [by a bear]. Then the wolves were reintroduced and it changed the ecosystem. [Now] they are wild animals, it is wilderness.”



NPS PHOTO



Important hunting dates
from Montana Fish, Wildlife and Parks

Sept. 1

Mountain, sage and sharp-tailed grouse open along with partridge and fall turkey and mourning dove.
Swan permit application deadline.

Sept. 3

Archery season opens for antelope, black bear, deer, elk, bighorn sheep, wolf and mountain lion.

Sept. 15

Hunting seasons open for moose and mountain goat.
General hunting seasons for big horn sheep, black bear and wolf open as well as backcountry hunting districts for elk and deer.

Sept. 24-25

Youth pheasant and waterfowl weekend.

Yellowstone opens lottery for non-commercially guided snowmobile access

YELLOWSTONE NATIONAL PARK

Yellowstone National Park on Sept. 1 began accepting applications for permits for non-commercially guided snowmobile trips into the park during the 2016-2017 season. All non-commercially guided snowmobile groups entering the park must have a permit.

Permits will be allocated through a lottery. Applications are being accepted online at recreation.gov through Sept. 30. Successful lottery applicants will be notified in mid-October.

The Non-Commercially Guided Snowmobile Access Program was authorized in the 2013 final Winter Use Rule. The program allows one non-commercially guided group per day to enter Yellowstone from each of its four winter entrances for a trip up to three days long.

A maximum of five snowmobiles are permitted in each group and all snowmobiles must meet the park’s new Best Available Technology standard. A list of approved snowmobiles is available at nps.gov/yell/learn/management/newbatlist.htm.

All snowmobile operators in a non-commercially guided trip must be at least 18 years old, possess a state-issued driver’s license and have successfully completed the free online Yellowstone Snowmobile Education Certification program.

Additional details regarding the program, including specific rules and regulations for non-commercially guided trips, can be found at nps.gov/yell/parkmgmt/ngsap.htm or by contacting program coordinator Ivan Kowski at ivan_kowski@nps.gov or (307) 344-2165.

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Angling wake-up call Yellowstone closure exposes constant threats



BY PATRICK STRAUB
EBS FISHING COLUMNIST

Turn the clock back to mid-June of this year. Anglers eager to cast large dry flies to rising trout flocked to the Yellowstone River. Rafts exited the interstate at Big Timber headed for the Boulder River. The Lamar River and Soda Butte Creeks saw angling traffic as well. Pale morning duns hatched on the Paradise Valley spring creeks earlier than ever.

The majority of our southwest Montana rivers were fishable several weeks earlier this year than years past. To longtime local anglers, early summer conditions were not normal. Many of us casting salmon flies on the Yellowstone River on June 20 said, "This is not good."

On August 19, when Montana Fish, Wildlife, and Parks closed the Yellowstone River to all water-based recreation, our words proved prophetic.

The closure was due to an invasive parasite that affects coldwater fish. Compounded by low water levels and high river temperatures, a perfect storm developed, resulting in massive fish mortality. For more news about the Yellowstone, reference this paper's coverage of the closure.

To help protect the spread of this invasive parasite and ensure all folks have opportunities to fish during this trying time in Montana's angling management, it is important we do our part to reduce the spread of aquatic invasive species.

Clean, inspect, and dry. Clean, inspect, and dry. I said it twice for emphasis. With our current low streamflows, fish are forced to inhabit more closely together, creating more of a biological stew than what is preferred. A good analogy is the city pool—the same amount of people want to swim in the pool, but there's half or even 80 percent less water than normal. Is that a pool you'd want to swim in? You have a choice. A trout or whitefish does not. Anytime you fish a river and then transition to another river always, always, always, clean, inspect and dry your gear.

Completely remove all mud, water, and vegetation before leaving the river. Inspect your boat, trailer and all gear that entered the water—including your waders. Pay attention to crevices and hidden areas.

Use your hand or a sprayer to remove all vegetation and all mud. A high-pressure car wash is ideal. The hot water kills organisms and the pressure removes mud and vegetation. No need to use chemicals or soap. Drain all water from watercraft and equipment. Drain or remove water from boat,

bilge, live well, engine, internal compartments and bait buckets by removing drain plugs before leaving the access area.

And lastly, dry everything well. Aquatic invaders can survive only in water and wet areas. Dry your watercraft and fishing equipment thoroughly; this will kill most invasive species. The longer you keep your watercraft, trailer, waders and other equipment outside in the hot sun between fishing trips, the better.

For more information please visit Montana Fish, Wildlife, and Parks aquatic invasives website: fwp.mt.gov/fishAndWildlife/species/ais/.

If you are part of the many anglers displaced by the closure of the Yellowstone River, there are options for fishing. Your local fly shop can help you find places to continue to enjoy the rivers and their fish. But in doing so, please be courteous and conscious of other anglers. Of course you will be fishing with clean gear, but once astream or rigging up at the access site be patient and polite—whether we like it or not the future of Montana's great fishing rests in all of our capable hearts and minds.

While the closure of the Yellowstone is unprecedented, our desire to fish will remain. As we wait to return to the Yellowstone, it is important to remember



The Yellowstone River winds through Paradise Valley at Mallard's Rest beneath the Absaroka Range. PHOTO BY WES OVERVOLD

we fished the Yellowstone several weeks earlier this year than we historically do. Let's all work hard and share sacrifices across interests to ensure the Yellowstone's great fishing lives on in real time—not as something we are forced to remember.

Pat Straub is the author of six books, including "The Frugal Fly Fisher," "Montana on the Fly," and "Everything You Always Wanted to Know About Fly Fishing." He and his wife own Gallatin River Guides in Big Sky, he is co-director of the Montana Fishing Guide School, and co-owns a guide service on the Missouri River.

Wildfire bits and pieces: The 'dog days of summer'

BY MARIANNE BAUMBERGER
U.S. FOREST SERVICE FIRE INFORMATION AND EDUCATION TECH

The "dog days of summer" are here! The Greeks correlated the warmest days of the year with the visibility of the star Sirius, also known as the dog star. High temperatures and windy, dry air mean that wildfires start easily, spread rapidly, and quickly increase in intensity. Plumes of smoke rising above the

horizon from wildfires in Yellowstone National Park and Idaho remind us to be extra careful as we enjoy these warm summer days.

Fire danger is HIGH in the Big Sky and Bozeman area and VERY HIGH in the West Yellowstone area. Don't ruin your enjoyment of the "dog days of summer"—when extinguishing your campfire, be sure to drown it, stir it, and feel it for hot coals before you leave. One less spark means one less wildfire!





On the Trail: Lone Peak Trail

Explore local hiking, biking and equestrian trails with Big Sky Community Organization’s summer trail series.



Sawyer Wolfe rides toward Big Sky’s iconic Lone Mountain on Lone Peak Trail. PHOTO BY CIARA WOLFE

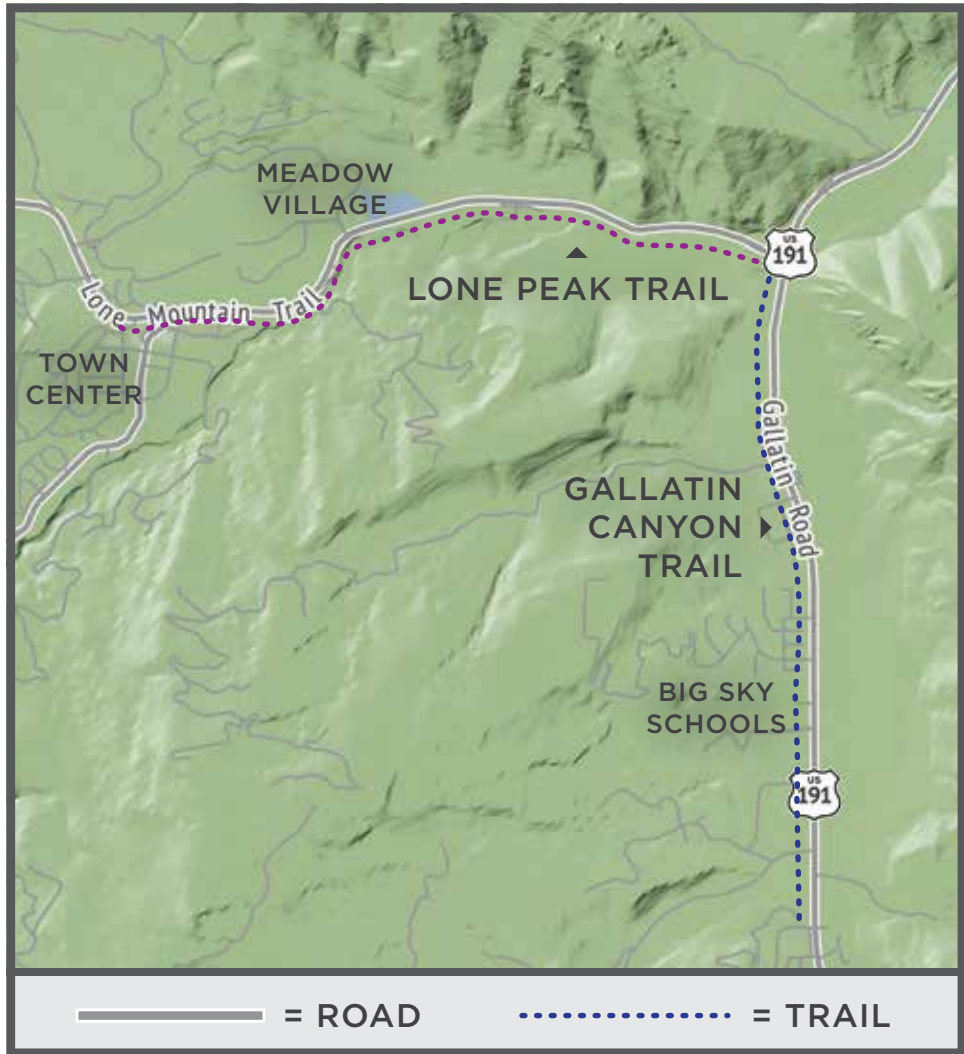
BY CIARA WOLFE
BSCO EXECUTIVE DIRECTOR

Lone Peak Trail connects Big Sky’s Meadow Village to Gallatin Canyon. This 8-foot wide asphalt trail follows the south side of Lone Mountain Trail, also known as Highway 64, for 3 miles from Town Center to the intersection of Lone Mountain Trail and Highway 191 in the canyon. From there, walkers, runners and bicyclists can join the Gallatin Canyon Trail for an additional 2.5 miles of asphalt trail that continues south to Ophir School.

Don’t let the paved surface or distance deter you from trying this trail out. Coming from Town Center, you coast downhill around large curves, through a forested area, and over the South Fork of the West Fork of the Gallatin River. The gurgling river provides a pleasant background as you enjoy the scenery during the lower third of the trail.

You may even get the chance to view the resident bighorn sheep herd that frequents the north side of Lone Mountain Trail near the pedestrian bridge over the South Fork of the West Fork of the Gallatin River. Just make sure to save some energy for the 3-mile walk, run or bike back to Town Center—and enjoy the view of Lone Peak as you make the trek back.

For more information about Big Sky’s parks, trails and recreation programs, visit bscomt.org. The Big Sky Community Organization is a local nonprofit that connects people to recreational opportunities by acquiring, promoting and preserving sustainable places and programs for all.



TRAIL STATS

Distance	Uses	Difficulty	Elevation Gain	Surface
3 miles one way	Walk, run and bike	Moderate	300 ft	Paved

Directions: You can start at either end of the trail. From Town Center: Catch the trail on the south side of Lone Mountain Trail near its intersection with Ousel Falls Road. From Gallatin Canyon: Park at the Big Sky Conoco located at the Intersection of Lone Mountain Trail and Highway 191 and head west.



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Update: On August 19th the Yellowstone River was temporarily shut down from the Yellowstone Park boundary to Laurel, MT due to the discovery of a parasite that is responsible for the death of whitefish and some trout. Please contact your local fly shop or Montana Fish, Wildlife and Parks for the most up to date information regarding the closure.

Phew...what a summer! As we move into September river traffic lightens up significantly, water and nighttime temperatures start to fall and brown trout start their mating dance.

The Gallatin will experience few hatches of aquatic insects this time of year, but expect to see some fall baetis and midges milling around still with the occasional caddis here and there. Hoppers and ants will remain relevant as well, but as the mercury starts to plummet fewer bugs will be moving around. Try stripping larger hoppers in fast water along sun baked banks, or swinging some streamers and of course nymphing will always produce some fish. Carnage Hoppers, Sheila's Sculpins, Lightning Bugs, RS2s and Zebra Midges are good patterns to consider.

The Madison will receive the most attention from fall anglers. Mostly in walk wade areas, such as in Yellowstone National Park, in between Hebgen and Quake Lake and the Raynold's and \$3 Bridge. The park has sort of a cult following this time of year. Some will line up for their turn in Baker's and Barnes holes, while others will hike in and find a bit more solitude and swing streamers and soft hackles or nymph with eggs, worms and small baetis patterns. In between the lakes or below Quake Lake will usually offer more solitude and the fishing can be just as good if not better at times. You may have a better chance of hooking into that 20+ incher in the park that has moved up from Hebgen Lake though.

Whatever your goal this September please be especially careful to Clean, Inspect and Dry all of your gear when moving from one body of water to another. This could prevent the transfer of parasites like proliferative kidney disease (PDK) that has been discovered in the Yellowstone River.

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Gardiner trail run raises awareness for mental health and suicide prevention

EBS STAFF

Sept. 9 marks the fourth annual Big Bear Stampede, a race organized to raise awareness of depression, lower Montana’s suicide rate, and celebrate the memory of Geoff Faerber, a Gardiner resident and entrepreneur who struggled with depression and took his own life in 2011.

The race also celebrates the lives of others who struggle with or have lost a battle with depression, anxiety, bi-polar and other critical mental illnesses.

Montana has the third-highest suicide rate in the nation, a sobering statistic the community of Gardiner has worked to change with a number of initiatives including programs on suicide prevention for teachers and lay people, bringing counselors to the community, and hosting a day of outdoor recreation for people seeking help at the Montana Mental Health Center in Livingston. Proceeds from the Big Bear Stampede assist with these programs.

The race is held in the Absarokee Mountains on trails overlooking Yellowstone National Park. Runners and walkers will gather at the Eagle Creek Campground 2 miles north of Gardiner to participate in a 9 km race, 5 km race, 5 km walk, or 1 km kids’ run with Smokey Bear. A total of \$1,000 in prize money will be awarded to top finishers.

Nikki Kimbal, a highly decorated ultra marathon runner, will speak after the race wraps up. Kimbal has educated herself about strenuous exercise as a way to treat depression and overcome extreme grief. She has said she thinks of running as her medication of choice in a lifelong fight with major depression.

Visit bigbearstampede.org for more information about Big Bear Stampede and its mission or to register for the race.



Big Bear Stampede was created in the memory of Geoff Faerber, an avid runner, cyclist and skier who took his own life in September 2011 after a prolonged fight with depression. Faerber was the owner of the Flying Pig Adventure Company and left behind a wife and two young children. PHOTO COURTESY OF THE FAERBER FAMILY



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42 September 2 - 15, 2016

OUTDOORS

Grand Targhee hosts Wyoming's first Ragnar race

EBS STAFF

Ragnar Trails Tetons—billed as an opportunity to “find your inner wild”—will challenge teams of four or eight runners to turn a traditionally solitary pursuit into a group effort.

“You make pushing yourself to your own limits a team sport,” said Jonathan Jarrett, a Ragnar market development associate who’s heading up the overnight relay race at Grand Targhee.

Each team member will run an equal share of the 120-mile timed course. Racers on eight-person teams will run 15 miles in three legs; racers on four-member teams will run 30 miles in six legs.

Ragnar, named after a Viking warlord and adventurer, is a fitting name for the Tetons course: it tops out just shy of 8,300 feet, making it one of the highest elevation races under the Ragnar umbrella.

The overnight relay race concept is the brainchild of Steve Hill; his son Dan; and Dan’s college roommate, Tanner Bell. Steve had long dreamed of running a 24-hour relay across the Wasatch Mountains. In 2004 the trio did it, running 188 miles from Logan, Utah to Park City, Utah in a race known as the Wasatch Back Relay.

A couple years later, they were approached by some investors to grow the race. It has since expanded to 38 road and trail races across the U.S. Ragnar trails launched four years ago and this is the first year that the number of trail races will eclipse road races.

“We love the Tetons and wanted to find a trail race near there,” Jarrett said of the Sept. 9-10 race. “And it’s hard to beat Grand Targhee’s trails.”

Teams camp on site at “Ragnar Village”; Dinner and a bonfire complete with coffee, hot chocolate and s’mores will keep resting team members fueled for their next leg.

This year’s event is full, but interested parties can sign up now for the 2017 race.

Visit grandtarghee.com/event/ragnar-grand-targhee-resort/ for more information.

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AMUSE-BOUCHE

Amuse-bouche refers to an appetizer, and by French translation means, "to entertain the mouth." It offers a glimpse into what you should expect from a meal. Also it's free, compliments of the chef.

'And you may ask yourself: Well, how did I get here?'



BY SCOTT MECHURA
EBS FOOD COLUMNIST

We chefs sometimes have our heads down and tend to work, work, work for years, if not decades. Then one day, we wake up and ask ourselves, much like the famous Talking Heads song, "Well, how did I get here?"

I have written at great length this past year about the life of a chef: The leadership and failures; the turmoil and calmness; the stress and success. But that life didn't come overnight.

As a teenager, I worked in kitchens because you either did that or worked at the mall. The latter seemed dreadful to me.

If you chose a restaurant, that meant you were a dishwasher. And if you were smart enough (or perhaps foolish enough) to seek a promotion to some sort of a cook, it was simply because it paid more.

None of my friends wanted to be cooks, and neither did I. And being a chef was out of the question. In my mind I was destined for some variation of art school and eventually graphic design, or drafting to become an architect.

Somewhere along the way—I don't know exactly when it happened—I experienced my own paradigm shift. Cooking was something I was good at. And I could hold my own at it alongside older professionals. This was something for me. This was me.

So I worked. But I was obstinate and couldn't understand why we did things a certain way. But then that inflexible stubbornness morphed into drive and ambition. Most of all, I began to learn open-mindedness (well, that one took me quite a while).

I was immature and brooded when the chef criticized me. But then that lamenting turned to wondering if maybe, just maybe the chef, restaurant manager, or owner actually knew what they were doing.

I failed and didn't want to try the exercise again because I was frustrated. Eventually, however, that failure made me more curious to learn the "whys" so they could become the "I know whys."

Then I grew. Not always quickly and not always easily, but I grew. And I found guidance from the most unlikely of coworkers. He wasn't a chef, or manager, or any leader for that matter. His name was Chauncey Red, an old black man who was one of our dishwashers.

Chauncey had stories and experiences right out of "Aesop's Fables" and would get me to stop and take a proverbial breath. These moments of pause swiftly settled my temper or emotions with the calmness of a parent stopping his hyper child from running out into traffic.

I was never the most talented cook out there, and I didn't have the best skillset either. While I learned at a young age a solid, respectable work ethic from my father and grandfather, this still proved to be not quite enough. But as I got older I worked harder and harder, and eventually learned to outwork the next guy.

I remember one time when I was 17 years old I called in sick to go to a concert with friends. That night I was indeed sick. I was sick to my stomach with the guilt of what I'd done. My friends thought I was ridiculous. I thought I was irresponsible.

It hit me one day not too long ago that I've had my head down for many years. I suddenly looked up one day and was a chef the way a movie concludes by skipping ahead 30 years.

This article could be larger by 100 fold with stories, experiences and observations. Who knows, perhaps I'll write a book someday...

Scott Mechura has spent a life in the hospitality industry. He is a former certified beer judge and currently the Executive Chef at Buck's T-4 Lodge in Big Sky.

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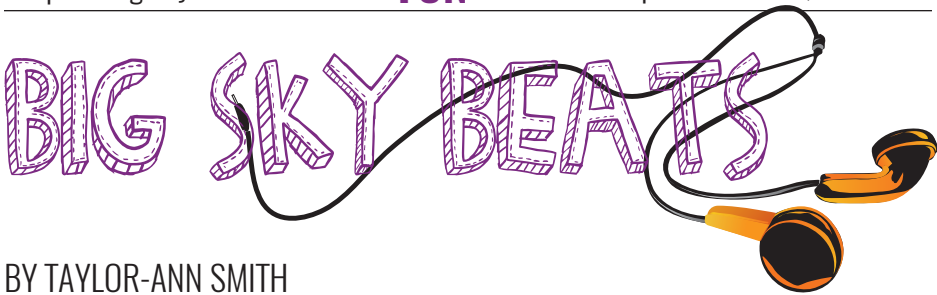
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BY TAYLOR-ANN SMITH
EBS GRAPHIC DESIGNER

Find out what tunes we’re bumping! In Big Sky Beats, Explore Big Sky staff offers suggested tracks for your next playlist. Whether you need to freshen up your music library, want to expand your collection, or just need some tunes for an autumn adventure, we’ve got you covered.

Of the vast amount of electronic music I listen to, Don Diablo is by far my favorite DJ. His sound is very distinctive with creative bass drops and great mixing of vocals— some of which he does himself. Every time I play one of his songs, I can’t help but dance.

Aside from being ranked No. 30 in DJ Magazine’s Top 100 DJs, he recently established his own record label known as Hexagon. The first release from the label was a remix of Alex Adair’s “You Make Me Feel Better” that gained it Beatport online music store’s “best new label of the year” in 2015.

Don Diablo regularly features Hexagon’s artists, new DJs, and his own music in a popular weekly podcast, Hexagon Radio. This podcast is worth checking out to get a feel for his style of electronic music and is great for a late night dance session.

Below are my favorite songs and artists from the Hexagon record label:

- 1. “Everytime,” Toby Green
- 2. “Call Me feat. Michelle McKenna,” PBH & Jack Shizzle
- 3. “Right Now feat. TRM,” King Arthur (Sam Feldt Edit)
- 4. “Happiness,” Sagan
- 5. “Doppler,” Madison Mars
- 6. “The Mad Citizens,” Khrebto
- 7. “ Theme O,” Madison Mars
- 8. “Anytime,” Don Diablo
- 9. “You Make Me Feel Better,” Alex Adair (Don Diablo remix)
- 10. “Good Grief (Don Diablo remix),” Bastille

American Life in Poetry: Column 597

BY TED KOOSER, U.S. POET LAUREATE

Stuart Dybek was born in Chicago, where there are at least a couple of hundred hotels a poet might stroll past, looking up at the windows. Here's a poem from his book, “Streets in Their Own Ink.”

Curtains

By Stuart Dybek

Sometimes they are the only thing beautiful about a hotel.
Like transients,
come winter they have a way of disappearing,
disguised as dirty light,
limp beside a puttied pane.
Then some April afternoon
a roomer jacks a window open,
a breeze intrudes,
resuscitates memory,
and suddenly they want to fly,
while men,
looking up from the street,
are deceived a moment
into thinking
a girl in an upper story
is waving.

We do not accept unsolicited submissions. American Life in Poetry is made possible by The Poetry Foundation (poetryfoundation.org), publisher of Poetry magazine. It is also supported by the Department of English at the University of Nebraska-Lincoln. Poem copyright ©2004 by Stuart Dybek, “Curtains,” “Streets in Their Own Ink,” (Farrar, Strauss and Giroux, 2004). Poem reprinted by permission of Stuart Dybek and the publisher. Introduction copyright ©2016 by The Poetry Foundation. The introduction's author, Ted Kooser, served as United States Poet Laureate Consultant in Poetry to the Library of Congress from 2004-2006.

CROSSWORD PUZZLE

ACROSS

1 Buttocks

5 Reel

9 Adjective-forming (suf.)

12 Leaf-cutting ant

13 Scientific name (suf.)

14 No (Scot.)

15 Beer

16 Polish border river

17 Poetic contraction

18 Europe (abbr.)

20 Swed. sculptor

22 Spot on cards or dice

25 Flat fish

27 Flood

28 Or best offer (abbr.)

29 Irish exclamation

31 Answer requested (abbr.)

34 102 (Rom. numeral)

35 Book (Lat.)

37 Indo-Chin. people

38 Thessaly mountain

40 Large intestine beginnings

41 Interstate Commerce Commission (abbr.)

42 Poetic contraction

44 Eye-infesting worm

45 Council for Econ. Advisors (abbr.)

46 Firearm

49 Recommended daily allowance (abbr.)

51 Melody

52 Fine Cuban tobacco

54 Regard

58 Centers for Disease Control (abbr.)

59 Acid (pref.)

60 Heddles of a loom

ANSWER TO PREVIOUS PUZZLE

A	L	M	S	T	A	R	N	A	D	A
C	I	A	O	O	G	E	E	S	E	L
H	E	R	L	P	A	S	S	I	N	C
S	A	B	A	L	K	E	N	Y	A	
S	C	H	N	O	Z	T	H	E		
N	A	G	O	R	J	U	I	L	L	E
E	N	A	B	A	B	A	T	A		
D	A	S	H	E	E	N	O	C	C	U
A	X	E	S	H	A	H	I	N		
M	O	N	G	O	S	A	O	N	E	
A	S	A	D	E	I	L	I	S	A	R
A	S	N	U	N	C	O	N	I	C	E
M	A	O	S	T	E	N	E	S	C	E

DOWN

1 Hat

2 Shoshonean

3 As written in music

4 Geological vein angle

5 Scarce

6 Group of seals

7 Same (Lat.)

8 Nose opening

9 Limp

10 Rhine tributary

11 Dregs

19 Hereditary property

21 Brythonic sea god

22 Little: music

23 Bird

24 Taro (2 words)

26 Biblical tower

30 Deck

32 Flower holder

33 Geophagy

36 Electric cattfish

39 Bronze money

43 Summary

46 Medieval warclub

47 Acquired immune deficiency syndrome (abbr.)

48 Run

50 Accountant (abbr.)

53 Child (pref.)

55 Amer. Automobile Assn. (abbr.)

56 Mortar mixer

57 Flightless bird

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A66

DOG OF THE MONTH

ERNIE

BREED:

Golden Retriever / Poodle

AGE:

2 Years Old

OWNER:

Carie Birkmeier

LIKES:

Stuffed ducks, sniffing stuff, prancing, swimming.

DISLIKES:

Birds, the vaccuum, ceiling fans, toy squeakers.

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If there is a dog you’d like to feature in EBS please email

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Section 4:
EVENTS & ENTERTAINMENT
BACK 40



The Rut takes root

Fourth annual mountain race continues to grow in popularity and acclaim

EBS STAFF

In only its fourth year, The Rut has secured an international reputation as one of the most challenging—and scenic—ultramarathon courses in the world, drawing U.S. runners predominantly from west of the Rockies and many international competitors from Western Europe.

The circuitous, climbing and plummeting 28-kilometer and 50-kilometer courses take runners on broad ski runs, forested single track trails, jeep

roads, scrambles across steep scree slopes, and across narrow ridgelines defined by death-defying drop offs. Along the way, as with the culmination of the Vertical Kilometer (billed as “the hardest 3-mile run you will ever complete”), runners will bag the 11,166-foot summit of Lone Mountain.

A total of 1,800 racers—from the world’s most elite athletes to locals and amateurs alike—are registered in at least one of the four primary races: The Lone Peak Vertical Kilometer, 50K, 28K and 11K. The 50K, which has expanded to accommodate 625 racers, filled up 15 hours after registration.

Organized by the Runner’s Edge in Missoula and sponsored by Big Sky Resort and Salomon, The Rut is the only North American race sanctioned by the International Skyrunner Federation’s 2016 Skyrunner World Series—the most prestigious mountain running series in the world.

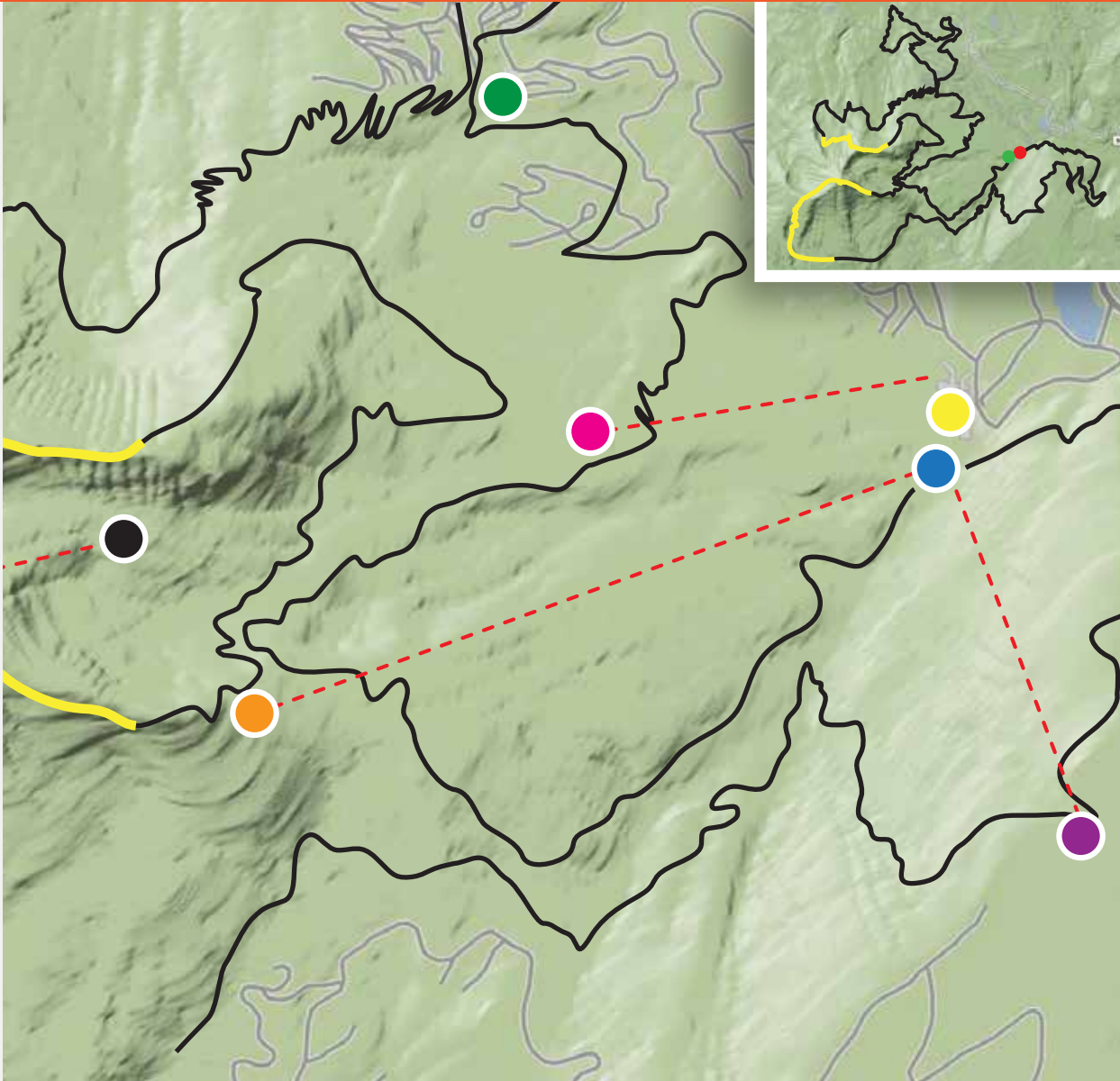
“The Rut is a fantastic, well-organized, three-day running festival that attracts the best athletes in the world,” said Chelsi Moi, Big Sky Resort’s public relations manager. “Not only are we thrilled to host such a wonderful event here at Big Sky Resort, we are amazed by the agility of these athletes to summit our iconic 11,166-foot Lone Peak. Each year, this event gets bigger and better.”



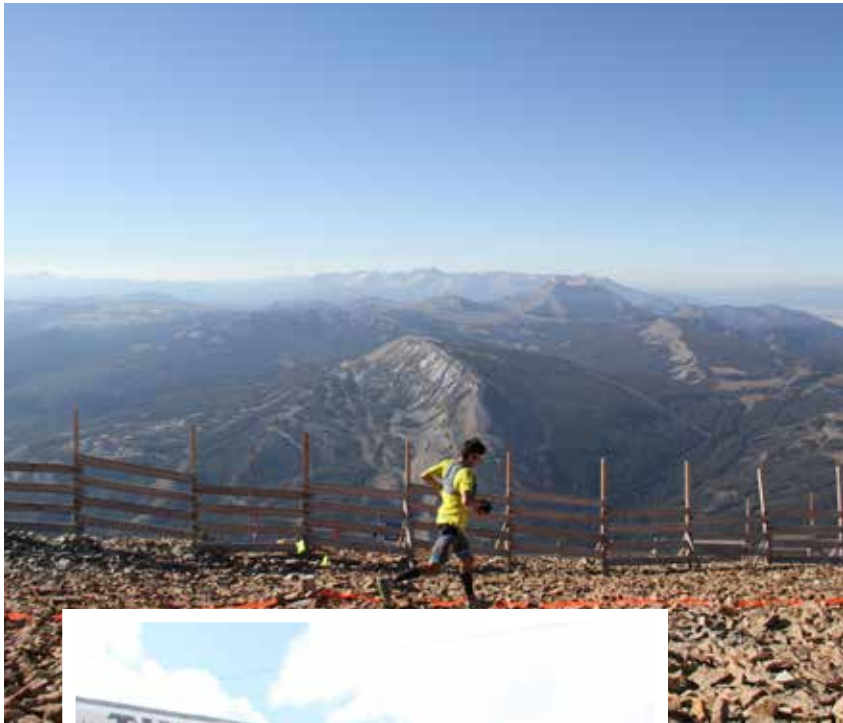
PHOTO BY TYLER ALLEN

SPECTATOR’S GUIDE TO THE RUT

- BIG SKY BASE AREA**
 - Mountain Mall Mocha opens at 5 a.m. to accomodate runners
 - Try Yeti Dogs for a quick lunch
 - Check out Big Sky Resort retail locations for great end of summer sales
 - ‘80s themed after party with ‘80s cover band The Mighty Flick Sunday 8 p.m. at Montana Jacks
- START & FINISH AREA**
 - Pick up your free cowbell to cheer on runners!
 - Rut merchandise for sale
 - Awards Ceremonies
- EXPLORER VIEWING AREA**
 - Purchase Scenic Lift Pass or hike to the top
- RAMCHARGER VIEWING AREA**
 - Purchase Scenic Lift Pass or hike to the top
 - Watch the race while enjoying a beer and lunch at Everett’s 8800
 - Everett’s deck open until 6:30 p.m. Saturday!
- SWIFT CURRENT VIEWING AREA**
 - Purchase Scenic Lift Pass or hike to the top
- MOONLIGHT LODGE VIEWING AREA**
 - Free race viewing - no lift ticket needed
 - Enjoy lunch at Moonlight Tavern
- TRAM TO LONE PEAK VIEWING AREA**
 - Lone Peak Expedition pass required



— = RUT TRAIL - - - = CHAIRLIFT — = ROAD — = OFF LIMITS to spectators



OUTLAW PARTNERS PHOTOS



THE RUT SCHEDULE OF EVENTS

FRIDAY, SEPT. 2

Vertical Kilometer packet pick-up
Big Sky Base Area, 12 p.m.

Vertical K Drop Bag drop off
Big Sky Base Area, 12 p.m.

Lone Peak Vertical K Start
Big Sky Base Area, 3 p.m.

Vertical K Awards Ceremony
Big Sky Base Area, 7 p.m.

11K, 28K & 50K runner packet pick-up
Lone Peak Pavilion, 12 - 6 p.m.

28K optional pre-race meeting
Lone Peak Pavilion, 6:15 p.m.

SATURDAY, SEPT. 3

28K packet pick-up
Big Sky Base Area, 6:30 a.m.

Wave 1, 2 & 3 - 28K start
8 a.m., 8:05 a.m., 8:10 a.m.

Post race hot lunch for 28K Runners
Montana Jack, 11 a.m - 4 p.m.

11K / 50K packet pick-up
Big Sky Base Area, 10 a.m. - 6 p.m.

2nd Annual Rut Runt's Run 1K
Big Sky Base Area, 4:30 p.m.

28K Awards Ceremony
Big Sky Base Area, 5 p.m.

50K optional pre-race meeting
Lone Peak Pavilion, 6 p.m.

SUNDAY, SEPT. 4

50K packet pick-up
Big Sky Base Area, 5 a.m.

Drop Bag drop off
Lone Peak Pavillion, 5 a.m.

Wave 1, 2 & 3 - 50K start
6 a.m., 6:05 a.m., 6:10 a.m.

11K packet pick-up
Big Sky Base Area, 6:30 a.m.

Wave 1, 2 & 3 - 11 K start
8 a.m., 8:05 a.m., 8:10 a.m.

11K Awards Ceremony
Big Sky Base Area, 11 a.m.

Post race hot meal for runners
Montana Jack, 11 a.m - 6:30 p.m.

50K Awards Ceremony
Big Sky Base Area, 6:30 p.m.

Post Rut '80s party!
Montana Jack, 8 p.m.



Erika Frounfelker

Finding motivation in the challenge

BY SARAH GIANELLI
EBS CONTRIBUTOR

Erika Frounfelker began training, both physically and mentally, for The Rut in May.

This will be the Ophir Elementary School teacher's third consecutive year running the 50-kilometer race. In 2014, she was forced to turn back at the midway point, having missed the cutoff time by 10 minutes. This only fueled her determination to finish the race in 2015—and she did, in 11 hours, 2 minutes and 38 seconds, placing her 273 of 535 runners.



PHOTO BY SARAH GIANELLI

“Last year was fueled by my revenge to complete the race,” Frounfelker said. This year her goal is simply to finish again. “I would love to try to beat my time but I’m happy with 11 hours,” she said. “I just want to complete the race two years in a row and feel good the next day.”

Frounfelker has fine-tuned her training strategy this year. In addition to regular runs with her husband and girlfriends, she has been adding a long distance run to her weekly regimen, incorporating more strength training, and spending more time on the actual 50K route, tackling it in thirds: the Headwaters, Lone Mountain and Andesite sections.

Last year, Frounfelker was thrown mentally off course when the trail took a different turn than she expected.

“I’m a little nervous going in,” Frounfelker said. “I think the hardest part for me will be the Andesite section, only because after you’ve gone up and down Headwaters, and up to the peak and back down, you can hear the crowd roaring but you still have to go back up Andesite.”

Frounfelker credits the support and encouragement of fellow runners, volunteers, spectators, friends and family with encouraging her through the difficult stretches of the 50K. She remembers a female runner from last year that ran at a similar pace.

“She had these socks,” Frounfelker said, “they had a Day of the Dead skull on them ... We didn’t say much to each other, but we had this connection. It was like, ‘there’s my person — I can see her socks.’”

Despite the myriad challenges posed by a mountain marathon like The Rut, when it came time to register, Frounfelker couldn’t resist signing up. “I don’t know what it was,” she said. “But when I saw there were only 50 spots left, I knew one of those spots had to be mine.”

Frounfelker’s husband, Jason, a Big Sky ski patroller for nearly two decades, is also participating in The Rut. It’s his second time, but this year he opted for the 28-kilometer race.

“I don’t consider myself a runner and the 28K seems less about ‘running’ and more about swift hiking and moving around the mountain,” Jason said. Both he and Erika said that the biggest bonus of running in different competitions allows them to act as support during their spouse’s race.

After The Rut, Erika will be looking forward to a hot shower and a good meal. To satisfy her need for another challenge on the horizon, she and a few friends have planned a long distance trail run in October from Porcupine Creek to Paradise Valley, followed by a soak at Chico Hot Springs.

“And then it will be snowing and I’ll be skiing,” she said.

THE RUT BY THE NUMBERS



1,800

Runners participating



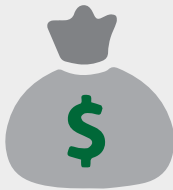
1,033

Runners from Montana



8-9 hours

Average 50K time



\$12,500

In prizes



50 lbs.

Gummy bears



1,000 gallons

Drinking water



50 bags

Potato chips



100

Volunteers

EVENTS CALENDAR

PLANNING AN EVENT? LET US KNOW! EMAIL MEDIA@THEOUTLAWPARTNERS.COM, AND WE'LL SPREAD THE WORD.

FRIDAY, SEPTEMBER 2 - THURSDAY, SEPTEMBER 15

***If your event falls between Sept. 15 and Sept. 30, please submit it by Sept. 23**

Big Sky
FRIDAY, SEPTEMBER 2

The Rut
Big Sky Resort, all day

Lauren Jackson
Rainbow Ranch Lodge, 5 p.m.

Montana Shakespeare in the Parks:
Comedy of Errors
Town Center Stage, 5:30 p.m.

Milton Menasco and the Big Fiasco
Gallatin Riverhouse Grill, 7:30 p.m.

Trivia Night
Lone Peak Cinema, 8 p.m.

SATURDAY, SEPTEMBER 3
The Rut
Big Sky Resort, all day

Tom Marino
Gallatin Riverhouse Grill, 7 p.m.

SUNDAY, SEPTEMBER 4
The Rut
Big Sky Resort, all day

Wyatt Hurts
Gallatin Riverhouse Grill, 7 p.m.

MONDAY, SEPTEMBER 5
Monday Night Pig Roast
320 Guest Ranch, 5 p.m.

Wyatt Hurts
Gallatin Riverhouse Grill, 7 p.m.

TUESDAY, SEPTEMBER 6
**Hike & Learn:
Intro to Climbing
Big Sky Community
Park, 10 a.m.**

WEDNESDAY, SEPTEMBER 7
Big Sky Farmers Market
Fire Pit Park, 5 p.m.

Riverside BBQ & Wagon Ride
320 Guest Ranch, 5:30 p.m.

Beer Pairing Dinner:
Grand Teton Brewing
Rainbow Ranch Lodge, reservation

THURSDAY, SEPTEMBER 8
**Bear Smart Big Sky:
Brown Bag Lunch Talks
BSCO Office, 12 p.m.**

Mike Haring
Gallatin Riverhouse Grill, 7 p.m.

Staykation
Choppers Bar & Grill, 10 p.m.

FRIDAY, SEPTEMBER 9
20th Annual Big Sky Chamber Golf
Tournament
Big Sky Resort Golf Course, 11 a.m.

Amanda Stewart
Rainbow Ranch Lodge, 5 p.m.

Double Barrel
Gallatin Riverhouse Grill, 7 p.m.

Trivia Night
Lone Peak Cinema, 8 p.m.

SATURDAY, SEPTEMBER 10
Morningstar Learning Center
Presents: Trivia Night
Lone Peak Cinema, 6 p.m.

Dan Dubuque
Gallatin Riverhouse Grill, 7 p.m.

SUNDAY, SEPTEMBER 11
Wyatt Hurts
Gallatin Riverhouse Grill, 7 p.m.

MONDAY, SEPTEMBER 12
Monday Night Pig Roast
320 Guest Ranch, 5 p.m.

Wyatt Hurts
Gallatin Riverhouse Grill, 7 p.m.

TUESDAY, SEPTEMBER 13
Big Sky Chamber Board Meeting
Big Sky Chamber of Commerce,
8:30 a.m.

Homebuyer Course
Big Sky Community Food Bank, 5 p.m.

Town Hall Meeting: Joint City/
County Law & Justice Center
Warren Miller Performing Arts
Center, 7 p.m.

WEDNESDAY, SEPTEMBER 14
Homebuyer Course
Big Sky Community Food Bank, 5 p.m.

Big Sky Farmers Market
Fire Pit Park, 5 p.m.

Riverside BBQ & Wagon Ride
320 Guest Ranch, 5:30 p.m.

Beer Pairing Dinner:
Beehive Basin Brewery
Rainbow Ranch Lodge, reservation

THURSDAY, SEPTEMBER 15
Brian (The King) Stumpf
Gallatin Riverhouse Grill, 7 p.m.

Bozeman

FRIDAY, SEPTEMBER 2
Seeking Fortunes: Bozeman's
Historic China Alley
Soroptimist Park, 1 p.m.

Ian Thomas and The Band of Drifters
MAP Brewing, 6 p.m.

Ennis City Ramblers
Norris Hot Springs, 7 p.m.

Friday Night Jazz
Red Tractor Pizza, 7 p.m.

Diamond
Sacajawea Bar, 9 p.m.

SATURDAY, SEPTEMBER 3
Gallatin Valley Farmers Market
Gallatin County Fairgrounds, 9 a.m.

YMCA Fall Sports Kick-off
Bozeman Softball Complex, 10 a.m.

Murders, Madams, and Mediums:
Bozeman's Dark Side
Western Café, 7 p.m.

Tommy Georges
Norris Hot Springs, 7 p.m.

Laney Jones and The Spirits
Live from the Divide, 9 p.m.

SUNDAY, SEPTEMBER 4
Tents to Town: Bozeman's Historic
Main Street
Soroptimist Park, 11 a.m.

Acony Belles
MAP Brewing, 6 p.m.

The Dirt Farmers
Bozeman Hot Springs, 7 p.m.

Bridger Mountain Big Band
Eagles Lodge, 7 p.m.

MONDAY, SEPTEMBER 5
JenTal and the HuzBand
Wild Joe's Coffee House, 5 p.m.

JenTal and the HuzBand
Lockhorn Cider House, 7 p.m.

Kids Music Night
Red Tractor Pizza, 7 p.m.

TUESDAY, SEPTEMBER 6
Bogert Farmers Market
Bogert Park, 5 p.m.

Red Glow Buffalo
Map Brewing, 6 p.m.

John Kadlecik (of Dark Star
Orchestra and Further)
Eagles Lodge Ballroom, 8 p.m.

WEDNESDAY, SEPTEMBER 7
Karma Kids
Mountain Yoga, 5 p.m.

Wonderlust Fall Reception
Country Bookshelf, 5 p.m.

Jeff Peterson
Lockhorn Cider House, 7 p.m.

Eric Mandat: Clarinet Recital
Reynold's Recital Hall, 7:30 p.m.

THURSDAY, SEPTEMBER 8
The Vibe Quartet
406 Brewing, 6 p.m.

Acony Belles
Bozeman Hot Springs, 7 p.m.

Jessica Lynne
Lockhorn Cider House, 7 p.m.

Jeff Crosby and the Refugees
Live from the Divide, 9 p.m.

Yurt going away party ft. Panther
Car & Left on Tenth
The Filling Station, 9 p.m.

FRIDAY, SEPTEMBER 9
Exhibit Opening Reception
The Emerson Center for the Arts and
Culture, 5 p.m.

**Downtown Bozeman Art Walk
Downtown Bozeman, 6 p.m.**

Aaron Williams
Wildrye Distilling, 6 p.m.

The Dancing Plague of 1518 w
Sigmund and Tiny Lota
Wild Joe's Coffee House, 6 p.m.

Amber Ikeman
Norris Hot Springs, 7 p.m.

Friday Night Jazz
Red Tractor Pizza, 7 p.m.

The Bent Bones + Hubba Hubba +
The Permians
Faultline North, 8 p.m.

Hauffbrau Improvement Fundraiser
The Filling Station, 8 p.m.

Ali Holder
Live from the Divide, 9 p.m.

Groove Wax
Eagles Lodge, 9 p.m.

SATURDAY, SEPTEMBER 10
Gallatin Valley Farmers Market
Gallatin Country Fairgrounds, 9 a.m.

Preparedness Expo
Gallatin County Fairgrounds

**Belgrade Fall Festival
Parade
Downtown Belgrade, 10 a.m.**

IndepenDANCE
The Ellen Theatre, 2 p.m. & 7 p.m.

MSU Football vs. Bryant
Bobcat Stadium, 2 p.m.

Murders, Madams, and Mediums:
Bozeman's Dark Side
Western Café, 7 p.m.

Jeff Carroll
Norris Hot Springs, 7 p.m.

Gallatin Roller Girlz Roller Derby
Haynes Pavilion, 7:30 p.m.

Ages and Ages
The Filling Station, 9 p.m.

Groove Wax
Eagles Lodge, 9 p.m.

SUNDAY, SEPTEMBER 11
Bozeman Marathon
Gateway S. Rd., 7 a.m.

Jazz Brunch
Emerson Grill, 10 a.m.

Tents to Town: Bozeman's Historic
Main Street
Soroptimist Park, 11 a.m.

Farm Harvest Festival
Museum of the Rockies, 1 a.m.

Hops & History Season Celebration
Museum of the Rockies, 4 p.m.

Edis Kitrell
MAP Brewing, 6 p.m.

Dust Alive
Bozeman Hot Springs, 7 p.m.

Bridger Mountain Big Band
Eagles Lodge, 7 p.m.

Acousticals
Norris Hot Springs, 7 p.m.

John Jorgenson Quintet
The Ellen Theatre, 7:30 p.m.

Smile Empty Soul
Faultline North, 8 p.m.

The Frights + The Soaks + The
Permians
The Filling Station, 8 p.m.

MONDAY, SEPTEMBER 12
Monday Metamorphosis
Mountain Yoga, 4 p.m.

Extreme History Project Lecture
Museum of the Rockies, 6 p.m.

Eric Sommer
Red Tractor Pizza, 7 p.m.

TUESDAY, SEPTEMBER 13
Bogert Farmers Market
Bogert Park, 5 p.m.

Tyler Schultz
MAP Brewing, 6 p.m.

Down North + Brianna Moore & The
Sasquatch Funk
The Filling Station, 8 p.m.

WEDNESDAY, SEPTEMBER 14
Karma Kids
Mountain Yoga, 5 p.m.

Gallatin History Museum Lecture
Series
Museum of the Rockies, 6 p.m.

20th Pecha Kucha
The Ellen Theatre, 7:30 p.m.

Montana Chamber Music Society
Reynold's Recital Hall, 7:30 p.m.

THURSDAY, SEPTEMBER 15
The Vibe Quartet
406 Brewing, 6 p.m.

Art on the Rocks
The Emerson Center for the Arts &
Culture, 6:30 p.m.

Woolly Breeches
Bozeman Hot Springs, 7 p.m.

20th Pecha Kucha
The Ellen Theatre, 7:30 p.m.

Montana Chamber Music Society
Reynold's Recital Hall, 7:30 p.m.

MOTH + Cycles
The Filling Station, 8 p.m.

King Cardinal
Live from the Divide, 9 p.m.

Afroman
Cat's Paw, 9 p.m.

BOZEMAN RECURRING EVENTS:

Pints with Purpose
Bridger Brewing, Mondays at 5 p.m.

Service Industry Night
Wildrye Distilling, 3 p.m.

Burgers & Bingo
Eagles Lodge, Friday Nights at 5:30 p.m.

Open Mic Night
The Haufbrau, Sundays, Mondays, and
Wednesdays at 10:30 p.m.

Karaoke
American Legion, Mondays at 9 p.m.

Music & Mussels
Bridger Brewing, Wednesdays at 5 p.m.

Pickin’ in the Parks
The Story Mansion, Wednesdays at 6:30 p.m.

Bluegrass Thursdays with
The Bridger Creek Boys
Red Tractor Pizza, Thursdays at 7 p.m.

Yoga for All
Bozeman Public Library, Tuesdays at 11 a.m
and 12 p.m.

Open Mic with Eric Bartz
Lockhorn Cider House, Tuesdays at 7 p.m.

Bingo
American Legion, Wednesdays at 7 p.m.

Livingston & Paradise Valley

FRIDAY, SEPTEMBER 2

Festival of the Thread
Shane Lalani Center for the Arts, 5 p.m.

Nathan Xander
Pine Creek Lodge, 7:30 p.m.

Play: Lend Me a Tenor
Blue Slipper Theatre, 8 p.m.

Christy Hays
The Murray Bar, 9 p.m.

Groovewax
Chico Hot Springs, 9:30 p.m.

SATURDAY, SEPTEMBER 3

Festival of the Thread
Shane Lalani Center for the Arts, 10 a.m.

Neil Beddow
Katabatic Brewing, 5:30 p.m.

Play: Lend Me a Tenor
Blue Slipper Theatre, 8 p.m.

Groove Wax
Chico Hot Springs, 9 p.m.

One Leaf Clover
The Murray Bar, 9 p.m.

SUNDAY, SEPTEMBER 4

Festival of the Thread
Shane Lalani Center for the Arts, 10 a.m.

Play: Lend Me a Tenor
Blue Slipper Theatre, 3 p.m.

Labor Day Street Dance
Chico Hot springs, 4 p.m.

Jay’s Lounge
The Murray Bar, 9 p.m.

MONDAY, SEPTEMBER 5

Bluegrass Jam
Katabatic Brewing, 5:30 p.m.

TUESDAY, SEPTEMBER 6

Beer for a Cause: Livingston Elks
Katabatic Brewing, all day

WEDNESDAY, SEPTEMBER 7

Livingston Farmers Market
Sacagawea Park, 4:30 p.m.

Here Comes the Sun: Solar Open House
Livingston Park County Library, 5:30 p.m.

Carter Freeman
Katabatic Brewing, 5:30 p.m.

THURSDAY, SEPTEMBER 8

Bozeman Symphony
The Shane Lalani Center for the Arts, 7:30
p.m.

Cycles
The Murray Bar, 9 p.m.

FRIDAY, SEPTEMBER 9

Pine Creek Music Festival
Pine Creek Lodge, 5 p.m.

Play: Lend Me a Tenor
Blue Slipper Theatre, 8 p.m.

The Max
Chico Hot Springs, 9 p.m.

Tom Catmull’s Radio Static
The Murray Bar, 9 p.m.

SATURDAY, SEPTEMBER 10

Pine Creek Music Festival
Pine Creek Lodge, noon

Dan Henry
Katabatic Brewing, 5:30 p.m.

Play: Lend Me a Tenor
Blue Slipper Theatre, 8 p.m.

The Max
Chico Hot Springs, 9 p.m.

Denny & The Resonators
The Murray Bar, 9 p.m.

SUNDAY, SEPTEMBER 11

Play: Lend Me a Tenor
Blue Slipper Theatre, 3 p.m.

Jay’s Lounge
The Murray Bar, 9 p.m.

MONDAY, SEPTEMBER 12

Bluegrass Jam
Katabatic Brewing, 5:30 p.m.

The Lark & The Loon
The Murray Bar, 9 p.m.

TUESDAY, SEPTEMBER 13

Beer for a Cause: Payden Memorial
Foundation
Katabatic Brewing, all day

WEDNESDAY, SEPTEMBER 14

Livingston Farmers Market
Sacagawea Park, 4:30 p.m.

THURSDAY, SEPTEMBER 15

Jessica Lynne
Katabatic Brewing, 5:30 p.m.

Woolly Breeches
Pine Creek Lodge, 7 p.m.

West Yellowstone

SUNDAY, SEPTEMBER 4

Adult Co-Ed Volleyball
West Yellowstone School Gym, 7 p.m.

MONDAY, SEPTEMBER 5

Knit Night
Send it Home, 6 p.m.

Yoga for Everyone
Povah Center, 6:15 p.m.

Martial Arts Classes
Povah Center, 5:30 and 6:30 p.m.

Water Aerobics
Holiday Inn, noon

TUESDAY, SEPTEMBER 6

Martial Arts Classes
Povah Center, 5:30 and 6:30 p.m.

WEDNESDAY, SEPTEMBER 7

Martial Arts Classes
Povah Center, 5:30 and 6:30 p.m.

SUNDAY, SEPTEMBER 11

Adult Co-Ed Volleyball
West Yellowstone School Gym, 7 p.m.

MONDAY, SEPTEMBER 12

Knit Night
Send it Home, 6 p.m.

Yoga for Everyone
Povah Center, 6:15 p.m.

Martial Arts Classes
Povah Center, 5:30 and 6:30 p.m.

Water Aerobics
Holiday Inn, noon

TUESDAY, SEPTEMBER 13

Martial Arts Classes
Povah Center, 5:30 and 6:30 p.m.

WEDNESDAY, SEPTEMBER 14

Martial Arts Classes
Povah Center, 5:30 and 6:30 p.m.

RECURRING EVENTS:
West Yellowstone Historic Walking Tour
West Yellowstone Historic District, daily

Experiencing Wildlife in Yellowstone
West Yellowstone Visitor Center,
daily, 9:30 a.m.

Afternoon Talk with a
Yellowstone Park Ranger
The Grizzly and Wolf Discovery Center,
daily, 2 p.m.

Thunder Mountain Traders Show
Public Library, daily

Explore Yellowstone! With a
Yellowstone Park Ranger
West Yellowstone Visitor Center,
daily, 9 a.m.

Naturalist Program
Yellowstone Nature Connection,
daily, 1 p.m.

Wild West Yellowstone Rodeo
West Yellowstone,
Wednesday-Saturday, 8 p.m.

Mike Breyers Exhibit
Public Library, Ongoing

Junior Smokejumper Program
Yellowstone Nature Connection,
daily, 10 a.m. & 3 p.m.

Wild West Yellowstone Rodeo
West Yellowstone Rodeo Arena,
Tuesday - Saturday at 8 p.m.

Former CNN Anchor
Brings Her Inspiring
Story of Reinvention
To Big Sky

Friday, September 16
12-1 p.m.

The Big Sky Gateway Foundation
presents a Meet, Greet and Reading
with author and former CNN anchor
Daryn Kagan.

Guests are invited to bring their own
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of Commerce

Yellowstone Forever
Photo Contest

Call for Entries
June 1-September 12

Winners will be published in
"Natures's best Photography"
Magazine

Visit YPF.org/contest for more
information

Pine Creek Lodge
Music Fest

September 9
5 p.m. - 11 p.m.

September 10
11:30 a.m. - 11 p.m.,

Follow Yer Nose BBQ and La Foley
will serve food, 16 bands over 2 days

Conserving Land and
Protecting Water in
Big Sky

September 20
1 - 5 p.m.

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to a range of water resource topics
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realtor-continuing-education/
for more information

Montana Chamber Music Society presents Grammy-winning Muir Quartet

MONTANA CHAMBER MUSIC SOCIETY

The Montana Chamber Music Society inaugurates its eighth season with the Muir Quartet and guest artist Alexander Fiterstein performing at 7:30 p.m. on Sept. 14 and 15, in Reynolds Hall at Montana State University. The group will also perform at the Shane Lalani Center in Livingston at 7 p.m. on Sept. 16.



Steven Ansell, Michael Reynolds, Lucia Lin and Peter Zazofsky perform as the Muir Quartet. PHOTO BY BRUCE JODAR

These concerts will feature works by Haydn, Brahms, Weber, Bach, Beethoven and pieces from the Klezmer tradition.

The Grammy Award-winning Muir Quartet, now in its 38th season, has performed at Carnegie Hall, the White House, the Sydney Opera House, Amsterdam’s Concertgebouw, and many other international venues. They have been in residence at Boston University since 1983. Alexander Fiterstein is one of the most sought-after clarinetists in the world today, and is a frequent Montana Chamber Music Society participant.

Visit montanachambermusicsociety.org for tickets and more information, and tickets are also available at Cactus Records in downtown Bozeman. Proceeds from these programs support Montana Chamber Music Society’s mission to present great chamber music performances throughout Montana year-round.

Bozeman Film Society season opens with New Zealand adventure comedy

BOZEMAN FILM SOCIETY

The Bozeman Film Society kicks off its 38th season of independent film screenings at 7:30 p.m. on Wednesday, Sept. 7, at The Ellen Theatre with the New Zealand comedy “Hunt for the Wilderpeople.”

Raised on hip-hop and foster care, defiant city kid Ricky (Julian Dennison) gets a fresh start in the New Zealand countryside. He quickly finds himself at home with his new foster family: the loving Aunt Bella (Rima Te Wiata), the cantankerous Uncle Hec (Sam Neill) and dog, Tupac. When a tragedy strikes that threatens to ship Ricky to another home, both he and Uncle Hec go on the run in the bush, prompting a national manhunt.

Equal parts road comedy and rousing adventure story, director Taika Waititi weaves lively humor with emotionally honest performances into a hilarious and touching crowd-pleaser.

On Wednesday, Sept. 21, at 7:30 p.m., Viggo Mortensen delivers an ac-

claimed performance in the soulful family drama “Captain Fantastic.”

Deep in the forests of the Pacific Northwest, devoted father Ben Cash (Mortensen) dedicates his life to homeschooling his six young children through a curriculum that aims not simply to educate them, but to teach them to become virtuous and open-minded citizens of the world. But when tragedy strikes the family, they are forced to journey into the outside world, bringing everything he’s taught them into question.

The Bozeman Film Society now offers technology that allows those with visual and auditory disabilities to fully take part in movie-going outings with family or friends. The state-of-the-art Fidelio system incorporates headsets with volume control for the hard of hearing or a descriptive system for the blind or visually impaired, and is available for selected screenings.

Visit theellentheatre.com or bozemanfilmsociety.com for tickets and more information.

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Symphony goes far afield

Bozeman Trail Chamber Players perform in Virginia City

ELLINGHOUSE ARTS AND HUMANITIES CENTER

The Bozeman Trail Chamber Players, a Bozeman Symphony Far Afield ensemble, presents a free performance at 7 p.m. on Saturday, Sept. 10, at the Elling House Arts and Humanities Center in Virginia City. The concert follows a 5:30 p.m. artist reception for the center's September artist of the month, southwest Montana painter Carleton McCambridge.

This season the Bozeman Trail Chamber Players features wind instruments with the dynamic addition of percussion. Drawing from a rich chamber music repertoire, the ensemble will present music ranging from the majesty of the high baroque, to the playfulness of ragtime and original jazz-influenced works. The group's performers include MaryAnn Jacobson (clarinet), Alan Leech (bassoon), Karen Leech (flute), Greg Notess (French horn), Sandra Stimson (oboe) and Jeff Vick on percussion.

McCambridge presents an exhibit called "People who Bring Life to the Old West," a collection of oil paintings that focus on towns such as Virginia City and Nevada City that provide visitors and residents with opportunities to relive the past and learn about local history. McCambridge's paintings portray volunteers at the Nevada City Museum, guests of the Virginia City Grand Victorian Ball and participants in the annual Shoshone-Bannock Pow Wow.

The Far Afield Program, established in 1992, takes Bozeman Symphony chamber ensembles to rural communities to present free performances and share their musical perspectives. Far Afield enables the audience to see, hear and feel the music being created live instead of through the media of television or radio.

The Far Afield outreach program is made possible in part by grants from the Montana Arts Council, Montana Cultural Trust and the Gillhousen Family Foundation.

Visit bozemansymphony.org or ellinghouse.org for more information.



Members of the Bozeman Symphony and the Bozeman Trail Chamber Players: Alan Leech (bassoon), Greg Notess (French horn), Karen Leech (flute), Jeff Vick (percussion), Sandra Stimson (oboe), and Mary Ann Jacobson (clarinet). PHOTO BY TERESA VICK

IndepenDANCE presents

'Limitless' at the Ellen Theatre

EBS STAFF

IndepenDANCE Community Dance Project presents the culminating performance of their eighth season on Saturday, Sept. 10, at 2 and 7 p.m. at The Ellen Theatre.

Featuring Justin Bartels as master of ceremonies, "Limitless" showcases the work of 23 Bozeman-area choreographers and more than 100 local dancers, actors and musicians. The performance incorporates a variety of unique dance styles, including contemporary, ballet, tap, hip-hop, salsa, belly dance, and more.



The indepenDANCE performance of "Spectrum" at The Ellen Theatre on Sept. 12, 2015. PHOTO BY SHAYNA NICOLE/GINGER SNAPS PHOTOGRAPHY

Each IndepenDANCE season begins with an open call for choreographers and open auditions, during which dancers are selected and placed in an array of pieces.

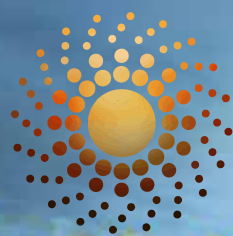
"We have had the extreme fortune of being able to place every dancer who has arrived at auditions," said IndepenDANCE Director Stevie Peterson. "Each choreographer works with their particular group all summer to bring their vision to life. Every year's performance is entirely different than those before it, as our group of choreographers and participants evolves, builds, and grows, to create something organic and meaningful to those involved."

IndepenDANCE is an entirely volunteer-run group that provides opportunities and support for adult dancers and choreographers of all backgrounds and abilities. Together, they connect, create, and perform all types of dance. Since their inception, the group has excelled in building a platform not only appreciated by their participants, but also by community members who attend the annual show and additional performances during the year.

"IndepenDANCE thrives because people believe in the idea and continue to join in the creative process," Peterson said.

The non-profit project is sustained by participant help, generous support from local businesses and individual sponsorships, as well as assistance from Montana Arts and the Montana Arts Council.

Visit independanceproject.org for more information.



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MSRP: \$42,280
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MSRP: \$42,280
Residual Value: \$21,563



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Residual Value: \$22,229

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Ivan Doig: Novelist

BY DOUG HARE
EBS STAFF

Too often, authors from Montana are pigeonholed as “regional writers.” Ivan Doig, who passed away in April of 2015, was a native Montanan and most of his 16 novels take place in his home state. But Doig (pronounced DOY-guh) was a great novelist by any standard, not just a scribe of the American West.

It's often said that writers should write what they know. The best of them are able to transcend the time and places they describe so vividly.

On his website, Doig wrote, “I don't think of myself as a ‘Western writer.’ To me, language—the substance on the page, that poetry under the prose—is the ultimate ‘region,’ the true home, for a writer.”

His final book, “Last Bus to Wisdom,” was published posthumously and stands out as one of his best works, a parting gift from the Wallace Stegner Award winner.

Like his other novels “The Whistling Season” and “The Bartender's Tale,” “Last Bus” is a story narrated by an imaginative child who sees the world of adults through an innocent yet preternaturally penetrating gaze.

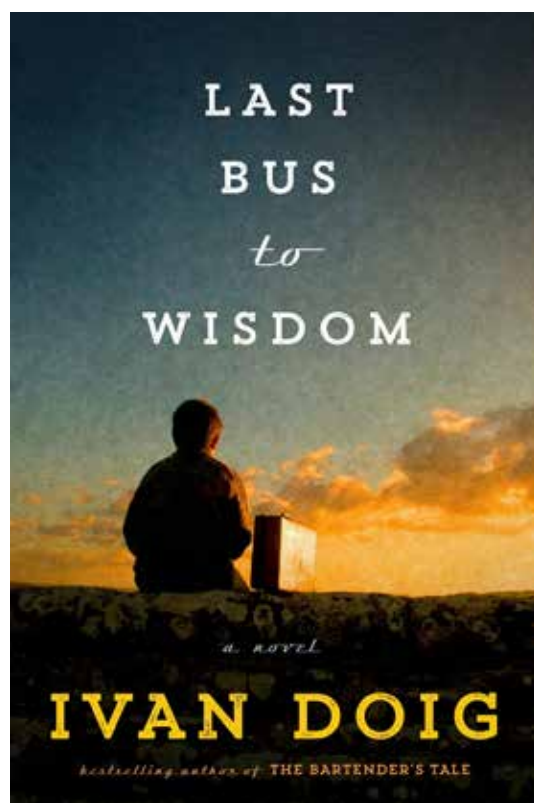
“Last Bus to Wisdom” follows a precocious 11-year-old orphan named Donal Cameron taking a Greyhound bus from the fictional town Gros Ventre, Montana, to Wisconsin and back again. It is an odyssey, a period piece and a coming-of-age tale in 1950s America. “Back then, you dressed up to go places,” he writes.

In his last yarn, Doig weaves together a rollicking tale filled with memorable characters, including a young Jack Kerouac scribbling away deep into the night. His sentences are always lyrical and at times meandering. But the joy of storytelling constantly percolates just beneath the surface of Doig's unpredictable, serendipitous plot and his narrator's lively embellishments.

Doig began his career as a journalist, dabbled in poetry, earned a Ph.D. in history then found his favorite form in the novel. His last book captures the landscapes and people of his youth in a way that transports the reader to a simpler time.

By the end of Doig's voyage, you can't help but come away with a wiser, more humane understanding of the fragility of the human condition. This is one Greyhound trip well worth the fare.

Doug Hare is the Distribution Coordinator for Outlaw Partners. He studied philosophy and American literature at Princeton and Harvard universities.



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BACK 40

For Explore Big Sky, the Back 40 is a resource: a place where we can delve into subjects and ask experts to share their knowledge.

Noun: wild or rough terrain adjacent to a developed area **Origin:** shortened form of “back 40 acres”

Yellowstone earthquakes revealed

YELLOWSTONE PARK FOUNDATION

Have you ever experienced an earthquake in Yellowstone? You might say no, but chances are at least one small quake occurred during your visit.

On average, approximately 1,000 to 3,000 earthquakes take place each year in the Yellowstone area. Most are too small to be felt, but a few—like the famous quake of 1959—are exceptions.

Yellowstone is one of the most seismically active areas in the U.S. The park is contained within the Intermountain Seismic Belt, a zone of earthquake activity that runs from Montana through Wyoming, Idaho, Utah, Nevada and Arizona. Yellowstone is also an active volcano, and surface features such as its famous geysers and hot springs are direct results of the region’s underlying volcanism.

The combination of tectonic and volcanic activity often results in earthquakes, during which rock fractures along fault lines that have become stressed beyond their breaking point. Energy is then released as shock waves, or seismic waves, that reverberate and travel at high speeds throughout the surrounding rock.

Earthquakes do offer some benefits; if it wasn’t for the many small quakes, Old Faithful and other geysers and hot springs could become dormant.



The Aug. 17, 1959 earthquake that struck west of Yellowstone National Park damaged highway 287 significantly. PHOTOS COURTESY OF U.S. GEOLOGICAL SURVEY

In Yellowstone, earthquakes help to maintain hydrothermal activity by keeping the “plumbing” system open. Without periodic shaking from earthquakes, the small fractures and conduits that supply hot water to geysers and hot springs might be sealed by mineral deposits—perhaps permanently.

People do not usually feel earthquakes less than a magnitude 3.0. It typically takes an earthquake of magnitude 4.0 or greater to cause structural damage, and a magnitude 6.5 earthquake to cause the surface of the ground to rupture. Though earthquakes greater than magnitude 6 are uncommon in Yellowstone, some have occurred.

The most famous, and most tragic, earthquake in the Yellowstone area happened 57 years ago. The 7.3-magnitude quake, which caused 18 miles of surface faulting and was felt across 600,000 square miles, decimated a popular campground at the height of tourist season.

On the evening of Aug. 17, 1959, approximately 250 visitors slept throughout the Madison River canyon near Hebgen Lake, just west of Yellowstone. Some bedded down in private cabins and resorts, others at Forest Service campgrounds or makeshift campsites along the roadsides.

Just before midnight, an earthquake jolted the travelers from their sleep. A short time later a wall of water hurdled over Hebgen Dam and raged



Highway 287 slumped into Hebgen Lake, where the main residence of Hilgard Lodge was almost completely submerged in the lake. The 7.3-magnitude quake killed 28 people and created what is today known as “Quake Lake.”

down river. And then, the unthinkable happened: an enormous section of canyon wall broke loose and crashed down just below Rock Creek Campground.

According to a U.S. Forest Service interpretive exhibit at the Earthquake Lake Visitor Center:

“It was a night of terror and chaos. Scattered families fled through the darkness. Those who could, scrambled for high ground as the newly-formed lake rose to swallow their campsites and cars. Others, trapped by the rising water, screamed for help. It would be many long, dark, and terrifying hours before dawn—and it would be many days before it was known just who had lived, and who was lost.”

Ultimately, it was learned that 28 people were killed, 19 of whom are still entombed within the landslide debris.

A visit to “Quake Lake,” as it is now known, is an easy side trip during a visit to Yellowstone. The Earthquake Lake Visitor Center, open from late May through late September, sits just above the lake formed by the Hebgen Lake earthquake. It offers interpretive displays, a working seismograph, walking path to a memorial boulder, scheduled movies and talks, and a Forest Service store operated in partnership with the Yellowstone Association.

While mostly invisible to the casual visitor, an extensive geological monitoring system is in place within Yellowstone. The park’s earthquake activity is tracked around the clock by the University of Utah Seismograph Stations, as part of the Yellowstone Volcano Observatory, a cooperative effort of the National Park Service, U.S. Geological Survey and the university.

According to seismologists from the University of Utah, which operates 26 seismograph stations throughout the park, earthquake swarms are relatively common in Yellowstone. A swarm is a series of small earthquakes in a localized area—sometimes more than 100 in a single day.

The largest known swarm occurred in 1985, with more than 3,000 earthquakes recorded during three months along the West Entrance road. More recently, during the winter of 2010, nearly 2,000 quakes were recorded between Old Faithful and West Yellowstone.

This comprehensive monitoring system helps scientists map and create a better understanding of the sub-surface geology around and beneath Yellowstone.

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