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# Big Sky

October 14 - 27, 2016  
Volume 7 // Issue #21

**Big Sky's explosive growth**  
Developers describe projects in works

*Election 2016:*  
*U.S. House, county commission*

**A grizzly attack and bear spray**

*Community cleanse*  
*A first-person account*

**Back 40:**  
**An archer's elk tale**



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ON THE COVER: A bull elk bugles Oct. 5 near Spanish Peaks Mountain Club in Big Sky. PHOTO BY DAVE PECUNIES

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## OPENING SHOT



Top of the World: Mungo, a Belgian Malinois, eclipses Lone Mountain from his perch at the Yellowstone Club. See more images on Mungo's Instagram account @mungolicious. PHOTO BY LISA ZELSON

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# NEWS IN BRIEF



## Bullock announces support for major broadband expansion in Montana

OFFICE OF GOV. STEVE BULLOCK

Gov. Steve Bullock on Oct. 6 announced T-Mobile will expand high-speed wireless broadband access in Montana. Bullock expressed his support of T-Mobile's agreement with Charter Communications through a letter to Federal Communications Commission Chairman Tom Wheeler.

"Montana's economy is strong and we are seeing great opportunities for businesses to grow and expand all across the state," Bullock said. "Increased access to high-speed internet and enhanced mobile coverage will further strengthen our state's business climate and enable Montana businesses to thrive in a global economy, and create more job opportunities for hard-working Montana families."

T-Mobile has agreed to buy Charter Communications wireless licenses in Montana and plans to aggressively build out the state for high-speed wireless broadband. Bullock expressed strong support to Chairman Wheeler for the transfer of three of Charter's 700-megahertz spectrum licenses to provide Montana residents with increased access to high-speed services.

Through the purchase of these three licenses, which cover nearly all of Montana east of Interstate 15 and four counties in northwestern Wyoming, T-Mobile will be able to provide 4G LTE wireless broadband to underserved areas covering nearly 1.1 million people in the two states.

## Montana residents urged to vote in Supreme Court race

MISSOULA (AP) – Montana residents are being called upon to vote in the upcoming state Supreme Court race.

Justice Jim Shea, who is running unopposed but will appear on the ballot for retention votes, said Oct. 10 at a Montana Supreme Court election forum in Missoula that 40,000 voters in 2014 didn't vote in the Supreme Court races, Lee Newspapers of Montana reported.

"It's like the third-largest city in Montana just staying home," he said. "We are the third co-equal branch of government in this state, and there are only seven of us on the Supreme Court. These are important races."

Shea and Chief Justice Mike McGrath are both on November's ballot unopposed, but longtime Cascade County District Judge Dirk Sandefur and former adjunct professor of law Kristen Juras are competing for an eight-year term to replace Justice Patricia Cotter.

At the election forum, both Shea and McGrath called on voters to better understand what the court does and to actively help shape Montana's judicial system.

"We're the only ones who don't make decisions with an eye toward making everybody happy," Shea said. "To quote [U.S. Supreme Court Chief Justice John] Roberts, the job of a judge is to call balls and strikes. We don't get to change the strike zone because the Mariners are one game back to the wild card."

## September park visitation increases by 3 percent

NATIONAL PARK SERVICE

MAMMOTH HOT SPRINGS, WY – Visitation numbers for September increased in Yellowstone National Park. The overall increase for September 2016 totaled 3.17 percent over September 2015. The first eight months of 2016 are up 4.1 percent compared to the previous year.

Two of the park's five entrances (South Entrance and Northeast Entrance) showed a slight decrease in vehicles for the month of September compared to September 2015. The South Entrance showed a decrease because it was closed for three days due to fire activity south of the park.

Once again, buses showed the most striking increase in vehicle traffic. A total of 2,361 buses were in the park this September compared to 1,934 buses in September 2015 – a 22 percent increase from 2015.

While many factors could be at play, park managers point to the National Park Service's Centennial year, marketing and tourism promotions by the states of Montana and Wyoming, and lower gas prices as influences for the record number of visits to Yellowstone so far this year.

Visit [irma.nps.gov/Stats/Reports/Park](http://irma.nps.gov/Stats/Reports/Park) for additional park visitation data and information on how these statistics are calculated.

## Feds warn Montana over compliance with driver's license law

BY MATT VOLZ  
ASSOCIATED PRESS

HELENA (AP) – Homeland security officials have warned Gov. Steve Bullock that the state may not get any more time to comply with federal driver's license rules, meaning residents may eventually need a different form of identification to board commercial aircraft.

In response, Bullock wrote Department of Homeland Security Secretary Jeh Johnson a letter Oct. 11 urging him to suspend implementation of the Real ID Act and accept Montana licenses as secure forms of identification.

"The Obama administration continues to push what I think is a real misguided effort, this Real ID Act," Bullock said in an interview. "I've written Secretary Johnson to say it's time to suspend your efforts and go back to the Congress and get this fixed because Montana is not going to be in compliance."

Montana and several other states oppose requirements in the federal law that include storing images of documents that driver's license applicants present as proof of their identity, such as birth certificates. The state already has been granted two one-year extensions to get in compliance. But a letter sent Sept. 15 by

Homeland Security Deputy Assistant Secretary Ted Sobel said states that can't commit to fully complying with the law may not receive any more extensions.

Montana's latest extension expired Oct. 10, and the state has no plans to align its driver's licenses with the federal law.

The state Legislature in 2007 voted unanimously not to comply with Real ID. Bullock and Attorney General Tim Fox have both insisted Montana's licenses are secure without meeting all of the requirements of the federal law.

States that don't get new extensions will have a temporary grace period before their driver's licenses aren't accepted for admission to federal facilities and nuclear power plants. By January 2018, domestic air travelers with licenses from those states will have to show an alternative form of identification to board planes.

Bullock said that leaves more than a year for Congress to change the law, "and I expect Congress to fix it."

The Real ID Act was passed in 2005 to prevent terrorism and identity theft by improving the reliability and accuracy of state-issued identification documents, according to federal officials. State officials say the information that is stored could be breached and could be used to track ordinary U.S. citizens.



# Do the presidential debates influence the way you vote? Why or why not?



**Karen Davids**  
*Big Sky, Montana*

To some degree: How they carry themselves; how they react. But I've already made my decision by the time the debates come.



**Rachel Schosek**  
*Big Sky, Montana*

They're just making themselves look like asses. They aren't doing anything to help themselves. At this point it's just a popularity contest.



**Ariane Coleman**  
*Big Sky, Montana*

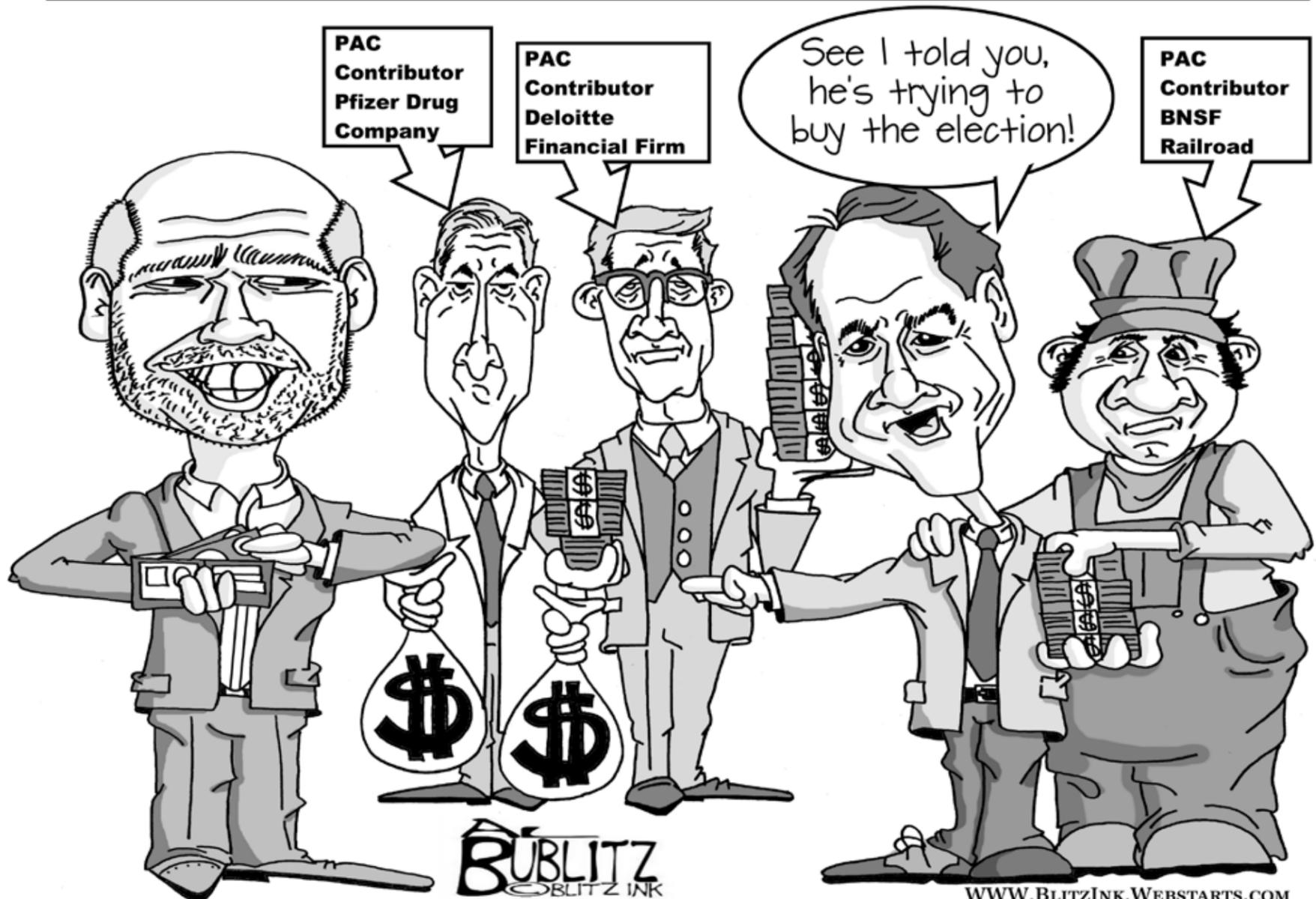
No, they're too catty. They're acting like children. They're not talking about any political issues that are substantiated or fact.



**Austin Pettit**  
*Big Sky, Montana*

No, unless the candidates change their views. Most people's minds are already made up.

**As the Governors race continues, Gianforte puts another \$1.5 million of his own money into his campaign. Meanwhile Governor Bullock took in large PAC contributions from unions for his campaign.**



## Letter to the Editor: Elect a county commissioner who understands Big Sky

Two-thirds of Gallatin County residents live in our cities, towns and unincorporated communities, but none of our county commissioners do. If we expect to encourage growth in and adjacent to our municipalities and rural communities, we need a commissioner who actually represents that majority. I will work with all of our communities to retain their individual identities as we address the effects of rapid growth.

Big Sky and Gallatin Canyon provide a unique set of challenges for county government. To promote safe and quality construction, I support a county-wide building inspection program. To help get working class folks from affordable areas to where the jobs are, I support an annual county contribution to the Skyline bus service. I will also support Big Sky's efforts to gain the tools for self-sufficiency and self-determination.

In 1998, I was the first to alert Big Sky residents of an attempt by the Big Sky Water and Sewer District to get a permit from the Department of Environmental Quality to discharge directly into the Gallatin River. I will continue to help protect this critical public treasure.

To address the many issues we face as a rapidly growing county we need a new, proactive approach from the county commission. We need a commissioner who truly represents the majority of our county's residents. I would appreciate your support this November.

Brian Leland  
Candidate for Gallatin County Commissioner  
Bozeman

## Obituary Christopher Lee Jones

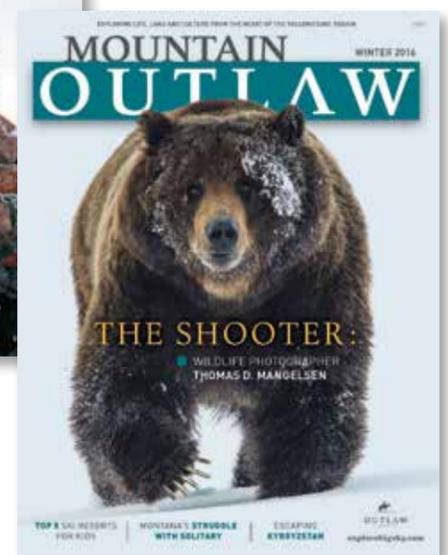
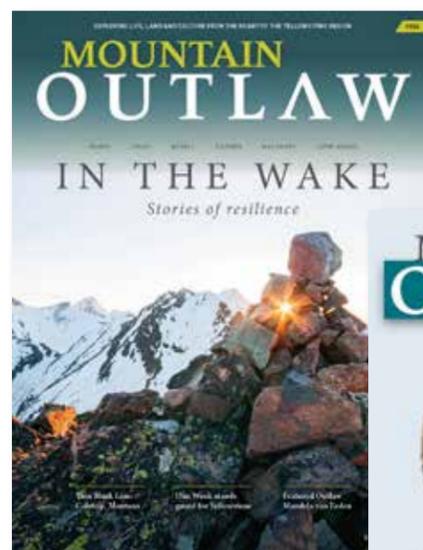
Christopher Lee Jones, 26, of Big Sky, Montana, passed away suddenly on Oct. 8, 2016. Chris was born in Lewistown, Montana, on March 30, 1990 and raised by parents Pattie and Dave, alongside his siblings Heather and Thomas. Chris attended Highland Park Elementary, Lewistown Jr. High School, and attended Fergus High School before getting his GED.



After high school, Chris followed his adventurous spirit to Big Sky where he could pursue snowboarding, skateboarding, and other thrill-seeking activities. He took an active role in the snowboarding community of Big Sky. He will be missed greatly.

Chris is preceded in death by his adoptive parents Pattie and Dave, as well as his mother, Susan Jones. He is survived by siblings Heather Jones and Thomas Jones, both of Lewistown, Montana.

Christopher's memorial will take place Friday, Oct. 21, at 2 p.m. at Kiwanis Park in Lewistown, located on 7th Avenue North and Huron Street. There will also be a memorial on Dec. 10 at Big Sky Resort for a ski day. Condolences and memories may be shared with the family at [dahlcares.com](http://dahlcares.com).



# MOUNTAIN OUTLAW

WINTER ISSUE ON SHELVES AND IN THE APP STORE DECEMBER 2016

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# Growing pains

## Developers talk new construction, employee housing and resort upgrades

BY AMANDA EGGERT  
EBS ASSOCIATE EDITOR

BIG SKY – The businesses driving the lion’s share of development in Big Sky outlined projects they’re working on and fielded questions from the public at an Oct. 11 forum held at the Warren Miller Performing Arts Center.

Approximately 150 people attended the meeting hosted by the Big Sky Chamber of Commerce that included presentations from five major developers, as well as Big Sky Community Organization Executive Director Ciara Wolfe; Steve Johnson of the Big Sky Zoning District Advisory Committee; and David Kack with Big Sky Transportation District.

Each presenter had six minutes to update the community on projects that are underway or in planning stages. The chamber of commerce recorded the forum and said the video would be available online in a few days.

Below are some highlights from those presentations:

### Kevin Germain, Moonlight Basin

Lone Mountain Land Company broke ground on the Ulery cabins along Ulery’s Lake this summer.

The Timbers, a collection of 10 five- and six-bedroom houses, is also under construction.

Next spring, Lone Mountain Land Company will break ground on the Entry condos and the Lodge residences.

The first LEED-certified project in Moonlight Basin, the 22-unit Silvertip subdivision is wrapping up.

### Brian Wheeler, Big Sky Resort Development

Since Big Sky installed the tram 20 years ago skier visits have doubled and the resort is pushing 480,000 skier visits annually.

A mixed-use subdivision in Mountain Village called the Montana Club is underway.

Plans are in the works to construct an employee housing campus on the north end of Mountain Village, complete with restaurants and laundry facilities.

### Taylor Middleton, Big Sky Resort Operations

As part of its 10-year plan, the resort has invested \$10 million in chairlift upgrades this year, which includes a new six-person “blue bubble” lift with heated seats called Powder Seeker.

Lift expansions will increase the resort’s total continuous vertical feet to 4,400. Big Sky could then reclaim the title of the ski area with the most continuous vertical feet in North America.

A tram replacement or upgrade is planned within the next few years.

### Ryan Hamilton, Big Sky Town Center

Residential projects under construction include 14 Essentia condos to be completed in 2017 and 18 Elevation 6000 condos to be completed in 2016. Lone Mountain Land Company is developing 32 residential condos with a 2017 completion date.

Commercial projects under construction include a remodel and addition to the Peaks Building; a two-story commercial building Lone Mountain Land Company is developing; and a three-story, mixed-use building with 16 apartments and condos on the upper levels. That project, near the intersection of Highway 64 and Ousel Falls Road, is slated for completion this year.

Town Center will start construction on Central Plaza, a mixed-use building near Roxy’s Grocery along Town Center Avenue, in 2017.

### Alex Iskendarian, Spanish Peaks

Digging and infrastructure work started on the Spanish Peaks hotel about a year ago. Little has changed at the site since, but the facility is in design phase and on schedule. Construction on the 500,000-square foot hotel will begin next spring or summer.

Two homes in the Highlands development have been completed recently.

### Mike DuCuennois, Yellowstone Club

The Yellowstone Club is also constructing a massive lodge. It’s approximately 550,000 square feet and currently being built. It’s a \$295 million project—the most expensive in the state’s history—and is scheduled for completion in November 2018.

Sixty-eight homes are currently under construction at the club.

More than half of the club’s memberships have been spoken for—580 of 860 total memberships have been filled.

The Department of Environmental Quality has not fined the Yellowstone Club for its March sewer pond spill. The reclamation process for post-spill erosion control finished last week and has been inspected by DEQ.

### Ciara Wolfe, Big Sky Community Organization

Construction of Ralph’s Pass, a 2.7-mile trail connecting the Uplands and Ousel Falls trails, started this fall. BSCO will host a grand opening on June 15, 2017.

Installation of a traffic signal at the intersection of Highway 64 and Ousel Falls Road will begin next spring. BSCO planned to begin construction this fall, but a delay in the Department of Transportation permitting process pushed the project back.

BSCO is working on a pedestrian tunnel that will allow for safe pedestrian crossing of Highway 64 near Little Coyote Road. The earliest tunnel construction would start in summer of 2017, and the latest would be summer of 2018.

### Steve Johnson, Big Sky Zoning District Advisory Committee

The application for a “man camp” style development and attendant conditional zoning use was withdrawn in the face of mounting public opposition. The project is currently stalled, but could come before the committee again.

A substation between the existing ones in Meadow Village and Lone Mountain is in the works. NorthWestern Energy has a site identified between Sleeping Bear and Antler Ridge, which has generated concern among homeowners there. A conditional use application would be required for that site.

.....

In response to a question about a hotel in Town Center, Iskendarian said there are plans to break ground on a new nationally branded hotel in March or April of next year.

An audience member asked if the Yellowstone Club has plans to house seasonal workers on their property since they wouldn’t have to get a permit, and zoning is less restrictive in Madison County.

“We’re not looking inside the gates of the Yellowstone Club to house those employees,” Iskendarian replied.

DuCuennois said Yellowstone Club has a deal with the 320 Ranch to house employees there this winter and a five-year lease on Gallatin Gateway Inn with an option to buy.

In response to a question about why BSCO is pursuing a traffic signal rather than a roundabout at the intersection of Highway 64 and Ousel Falls Road, Wolfe said a traffic signal would be safer since it would actually stop vehicles so pedestrians and cyclists could cross.

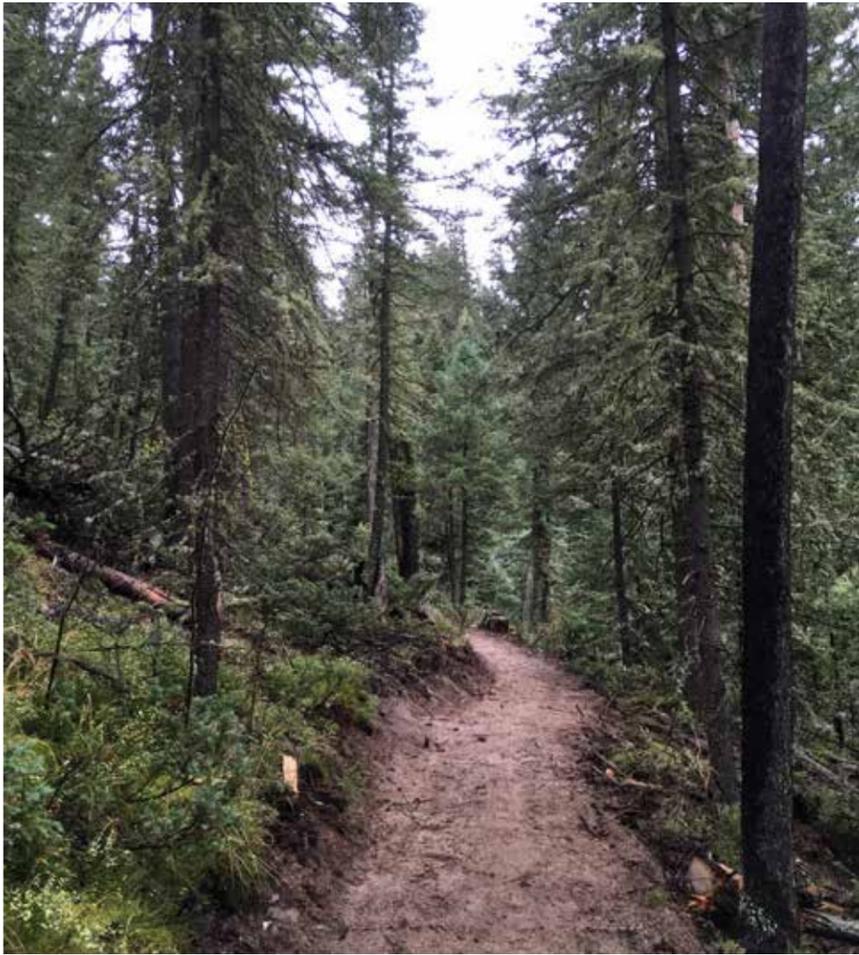
She added that installing a traffic signal costs \$1 million less than a roundabout and there are more pressing needs in the community. Kack said the DOT tends not to install roundabouts on state highways.

At the meeting close, there was a question about whether or not the Big Sky Water and Sewer District board is working on a public relations campaign to discharge treated effluent into the Gallatin River.

“That is not going on right now,” said DuCuennois, who also sits on the BSWSD board. “That’s part of a bigger global solution that may be a solution, may not.”

He urged the community member to attend a meeting of the Big Sky Water Solutions Forum.

“There’s not any other community I know of in the country that’s storing hundreds of millions of gallons of wastewater,” said DuCuennois, adding that water treatment technology has improved dramatically in the past 10 years, and other options like using effluent for snowmaking are part of the discussion.



## Ralph's Pass underway

Construction has begun on the Big Sky Community Organization Ralph's Pass Trail. This 2.7-mile hike and bike trail, connecting the Uplands Trail and Ousel Falls, will open to the public next summer on June 15 at a grand opening event. Landowner agreements include a seasonal closure from Oct. 15 to June 15. PHOTO BY EMILY O'CONNOR



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# ELECTION 2016: THE BASICS, VOL. 3



BY EBS STAFF

## U.S. House Race

A Republican has occupied Montana's lone seat in the U.S. House of Representatives since Rick Hill was sworn in after the 1996 election. The GOP currently holds a 247-187 majority in the House and it's unlikely Democrats will retake control after the Nov. 8 election.

As of Oct. 12, ballotpedia.org "currently rates this race as safely Republican," when incumbent Ryan Zinke squares off against challenger Denise Juneau, though the Democratic Congressional Campaign Committee has Juneau on their list of "Red to Blue" candidates.

### The candidates:



#### Ryan Zinke (R) -

Rep. Zinke won the 2014 race with 55 percent of the vote over Democrat John Lewis, after Steve Daines vacated the seat to successfully run for Senate. A graduate of Whitefish High School, Zinke attended the University of Oregon on a football scholarship and graduated with a bachelor's in geology. He also earned a master's in both business finance and global leadership from the University of San Diego. He served as a U.S. Navy SEAL for 23 years, and a Montana state senator from 2009 to 2011.



#### Denise Juneau (D) -

Denise Juneau was elected in 2008 as the State Superintendent of Public Instruction and served two four-year terms heading the Montana Office of Public Instruction. After graduating from Browning High School, Denise received her bachelor's degree in English from Montana State University and earned a master's from the Harvard Graduate School of Education. Juneau is also a graduate of the University of Montana Law School, a member of the Mandan Hidatsa Tribes and is Montana's first openly gay candidate for federal office.

Here's a look at some of the issues, and where the candidates stand through quotes from the Oct. 5 congressional debate held in Great Falls. Zinke and Juneau were joined on the stage by Libertarian candidate Rick Breckenridge who replaced Mike Fellows on the ballot after Fellows died as a result of a September car accident. Breckenridge was an animated addition to the debate, but for brevity's sake we're only including the two major party candidates.

### National Security

(The first question asked during the debate was in regard to Malmstrom Air Force Base near Great Falls: With the base's nuclear missiles set to become obsolete within 15 years, what would you do to keep it open?)

Zinke: "Our ground-based missiles are the most reliable and the most cost-effective [in our nuclear arsenal]. As your congressman, I recently put [forth] an initiative that our helicopters are updated, because they need to be updated ... Great Falls has great potential to be used as a training base, as it should ... I'm feeling pretty optimistic about Great Falls. I don't think that the missiles are going to be going anywhere."

Juneau: "That mission [at Malmstrom] is still critical for this country. It's the best nuclear deterrent we have, the most cost-effective ... we need to do everything that we can—the silos, the weapons definitely need to be modernized ... We need to protect the base, make sure it stays here in Montana and Great Falls."

### Gun Control

Juneau: "I do believe we have enough laws on the books. We need to enforce those laws currently there ... There is a bill moving through Congress I

support that would keep criminals and terrorists from buying guns. Congress can't even take that step. That strengthens the rights of law-abiding citizens and responsible gun owners."

Zinke: "Who's on the no-fly list and how do you get on it? It's secret. But more importantly how do you get off of it? If your rights can be taken away from you [by] the government and you have petitioned the government to get those rights back what other rights are sacred?"

### Healthcare (Affordable Care Act)

(The panelist noted that the median lifespan for American Indians in Montana is 19 years shorter than that of whites.)

Juneau: "I'm from Browning, Montana, I'm on the reservation. I hear stories from the Indian Health Service [and] think every Indian that accesses that healthcare has stories of not great service. We need to do better about Indian healthcare. Right now under the Affordable Care Act, thousands of American Indians now have access to other opportunities in healthcare. That's a good first step ... We need to make sure there's preventive care on reservations."

Zinke: "Obamacare has been a disaster ... how do we make it better? ... In Montana you can't have a \$10,000 deductible and ask a family to pay \$1,200 a year for healthcare. We don't make that much ... So if we want to fix healthcare we've got to do it at the frontline ... In Montana the Medicare rates should be improved so that we're on par. We're not."

## Gallatin County Commissioner race

As an unincorporated community without a mayor or city planner, Big Sky residents turn to elected officials at the county level to exercise a measure of control over the allocation of their property taxes and to direct land use policy.

Among other things, Gallatin County's three-person commission oversees planning and zoning, infrastructure development and maintenance, and the county budget. Commissioners are elected for six-year terms and appoint 200-plus county residents to more than 34 boards and commissions.

On Oct. 5, the two candidates shared their position on issues pertaining to Big Sky at a candidate forum held at the Gallatin County Community Center in Gateway. Moderated by Bozeman's League of Women Voters, here are some of the remarks from two-term incumbent Republican Joe Skinner and Democratic challenger Brian Leland.

### What are your recommendations for increasing affordable housing in Big Sky?

**Skinner:** "I don't think the government is responsible for fixing the problem of affordable housing. Big Sky's affordable housing problem was created by Big Sky, and the community knows that up there and they're working to solve it. [There are some things we can do like changing zoning and] reducing regulations and fees so developers can produce buildings that are affordable.

"But I'm opposed to using the county general fund in some way to fund affordable housing."

**Leland:** "We have totally disconnected the price of land and housing—in Gallatin County, Bozeman, [and the] Big Sky area—from your ability to make money here. Unfortunately, when you start doing breaks and subsidies and all sorts of things trying to create affordable housing, you essentially give an advantage to someone who lives in affordable subsidized housing over someone who has to live at the mercy of the market.

"I don't know what the silver bullet is for affordable housing, but I can tell you right now I will not throw [Gallatin] Gateway under the bus to provide a man camp arrangement right outside the city ... I would not do the same thing up in Big Sky either."

### Where do you stand on the proposed Law and Justice Center?

**Skinner:** As a commissioner, I'm not supposed to advocate for it, but as a candidate I would definitely advocate for it. I think it's a great project, I think it will save [the county] millions of dollars by working with the city [to do it now]."

**Leland:** "There's no doubt whatsoever that we need a new Law and Justice center, that's a given. I'm just really disappointed, quite frankly, in a lack of strategic planning in the construction of the jail back in 2008 when the county had a great opportunity to move to a different site that was going to be a lot more beneficial to the county as a whole ... It's up to voters to decide."

### Do you support funding the Skyline bus system?

**Skinner:** "Why do people ride the bus to Big Sky? Because they're working for those big corporations, building their things, working for their ski runs. So I do think they have a responsibility to pay for their fair share ... The people that are riding the bus up there, three quarters of them probably, like [Leland] said, are working up there. A quarter of them are skiers, so we're subsidizing skiers to take the bus and ride to Big Sky to ski and I don't think that's right."

**Leland:** I don't see a reason why in the world Gallatin County shouldn't also toss into the pot ... It benefits everyone in Gallatin County for people to have public transportation ... Anything we can do to get traffic off [Highway 191] is going to benefit Gallatin County."

## Ballot Initiatives

### Montana Crime Victims Rights Initiative (Marsy's Law), CI-116

**Ballot Text:** "CI-116 would add a new section to the Montana Constitution establishing specific rights for crime victims. The rights enumerated include the right to participate in criminal and juvenile justice proceedings, to be notified of major developments in the criminal case, to be notified of changes to the offender's custodial status, to be present at court proceedings and provide input to the prosecutor before a plea agreement is finalized, and to be heard at plea or sentencing proceedings, or any process that may result in the offender's release. CI-116 guarantees crime victims' rights to restitution, privacy, to confer with the prosecuting attorney, and to be informed of their rights. Fiscal impacts for the Office of the Public Defender, Judicial Branch, Department of Corrections and local governments could not be accurately determined at this time."

**Proponents say:** Marsy's Law raises victims' rights to a level equal with the rights of the accused. Victims of crime should have the right to be notified of hearings in their case, and the right to be present and be heard at those hearings. Victims should have the right to confer with the prosecuting attorney in their case and to provide input before a plea agreement is finalized. Crime victims should have the right to privacy and to refuse unreasonable requests for discovery or the release of personal information. Victims should have the right to be notified of any changes in the custodial status of the offender in their case. Providing victims of crime with long-overdue equal rights will be a huge step toward ensuring victims of crime are treated with dignity, notified of important legal events like bail and parole hearings, and provided a voice in the process.

**Opponents say:** Montana has strong laws to protect crime victims—this amendment is costly and unnecessary. To handle all the requirements of CI-116, Montana cities and counties will be forced to either cut other services to citizens, or raise taxes to pay for adding staff. CI-116 has a vague definition of "victim" that will include many people who are not victims at all, including friends of actual victims. Years of costly lawsuits will be needed to determine whether the new rights are superior to the rights being taken away or minimized. CI-116 creates new victims' rights that conflict with a defendant's constitutional rights. If CI-116 is approved, lawsuits will pit the victim's new rights against the civil liberties of a person who is presumed innocent, creating uncertainty and delay within Montana's criminal justice system.

### Montana Animal Trap Restrictions Initiative, I-177

**Ballot Text:** "I-177 generally prohibits the use of traps and snares for animals on any public lands within Montana and establishes misdemeanor criminal penalties for violations of the trapping prohibitions. I-177 allows the Montana Department of Fish, Wildlife, and Parks to use certain traps on public land when necessary if nonlethal methods have been tried and found ineffective. I-177 allows trapping by public employees and their agents to protect public health and safety, protect livestock and property, or conduct specified scientific and wildlife management activities. I-177 reduces approximately \$61,380 of state funds annually, resulting from a loss of trapping license revenue."

**Proponents say:** Because trapping is indiscriminate, it is not an effective management tool to control disease or populations. Limited trapping to protect livestock and property, for health and safety, and for scientific and wildlife management activities is allowed under I-177. Public lands belong to the public. For every trapper who wants to engage in that activity, on those lands, there are thousands of Montanans who value robust wildlife populations, ethical hunting practices, and freedom from the fear of hidden weapons on land that belongs to us all.

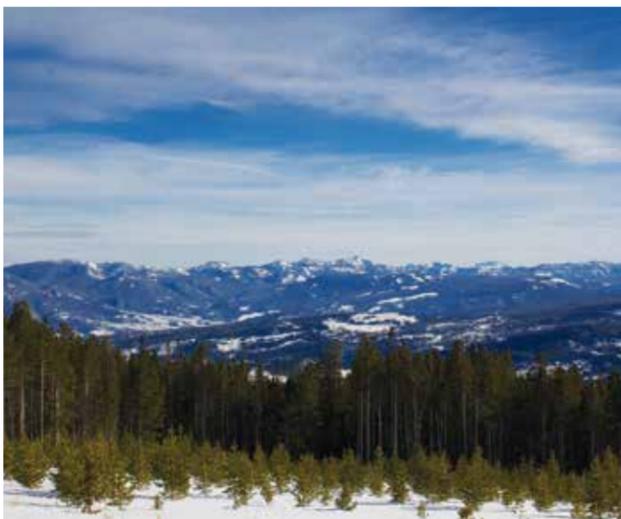
**Opponents say:** Wildlife management professionals recognize trapping as an effective and legitimate wildlife management tool. Trapping is an important tool for biologists, ranchers, farmers, home owners and pest control professionals. It enables wildlife managers to control problematic predator and pest populations that can attack pets, spread diseases among humans and wildlife, damage property, impact other wildlife populations and kill livestock. I-177 is overly broad and will impact the ability to control pests and wildlife on all publicly owned land and facilities.

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# MSU alumna spends year in solar-powered dome as part of simulated Mars mission

DENISE HOEPFNER  
MSU NEWS SERVICE

BOZEMAN – Montana State University alumna Carmel Johnston made national news after emerging from a dome Aug. 28, located on the slope of a Hawaiian volcano where she lived for a year as part of a NASA-funded project to simulate life on Mars.

Johnston, a soil scientist from Whitefish who earned her bachelor's and master's degrees from MSU's Department of Land Resources and Environmental Sciences, served as mission commander of the Hawaii Space Exploration Analog and Simulation, or HI-SEAS, project, led by the University of Hawaii.

The focus of the yearlong mission was to study how living in isolation in deep space for long durations affects crewmember cohesion and performance, and to provide NASA with data on how to select and support a flight crew that will work cohesively as a team while in space. For the mission, crewmembers had to behave and live as if they were truly on Mars.

Along with five other researchers, Johnston moved into the two-story, solar-powered dome on the Mauna Loa volcano on Aug. 28, 2015.

Johnston said there were a number of reasons she joined the mission, which was the fourth—and longest—of the HI-SEAS missions. Previous missions lasted four or eight months.

"I wanted to participate in HI-SEAS to contribute to space exploration, conduct research in a unique environment and test my personal limits," she said.

Before entering the dome, Johnston spent the summer working in Glacier National Park, enjoying as much time outdoors as she could.

"There aren't too many things that you can miss in the dome other than your family, friends and the outdoors," she said.

As commander, Johnston's role was to ensure that crewmembers were compliant with the mission objectives and research tasks, such as geologic exploring and analysis, team cooperation tasks and completing daily surveys.

"I spent a good deal of time emailing with mission support about our status, progress or any issues that were occurring and then working to fix any problems that we had," Johnston said.

The crew documented some of their day-to-day life for The History Channel's "History Now" video series, "The Martians." The series gives viewers a look inside the dome and at some challenges crewmembers faced, such as how they handled their assigned tasks, what it takes to grow a garden in light-limited conditions, the struggle of keeping in touch with loved ones and what it means to rely completely on solar power.

Johnston explained that earlier HI-SEAS missions performed a food study to determine whether astronauts would be more satisfied with cooking their own meals rather than eating the premade freeze-dried meals used on the International Space Station.

"We made fantastic meals that tasted exactly as you cook in the normal world because we had most of the same ingredients," she said. "As long as you have a basic knowledge of cooking and ingredient proportions, you can make amazing meals out of freeze-dried or backpacking meals. There is no reason to eat bad food in space."

Johnston said that an upside to being isolated in the dome was the lack of outside distractions.

"We had the ability to shut out all the distractions of modern society," she said. "No social media, no news streaming, nothing that didn't come through



A view of the terrain and living habitat of the Mars simulation on Hawaii's Mauna Loa volcano seen in this undated photo. PHOTO COURTESY OF UNIVERSITY OF HAWAII

email and a 20-minute delay in each direction. You could shut out the outside world and just focus on your tasks at hand."

The crew's emergence from the dome on Aug. 28 attracted attention from multiple media outlets, including National Geographic, NPR and Smithsonian magazine, all wanting to know more about the experience of living with five other researchers in a 1,200-square-foot space with limited resources.

Johnston said coming out of isolation to an onslaught of media attention was overwhelming, with "microphones and cameras in your face, and people asking questions, when all you really want to do is eat breakfast."

Johnston said much of her education at MSU prepared her to successfully complete the mission.

"The experience I gained in doing remote fieldwork [while pursuing] my master's degree prepared me for collecting and analyzing data in a remote location," she said. "The skills and topics I learned in geology, geomorphology, GIS, remote sensing and soils courses were directly applicable to collection and subsequent mapping of our 'Martian' landscape as well as growing fresh vegetables for the crew to enjoy."

Despite any hardships and stressful situations, Johnston said the payoff is knowing the team's research in determining important factors to consider when sending humans to Mars will benefit future explorations in space or other similar environments.

"The data we collected is focused primarily on a mission to Mars, but it has applications to any remote or extreme environment," she said. "How do you select the ideal crew composition? What happens when you can't walk away from an argument? What support is needed from the ground in order to keep astronauts productive and happy?"

# Democrats release audio of Gianforte proposing sales tax

BY MATT VOLZ  
ASSOCIATED PRESS

HELENA (AP) – Republican gubernatorial candidate Greg Gianforte once called replacing Montana’s income and capital gains taxes with a sales tax an “ideal solution” that would draw high-tech businesses to the state, according to an audio clip released by the state Democratic Party leader Sept. 29.

Gianforte is in a close race against Democratic Gov. Steve Bullock in the Nov. 8 election, and the timing of the release was meant to influence Montana voters who have twice before rejected initiatives to institute a statewide sales tax.

Gianforte, in testimony before then-Gov. Judy Martz’s Income Tax Advisory Council in 2002, said Montana’s tax structure was hindering it from being a worldwide competitor in the technology industry because executives would not want to move to a state where they would pay high taxes.

“The best solution, because our competition’s at zero income tax rate and zero capital gains, would be to replace the current income and capital gains rate with a sales tax,” Gianforte said. “I know that there are a few political issues and constitutional issues, but I didn’t think I’d be fair in coming here and not saying that I believe that is the ideal solution.”

Gianforte testified as CEO of RightNow Technologies, the company he started in Bozeman and sold to Oracle in 2011 for \$1.8 billion.

Montana is one of five states that don’t have a statewide sales tax, and the idea of implementing one is unpopular. A 2011 poll conducted by Lee

Newspapers found that only one out of every four Montanans support replacing the income tax with a sales tax.

Opponents say a sales tax disproportionately affects lower-income families because such taxes are not based on income.

“A sales tax is an ideal situation for corporations and wealthy individuals like Mr. Gianforte, but it hurts the rest of [us] Montanans,” Montana Democratic Party Executive Director Nancy Keenan said in a news conference releasing the audio and minutes of the 2002 meeting.

Gianforte earlier this year released a tax plan in which he calls for no sales tax. His campaign said Bullock and his allies were using “scare tactics” to mislead voters about Gianforte’s proposal, and it criticized the governor for not releasing his own tax plan.

“Greg Gianforte laid out the 406 tax relief plan in April which will get our economy and revenues growing again while keeping the budget balanced,” said spokesman Ron Catlett. “The ‘0’ means no sales tax.”

Gianforte acknowledged in his 2002 testimony that it may be politically untenable to implement a sales tax in Montana. Instead, he suggested lowering the marginal income tax rate, giving high-tech firms capital gains tax relief and making up the difference in revenue through tourism resort taxes.

Martz eventually proposed lowering income taxes and replacing them with certain sales taxes that would target tourists, but her plan failed to pass the state Legislature in 2003. Statewide tax plans proposed in subsequent legislative sessions also were rejected.

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# Bullock, Gianforte duel one last time before voting starts

BY MATTHEW BROWN  
ASSOCIATED PRESS

BILLINGS (AP) – Montana Gov. Steve Bullock forcefully defended the economic gains made during his first term following criticism from his Republican challenger, Greg Gianforte, at their last scheduled debate Oct. 8.

Amid a barrage of attacks carried out by their surrogates, the Oct. 8 event offered a last chance for the candidates to face off in person before early voting begins.

Bullock refuted Gianforte's claims that he has been ignoring the state's fiscal troubles. The incumbent did not back down from his oft-repeated claims that incomes are up and the state's fiscal health is strong. He said the state's rainy-day reserve remains well-funded "because I insisted on it."

Bullock accused Gianforte, a Bozeman high-tech entrepreneur of outsourcing jobs to other countries through his former company, RightNow Technologies. Similar claims were made but never substantiated by Democrats leading up to the 2012 election of Republican U.S. Sen. Steve Daines, a former executive at RightNow Technologies under Gianforte.

A perturbed Gianforte rejected Bullock's accusations and said the firm, now owned by

Oracle, created hundreds of high-wage jobs in the Bozeman area and offered a template for the kind of private-sector innovations that Gianforte said is key to Montana's future.

"It's frustrating that a career politician would manipulate the truth so desperately to hold onto his job," Gianforte said. He added that layoffs in the timber industry and the pending partial-closure of the Colstrip coal-fired power plant underscored the need for a leadership change in the governor's office.

Bullock cast his opponent as a threat to public education due to his association with groups that advocate for private schooling. He said Gianforte's much-publicized lawsuit against the state after a property dispute with Montana Fish, Wildlife and Parks showed the Republican won't stand up for public access to streams.

Gianforte blamed the dispute on a "survey error" by state officials.

In response to a question about demeaning comments about women made by Republican presidential candidate Donald Trump, the Democratic governor said the statements would be inappropriate if they came from a dogcatcher, let alone a presidential candidate.

"It was more than locker-room talk; it was talk about sexually assaulting women," Bullock said.

Gianforte agreed with Bullock that the comments from Trump, contained in a 2005 video obtained by The Washington Post, were offensive. Nevertheless, Gianforte added that he would "reluctantly" continue to support Trump in order to prevent Democrat Hillary Clinton from being elected.

Nationwide more than a dozen Republican senators, congressmen and sitting governors said Oct. 8 they would not vote for Trump.

The final Bullock-Gianforte debate took place in a television studio in Great Falls and was broadcast statewide on Montana Television Network stations.

Outside the debate, Democratic operatives tried to focus attention on Gianforte's past support of a new sales tax. Gianforte's campaign said Bullock was trying to divert attention from his use of a state airplane for campaign trips.

Both candidates planned to hold get out the vote rallies at sites across the state as the race heads into its final stretch, representatives of the campaigns said.

Montana absentee ballots were due to be mailed to voters by Oct. 14.

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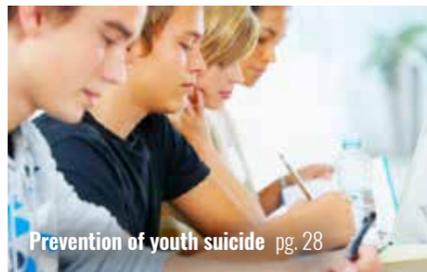
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# Whitman College uses American West as ultimate 'life' classroom



BY TODD WILKINSON  
EBS ENVIRONMENTAL COLUMNIST

Phil Brick is the kind of college professor I wish I had known during my formative years of matriculation; his 21 students, now partaking in Whitman College's seventh iteration of Semester in the West, are the bright, conscientious young minds America needs.

Worth noting just as much is that Semester in the West, in which many Whitman attendees from Montana have participated, is truly a landmark achievement in place-based education.

Earlier this autumn, I spent two weeks on the road with "Westies," as they are called, camping out every night on an arc through three states. The provocative conversations we had still stay with me. They cause me to reflect. The places we explored together continue to visit me in my dreams.

To get at the heart of what the West is, it's essential to first grasp the region's natural history, to separate mythology from reality, to consider the urban-rural divide, to probe why some states are red versus blue, and to open one's eyes.

Whitman is a small liberal arts college located in Walla Walla, Washington. Semester in the West, which happens every other year, was founded by Phil Brick and Don Snow, chair of the college's environmental studies department. They had a novel, unprecedented and ambitious mission: to push students out of their comfort zones by roughing it, to set them on a course of nomadic discovery spanning 8,000 miles over 100 days and to make ground-truthing the "issues."

Westies are encouraged, thanks to Brick's insistent and gentle mentoring, to look the real West in the eye, and to not accept anything at face value.

Semester in the West is a bold counterpoint to Massive Open Online Courses, or MOOCs, which are portrayed by some as the great equalizers in American education, ostensibly making the benefits of digital remote learning available and affordable for all.

Brick has devised a truly ingenious model for making his classroom mobile. He pulls a tricked-out, converted horse trailer behind a pickup that has a satellite dish to enable remote access to the Internet for student research.

A few years ago, Brick and I got to talking. I suggested setting out eastward beyond the mountains onto the high plains of the interior pressing toward the 100th Meridian where "The West" geographically is said to begin.

Brick extended an invitation for me to serve as co-leader on this year's journey and so, in early September, this was our route: We began with a couple of days at Ted Turner's 113,000-acre flagship ranch near Bozeman—the Flying D—where Turner's vision for bison and rewilding his western properties was born.

Then we floated down the White Cliffs section of the Upper Missouri River holding Lewis and Clark's journal entries in one hand and the 185-year-old aquatints of painter Karl Bodmer as visual reference points in the other. We dropped down to the Little Bighorn Battlefield, and camped at the base of Bear Butte, one of the most sacred sites for plains tribes.

We then spent three days in the company of Lakota friends Ben Sherman and his ethnobotanist brother, Richard Sherman, on the Pine Ridge Indian Reservation. The Shermans escorted Westies on a memorable tour of the southern Badlands being managed by the Oglala Sioux Tribe, meeting President Tom Short Bull at Oglala Lakota College, having lunch with the great granddaughter of Nicholas Black Elk, Betty O'Rourke, and paying a solemn, wrenching visit to Wounded Knee.

From there, we headed to Gillette, the capital of American coal country in the Powder River Basin, and met with the city's Mayor Louise Carter-King and Dave Olson, a geologist at Alpha Coal's Eagle Butte Mine.

In my final stretch with the Westies, we reached Jackson Hole. The difference between Teton County, Wyoming—the wealthiest per capita county in America—and Shannon County in South Dakota on Pine Ridge—one of the poorest in America, could not have been brought into starker contrast.

Tooling around the Tetons, the Westies met with Brad Mead, older brother of Wyoming Governor Matt Mead at the historic Hansen Ranch up Spring Gulch.



Whitman College's Semester in the West students spent a couple of days with Ted Turner's natural resource experts on his Flying D Ranch southwest of Bozeman learning about bison and fish restoration. PHOTO BY TODD WILKINSON

It's a shame all Americans can't embark upon Semester in the West, a program unlike any other in the country.

Alums of Semesters in the West will tell you that it changed their lives, woke them up, caused them to appreciate their place of privilege and sparked a desire to give back the rest of their days.

Trust me, they are Millennials bound for casting ripples of positive meaning in the world.

*Todd Wilkinson has been a journalist for 30 years. He is author the recent award-winning book "Grizzlies of Pilgrim Creek: An Intimate Portrait of 399, the Most Famous Bear of Greater Yellowstone," featuring 150 astounding images by renowned American nature photographer Thomas Mangelsen. EBS publishes Wilkinson's New West column every week online and twice a month in the print version of the paper, under a partnership arrangement with the Wyoming online journal thebullseye.media. We encourage you to check out The Bullseye.*

## US: Coal mine expansion to have minor climate impact

BY MATTHEW BROWN  
ASSOCIATED PRESS

BILLINGS (AP) – U.S. officials approved a 117 million-ton expansion of a Montana coal mine after concluding that burning the fuel would have a minor impact on the nation’s overall greenhouse gas emissions, according to documents released Oct. 6.

The expansion of the Spring Creek Mine, Montana’s largest coal mine, would generate roughly 160 million tons of carbon dioxide over the next five years, according to an Interior Department analysis of the project that was conducted under a court order.

Those emissions would be about one half of 1 percent of projected annual U.S. emissions of the climate changing gas in 2020. Even if the agency blocked the mine expansion, federal officials said power plants served by Spring Creek could obtain coal from mines on private reserves, negating any possible decrease in emissions.

The expansion was first approved in 2012 then held up by environmentalists waging a legal campaign in courthouses across the region to stop or delay mining on public lands in the Western U.S.

The Powder River Basin of Wyoming and Montana accounts for about 40 percent of annual U.S. coal production, most of that from public lands. Spring Creek is Montana’s largest coal mine, located near the town of Decker along the Wyoming border. It’s owned by Cloud Peak Energy.

Environmentalists with WildEarth Guardians had sued the Interior Department to challenge the expansion of the mine, which extracts coal from publicly owned reserves, saying it would make climate change worse.

As a result, U.S. District Judge Susan Watters ordered in January a rigorous study of the planned expansion, saying that an earlier review by Interior had failed to take a hard look at its environmental impacts.

Jeremy Nichols with WildEarth Guardians, one of the groups that sued over the expansion, said the government’s new analysis is better but still reaches the wrong conclusion.

“We want Cloud Peak to shut down and go away. I’ll be totally honest about that,” Nichols said. “[Federal mining officials] want to say that this is a drop in the bucket. But every drop matters. ... This is a huge resource locking in hundreds of millions of tons of carbon emissions.”

Cloud Peak had warned of major layoffs at Spring Creek if its expansion was thwarted.

Spokesman Rick Curtsinger said in an emailed statement that the company was pleased with the outcome.

“Spring Creek Mine safely and responsibly continues to meet an important part of America’s energy needs while employing hundreds of people and contributing millions in tax and royalty revenue,” he said.

The company has another public coal lease application pending for Spring Creek, for 198 million tons, before the U.S. Bureau of Land Management. It’s among 30 pending leases federal officials said they won’t decide on until completion of a multi-year review of the federal coal leasing program announced in January by the Obama administration.

WildEarth Guardians has prevailed in similar cases in Colorado and New Mexico. In Colorado, mining at the Colowyo Mine was allowed to proceed after a climate change impacts review like the one done for Spring Creek.

In New Mexico, a federal judge ruled in August that Interior officials must do a broad environmental analysis of the San Juan coal mine. U.S. District Judge Robert Junell said to avoid layoffs mining could continue while the study is done.

## MSU researchers receive \$1 million grant to probe unexplored Antarctic lake

BY MARSHALL SWEARINGEN  
MSU NEWS SERVICE

BOZEMAN – A group of Montana State University researchers, and their national and international team, have been awarded a \$1 million National Science Foundation grant to study a previously unexplored lake buried deep beneath Antarctica’s ice sheet.

The funding, which was announced Aug. 31, will enable the researchers to travel to a remote part of Antarctica, where they will drill through approximately 4,000 feet of glacial ice to reach one of the continent’s subglacial lakes and, among other things, sample water and sediment. The three-year project, called Subglacial Antarctic Lakes Scientific Access (SALSA), could significantly advance understanding of Antarctica’s sub-ice ecosystems.

“We know more about Mars than we do about subglacial Antarctica,” said John Priscu, a professor in the Department of Land Resources and Environmental Sciences and SALSA’s chief scientist. It’s a big part of our planet that we’ve barely scratched the surface of.

Antarctica is home to an estimated 400 subglacial lakes, some of which “haven’t had a breath of air or seen a ray of sunlight in 15 million years,” Priscu said. Little more than a decade ago the cold, isolated water bodies were thought to be incapable of supporting even primitive life, he added.

The SALSA project will build on the results from a 2013 Priscu-led Antarctic expedition, called WISSARD, in which researchers, including Mark Skidmore, an associate professor in MSU’s Department of Earth Sciences, drilled through 2,600 feet of ice. They discovered diverse microorganisms inhabiting Subglacial Lake Whillans, producing the first definitive evidence of life in Antarctica’s sub-ice environment.

“So far, we have a sample size of one,” Priscu said. Much more research is needed to broaden understanding of the subglacial life forms and the ecosystem that supports them, he said.

“It’s exciting to see John’s pioneering work expand to exploring an additional Antarctic lake, so that more can be learned about how these organisms interact with their surroundings to survive,” said Tracy Sterling, head of MSU’s Department of Land Resources and Environmental Sciences.

The lake targeted by the SALSA project, Subglacial Lake Mercer, receives some of its water from East Antarctica, a distinct hydrological region that may harbor conditions different from those of Subglacial Lake Whillans, according to Priscu.

Penetrating the ice using a hot-water drill will also provide opportunities to study how subglacial lakes affect the movement of Antarctica’s massive ice sheets.

“It’s something that’s been guessed at for a long time using remote sensing,” Priscu said.

The team also plans to use a camera-equipped, remotely operated vehicle to navigate the sub-ice body of water.

“This will be the first time that we’ll have any images of what a subglacial lake really looks like,” Skidmore said.

Kathy Kasic, SALSA team filmmaker and assistant teaching professor in MSU’s School of Film and Photography, will use those images, plus film footage and photography during the team’s field expedition—scheduled for the 2017-2018 Antarctic field season—to produce a variety of media intended for public education and outreach.

The SALSA team includes John Dore, associate research professor in MSU’s Department of Land Resources and Environmental Sciences, several MSU undergraduate students, graduate students and postdoctoral scientists. The MSU team will be joined by researchers from Italy, South Korea, the United Kingdom and six U.S. institutions. The project’s total budget is \$3.8 million.

Priscu and his team are currently planning the Antarctic expedition, which will involve transporting about 1 million pounds of equipment across hundreds of miles of barren ice, navigating crevasses in subzero temperatures.

“Now the real work begins,” Priscu said.

## Lone Peak battles for big homecoming win

BY BELLA BUTLER  
EBS EDITORIAL ASSISTANT

On Friday, Oct. 7, the Lone Peak Big Horns took the field against the Shields Valley Rebels for homecoming, and their second night game of the season in Big Sky. The stands were filled with fans decorated in Big Horn blue, braving the cold fall weather to support the LPHS boys.

The game began with a few minutes of back and forth as the both teams struggled to make a big play. But halfway through the first quarter Brock Peterson of Shields Valley ran the ball in for the first touchdown of the game.

The Big Horns received the kickoff and wasted no time with the ball, as senior quarterback Eddie Starz completed a touchdown pass to junior Holden Samuels for 29 yards and the Big Horns' converted on a two-point attempt. Lone Peak used the momentum to quickly stop Shields Valley in their next possession, following the good defensive work with another touchdown pass caught by junior Liam Germain for 36 yards.

With sophomore kicker Milosz Shipman out for the rest of the season with a knee injury, Holden Samuels came into kick the extra point, which was blocked.

With seconds left in the first quarter, Peterson displayed his speed again, dodging the Big Horn defenders and running the ball in for a second Rebel touchdown. With a successful two-point conversion, the game was tied 14-14.

The home team was fired up in the second quarter and senior Bridger Babcock was instrumental in the momentum shift that would send the Big Horns to victory.

Babcock began the quarter with a 46 yard run into the end zone, giving the Big Horns a 20-14 lead. On the next Rebels possession, he intercepted a pass and ran it back for another touchdown. He went on to lead the Big Horns with 129 rushing yards, as well as tackles with seven solo.



The Shields Valley defense helped keep the Big Horns in check through the first quarter Oct. 7, but Lone Peak opened up the scoring in the second quarter on their way to a 62-20 homecoming win. PHOTO BY BELLA BUTLER

After another Lone Peak touchdown from a short run by Starz, Peterson intercepted a pass intended for Babcock and ran it in for a touchdown. The Rebels closed the gap to 32-20, but that is as close as they would come for the remainder of the game. The Big Horns' defense found their stride and stopped Shields Valley from coming close to scoring again.

Starz and Babcock teamed up for another three touchdowns, and sophomore Sam Mueller finished off the game with his first touchdown of the season. Lone Peak celebrated their 62-20 homecoming win and sent the Rebels home with long faces.

The Big Horns are 4-3 in their first season as an eight-man team and on Saturday, Oct. 15, the boys challenge Absarokee for their senior game in Big Sky, to honor Bridger Babcock, Devin Quinn and Eddie Starz.

## Lone Peak High School homecoming



TOP LEFT, BOTTOM RIGHT: Despite the cold, wet weather Big Horn fans came out to Big Sky Town Center in force Oct. 5 to watch the Lone Peak homecoming parade. PHOTOS BY CARIE BIRKMEIER

TOP RIGHT: Homecoming King Eddie Starz and Queen Bella Butler pose with junior homecoming Prince Zach Cone and Princess Julia Barton after the Oct. 7 Lone Peak football game. PHOTO COURTESY OF BELLA BUTLER

BOTTOM LEFT: Ophir and Lone Peak cheerleaders rev up the crowd during the Big Horns' homecoming football game. PHOTO BY BELLA BUTLER



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# Big Horns thrash Wolverines at homecoming game

BY AMANDA EGGERT  
EBS ASSOCIATE EDITOR

BIG SKY – West Yellowstone was outmatched in nearly every aspect when they played Lone Peak on Oct. 6. The Big Horns won the first two sets decisively, 25-6 and 25-7, but the Wolverines closed the scoring gap during the third set to 25-21.

The Big Horns gained momentum early on in the first set with strong serves and consistent three-hit returns. “We had 24 team aces,” said head coach Sarah Phelps. “That’s huge.”

They also netted five team blocks, showing a marked increase from their recent blocking performance. Sophomore Solae Swenson led the team in blocks with two and kills with seven. In total, the team scored 22 kills.

Kuka Holder, the team setter, led the team in assists with 18. “[Holder] is having a phenomenal season,” Phelps said. “She’s setting great, she’s blocking fantastically—all parts of it, she’s doing great.”

The 5-foot-8-inch junior’s height came in handy a couple times during the game when she turned sly and skillful tips into points.

The Wolverines briefly took control of the third set, leading 4-0 out of the gate, but by the time the players paused for a time out, the Big Horns were once again leading, 8-5. Lone Peak never relinquished the lead.

Phelps said Lone Peak made errors in the third set that let West Yellowstone creep back into contention, but added that she was proud of the girls for buckling down and finishing strong. Junior Julia Barton served up one ace after another in the latter half of the third set, finishing with a game-high 10 aces.



Lone Peak High School sophomore Solae Swenson spikes the ball against West Yellowstone on Oct. 6. PHOTO BY AMANDA EGGERT

The win brought Lone Peak’s record to 5-2 in district play, and 9-2 overall.

On Oct. 13, Lone Peak faced Manhattan Christian (after EBS went to press) and Oct. 14 will take on Gardiner—two of the Big Horns’ toughest opponents—on Big Sky turf.

Phelps said Gardiner, Manhattan Christian, White Sulphur Springs and Lone Peak will be in heated contention coming into the district tournament Oct. 27-28.

“All four teams are very equally matched,” Phelps said. “It’s [going to come down to] what team that shows up that really wants it more.”

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# EYE ON THE BALL

## NFL's 1st quarter in review



BY BRANDON NILES  
EBS SPORTS COLUMNIST

We're through the first quarter of the 2016 NFL season and as always, surprises and disappointments abound throughout the league. Fans have been treated to stifling defenses, exceptional offensive rookies, and a surprisingly strong Philadelphia Eagles squad.

Things should only get better as the season progresses, but there are a couple things I'm buying, and a couple things I'm not, from the first four weeks.

### I'm buying

**Carson Wentz** – The Eagles are off to a hot start, and a big part of that is the play of rookie quarterback Carson Wentz. He isn't lighting up the scoreboards, but he's playing efficiently and looks like a veteran with poise in the pocket.

Wentz has thrown only one interception through his first four starts, and the coaching staff trusts him with more of the offense each week. Wentz seems anxious to get better and already inspires his teammates, leading Philadelphia to a surprising 3-1 record over the first quarter of the season.

**Terrelle Pryor** – While the Cleveland Browns have been struggling once again, Pryor—a converted quarterback now playing wide receiver—is having

a breakout season. With injuries and suspensions to other Browns receivers, Pryor leads the team in targets, averaging 10 per game.

Pryor was a jack of all trades against the Miami Dolphins in Week 3, catching eight balls for 144 yards, running the ball four times for 21 yards and a touchdown, and even completing three passes for 35 yards. Whether he becomes an elite receiver or not, you can be sure that Pryor will continue to be a big part of the Browns offense and extremely exciting to watch this season.

### Settle down

**Matt Ryan** – I know Ryan is on pace for a record-breaking passing yardage season and has the Atlanta Falcons leading the NFC South division. However, don't forget that we did this with the Falcons last year, and he's done most of his damage against divisional opponents and terrible pass defenses.

Last season, Ryan had the Falcons off to a 6-1 record before stumbling down the stretch, throwing 10 interceptions and leading the team to a 2-7 finish. The Falcons may be better than last season's iteration, but I'm not ready to anoint Ryan just yet.

**Carolina's demise** – After the Panthers gave up more than 500 yards to Matt Ryan in Week 4, people gave up on what was an elite defense a season ago. The team is starting a pair of rookie cornerbacks and is failing to get a consistent push up front, but aside from the Atlanta game, they've been well above average.

They played well enough the first three games this year, and will continue to get better as their young defenders improve. They still boast one of the best front sevens in football and Cam Newton remains an electrifying talent at the quarterback position. This team is going to be OK.

Additionally, from the fantasy department, I'm buying the Minnesota Vikings and Philadelphia defenses as every-week starters, and I'm not freaking out over the lack of elite production from receivers DeAndre Hopkins of the Houston Texans and Odell Beckham Jr. of the New York Giants. Fantasy owners should target them both as buy-low options in all league formats.

Some early season trends will continue, others will die out, and still more will emerge as each week passes. It's important to remember to separate bad games from bad signs for the future however, and it's always exciting to identify those trends with staying power.

The NFL season always feels so short, so as you're dissecting matchups and analyzing weekly statistics, don't forget to give yourself a chance to kick back, relax, and relish in every dramatic Sunday.

*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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# Bobcats start conference play 0-3

BY COLTER NUANEZ  
EBS CONTRIBUTOR

The rebuilding process has been more emotionally excruciating than most of the Montana State Bobcats expected.

On Oct. 8, in front of a sold out crowd at Bobcat Stadium, Montana State lost for the third straight time to begin conference play. MSU's 20-14 loss to Northern Arizona pushed the Bobcats to 0-3 in the Big Sky Conference for the first time since 2001.

The Bobcats are 2-4 overall in Jeff Choate's first season as head coach, and the losses have all come in heartbreaking fashion.

"This is a feeling we have had too much this year, honestly," said MSU senior captain running back Chad Newell, after rushing for 68 yards against NAU. He also scored his 29th career touchdown, tying Don Hass for second on MSU's all-time list.

"At the end of the day, the newspaper title reads 'Bobcats beat Bobcats' again," Newell said. "That's a thing we have to eliminate."

Montana State had a chance to tie the game in the waning minutes of a 17-15 loss to North Dakota at home Sept. 24, only to see Newell get stuffed at the goal line to deny MSU an opportunity at its first Big Sky victory.

On Oct. 1 in Sacramento, true freshman quarterback Chris Murray staked the Bobcats

to a 38-21 lead by ripping off three touchdown runs, including sprints of 59 and 58 yards.

But Montana State's defense collapsed late under its own fatigue, as the Hornets piled up 20 unanswered fourth quarter points. Nate Ketteringham's 15-yard touchdown pass to Jaelin Ratliff with 15 seconds left boosted previously winless Sacramento State to its first victory of the season, 41-38.

Against NAU, Montana State dug itself a 20-0 hole as the offense sputtered for the first two and a half quarters. Junior quarterback Tyler Bruggman completed just three of his 10 passes and MSU managed just 94 yards on its first 36 plays.

Choate and his staff pulled Bruggman in favor of Murray, who promptly led MSU on two touchdown drives. The first was sparked by Jayshawn Gates' 32-yard run on a wide receiver jet sweep play and capped by Newell's touchdown.

The second scoring drive featured Gunnar Brekke's 28-yard burst and was finished by Murray's 13-yard scoring scamper.

Montana State assumed possession with 1:46 left in the game. Murray converted two first downs with strikes to fellow freshman Kevin Kassis to get the ball to midfield. But with less than 20 seconds to play, menacing NAU defensive end Siupeli Anua came off the edge, smashed Murray from behind and forced a fumble that NAU recovered to seal the Lumberjacks' 20-14 win.

"It's a fickle game, man," a discouraged Choate said following the loss. "I feel like these guys have done everything we've asked them to do. I hurt for them.

"I know this: it's going to turn," he added. "It's the nature of this game if we stay the course. If we build something the right way with the same foundation and discipline, we will have a really, really good football team here."

Montana State's four losses have come by a combined 14 points. The Bobcats had the ball with a chance to tie or win the game against Idaho, North Dakota, Sacramento State and NAU. All four times, the Bobcats came up just short.

"I feel like we are definitely going to come back from it," said Montana State senior cornerback John Walker, after the NAU loss. "We have to have a short memory in this game."

Montana State guns for its first Big Sky win Saturday, Oct. 15 in Ogden, Utah, against surging Weber State (2-0, 3-2).

*Colter Nuanez is the creative director and senior writer for "Skyline Sports" (skylinesportsmt.com), an online newsgathering organization providing cutting edge coverage of Montana State University and Big Sky Conference sports. The award-winning sportswriter has worked for newspapers and magazines across the West and has covered the Big Sky since 2006.*



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# Prevention of youth suicide focus of Oct. 24 Kopriva lecture

## MSU NEWS SERVICE

BOZEMAN – Dr. Matthew Byerly, director of the Center for Mental Health Research and Recovery at Montana State University, will present “Preventing Youth Suicide: Evidence About What Works,” at 5:30 p.m. on Monday, Oct. 24. The lecture, in the Hager Auditorium at the Museum of the Rockies, is free and open to the public with a reception to follow.

Byerly will describe available youth suicide prevention interventions, highlighting the differences in program approaches and comparing and contrasting the effectiveness of individual programs. He will also discuss the use of a promising new intervention, Youth Aware of Mental Health, by MSU’s Center for Mental Health Research and Recovery.

He will conclude with recommendations regarding needs for future research in the field, with an emphasis on relevance for Montana and similar rural settings.

Byerly is a professor in MSU’s Department of Cell Biology and Neuroscience and has served as the director of the Center for Mental Health Research and Recovery since August 2015. Prior to coming to MSU, he was a faculty member of the University of Texas Southwestern Medical Center at Dallas for 18 years, where he was a professor in the Department of Psychiatry, directing the schizophrenia research and adult fragile X syndrome research programs.

Byerly received his medical degree from the University of Arizona and completed an adult psychiatry residency and schizophrenia research fellowship at the University of Florida. He has served on multiple expert panels related to antipsychotic treatments and medication adherence in schizophrenia, and served as a member of the Food and Drug Administration’s Psychopharmacologic Drugs Advisory Committee.

Much of Byerly’s research effort has focused on effectiveness studies in mental health. In recent years, he has also been involved in translational research in neurodevelopmental disorders, including serving as co-principal investigator of a clinical/translational component of a National Institutes of Health-funded Fragile X Syndrome Center grant.

His research efforts now focus on issues of high mental health relevance for Montana. These include suicide prevention; addressing mental health needs of rural and frontier settings; the mental health needs of Native Americans and military veterans; and methods to improve the diagnosis and treatment of mental disorders.

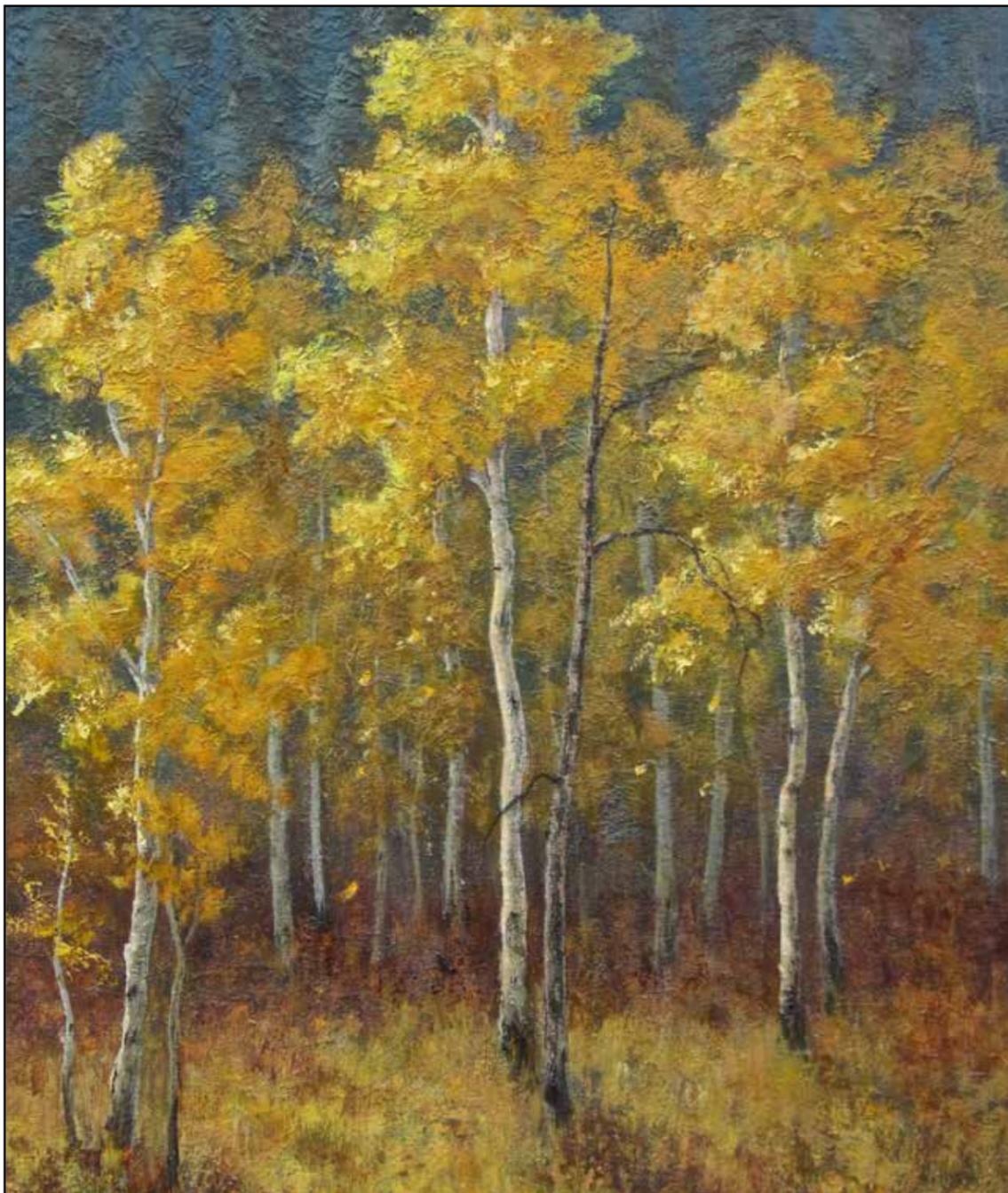
Byerly’s lecture is presented by the Kopriva Science Seminar Series, which is funded through an endowment created by Phil Kopriva, a 1957 microbiology graduate from MSU. Kopriva also created an endowment to fund the Kopriva Graduate Fellowship Program, which provides support and opportunities for graduate students in the College of Letters and Science, particularly in the biomedical sciences.

The series features four to six seminars annually, with talks provided by MSU graduate students, faculty members and guest speakers.

For more information about this and other Kopriva lectures, visit [montana.edu/lettersandscience/kopriva](http://montana.edu/lettersandscience/kopriva) or call (406) 994-4288.



Dr. Matthew Byerly, director of MSU’s Center for Mental Health Research and Recovery, will present “Preventing Youth Suicide: Evidence About What Works,” as part of the Kopriva Science Seminar Series. PHOTO COURTESY OF MSU NEWS SERVICE



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## DOCTOR'S NOTE

### Understanding pneumonia



BY DR. JEFF DANIELS  
EBS MEDICAL COLUMNIST

On Sept. 11, the infection that we refer to as pneumonia made the headlines, when Hillary Clinton ignored her doctor's advice to rest, and nearly collapsed in public. We learned from this widely broadcast episode that pneumonia is very common, and is not to be taken lightly.

Pneumonia refers to an infection deep inside the lung tissues, where spaces typically filled with air are now filled with inflammatory fluids and mucus. It is most commonly caused by bacteria, but may also be the result of a viral or fungal infection. Before the era of antibiotics, namely penicillin and sulfas introduced in the 1940s, pneumonia was the No. 1 killer in this country.

With our multitude of different antibiotics today, we have no problem curing the vast majority of these infections in kids and otherwise healthy adults. But those who are elderly and debilitated, or people whose immune system is compromised, often succumb to this disease.

There are two main varieties of pneumonia, whether caused by bacteria, a virus or fungus. One type causes an infection in a distinct anatomical lobe (or lobes) of one or both lungs. This is referred to as a "typical" pneumonia. But there are pneumonias that spread diffusely through all areas of both lungs and these are referred to as "atypical" pneumonias.

Believe it or not, there are very few types of pneumonia that are communicable. That is, you can't catch pneumonia from someone who is suffering with this disease, unless it's caused by the plague bacillus or anthrax (hopefully that will never happen!). You can also catch illnesses that predispose you to pneumonia, such as influenza, which is a virus that causes some people to more easily develop bacterial pneumonia.

Why isn't pneumonia contagious? Most of the cases that we see occur because we constantly inhale bacteria and viruses deep into our lungs. Our lungs are equipped to get rid of the stuff that gets deep down, by a process of mucus production, immune defenses, and a conveyor belt system that pushes back up all the unwanted material in the pulmonary system.

Most of the time, we're unaware of this amazing mucus cycle. Since we're constantly inhaling germs that reside in the back of our throats, especially at night, if the system doesn't work right a bacterial infection can set itself up. That's how most of us develop pneumonia.

It's like getting a splinter in your finger. Most of the time it comes right out and doesn't fester, but occasionally you end up with a swollen finger filled with infection.

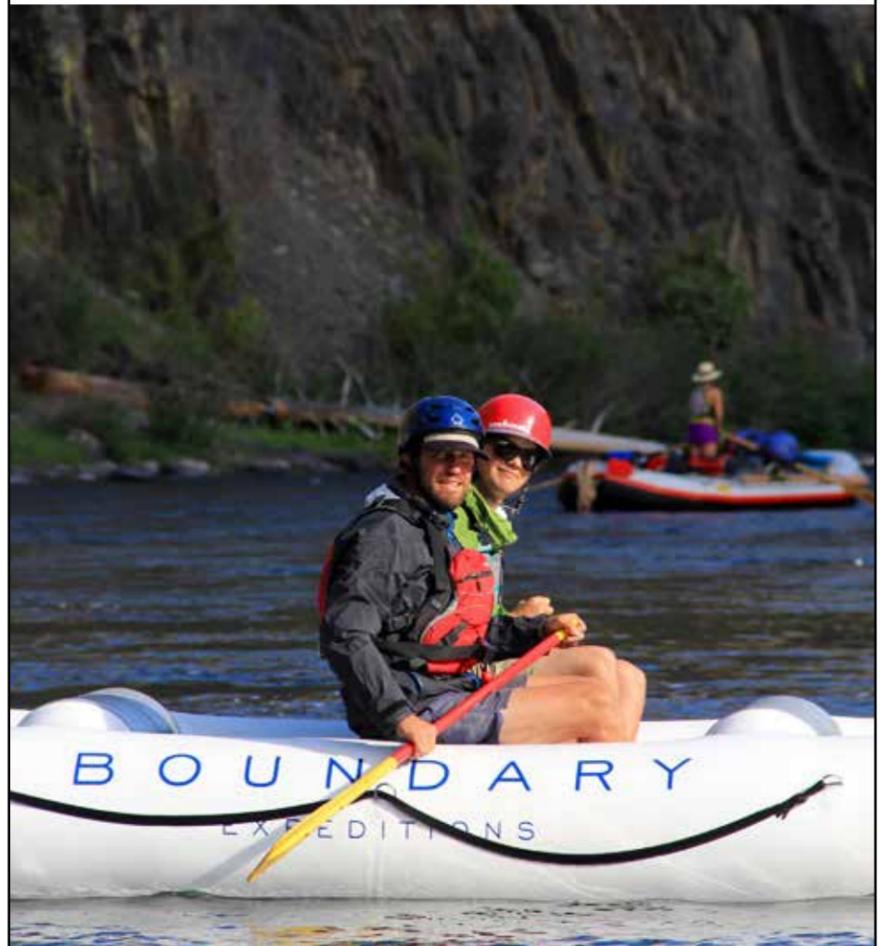
Pneumonia can be prevented by getting vaccinated for some of the most common causes of this disease, such as the pneumococcus bacteria. This bacterium normally lives in our throats, and there are multiple strains, each capable of causing pneumonia. Vaccines have been developed that are various mixtures of these strains, and it's recommended for older adults. The childhood pneumococcus vaccine is aimed at preventing ear infections and meningitis in kids. Getting a flu shot also helps protect against catching pneumonia.

When a healthy adult develops pneumonia, and gets the right antibiotic to knock out the infection, I always tell them that they won't feel back to normal for at least a month. That's because this is no simple infection, like a cold. The body has to recuperate, and rest is an important aspect of the healing process.

You can get flu and pneumonia shots at the Medical Clinic of Big Sky, just walk in at your convenience.

*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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# Community cleanse chronicle: part 1

BY SARAH GIANELLI  
EBS CONTRIBUTOR

BIG SKY – Fall is the time of year I feel most up for a challenge. A pointed determination and rare sense of discipline comes over me, and I have no question that whatever I've committed to I will see through to the end.

Last year it was walking 600 miles across Spain. Ten years ago it was the faddish Master Cleanse, where you consume nothing but a beverage of water, lemon juice, cayenne pepper and maple syrup. Now I'm in the middle of another 14-day cleanse, of a much more gentle variety, led by Callie Stoltz of Big Sky's Santosha Wellness Center.

Based on the Ayurvedic philosophy that optimal health necessitates restoring balance between the three elemental substances, or "doshas," the program entails four days of "clean" eating—no oils, processed foods, meat, fish, dairy or gluten; and of course, no alcohol, caffeine, recreational drugs or tobacco. A bounty of herbal supplements, selected specifically for each individual's constitution, is taken before and after meals.

On day five, we start a solid week of eating nothing but an Indian-spiced rice and dal (or lentil) dish called "kitchari"—the idea being that the simple, easily digested dish allows the body to expend its energy on detoxifying the blood, lymphatic system and organs. The last three days of the cleanse will be the same as the first four.

I was excited during the days leading up to the cleanse. I knew that I needed it. Every day had become a party to some degree and I was feeling polluted, and frankly, I needed to prove my willpower to myself. It was also just before my birthday, a great time to hit the reset button before heading into my new year.

The first three days were an adjustment, but being an all or nothing person for whom moderation does not come easy, giving up all of my vices overnight suits my temperament.



The essential herbal supplements of the Big Sky Community Cleanse PHOTO BY SARAH GIANELLI

Cooking cleanse-friendly food as part of my job at the Hungry Moose, I learned ways to circumnavigate the seemingly impossible feat of cooking without olive oil. There was always avocado, and unadulterated tahini was allowed. But I pretty much existed on steamed vegetables with acceptable grains like quinoa and lots of beets and apples.

Besides the sluggish, foggy-headedness due to the lack of caffeine—and shamefully I admit, tobacco—the hardest part in the beginning was altering my social routine. I had made lists of activities and projects to occupy my free time, but felt entirely unmotivated to tackle any of them. I pretty much became a hermit and retired to bed by 9 p.m.

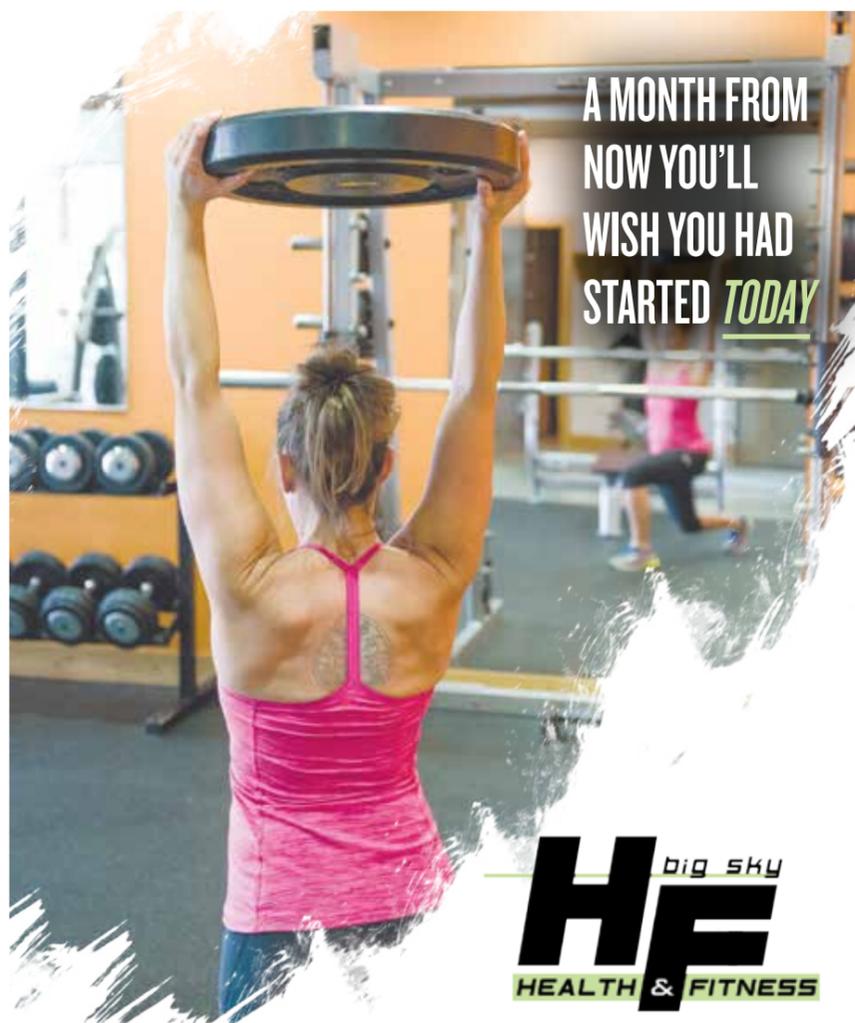
On day four, I woke feeling like I was settling into the cleanse, becoming used to the constant slight hunger—or just not feeling as sated without the fats and protein I was used to.

Despite all the apprehension about eating only kitchari for the next seven days, on the morning of day five I felt peaceful and calm as I prepared the yellow mung dal, basmati rice and spices. There is something liberating in options being taken away—that what I would eat for the next week was settled. All the time and energy we spend thinking about food—buying, preparing, serving and eating it—could now be directed toward other things.

Drinking hot butter water first thing in the morning took some getting used to. Ghee, or clarified butter, is supposed to aid the detoxification process and help reset the body's metabolism of fats. Thus far, I have enjoyed the warm bowls of spiced rice and lentils and have found them comforting and satisfying, if a little bland.

Then again, it's only been three days. Check in with me in the next edition of EBS to see how I feel about it then.

Read part two of Sarah Gianelli's community cleanse chronicle in the Oct. 30 issue of EBS.



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Light meals of vegetables and whole foods are eaten before and after the main cleanse. PHOTO BY CALLIE STOLTZ



# From Jackie *with love*

## The poison in our water



BY JACKIE RAINFORD CORCORAN  
EBS HEALTH COLUMNIST

An adult human body is made up of approximately 60 percent water, and it covers 71 percent of the Earth's surface. Clean water is crucial to our survival.

On Sept. 20, the nonprofit Environmental Working Group released a national report that found unsafe levels of hexavalent chromium (chromium-6) in water supplies, affecting more than 218 million Americans in all 50 states. (Find their interactive map at ewg.org to look up your county.)

Chromium is an odorless tasteless metallic element that can be found in water, rocks, plants and soil. The two most common forms of chromium found in water are trivalent chromium (chromium-3) and hexavalent chromium.

According to the National Institutes of Health, chromium-3 is an essential nutrient. We ingest it from water, plants, meats and yeast. It helps metabolize carbohydrates, fats and proteins.

Chromium-6 also occurs naturally in the environment but is toxic. When we ingest it in trace amounts, the acids of our stomachs convert it to chromium-3. Problems occur when we ingest it in excess of what our bodies can process. Then it can cause cancer.

In an effort to reduce cancer risk, California scientists recommended a public health goal of 0.02 parts per billion of chromium-6 allowed in tap water. In 2014, they settled on 10 parts per billion after further consideration of treatment costs, and the technical feasibility of detecting the contaminant at such low levels.

The Environmental Protection Agency set a drinking water limit for total chromium (3 and 6 combined) to 100 parts per billion. That's 5,000 times California's public health goal and 10 times the state's legal limit. To this day, the EPA hasn't established a limit specifically for chromium-6.

Interestingly, several members of the EPA's scientific review panel were on the payroll of the Pacific Gas and Electric Company. You may remember the 2000 movie "Erin Brokovich." Chromium-6 was the cancer-causing byproduct of PG&E's that contaminated the water in Hinkley, California—and it still does today.

The Environmental Working Group recognizes that cleaning contaminated water supplies is expensive. "But the answer to high costs is not allowing exposures at unsafe levels while pretending water is safe," according to their website. "And the fact that some unknown level of chromium-6 contamination comes from natural sources does not negate Americans' need to be protected from a known carcinogen."

In the meantime, how are we to ensure we have clean drinking water?

Local water expert Peter Manka, the principal water resource engineer at Alpine Water Systems in Big Sky, explains that ensuring clean drinking water is coming from our home faucets can be complex.

"Chromium-6 is just one of the many odorless, tasteless toxins that could be contaminating our water," Manka said. If your faucets are connected to city water, there are public records showing which chemicals and minerals are present. However, if you're on a private well, the homeowner has to do their own investigating and is ultimately responsible for the safety of the water that they drink.

Manka says the most thorough way to remove chromium-6 from water is through a process called reverse osmosis. However, this process not only removes all contaminants, but all of the healthy minerals as well. His solution to this is re-mineralizing with drops added to each serving, or with a cartridge that will automatically replace minerals from faucet water.

Ocean Robbins, CEO of the Food Revolution Network, suggests a counter top reverse osmosis unit manufactured by AquaTru. There is a YouTube video that shows this system turn Coca-Cola into pure water.

You can also sign the online Environmental Working Group petition calling on the EPA to set a national safety limit for chromium-6 in drinking water.

*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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## Section 3: INSIDE YELLOWSTONE, OUTDOORS, & DINING



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Former superintendent passes pg. 34



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Blue Apron wins blue ribbon pg. 42

# INSIDE YELLOWSTONE



## Cellphones spill into Yellowstone's wilds despite park plan

BY MATTHEW BROWN  
ASSOCIATED PRESS

BILLINGS (AP) - Adventure seekers encounter untamed wilderness when they enter the backcountry of Yellowstone National Park. Howling wolves. Deadly grizzly bears. Steam-spewing geysers as seen nowhere else on earth.

A refuge from ringing cellphones? Not so much anymore.

In the popularity contest between Yellowstone's natural wonders and on-demand phone service, park administrators appear to have lost ground on a 2009 pledge to minimize cellphone access in backcountry areas.

Signal coverage maps for two of Yellowstone's five cellphone towers show calls can now be received in large swaths of Yellowstone's interior, such as the picturesque Lamar Valley and other areas until just recently out of reach.

The maps were obtained by a Washington, D.C.-based advocacy group, Public Employees for Environmental Responsibility (PEER), which has for years fought against new telecommunications infrastructure in the first national park in the U.S.

Their release comes just a week after lawmakers in the U.S. House introduced a bill that would allow even more cellphone towers and similar structures on public lands across the nation.

Ken Sinay, who operates the Yellowstone Safari tour company and has been running nature tours in the park's backcountry for two decades, said phone signals became far more prevalent in many parts of the park over the past several years.



Bison in the Lamar Valley, an area of Yellowstone National Park that is subject to expanding cell phone coverage. NPS PHOTO

His customers typically arrive to get away from modern-day distractions. But some are unable to resist the lure of taking business calls or calling home to check on their dogs.

"It's a real drag at Artists Point," Sinay said, referring to a famous overlook near Yellowstone Falls. "While people are trying to enjoy themselves somebody's on their phone waving their hands and gesturing and walking around in a circle."

Yellowstone technology chief Bret De Young acknowledged the occurrence of "spillover" cellphone signals into backcountry areas, but suggested the coverage maps—released by the park to PEER under a public records request—exaggerated the quality of coverage in parts of the park.

In 2009, Yellowstone issued a wireless and telecommunications management plan that said cellphone coverage "would not be promoted or available along park roads outside developed areas, or promoted or available in any of the backcountry."

"No cellphone service will be allowed in the vast majority of Yellowstone," park officials said in a statement issued when the plan was adopted.

PEER executive director Jeff Ruch said the park had failed to meet those goals and instead ceded its telecommunications program to companies that wanted to offer blanket coverage.

"The ability to disconnect, the serenity value of that, is a park resource that they've given away without a thought," Ruch said.

De Young said it is not the intent to cover backcountry areas, and the park is taking steps to limit cell service as much as possible to developed areas.

That's being done with the installation of new antennas that direct signals more precisely so cellphone services are limited mainly to the small communities and campgrounds in the park.

Two of the park's five cellphone towers now use those specially aimed antennas, and De Young said a third is due to be converted this fall.

A cellphone coverage map provided by the park shows that the signals extend beyond targeted areas but lose signal strength as the distance from the communities and campgrounds increases.

"This will allow the service providers to keep up with new phone technology while limiting unintentional coverage areas," De Young said.

The House legislation introduced last week seeks to encourage even greater cellular and broadband coverage within national parks and other public lands. The measure from California U.S. Rep. Jared Huffman is known as the Public Lands Telecommunications Act.

It would set up an account using rental fees for telecommunications companies with cell towers or other infrastructure on public lands. Money raised would be used by the U.S. Interior and Agriculture Departments to obtain additional communication sites and take other steps to foster greater coverage.

National Park Service spokesman Jeremy Barnum said the agency could not provide an estimate of the number of cell towers in national parks.

# Death of former Yellowstone Superintendent Bob Barbee

NATIONAL PARK SERVICE

Former Yellowstone National Park Superintendent Bob Barbee passed away on Oct. 2 at home in Bozeman with Carol, his wife of 58 years, by his side. He was 80 years old.

“The current and past employees of Yellowstone National Park send their deepest condolences to the Barbee family,” said Superintendent Dan Wenk. “Those of us who had the privilege to work for and with Bob all owe him a debt of gratitude. He gave us the ability to deal with complex issues and the humanity and compassion to engage with our advocates, adversaries and colleagues.”



Superintendent Bob Barbee at Mammoth Hot Springs in October of 1987. NPS PHOTO

Barbee was born on Nov. 12, 1935, in Columbus, Ohio. He graduated from Colorado State University in 1958 with an undergraduate degree in biology and returned to CSU to earn a master's degree in natural resources management in 1968. He served a stint in the U.S. Army ROTC in Fort Benning, Georgia.

Barbee began his National Park Service career in 1958 with seasonal ranger positions in Rocky Mountain and Yosemite national parks. He then moved his young family to Carlsbad Caverns National Park for his first permanent position as an interpretive ranger.

During his 42-year career, he served as a fire ecologist at Yosemite and superintendent of numerous protected areas within the national park system including Cape Lookout National Seashore, Cape Hatteras National Seashore, Hawaii Volcanoes National Park, Redwoods National Park and Yellowstone National Park.

The legions of National Park Service employees who knew and worked with Barbee remember him with great fondness, not only for his wise and effective leadership but also his unfailing friendship and brilliant sense of humor. In all ways he exemplified the highest standards of American citizenship, and

like the National Park Service's founding director, Stephen Mather, there will never come an end to the good he has done.

Barbee's cumulative achievements within the agency, and in particular in Yellowstone, are too numerous to recount. However, he will always be remembered for his handling of the epic 1988 Yellowstone fires and how he persevered through the intensity of that long summer. He faced hordes of people, thousands of news media, and an endless stream of politicians all wanting to dictate how he managed those fires.

With the hindsight of some 28 years now, it's clear Barbee's leadership in managing the extreme fire situation in 1988 ultimately shaped the future of federal wildland fire management policy. Many of the methods used in Yellowstone in 1988 are now mainstream tactics in managing large wildland fires for resource benefit, economics, and most importantly for human safety.

After 11 years as Yellowstone's superintendent, Barbee became regional director of the Alaska parks, where he served until his retirement in 2000.

Barbee was a passionate outdoorsman and an expert alpinist who summited all of Colorado's 14,000-foot peaks. He was also a distance runner and a downhill and cross-country skier. A gifted photographer who studied and worked with Ansel Adams in Yosemite, he and his wife Carol visited all seven continents while he photographed the world's great natural and cultural areas.

Throughout Barbee's life and career, he was devoted to his wife and three daughters, they and are the proud grandparents of seven grandkids. They entertained presidents and kings as well as seasonal park employees who had no place to sleep for a night or two between jobs. Their hospitality is legendary, and many a national decision was made around their kitchen table or campfire with some of the nation's highest officials.

Barbee was honored by his alma mater as a distinguished alumnus. He was recognized with the Department of the Interior's three highest honor awards (Superior Service, Distinguished Service, and Meritorious Service) along with numerous other awards including those from the White House and the National Parks Conservation Association.

Barbee is survived by his wife, three daughters and seven grandchildren.

A celebration of Barbee's life will be held in May 2017 in Yellowstone National Park.

The family has requested that in lieu of flowers donations be sent to Yellowstone Forever, formerly Yellowstone Park Foundation and Yellowstone Association. At the request of the family, the Yellowstone Forever organization is in the process of establishing a special project or scholarship fund in Barbee's name. Contributions can be mailed to: Yellowstone Forever, Barbee Memorial Project Fund, P.O. Box 117, Yellowstone National Park, WY 82190.

Yellowstone Forever is the primary partner organization of Yellowstone National Park and a 501(c)3 nonprofit organization.

## Yellowstone National Park roads start closing for winter

EBS STAFF

With winter approaching and crowds thinning, Yellowstone National Park has started to close roads that access the park and travel through it. Most roads in the park are closed to auto travel between early November and late April.

On Oct. 11, the Beartooth Pass on Highway 212 closed. The Beartooth Pass connects Red Lodge, Montana, to Cooke City, Montana.

Dunraven Pass, which connects Tower Junction to Canyon Village, will remain open until significant snowfall closes it. As of EBS press time on Oct. 12, the road was still open.

On Nov. 7, all roads through the park—except those connecting the North Entrance outside of Gardiner, Montana, to the Northeast Entrance outside of Cooke City, Montana—will close.

Starting Dec. 15, conditions permitting, the park will open to oversnow vehicles, i.e. snow coaches and snowmobiles, in select areas of the park.

For an updated list of road construction and closures, visit [nps.gov/yell/planyourvisit/parkroads.htm](http://nps.gov/yell/planyourvisit/parkroads.htm) or call (307) 344-2117 for a recorded phone report.

# Inside the Big Sky

## What is the Greater Yellowstone Ecosystem?

BY DEREK LENNON  
EBS CONTRIBUTOR

The Greater Yellowstone Ecosystem is one of the largest nearly intact temperate zone ecosystems on Earth, according to the National Park Service. It measures roughly 34,375 square miles, or 22 million acres, but it depends on whom you ask.

With Yellowstone National Park at its center, the definition of the Greater Yellowstone Ecosystem is beautifully vague—there is no exact boundary to this incredible and inspirational natural zone. What we do know is that Big Sky, Montana, is a part of this magical and wild place.

Diverse wildlife, impressive hydrothermal features, thick vegetation, stunning lakes, and geologic wonders are all a part of the Greater Yellowstone Ecosystem. It is a sanctuary for the largest concentration of wildlife in the Lower 48 states. Bison, grizzly bears, wolverines, lynx, elk, moose, and other animals live in natural harmony in this vast region. There is no place else like this on Earth.

The Greater Yellowstone Ecosystem is home to jagged peaks, vast tundra, lush forests, raging rivers, wild valleys, spewing geysers, and stunning natural landscapes. It's the definition of what nature looks like. It's wild.

This area includes more than 11 mountain ranges such as the Tetons, Wyoming Range, Salt River Range, Wind Rivers, Absarokas, Beartooths, Gallatins, Madison, Tobacco Roots, Gravellys and Centennials. It's a massive area with very few people, which makes it distinctly unique and it's the ideal outdoor playground.

Local, state, federal, and tribal governments along with private individuals manage and conserve this vast and wild region of the Lower 48. Spread throughout Wyoming, Montana, and Idaho, the loose boundaries of the Greater Yellowstone Ecosystem include state lands, national parks, wilderness areas, wildlife refuges, national forests, BLM lands, private property, and tribal lands such as:

- Yellowstone National Park
- Grand Teton National Park
- John D. Rockefeller Jr. Memorial Parkway
- Beaverhead-Deerlodge National Forest
- Custer Gallatin National Forest
- Shoshone National Forest
- Caribou-Targhee National Forest
- Bridger-Teton National Forest
- Camas National Wildlife Refuge
- Grays Lake National Wildlife Refuge
- National Elk Refuge

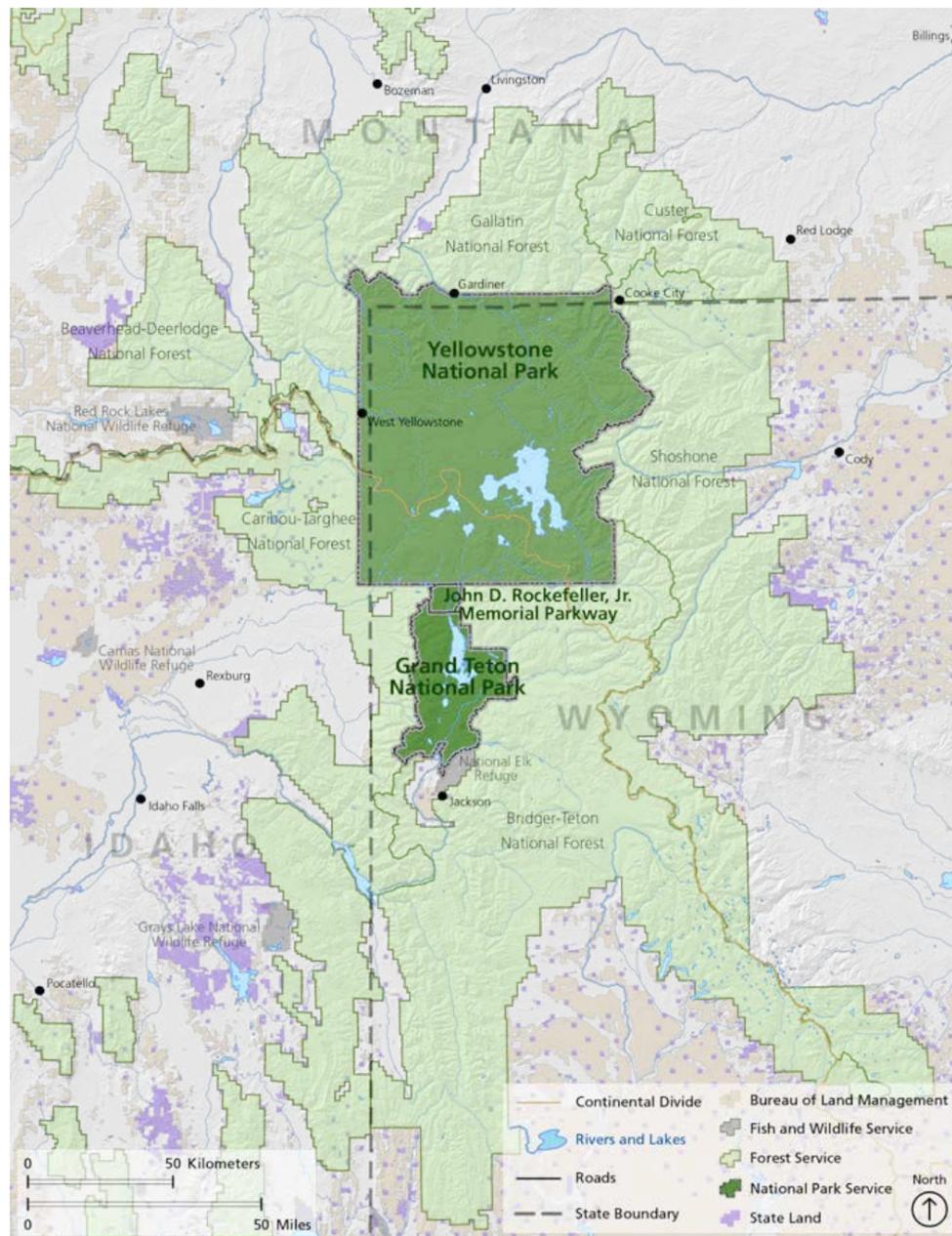
Naturally, the Greater Yellowstone Ecosystem has become a focal point for both tourism and conservation. There's a lifetime of adventures to be had in the GYE: hiking, backpacking, hunting, camping, climbing, rafting, kayaking, snowmobiling, skiing, wildlife spotting, and more.

This wild land is Big Sky's backyard, so please explore it responsibly. When you come for a visit, you are a guest here too. Treat this world with the respect that it deserves. Let's work together to protect one of the last great places.

This is wild America and in Big Sky, Montana, we're proud to be a part of it.

*Derek Lennon is a skier and writer who lives, works, and plays in the mountains of the world. He is based in Big Sky, Montana, where he lives with his wife Mia and two dogs.*

*A version of this story was originally published on the Visit Big Sky blog at [visitbigskymt.com/greater-yellowstone-ecosystem/](http://visitbigskymt.com/greater-yellowstone-ecosystem/). Read more interesting content about the area on Visit Big Sky's blog at [visitbigskymt.com/category/blog/](http://visitbigskymt.com/category/blog/).*



TOP: Hilgard Peak (center) and Dutchman Peak (right) as seen Sept. 11, 2016 from Hilgard Basin in the Taylor-Hilgard unit of the Lee Metcalf Wilderness—the Madison Range is one of many mountain ranges in the Greater Yellowstone Ecosystem. PHOTOS BY DEREK LENNON

BOTTOM: Looking south toward Imp Peak (center) into the Taylor-Hilgard complex from the summit of Koch Peak on Sept. 11, 2015.



# On the Trail: Kircher Trail

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



Leah Butterworth and her dog Finn go for a stroll on Kircher Trail. PHOTO BY CIARA WOLFE

BY CIARA WOLFE  
BSCO EXECUTIVE DIRECTOR

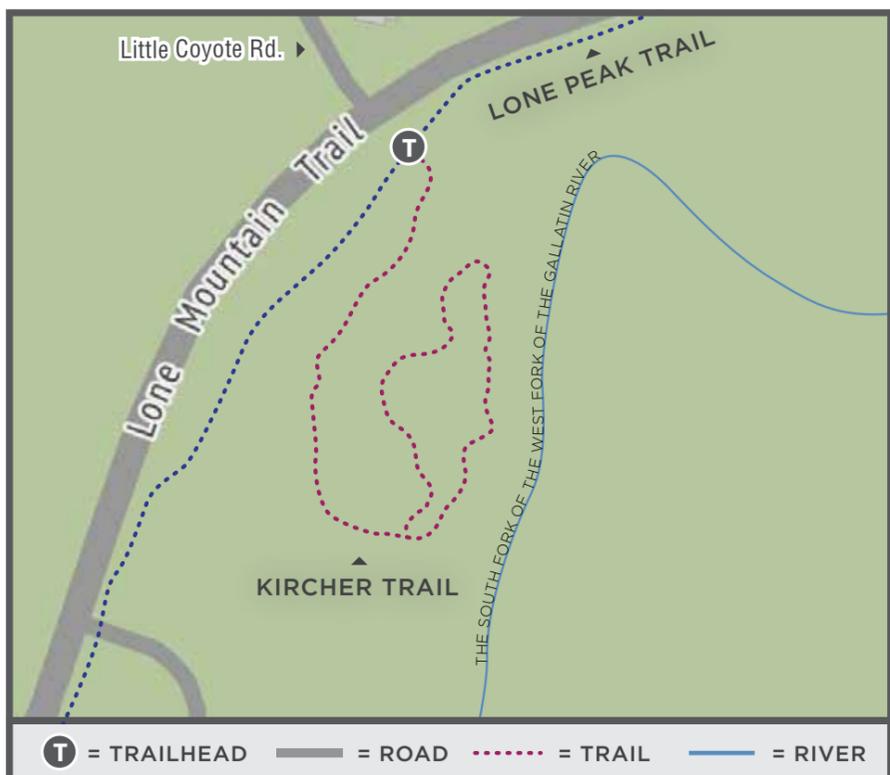
Kircher Trail is the perfect pit stop when walking or biking through Big Sky's Meadow Village. Easily accessed from both Meadow Village and Town Center, this 1/2-mile out-and-back trail provides a wonderful nature walk.

Kircher Trail spurs off the asphalt-surfaced Lone Peak Trail near the intersection of Lone Mountain Trail and Little Coyote Road. From this intersection, there's a moderately steep embankment on the natural surface trail to the small, secluded sanctuary of an open-space park.

New this summer, there's a 1/4-mile extension that loops through the park from its starting point on the embankment of the South Fork of the West Fork of the Gallatin River. Enjoy a casual walk by the river, stop to have a picnic, or bring your fly rod and cast some dry flies to test your fishing abilities on the small and abundant trout in this tributary of the Gallatin River.

There is no parking at the head of Kircher Trail, so it's best to park in either Meadow Village or Town Center and access it via Lone Peak Trail. With such close proximity to stores and restaurants in Meadow Village, this trail and park are an excellent option to share some of Big Sky's beauty with children, pets or guests after a nice meal or checking out a local shop.

*For more information about Big Sky's parks, trails and recreation programs, visit [bscomt.org](http://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.*



**BIG SKY**  
COMMUNITY ORGANIZATION

## TRAIL STATS

				
<b>Distance</b>	<b>Uses</b>	<b>Difficulty</b>	<b>Elevation Gain</b>	<b>Surface</b>
0.5 miles round trip	Walk and run	Easy	150 ft	Dirt

**Directions:** From Meadow Village, head south toward Lone Mountain Trail. Cross at the flashing lights and crosswalks and continue south to Kircher Trail. From Town Center, get on Lone Peak Trail, which runs parallel to Lone Mountain Trail. From Lone Peak Trail, Kircher Trail can be found about 1/2 a mile east (depending on your access point) on the right-hand side.



## THE EDDY Line

## The flies in my box: six patterns for fall fishing



BY PATRICK STRAUB  
EBS FISHING COLUMNIST

Fall is here—we have snow-covered mountains, low and cold rivers, and local license plates filling our fishing access sites. Fall means the fishing opportunities are looking up. The next few weeks are some of my favorite of the year, as my fall client list is carefully vetted to

include longtime clients who've become close friends over the years; or new clients who understand we're not leaving at dawn nor fishing much past 5 o'clock. This is the season I get to drop my kid off at school and be home in time for dinner, all while experiencing some of the best fishing of the year.

By October, my kit bag is a potpourri of disorganized fly boxes and half-full spools of tippet. Fortunately, these days my fly selection is pretty simple. Here's a look at my favorite six patterns for the next month of fishing on our local waters.

**Sprout Beatis Emerger.** I first fished this fly on the Missouri River when the Craig Bridge was one lane and breathable waders were a twinkle in the eyes of manufacturers. This fly is tied to imitate an emerging mayfly. It sits just below the surface film, where the hatching insects are easy pickings for trout. Incorporated into the fly is a piece of white foam. The foam holds the body of the fly in the surface film and allows the angler to see the fly. The most common hatch in fall are small mayflies, Blue Winged Olives (BWOs), and this fly can imitate an emerging BWO or an adult.

**Sparkle Minnow.** A few years ago, I switched from a traditional Woolly Bugger to the Sparkle Minnow. The beauty of this fly is how simple it fishes—there are no articulated hooks to get tangled and its conehead makes casting easy. The ice dubbing pulses when stripped or puffs when dead-drifted. If you have not yet discovered the Sparkle Minnow, well, that's less fish you'll discover too.

**Beadhead Zebra midge.** If I had been exposed to this fly earlier in my angling, I would have caught many more trout. At its heart, it's a fly tied to imitate a midge pupa or emerging midge. However, the Zebra

Midge is not just for imitating midges. It works very well for a mayfly nymph. BWOs are most active on cool, cloudy days—which we often get in fall. The low and clear water conditions can make trout more selective, therefore the sleeker Zebra midge is quite effective.

**Tie: Zuddler and Sculpzilla.** Both of these patterns are intended to imitate baitfish and larger food sources, such as crayfish. They can be fished with action or dead-drifted under an indicator. As brown trout grow more aggressive and become territorial before spawning, large flies imitating a threat or big meal should be fished. When choosing a color, a widely accepted rule is to choose a light-colored fly on a sunny day and a dark-colored fly on a cloudy day.

**Chubby Chernobyl.** Yep. I said it. You don't need to read it twice. A fly more frequently associated with stoneflies and terrestrials is also an ideal fall pattern. October caddis can hatch in small numbers on all of our rivers. The natural insects are large—often an inch or 2 wide—so trout do not ignore them. You will not see October caddis blanketing the water, but fish a Chubby Chernobyl as the surface fly and smaller beadhead (perhaps a Zebra midge) as the dropper and you'll find some success.

**Parachute Purple Haze.** BWOs could hatch on any given day. A regular Parachute Adams will work fine, but watching thousands of fish eat dry flies on various Parachute dries has taught me that the purple body makes a difference. With two kids at home, I don't have time to care why. I just know it works. Whether you're happy or in misery, the Purple Haze will put a spell on you.

Choosing which fly to use is personal, but should be grounded in knowledge and faith—faith in what you are using. For fall fishing in our area, stick to using the patterns above and you will enjoy some success along with some well-earned solitude.

*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.*



The best flies for late fall fishing are (from left to right): Sprout Beatis Emerger, Beadhead Zebra Midge, Parachute Purple Haze, Sparkle Minnow, Zuddler, Chubby Chernobyl and the Sculpzilla. PHOTO BY PATRICK STRAUB

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# Why wasn't bear spray more effective in Todd Orr's grizzly attack?

BY AMANDA EGGERT  
EBS ASSOCIATE EDITOR

BIG SKY – The video that Bozemanite Todd Orr took immediately after he was attacked twice by a grizzly sow has circulated the world. The Facebook post in which he recounts his Oct. 1 attack has been viewed more than 38 million times.

After describing some of his injuries—a deep gash on his scalp, a shoulder injury soaking his shirt through with blood and “pieces of stuff hanging out” of his punctured arm—Orr closed the video with an observation: “Bear spray doesn't always work, but it's better than nothing.”

Orr, owner of Skyblade knives, is known to be a competent woodsman with good judgment: he made noise while hiking on the trail to avoid startling a grizzly; he had bear spray with him; and when contact was inevitable, he huddled in the dirt with his arms protecting his neck, as is recommended.

So why did the grizzly sow, which had two cubs with her, blast through his “full charge of bear spray” and attack him—an experience he described as being bitten by a “sledge hammer with teeth ... over and over again”—not once, but twice?

According to Chuck Bartlebaugh, director of Be Bear Aware, the answer to those questions has to do with distance and perceived threat.

Everything inside 30 feet exists within what Bartlebaugh calls the “potential contact zone,” meaning you can expect bear spray to minimize the length and severity of an attack, but not prevent it.

“He waited to spray it until the bear was 25 feet away—too late,” said Bartlebaugh, who has been studying bear spray since 1985. “If he started to spray the bear when it was 25 feet away, when his thumb went down, the bear was then 20 feet away and charging. The bear then met the cloud from 8-10 feet away, approximately 1/10 of a second and a blink of an eye from actual contact.”

Presumably in response to the massive interest that's been generated by the encounter, Orr set up a website, [thetoddorr.com](http://thetoddorr.com). Orr did not respond to multiple requests for comment on this story, but wrote on his website, “I used bear spray when I thought she was about the max distance my spray would reach, and kept the trigger down until she burst through the fog and was literally on me.”

Orr wrote that he didn't shoot the bear with the pistol he had on him for several reasons, one being bear spray is found to be more effective than a pistol against a charging bear. A study by Brigham Young University wildlife science professor Tom Smith published in the *Journal of Wildlife Management* found that 98 percent of people carrying sprays were uninjured in close-range bear encounters.

The listed spray distance of a 10-ounce can of Counter Assault, considered by Bartlebaugh to be the best available bear spray, is 32-plus feet. It should be noted that's the distance the spray will cover, not the distance at which a potential bear attack victim should start spraying. According to the Fish and Wildlife Service, a grizzly can cover 50 yards in three seconds.

After the initial encounter, Orr wrote that he “half hiked, half jogged down the trail” toward his truck, which was parked 3 miles away. Five to 10 minutes later, the sow was on him again.

Bartlebaugh, who works to keep bears wild by limiting encounters between humans and bears, hypothesizes that the thumping sound of Orr's footfalls as he jogged away prompted the grizzly to go back into protective mode. He



A grizzly sow with two cubs in Yellowstone National Park. JIM PEACO/NPS PHOTO

added, “Everyone assumes when they're attacked by a bear it's going to go away in the opposite direction—[that's] not always true.”

Another round of biting ensued, prompting Orr to gasp for breath in pain. The sound triggered a frenzy of bites to his shoulder and upper back. Another bite opened up a gash above his ear. Then the grizzly stopped and just stood on Orr. “For thirty seconds, she stood there crushing me,” Orr wrote. “And then she was gone.”

Those 30 seconds could explain the second encounter.

Scott MacMillion, who studied dozens of bear attacks while researching his book “The Mark of the Grizzly,” said the grizzly might have attacked him again because she thought he was coming back for her, or that he hadn't been properly dominated.

“Bears usually stop attacking people ... once they're satisfied that they've been dominated,” MacMillion said.

Most people survive grizzly attacks, MacMillion said. “If they wanted to kill us, they'd kill us in short order,” he said, adding that he hopes people continue to carry bear spray in bear country.

In an Oct. 6 email, Montana Fish Wildlife and Parks Grizzly Bear Specialist Kevin Frey said the agency does not have plans to capture the bear involved because the encounter occurred in expected bear habitat, and it appears to have been more of a surprise encounter than predatory behavior by the bear. The Forest Service has temporarily closed a number of trails in the Bear Creek area south of Ennis where Orr's attack occurred.

In March 2016, the U.S. Fish and Wildlife Service proposed removing grizzly bears from the Endangered Species List. Grizzlies have been listed as threatened since 1975.

Frey said although there have been a number of grizzly encounters within a short time frame—including two late September attacks on bow hunters in southwest Montana in a two-day stretch—it's “not at a level we haven't seen before.”

As their population has recovered, grizzlies are expanding their range to new drainages and mountain ranges, Frey said. The National Park Service estimates there are 700 grizzlies in the Greater Yellowstone Ecosystem.

“They're out there in expanding numbers,” Bartlebaugh said. “Think about it: if you're in a new neighborhood, are you a little edgy? So are bears.”

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# GEAR REVIEW

## Oboz Big Sky Insulated BDry boots

Sure, you've got your muck boots—as well as that bomber pair of 12-year-old, hand-me-down Sorels—that are great for mid-winter snowy days, but too hot to wear in the fall. You need a pair of boots for the late-fall and winter seasons that are waterproof, lightweight and breathable.

Introducing the new Big Sky Insulated BDry boot, from the Bozeman-based Oboz footwear company. EBS put these bad boys to the test this fall and here are a few of the best features you'll find in these slip-on boots:

**Breathability** – The BDry waterproof/breathable membrane keeps your feet from overheating when you're working hard on the trail or in the back yard, and the slip-on design offers extra breathing room around the ankles.

**Comfort** – The boots feature Oboz's Molded Heel Counter to reduce heel lift and keep your dogs snug and tight. The exterior heel mold also acts as leverage for kicking these off after a big day outdoors.

**Waterproofing and versatility** – The Big Sky boot was tested in a range of Montana autumn temps, from below freezing to 80 F—my feet didn't sweat during hotter temps and the wool liners kept my toes toasty during chilly walks. Oboz's BDry Membrane will keep your feet protected from shallow water, mud, snow and frozen morning dew.



PHOTO BY MICHELLE EVERETT

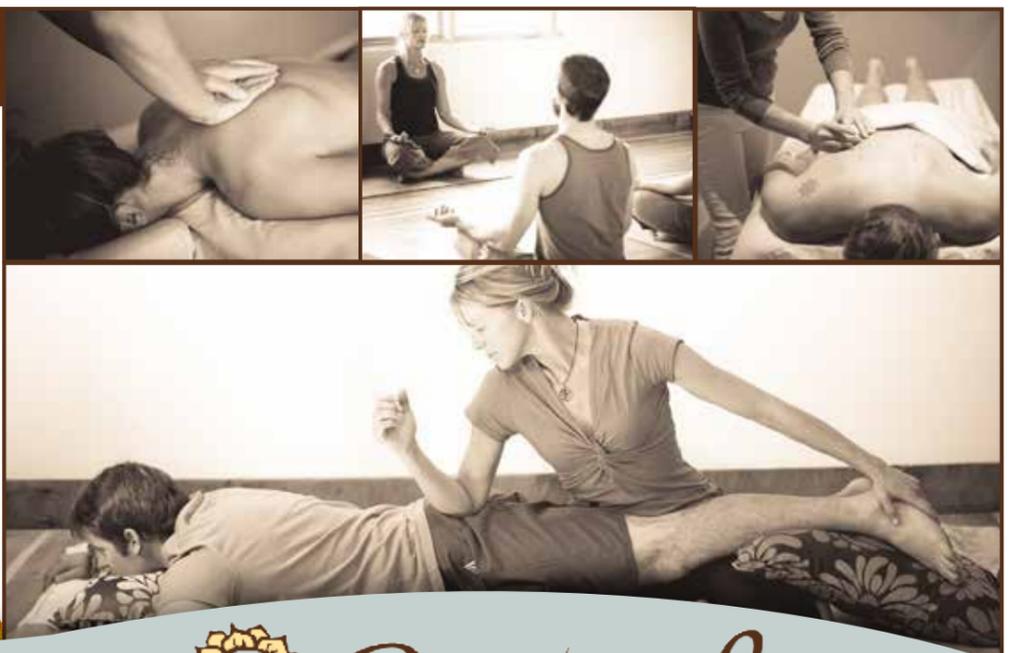
This is the boot for those autumn hikes on wet trails, cold October days gathering firewood, or big snowstorms while you shovel your driveway anticipating a powder day—Oboz has your feet covered. – *Ersin Ozer*

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	9:00-10:15am All Levels Yoga	7:00-8:00am All Levels Yoga  9:30-10:45am All Levels Yoga  6:30-7:45pm All Levels Yoga	9:00-10:15am All Levels Yoga  11:00-12:30 The Practice (Yoga level 2-3)	7:00-8:00am All Levels Yoga  9:30-10:45am All Levels Yoga	7:00-8:00am Pi-Yo  9:00-10:15am Level II Yoga  11:00-12:00 Gentle/Restorative Yoga  3:15-4:00 3rd-5th Kids Yoga  4:15 - 4:45 K-2nd Kids Yoga	9:00-10:15am Ashtanga/Vinyasa Flow All Levels Yoga

# Blue Apron earns blue ribbon

BY CARIE BIRKMEIER  
EBS STAFF

I will do absolutely anything to avoid grocery shopping. While attending college in Marquette, Michigan, I used to frequent the 24-hour grocery store around midnight just to avoid the aisle hoppers, sluggish walkers and whining children. I've even been known to order non-perishables via Amazon Prime.

When I do go grocery shopping, it's an in-and-out process. I even write my shopping list in the order that the grocery store is organized so I don't have to backtrack. There is no browsing involved.

Don't get me wrong, I love to cook. I graduated from culinary school and cooked professionally for a short time, before realizing that the fast-paced environment of a restaurant kitchen was not for me. Coming from a kitchen with countless ingredients to a sparsely stocked home pantry has taken a toll on my culinary creativity—not to mention my wallet.

Living in Big Sky is a blessing, but it comes at a premium price, whether it's cost of living or groceries. When it comes to purchasing food, what makes more sense: driving an hour each way to save money shopping in Bozeman, or saving time by shopping at a local grocer? Regardless of where I shop, without proper planning, some of the food I buy will likely be wasted.



PHOTO BY CARIE BIRKMEIER

I was almost to a point where I thought ordering or eating out a few times a week would be easier and more cost and time efficient than making the drive to Bozeman.

Until I heard about Blue Apron.

Each week, this grocery and meal service delivers portioned ingredients and recipes straight to your doorstep, with free shipping. I started this plan the third week of September, and love the freshness and quality of the service.

Meals come with a protein, vegetable, starch, and sauce or garnish. On average, the meals take about 30 minutes to prepare, each incorporating a surprising featured ingredient, like freekeh. This ancient grain is a type of wheat that is harvested by drying and then burning off the chaff and stalks, leaving behind a toasted collection of freekeh seeds.

I boiled and strained this unusual grain, which was accompanied by Basque-style cod and a sweet pepper-tomato sauce, and topped with a relish of chopped almonds, parsley and garlic.

Other meals I've tried include pork chops with spicy chow-chow, seared chicken with caramelized vegetables and mashed potatoes, and crispy salmon with orzo, green beans and cucumber salad. Each meal is accompanied by a thorough recipe sheet that provides detailed photography, tools needed and tips on technique.

The ingredients come portioned appropriately so that there is no waste—part of Blue Apron's initiative to contribute to a more sustainable food system. According to their website, a striking 40 percent of food in America is wasted. By supporting producers practicing regenerative farming and sustainable fishing processes, the company is making strides towards reducing the large carbon footprint of the food industry.

Blue Apron is a convenient, affordable way to eat healthy and interesting meals at home, while learning about ingredients and trying new recipes. I plan on continuing this service for the foreseeable future, and can't wait to see the next shipment arrive at my doorstep.

**Blueapron.com \$60/week, free shipping (Three meals for two equals \$10/serving)**

## Recreating a \$20 Blue Apron meal in Big Sky

Salmon with Orzo, Green Bean & Cucumber Salad

Ingredient	Recipe Portion Cost	Complete Product Cost
2- 8 oz. Salmon Fillets 	\$16.99	\$16.99
4 oz. Orzo Pasta 	4 oz. \$0.66	16 oz. bag \$2.65
3 oz. Green Beans 	3 oz. \$0.87	12 oz. bag \$3.50
2 Cloves Garlic 	2 cloves \$0.21	1 head \$1.06
1 Cucumber 	\$1.29	\$1.29
1 Lemon 	\$0.90	\$0.90
1 Bunch Dill 	\$1.79	\$1.79
1 Bunch Parsley 	\$1.79	\$1.79
1 Shallot 	1 shallot \$0.50	4 pack \$1.99
Sour Cream 	1/4 cup \$0.47	8 oz. container \$1.88
<b>TOTAL COST</b>	<b>Cost for Recipe \$25.47</b>	<b>Cost at Purchase \$33.84</b>

*\*Big Sky prices based on an average of two local grocery stores.*

## 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.*

## Have I told you how I love working with chefs?



BY SCOTT MECHURA  
EBS FOOD COLUMNIST

I have written abundantly about chefs. I write about our dispositions, our philosophies, our challenges and hardships, our triumphs and failures. We can be some of the most unique individuals to simply be around, let alone work with or for.

I'm one of the easy-going ones, but that wasn't always the case. For instance, I once lost my temper so badly in the kitchen that I put a huge dent in the oven door with my foot. That dent was curved, much like a smile, and it remained there for years laughing at me for my childish behavior every morning I turned on the lights.

But despite all that, when I need to go elbow to elbow with anyone in today's work force, I'll choose a chef every time.

Chefs are many things, including confident and opinionated. But two other particulars are that chefs are organized and they are collaborators.

Two weeks ago I was part of an event at Chico Hot Springs put together by the Western Sustainability Exchange. The event was WSE's annual Harvest, which is an auction and fundraiser to help promote sustainable ranching and farming throughout our great state. It also connects chefs with these same farmers and ranchers in hopes they can help complete the circle of utilization and relationships.

Each chef in the Harvest was responsible for an appetizer or one of the dinner courses. And in the case of the main entrée, I was one of three chefs who joined forces. What could possibly be challenging about an event with a kitchen chock-full of chefs?

Walking into a kitchen packed with culinary experts, some of whom are friends, some acquaintances and some peers, laughter and smiles instantly pervade. Everyone is working diligently on their portion of the evening.

But therein lies the hypocrisy: In our own kitchens we coach our respective teams to be focused while keeping the idle chatter to a minimum. Yet when a group of chefs get together, the kitchen is anything but quiet. Make no mistake, we're attentive to our individual projects, but our provocation would put the legendary trash talking of Magic Johnson and Larry Bird to shame.

But here's the thing: It's all in fun. Every bit of it. Because when its time to perform and the curtain goes up so to speak, we are the most professional, focused, respectful, supportive and organized group of men and women you will ever meet.

Our final attendance for the evening was 214, and our event went off like a Swiss watch. Yes, we are a room full of alphas and Type A personalities, but we're also all extremely adept at recognizing our roll and contribution in the moment.

No one steps on toes and no one challenges another. We are heads down, laser-focused, and decisions are made intelligently, quickly, collectively and without questioning. When the rubber meets the road, the idle yammering instantly turns to conversation as precise as a surgeon asking for an instrument.

And here's the coolest part: When it's all over, and the curtain goes down, we breathe. We gather our tools. We toast our evening together with a glass of champagne. And while the jokes and trash talking immediately picks up where we left off earlier in the evening, it's intertwined with what we could have done better, what we can do next year, and what our menu should be.

This year's presidential candidates consist of a former lawyer and a business tycoon, and while those are both respectable backgrounds, I'm starting to wish a chef would run for president.

*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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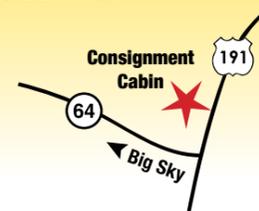


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## DID YOU KNOW?

- Bald eagles are known to reuse the same nest each year.
- The number of new eaglets that are born yearly depends on weather and varies widely.
- Bald eagles are the second most common raptor species in Yellowstone National Park, next to red-tailed hawks.

Human presence may disrupt bald eagle nesting, causing many areas of national parks to close these sites to visitors.

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## Locals Fishing Report from Gallatin River Guides

Brought to you by Jimmy Armijo-Grover, General Manager



For most the 2016 fishing season has already or will be coming to end any day now. That being said there is some great fishing to be had over the next few weeks.

The fishing season in Yellowstone National Park goes through November 6th this year. Fishing has been good on the Madison, Firehole and Gibbon for those in search of big browns headed up from Hebgen to spawn and the big rainbows that like to tag along. For those of you that have never experienced this time of year in the park be prepared for a culture shock. People on the water at day break making sure they save their spot so the next angler doesn't take it, some of the busier runs are considered rotation holes where people cycle through so everyone gets a fair share. Some people are dead drifting egg and worm

patterns while others are swinging soft hackles or streamers, often with double handed spey rods.

If you would like to check out this phenomenon it is best to go in with an open mind. Chat with nearby anglers before jumping in up or downstream to maintain good relationships and follow good etiquette. If you're a numbers person this may not be the place for you, unless inches are more important than quantity. Go there for a chance to hook into a fish of a lifetime and enjoy gorgeous scenery.

Fishing pressure on the Gallatin is almost zero this time of year, so a great time to find some peace and quiet. Depending on weather and conditions you may run into some rising fish looking up for a variety of baetis or midges. That means little dries will mostly likely fish best like little Para Adams, Sprouts and more in the 18-20 range. Nymphing has been best and they're back on the Pat's Rubberlegs in about a size 10. Good reports from streamer guys this time of year on a variety of patterns like the Mini Loop and Conehead Sculpins.

Outside of Yellowstone National Park the Madison has a lot to offer. Mostly a nymphing and streamer game there as well and good fishing can be had from the park boundary all the way to Three Forks. Small nymphs overall will be the safest bets like Green Machines, Lightning Bugs, Pheasant Tails, Zebra Midges and more. Expect some off color water below Ennis, and good fishing.

By this time next month it is likely we've experienced our first arctic blast and most have switched to thoughts of hunting and skiing or have moved on to warmer places. We'll still be here enjoying the quiet rivers all to ourselves!

Flashback Pheasant Tail



Green Machine



ParaWulff BWO



Purple Haze Cripple



Sex Dungeon



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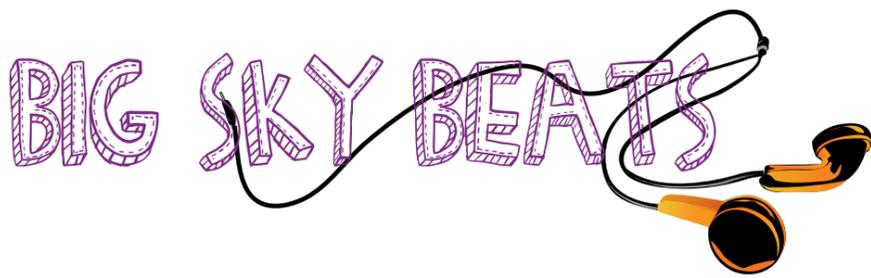
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BY TAYLOR-ANN SMITH  
EBS GRAPHIC DESIGNER

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.

Chill-hop always makes me daydream of walking the streets of Brooklyn, New York, on a rainy day as I find my favorite coffee shop, Brooklyn Roasting Co. Every time I visit New York City, I always make sure to stop here for my favorite Americano, find a cozy spot to sketch, and listen to this relaxing music genre for inspiration.

Characterized by a blend of electronic music with samples of hip-hop and jazz elements, chill-hop is the perfect music to listen to while unwinding from your day and clearing your mind. Steady beats inspired by hip-hop put your mind at ease, while the interesting mix of jazz and electronic samples keep you enticed.

Here are a few of my favorite chill-hop songs that bring out creative inspiration and relax the mind:

1. "Catch Me Riding Dirty," Samiyam
2. "Yap," Bluestaeb
3. "Velvet Sofa," Green Butter
4. "Something Classic," Zuper
5. "Intro Dream," Afta-1
6. "Wasted Night," S. Fidelity
7. "Jam N'Soul," Chop Juggler
8. "Shame," Handbook
9. "Waterfalls," Bahwee
10. "Anchor Steam," Teebs

Visit [explorebigsky.com/beats](http://explorebigsky.com/beats) for a sampling of the playlist.

## Sudoku

Fill in the grid so that every row, column and 3x3 box contains the numbers 1 through 9.

					9	8		6
7		6						4
	8							
			5					
5	2					7	1	
							2	8
6	5			4	8			
1					6			
2		7	1					

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## American Life in Poetry: Column 603

BY TED KOOSER, U.S. POET LAUREATE

The workings of memory are something that every writer thinks a lot about, and in this poem Peter Everwine, a California poet we've featured before, looks very closely into those workings. His most recent book is "Listening Long and Late," from the University of Pittsburgh Press. This poem is from "Five Points," a distinguished quarterly journal.

### A Small Story

By Peter Everwine

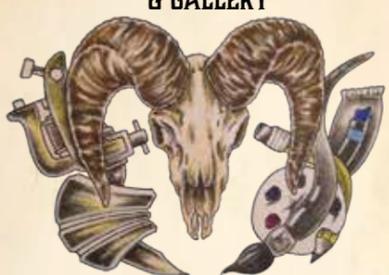
When Mrs. McCausland comes to mind  
she slips through a small gap in oblivion  
and walks down her front steps, in her hand  
a small red velvet pillow she tucks  
under the head of Old Jim Schreiber,  
who is lying dead-drunk against the curb  
of busy Market Street. Then she turns,  
labors up the steps and is gone . . .

A small story. Or rather, the memory  
of a story I heard as a boy. The witnesses  
are not to be found, the steps lead nowhere,  
the pillow has collapsed into a thread of dust . . .  
Do the dead come back only to remind us  
they, too, were once among the living,  
and that the story we make of our lives  
is a mystery of luminous, but uncertain moments,  
a shuffle of images we carry toward sleep—  
Mrs. McCausland with her velvet pillow,  
Old Jim at peace—a story, like a small  
clearing in the woods at night, seen  
from the windows of a passing train.

*We do not accept unsolicited submissions. American Life in Poetry is made possible by The Poetry Foundation ([poetryfoundation.org](http://poetryfoundation.org)), publisher of Poetry magazine. It is also supported by the Department of English at the University of Nebraska-Lincoln. Poem copyright ©2015 by Peter Everwine, "A Small Story," from "Five Points," (Vol. 17, no. 1, 2015). Poem reprinted by permission of Peter Everwine 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.*

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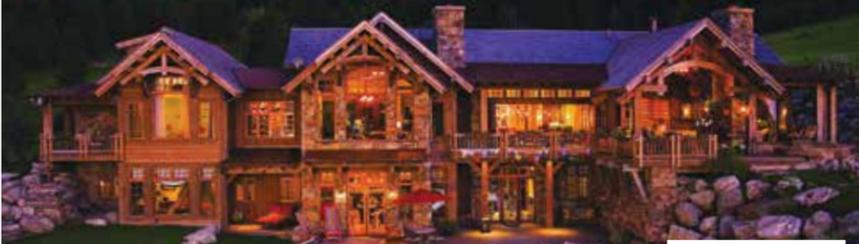
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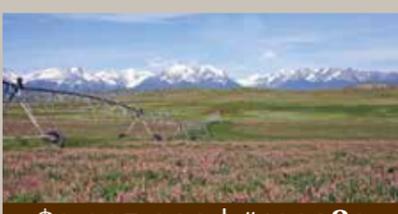
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## Section 4: EVENTS & ENTERTAINMENT, BACK 40



# Painting the wondrous life

## Artist Laurie Stevens leads workshop in Big Sky

BY SARAH GIANELLI  
EBS CONTRIBUTOR

Chaos is the word that comes to painter Laurie Stevens' mind when asked about a typical day on her 2,000-acre ranch outside of Cascade, Montana. Especially in the summer months when, as a "bovine babysitter," she takes in 100 pair of cattle in addition to her horses and dogs.

But this doesn't mean she isn't painting—or thinking about painting—constantly. While she manages the pastures, Stevens is always taking pictures, jotting notes, sketching and simply observing, all of which inspire and inform the paintings to come.

"Life anywhere is just kind of wondrous," Stevens said. "And it's exciting if you can turn that feeling into something that compels and inspires you. Like when you've been through a long winter and then there's this incredible sort of thing just popping out of the ground and ... it's pink! Or when there's ice on the pond and the temperature is right at freezing and you get those snow crystals. As an artist, you're just trying to notice those things—it's what keeps us going."

As fall comes on and the cows go home, life begins to shrink down on itself and painting becomes all-consuming for Stevens. September through May is her "marathon time," when she will complete the majority of the 30 to 40 oil paintings she creates each year.

Stevens has had to put forth a concerted effort to maintain an artistic identity independent from that of her husband R. Tom Gilleon, a heavy hitting painter and digital artist in the world of Western art. But she shouldn't have to.

Her oil paintings are captivating. Whether Stevens has painted a sweeping landscape in a muted, glowing palette that teases the edge of the surreal; or figurative works of powerfully sentient people and animals, a wistful appreciation of her subject and their inner aliveness is as palpable as the paint itself.

"Jingle Bob," a piece from her cowboy series—they squint, smoke and play guitar, and have a James Dean feel about them—sold in 2014 from Big Sky's Creighton Block Gallery, where she also sold a landscape called "Storm Coming In" last April.

"Little Bird," a stirring piece depicting a young Native girl with a violet parasol riding sidesaddle, was commissioned by the C.M. Russell Museum in Great Falls and is now part of their permanent collection.

Born in Billings, Stevens returned to Montana to get back to nature and painting after an exciting art career in Los Angeles as a Hollywood and Disney set designer. One project of many from that period that stands out was working on the 1981 film "The Incredible Shrinking Woman," for which special effects entailed painting 30-foot tall backdrops of common household goods.



PHOTO COURTESY OF WESTERN MASTERS ART SHOW

Stevens still battles the highly controlled, realistic way of painting instilled during her career, always pushing toward a more impressionistic style, but it seems the artist thrives on challenge, painterly and otherwise.

"This is not an easy life by any means—it's not for sissies," she said of life on the ranch. "But if life wasn't challenging, that would be pretty boring. One thing about being an artist, I can't imagine ever being bored unless someone took away my paint."

Stevens said it would be pretty difficult to run out of inspiration surrounded by high prairie and rolling hills that abut the Little Belt Mountains. From her doorstep she can witness the stories that unfold on the land—within a day, within a year.

Despite an occasional sense of isolation, Stevens said, "It's pretty nice to not have any neighbors other than four-legged ones, and for everywhere you turn to see nature. Even if it means that sometimes I have to learn how to speak English again—like when I come to Big Sky for a painting workshop."

Stevens is leading a workshop in Big Sky Oct. 28-30 from 9 a.m. to 4 p.m. at Creighton Block Tower Gallery in Big Sky Town Center. Offered by the Arts Council of Big Sky, "Back to Basics: Considerations for Every Painter" will focus on the fundamentals of painting as valuable tools to help any artist solve painterly problems.

For more information about Stevens' workshop or to register, visit [bigskyarts.org](http://bigskyarts.org) or call (406) 995-2742.



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Featuring a showing of art by Harry Koyama displayed by Creighton Block Gallery of Big Sky. Please stop by the bank lobby to see in person.



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## Community pass valued at \$7,000 to be raffled off at first annual Fall Festival

BIG SKY CHAMBER OF COMMERCE

Join the Big Sky Chamber of Commerce and Big Sky Community Organization on Sunday, Oct. 16 for a day of fall festivities that begins with a 10-km trail run at 10:30 a.m. in the Big Sky Community Park, where racers will run three laps on the Black Diamond and Little Willow Way trails.

From 11:30 a.m. to 2:30 p.m., the chamber presents the third annual Great Pumpkin Giveaway. Free family photography will be available, as well as hayrides made possible by Lone Mountain Ranch, and activity booths hosted by local nonprofits.

Totally Tasty will provide food and Scissorbills will serve up beer and spirits. Community nonprofits and local businesses have come together to host activities such as pumpkin, cookie and button decorating, seasonally themed story time, water conservation activities, and old-fashioned games.

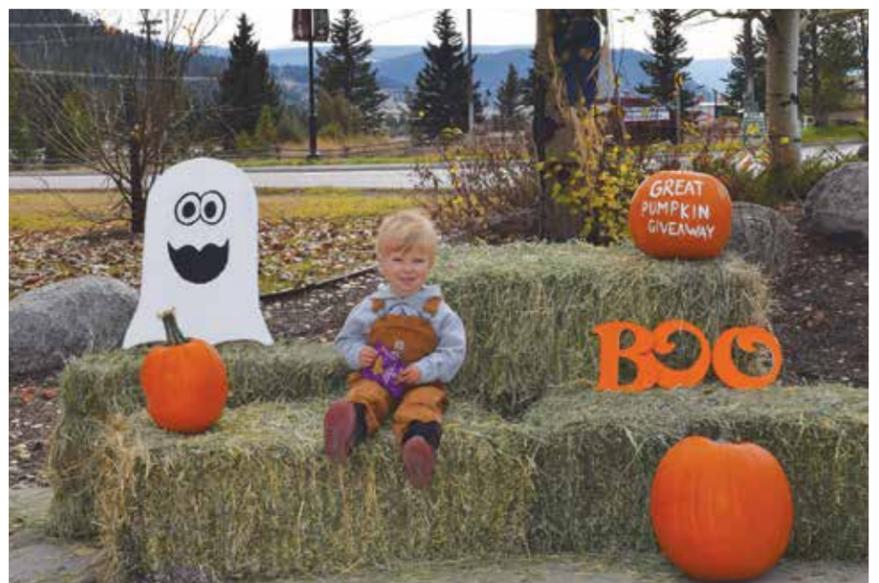
Perhaps most exciting for the adults, BSCO will be raffling off a community pass valued at \$7,000. Only 100 raffle tickets will be sold, and the winner will be drawn at 2 p.m. during the festival.

The community pass provides an entire year of perks in Big Sky including VIP parking and ski valet services and a mountain bike haul season pass at Big Sky Resort; multiple-day lodging at the Shoshone or Whitewater Inn; and tickets to Big Sky Arts Council events and performances at Warren Miller Performing Arts Center. Many other local businesses—restaurants, yoga studios, breweries, gyms, and bike and ski tuning shops—have donated their services.

“Fall is a beautiful time of year here in Big Sky,” said Ciara Wolfe, executive director of Big Sky Community Organization. “And we recognized that there is not a lot of activities during this season. We were inspired to create an event that brings all of the local nonprofits together to celebrate the season and strengthen our community by collaborating.”

Purchasing a raffle ticket is tax deductible and helps fund programs, projects and public facilities in Big Sky. Beneficiaries include Historic Crail Ranch, Camp Big Sky, the BSCO Natural Resource Council and Big Sky’s softball league, parks and trails.

Visit [racemontana.com](http://racemontana.com) to register for the 10-km race. For more information about the fall festival contact Lander Bachert at (406) 995-3000 or [lander@bigskychamber.com](mailto:lander@bigskychamber.com).



Owen Shirley checks out the pumpkins at the 2015 Big Sky Chamber of Commerce Great Pumpkin Giveaway. PHOTO BY ALEX MANSFIELD

# Lone Peak Cinema hosts weekend of horrific entertainment

BY SARAH GIANELLI  
EBS CONTRIBUTOR

BIG SKY – Scott and Sally Fisher have wanted to institute a Halloween-inspired weekend of film in Big Sky since they opened Lone Peak Cinema nearly five years ago. The idea stayed on the back burner until they hired Jamie Mathis and Anna Husted in the spring of 2015.

Mathis and Husted—both of whom have degrees in film—helped instigate the Fishers to set fall 2016 as their goal for the Lone Peak Horror Fest. Collectively they began working on the festival in earnest last winter.

On Oct. 29 and 30, Lone Peak Cinema will present nearly 20 scary movies as well as director appearances and live music. Each day will begin at 2 p.m. with family friendly films and progress in intensity and ratings until 1 a.m.

Expect a diverse mix from the horror genre: contemporary films like “Blair Witch Project,” classics and cult favorites, big budget and low budget flicks ranging from PG- to X-rated. Both locally and Hollywood produced films will be represented, and the lineup wouldn’t be complete without “The Rocky Horror Picture Show,” replete with props and costume contest.

Although her husband will be disappointed she didn’t say “Army of Darkness,” Sally’s favorite movie of the weekend is “Halloween,” the 1978 low budget flick that exceeded expectations at the box office before the horror genre had a mass following.

Lone Peak Horror Fest also includes additional fun to accompany the screenings.

Tickets are available for individual shows, but a weekend pass includes admittance to an outdoor double feature on Friday night at a presently undisclosed location. Attendees to this secret event must be 21 or older because free alcoholic beverages and popcorn will be provided.

Saturday evening, Sally will introduce director Christian Ackerman—lauded for his special effects—followed by a showing of “Wisconsin Project X” and his newest release, “Zombies of the Living Dead.”

Each night a silent movie feature will be accompanied by live music. Saturday night, local musicians Ed Brummit, Ben Blodgett and Jamie Mathis come together as Artists of Antiquity to perform an original, live score to the 1922 Danish-Swedish silent film “Häxan: Witchcraft through the Ages.” Sunday night, a live DJ will provide the soundtrack to “Dracula.”

“We’re thrilled with what we’ve put together for the first year,” Sally said. “And we’re excited to offer this event to our town in hopes that it will give people some entertainment and also help other businesses stay open or see more customers in the off season.”

Our expectations for attendance are somewhat low this year, but we know down the road, this is going to be a festival with sold out showings that draws more filmmakers and film lovers to town.”

*Passes go on sale Oct. 15. Films and showtimes are subject to change. Visit [lonepeakcinema.com](http://lonepeakcinema.com) or Lone Peak Cinema’s Facebook page for an updated schedule of movies and times.*

## Bozeman Doc Series presents two politically charged documentaries

BOZEMAN DOC SERIES

The Bozeman Doc Series presents a special event co-hosted by the Montana Wilderness Association on Sunday, Oct. 23. The evening begins at 6 p.m. with a reception in the Emerson Center for the Arts and Culture lobby featuring food and drink from the Emerson Grill.

The screening begins at 6:30 p.m. with the short documentary “Our Last Refuge,” followed by the Montana premiere of the Sundance Special Jury Prize-winning documentary, “When Two Worlds Collide.”

“When Two Worlds Collide” brings audiences directly into the line of fire between two powerful, opposing Peruvian factions who will stop at nothing to keep their respective goals intact.

On one side is President Alan Garcia and the Peruvian government who begin aggressively extracting oil, minerals and gas from untouched indigenous Amazonian land. He is met with fierce opposition from the indigenous people living in the Amazon jungle, led by Alberto Pizango, whose impassioned speeches against Garcia’s actions become a rallying cry.

When President Garcia continues to ignore their pleas, a tense war of words erupts into

deadly violence, bloody protests and chaotic clashes.

Created by first-time feature documentary filmmakers Heidi Brandenburg and Mathew Orzel, “When Two Worlds Collide” exposes a titanic clash between a government hungry for economic legitimacy and a people desperate to protect an ancient land from ruin.

“Our Last Refuge,” by Bozeman-based director Daniel Glick, tells the story of the Badger-Two Medicine, the sacred homeland of the Blackfoot Nation of Montana, and the decades-long struggle to protect it from oil and gas exploration. The film includes voices from all sides of the struggle—Blackfoot elders, local conservationists, and the law firm pushing for oil exploration.

Together, they chronicle the epic saga of this unique landscape and the current controversy, the outcome of which could determine the fate of sensitive and sacred lands nationwide. “Our Last Refuge” is the first in-depth telling of this story at a moment when the stakes are at their highest. Glick will be in attendance to introduce the film.

*Tickets are available at the door, and at Cactus Records and Movie Lovers. Visit [bozemandocseries.org](http://bozemandocseries.org) for more information or to purchase tickets online.*

## Screening of silent horror film with live score by Montana Jazz Collective

BOZEMAN FILM SOCIETY

The Bozeman Film Society presents a screening of the 1920 silent horror film, “The Cabinet of Dr. Caligari,” at The Ellen Theatre in Bozeman on Saturday, Oct. 29, at 7 p.m. The screening will coincide with the live performance of an original score by Bozeman’s Montana Jazz Collective.

Widely considered the quintessential work of German expressionist cinema, and arguably the first true horror film, “The Cabinet of Dr. Caligari” tells the story of an insane hypnotist (Werner Krauss) who travels the carnival circuit using a sleepwalker named Cesare (Conrad Veidt) to commit murders.

With its dark and warped visual style, “The Cabinet of Dr. Caligari” remains terrifying nearly a century after its release.

Montana Jazz Collective musicians Adam Greenberg, Chris Cundy and Alex Robilotta add a twisted musical dimension to the film with their live performance of an original score inspired by the film.

*To reserve tickets for this special Halloween event, visit [theellentheatre.com](http://theellentheatre.com) or call (406) 585-5885. For more information about “The Cabinet of Dr. Caligari” and upcoming BFS film presentations, visit [bozemanfilmsociety.org](http://bozemanfilmsociety.org).*

Saturday, October 29<sup>th</sup>

Frankenstein 2-3 p.m.

Halloween 3-4 p.m.

Under the Shadow 4-5 p.m.

Jack Goes Home 5-6:45 p.m.

Wisconsin Project X 7-9:30 p.m.

Zombies of the Living Dead  
Introductions, Q&A with Director Christian Ackerman

Rocky Horror Picture Show 9-10:45 p.m.

Dracula - Live Sound 10-midnight

TBD midnight-1 a.m.



Sunday, October 30<sup>th</sup>

Wozza Pooza 2-3:45 p.m.

The Evil Dead 2:30-4 p.m.

The Witch 4-5:30 p.m.

Army of Darkness 4:15-5:45 p.m.

Blair Witch 7-8:30 p.m.

Jack Goes Home 8:30-10:15 p.m.

Under the Shadow 9-10:30 p.m.

Wozza - Live Sound 10:30 p.m.-12:30 a.m.

The Blackout Experiments midnight

All films and times subject to change

# EVENTS CALENDAR

PLANNING AN EVENT? LET US KNOW! EMAIL [MEDIA@THEOUTLAWPARTNERS.COM](mailto:MEDIA@THEOUTLAWPARTNERS.COM), AND WE'LL SPREAD THE WORD.

## FRIDAY, OCTOBER 14 - THURSDAY, OCTOBER 27

\*If your event falls between  
October 28 and November 10,  
please submit it by October 21.

## Big Sky

### FRIDAY, OCTOBER 14

LPHS Volleyball  
LPHS Athletic Center  
JV: 3:30 p.m. | Varsity: 5 p.m.

Trivia Night  
Lone Peak Cinema, 8 p.m.

Tom Marino  
Ousel & Spur Pizza, 9 p.m.

### SATURDAY, OCTOBER 15

**Confluence Films  
"Providence" World  
Premiere**  
Lone Peak Cinema,  
4:30 & 7:30 p.m.

Relationships, Love & You!  
Santasha Wellness Center, 10:30  
a.m.

### SUNDAY, OCTOBER 16

Community Fall Festival  
Big Sky Community Park,  
10:30 a.m.

LPHS Football  
Big Horn Stadium  
OMS: 11 a.m. | LPHS: 2 p.m.

### TUESDAY, OCTOBER 18

Bingo Night  
Gallatin Riverhouse Grill, 6 p.m.

### WEDNESDAY, OCTOBER 19

Reclaim Your Health: The Power of  
the Mind to Heal the Body  
Santasha Wellness Center, 7 p.m.

### THURSDAY, OCTOBER 20

Big Sky Tech Summit  
Big Sky School District, 8 a.m.

Visit Big Sky Board Meeting  
Big Sky Chamber of Commerce,  
8:30 a.m.

Business After Hours  
3 Rivers Communications, 5 p.m.

### FRIDAY, OCTOBER 21

**Big Sky Tech Summit**  
**Big Sky School District,**  
**9 a.m.**

Trivia Night  
Lone Peak Cinema, 8 p.m.

### SATURDAY, OCTOBER 22

LPHS Volleyball  
LPHS Athletic Center  
JV: 5 p.m. | Varsity: 6:30 p.m.

### TUESDAY, OCTOBER 25

Bingo Night  
Gallatin Riverhouse Grill, 6 p.m.

## THURSDAY, OCTOBER 27

Madison/Gallatin County  
Commission Meeting  
Big Sky Resort, 2 p.m.

## Bozeman

### FRIDAY, OCTOBER 14

Senior Center Fall Festival  
Bozeman Senior Center, 8:30 a.m.

Bowl for Kids' Sake  
Bozeman Bowl, 4 p.m.

Artists' Gallery October Art Event  
Artists' Gallery, 5 p.m.

Claudia Williams  
Kountry Korner Café, 5:30 p.m.

Cyanotype Portrait Night  
The Image Lab, 6 p.m.

Opera: The Daughter of the  
Regiment  
Willson Auditorium, 7 p.m.

BoZambique  
Red Tractor Pizza, 7 p.m.

MSU Symphony Orchestra with  
Bozeman High Kamerata Concert  
Hope Lutheran Church, 7:30 p.m.

The Lil' Smokies + Scott Pemberton  
Eagles Lodge Ballroom, 8 p.m.

Monty Alexander  
The Ellen Theatre, 8 p.m.

Play: Talking With  
Verge Theater, 8 p.m.

The Bus Driver Tour  
Eagles Lodge, 9 p.m.

### SATURDAY, OCTOBER 15

Mettathon Buddhist Buffet  
Bozeman Dharma Center, 6 a.m.

Brianna Moore &  
The Sasquatch Funk  
Red Tractor Pizza, 7 p.m.

Senior Center Fall Festival  
Bozeman Senior Center, 8:30 a.m.

Great Pumpkin Hunt  
Beall Park Recreation Center, 9 a.m.

Sixth Annual Montana Parent  
Costume Swap  
Gallatin Valley Mall, 10 a.m.

**Farm to School Festival**  
**Rocky Creek Farm, 11 a.m.**

The Boy Who Loved Monsters & the  
Girl Who Loved Peas  
Verge Theater, 2 p.m.

Robin Hood  
Kaleidoscope Youth Theatre,  
2 & 7 p.m.

Bowl for Kids' Sake  
Bozeman Bowl, 4 p.m.

The Bozeman Ski Ball  
Riverside Country Club, 6 p.m.

MSU Library Benefit Dinner  
featuring Glen Chamberlain  
Renne Library, 6 p.m.

The Lil' Smokies + Honeyhoney  
Eagles Lodge Ballroom, 8 p.m.

Jeffery Martin  
Live From the Divide, 8 p.m.

Halloween Paranormal Talk & Trivia  
Townshend's Bozeman Teahouse,  
8 p.m.

Play: Talking With  
Verge Theater, 8 p.m.

The Bus Driver Tour  
Eagles Lodge, 9 p.m.

### SUNDAY, OCTOBER 16

Mettathon Buddhist Buffet  
Bozeman Dharma Center, 6 a.m.

Learn to Skate Classes  
Haynes Pavilion, noon

Robin Hood  
Kaleidoscope Youth Theatre, 2 p.m.

Opera: The Daughter of the  
Regiment  
Willson Auditorium, 3 p.m.

Family Circus Time  
The Emerson Center for the Arts &  
Culture, 4 p.m.

Squirrel Gravy  
MAP Brewing, 6 p.m.

Confluence Films "Providence"  
World Premiere  
The Ellen Theatre, 6 p.m.

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

Dan Dubuque  
Bozeman Hot Springs, 7 p.m.

Laurie Lewis & Tom Rozum  
The Story Mansion, 7:30 p.m.

### MONDAY, OCTOBER 17

Meet the Author: Robert Brown  
Country Bookshelf, 7 p.m.

Ottmar Liebert & Luna Negra  
The Ellen Theatre, 7:30 p.m.

**TUESDAY, OCTOBER 18**  
Bozeman Business 7 Professional  
Women Celebration  
The Commons at Baxter and Love,  
5:30 p.m.

Artist Reception: Robert Osborn  
Bank of Bozeman, 5:30 p.m.

He Named Me Malala Film Viewing  
Willson School, 6 p.m.

Dan Bradner  
MAP Brewing, 6 p.m.

Wonderlust: Voices of Yellowstone  
Belgrade Community Library, 6 p.m.

Richmond Slim  
Red Tractor Pizza, 7 p.m.

Erika Wennerstrom  
The Filling Station, 8 p.m.

**WEDNESDAY, OCTOBER 19**  
Honey Harvesting Program  
Bozeman Public Library, 4 p.m.

Karma Kids  
Mountain Yoga, 5 p.m.

Reel Rock 11  
The Emerson Center for the Arts &  
Culture, 7:30 p.m.

### THURSDAY, OCTOBER 20

The Vibe Quartet  
406 Brewing, 6 p.m.

Distinguished Lecture: Vesuvius in  
Ash and Ink  
Museum of the Rockies, 6 p.m.

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

The Trail Running Film Festival  
The Ellen Theatre, 7 p.m.

Mathias  
Bozeman Hot Springs, 7 p.m.

Meet the Author: Charley Henley  
Country Bookshelf, 7 p.m.

The Last Revel + Laney Lou & The  
Bird Dogs  
The Filling Station, 8 p.m.

Play: Talking With  
Verge Theater, 8 p.m.

### FRIDAY, OCTOBER 21

Bowl for Kids' Sake  
Bozeman Bowl, 4 p.m.

Mandolin Jack  
Wild Joe's Coffee House, 5 p.m.

Claudia Williams  
Kountry Korner Café, 5:30 p.m.

Warren Miller's Here, There &  
Everywhere  
The Ellen Theatre, 8 p.m.

Play: Talking With  
Verge Theater, 8 p.m.

Groove Wax  
Eagles Lodge, 9 p.m.

**SATURDAY, OCTOBER 22**  
Bozeman Winter Farmers' Market  
Emerson Ballroom, 9 a.m.

Imagination with Norman Fischer  
Bozeman Dharma Center, 9:30 a.m.

MSU Football vs. Eastern  
Washington  
Bobcat Stadium, 12:10 p.m.

The Boy Who Loved Monsters & the  
Girl Who Loved Peas  
Verge Theater, 2 p.m.

Bowl for Kids' Sake  
Bozeman Bowl, 4 p.m.

JW Teller  
Wild Joe's Coffee House, 5 p.m.

Warren Miller's Here, There &  
Everywhere  
The Ellen Theatre, 6 & 9 p.m.

Play: Talking With  
Verge Theater, 8 p.m.

Groove Wax  
Eagles Lodge, 9 p.m.

Halloween Cemetery Ghost Hunt  
Sunset Hills Cemetery, 9 p.m.

Dead Larry  
The Filling Station, 9 p.m.

### SUNDAY, OCTOBER 23

Learn to Skate Classes  
Haynes Pavilion, noon

Thomas Kirwan  
MAP Brewing, 6 p.m.

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

Alex Koukov & Bridger Dunnagan  
Bozeman Hot Springs, 7 p.m.

### MONDAY, OCTOBER 24

Auditions for Spring Awakening  
MSU Black Box Theater, 7 p.m.

Improv on the Verge  
Verge Theater, 8 p.m.

### TUESDAY, OCTOBER 25

Parent & Tot Aerial Arts Series  
The Emerson Center for the Arts &  
Culture, 10:30 a.m.

Brews & the Big Sky: Deep Diggings  
& Thirsty Miners Registration  
Museum of the Rockies, 5 p.m.

One Year Anniversary Party  
MAP Brewing, 6 p.m.

Auditions for Spring Awakening  
MSU Black Box Theater, 7 p.m.

Monumental: Skiing Our National  
Parks  
The Ellen Theatre, 7 p.m.

Left on Tenth  
Red Tractor Pizza, 7 p.m.

### WEDNESDAY, OCTOBER 26

Karma Kids  
Mountain Yoga, 5 p.m.

Extreme History Project: Historical  
Association of Sensory Elements  
with Cultural Otherness  
Museum of the Rockies, 6 p.m.

The Fundamentals of Successful  
Investing  
MSU Gaines Hall, 6:15 p.m.

### THURSDAY, OCTOBER 27

The Vibe Quartet  
406 Brewing, 6 p.m.

Dead Prez Halloween Party  
Cat's Paw, 7 p.m.

Keller Williams  
Eagles Lodge Ballroom, 8 p.m.

**RECURRING EVENTS:**

Monday Metamorphosis  
Mountain Yoga, 4 p.m.

Pints with Purpose  
Bridger Brewing, Mondays at 5 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.

Karaoke  
Eagles Lodge, Thursdays at 8:30 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, OCTOBER 14**

Big Brothers Big Sisters- Perfect Pairings  
BIG Party  
Livingston Depot Center, 4 p.m.

The Wench  
Chico Hot Springs, 9 p.m.

www.TWANG  
The Murray Bar, 9 p.m.

**SATURDAY, OCTOBER 15**

The Wench  
Chico Hot Springs, 9 p.m.

Scott Tecca  
Katabatic Brewing, 5:30 p.m.

Montana Deluxe  
The Murray Bar, 9 p.m.

**SUNDAY, OCTOBER 16**

Jay's Lounge  
The Murray Bar, 9 p.m.

**MONDAY, OCTOBER 17**

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

Anna Rose  
The Murray Bar, 9 p.m.

**TUESDAY, OCTOBER 18**

ACE: Cancer Conquerors  
Adult Community Education, 7 p.m.

**WEDNESDAY, OCTOBER 19**

ACE: (exer) Cize Live  
Adult Community Education, 5:30 p.m.

J.W. Teller  
The Murray Bar, 9 p.m.

**THURSDAY, OCTOBER 20**

ACE: Learn to Knit  
Adult Community Education, 6 p.m.  
Kalyn Beasley  
The Murray Bar, 9 p.m.

**FRIDAY, OCTOBER 21**

Songwriters Night  
The Murray Bar, 9 p.m.

Matt Ridgeway with John Morford  
Gourmet Cellar, 6:30 p.m.

**SATURDAY, OCTOBER 22**

Ticket Sauce  
The Murray Bar, 9 p.m.

**SUNDAY, OCTOBER 23**

Jay's Lounge  
The Murray Bar, 9 p.m.

**MONDAY, OCTOBER 24**

Mike Murray  
The Murray Bar, 9 p.m.

**TUESDAY, OCTOBER 25,**

ACE: Cancer Conquerors  
Adult Community Education, 7 p.m.

**WEDNESDAY, OCTOBER 26**

ACE: (exer) Cize Live  
Adult Community Education, 5:30 p.m.

**THURSDAY, OCTOBER 27**

ACE: Learn to Knit  
Adult Community Education, 6 p.m.

## West Yellowstone

**SUNDAY, OCTOBER 16**

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

**MONDAY, OCTOBER 17**

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, OCTOBER 18**

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

**WEDNESDAY, OCTOBER 19**

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

**SUNDAY, OCTOBER 23**

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

**MONDAY, OCTOBER 24**

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, OCTOBER 25**

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

**WEDNESDAY, OCTOBER 26**

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.

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

## Ennis

**FRIDAY, OCTOBER 14**

Joe Schwem  
Norris Hot Springs, 7 p.m.

**SATURDAY, OCTOBER 15**

Cole Thorne  
Norris Hot Springs, 7 p.m.

**SUNDAY, OCTOBER 16**

Russ Chapman  
Norris Hot Springs, 7 p.m.

**THURSDAY, OCTOBER 20**

MVMC Mammography Suite Open House  
Madison Valley Med Center Rehab, all day

**FRIDAY, OCTOBER 21**

31st Annual Hunters Feed  
Main Street, 3 p.m.

Willie's Distillery 3rd Annual  
Critter Calling Contest  
Willie's Distillery, 6 p.m.

Aran Buzzas  
Norris Hot Springs, 7 p.m.

**SATURDAY, OCTOBER 22**

Dan Henry  
Norris Hot Springs, 7 p.m.

**SUNDAY, OCTOBER 23**

Nathan North  
Norris Hot Springs, 7 p.m.

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# Experience 'Sinfonia Concertante' with the Bozeman Symphony

BOZEMAN SYMPHONY SOCIETY

The Bozeman Symphony presents performances of "Sinfonia Concertante" on Oct. 29 and 30 at Willson Auditorium in Bozeman, featuring the music of composers Miklós Rózsa and Antonín Dvořák.

The golden age of Hollywood produced not only epic movies, but also epic movie scores, providing classically trained European composers a niche in the New World. Rózsa, who won multiple Academy Awards for such films as "Ben-Hur," was also a highly respected and sought after composer for the concert hall. His "Sinfonia Concertante," was written for two of history's most famous soloists: Jascha Heifetz and Gregor Piatigorsky.

For this performance, the Bozeman Symphony welcomes Dallas Symphony members, cellist Jolyon Pegis and violinist Maria Schleuning. Rounding out the program is the music of Antonín Dvořák. His upbeat "Festival March" opens the concert, and what has been dubbed his "Pastoral," and great work, Symphony No. 8, will conclude the program.

Performances will be held Saturday, Oct. 29, at 7:30 p.m., and Sunday, Oct. 30, at 2:30 p.m. at the Willson Auditorium in downtown Bozeman.

Contact the Bozeman Symphony at (406) 585-9774 or [info@bozemansymphony.org](mailto:info@bozemansymphony.org) with questions regarding performances, ticket sales, venue, and seating information.

## Montana beers travel south to Colorado



Assistant Brewer Manny Ford and Brewmaster Andy Liedberg of Big Sky's Beehive Basin Brewery introduce Colorado to Montana brews during the Great American Beer Festival held in Denver Oct. 6-8. More than 24 Montana breweries entered the competition at the country's largest brew fest and five more noncompeting breweries were represented at the Montana Brewers Association booth, including Beehive Basin.

PHOTO COURTESY OF MONTANA BREWERS ASSOCIATION

## Cowboy's Quill

*The American West has produced some of the most thoughtful and moving literature in U.S. history. Read on and enjoy the Cowboy's Quill: insight into the best writers, books and poetry this side of the Mississippi.*

### Callan Wink: Literary angler

BY DOUG HARE

EBS STAFF

When Montana State University professor and poet Greg Keeler was asked why Montana has so many acclaimed authors compared to similarly populated states, he said, "I don't know for sure. Some of them were born here. Some of us came for the trout."

MSU graduate Callan Wink falls into the latter category. A Michigan native, Wink has been guiding drift boat fly-fishing trips on the Yellowstone River in spring, summer, and fall for over a decade. In the winter, he writes from his home in Paradise Valley.

Also holding a Master of Fine Arts from the University of Wyoming, Wink has already been published in *The New Yorker*, and his novella "In Hindsight" can be found in full on its website. Not too shabby for a part-time writer in his early 30s.

Published this year, Wink's "Dog Run Moon" is an impressive debut collection of short stories. Within three pages of the namesake piece, a dognapper is running naked cutting his feet on sharp rimrock pursued by a shady businessman and his accountant on an ATV. Here is a chase story not easily forgotten.

The protagonist calls his ex-girlfriend and says, "I ran afoul of some bad people in a matter concerning a dog." Most of his characters have clothes and shoes on, but almost all of them are down-and-out, blue-collar workers making or about to make bad decisions, and each one reveals redeemable qualities that make them engaging, relatable and usually affable.

"Crow Country Moses" might be the best story in the whole collection. The protagonist, driving lost around eastern Montana, looks back on his delinquent childhood while dealing with the death of his mother and the pipe dreams of an aging father. "Breatharians" is another piece where Wink's raw talent for telling memorable stories about 21st-century rural life is undeniable.

Writing about contemporary fiction in Montana, Bill Kittredge said, "Our writers are no longer paying attention to the old hide-bound mythology of the Western; they are writing from their own experiences, discovering and defining their own demons and battles, engaged in the constant business of the artist—renaming the sacred."

Wink's versatility and originality are on full display in this collection, but one leitmotif is pain: breakups, workplace accidents, killing cats, suicides, cancer, the death of loved ones. He does not shy away from confronting tragedies, large or small. But the other theme that offsets the oftentimes grim plotlines are the way his stories are also veiled meditations on the nature of healing.

Comparisons will be made between Wink and a young Cormac McCarthy, the late Jim Harrison, or Tom McGuane, but Wink has already carved out his own inimitable style: bold, frenetic, introspective and darkly comical. We're lucky Montana has long winters.

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

# BACK40

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”

## Moms hunt too

BY KRISTA LARSON  
EBS CONTRIBUTOR

I tell everyone I took up archery hunting for a challenge—so I could get close enough to elk to smell and touch them—but I also got into it to stay active and out in the woods while pregnant with my second child. I wanted a new sport to learn and enjoy with my husband Caleb and we wanted to acquaint our son, even at age 1, with hunting as a fun family sport.

Archery hunting is providing other benefits: it’s helped me experience a sense of freedom I hadn’t enjoyed, even briefly, for at least a year; and it’s allowed me to fill my family’s freezer with meat and participate in what I believe to be the most responsible practice for a carnivore.

Sept. 22 was a wet, foggy day with a constant wind that made Caleb and I work tirelessly to stay downwind at our favorite, quiet parcel of public land west of Missoula.

After hearing elk bugling and making our approach, we realized the bull we were bugling with was moving up the ridge. We climbed up after it. This meant sneaking slowly up another 600 feet of ridgeline through wet brush, mixed conifer stands and open meadows. The next two hours of pursuit led to encounters that leave you tired, weak in the knees and squinting through the mist to catch a glimpse of this incredible animal.

Three times I watched golden-colored antlers move toward me over the tops of new growth conifers and heard the thrashing of trees and brush between chuckles. Just as those antlers reached the edge of trees, I pulled my bow back to full draw and tried to remain calm and steady, thinking this is it, the moment I’ve been waiting for—only to hear another chuckle and watch the bull slowly vanish into the fog up what seemed like a never-ending ridge. Enter old friend: discouragement.



Krista Larson with the elk she took with a bow just seven days into her first archery season.



Larson said her first successful elk hunt is the most challenging and rewarding thing she’s done. PHOTOS BY CALEB LARSON

Despite exhaustion and feeling defeated, we decided to give it one more push after once again hearing a bugle not too much further ahead. We decided to change our tactic by moving forward more aggressively together, but the cover became thinner and it was harder to sneak around, despite the fog.

I crept up to stand between two fir trunks that were only about 8 inches wide and barely concealed my midline. As Caleb bugled behind me, a beautiful five-point bull came out of the mist and walked straight toward me. He walked slowly, pausing once to turn his head slightly, and I finally got a good look at the animal we’d been pursuing for over two hours.

Just 20 yards away and out in the open now, he looked right back at me and began moving forward, stopping at the tree trunk right in front of me. My only move was to put my bow between the trunk and myself, face my bow straight out, and pull back as quickly and steadily as possible during the split second his eyes were behind the trunk.

He stopped for a brief second because he caught my left arm movement out of the corner of his eye—they say elk have a 270-degree field of vision—but after hearing Caleb bugle again below me, he slowly stepped past the tree to my right. This was it! I slowly moved my sight on his vital zone. At 3 yards away, he was so close I could have touched him as he walked by. I held steady and then released.

That’s when everything switched from slow motion to fast forward.

He began running quickly, like a bucking bronco. After hearing Caleb cow call to him, he rounded the ridge and slowed to a trot before dropping down the edge, just out of sight. I caught a glimpse of my arrow sticking out of his vital area, and there was bright red blood already visible. This was encouraging, about as good of a scenario as an archery hunter can practice and hope for, and it appeared he wasn’t going to run too much further.

We didn’t want to celebrate too much yet, but an immediate wave of excitement brought us to an emotional embrace that summed up the months of preparation leading to this moment—the practice shooting sessions in our yard, the instructional and inspiring videos, the 10.5-mile training hikes with 30-70 pound packs while pregnant.

All of it led us to this moment of success that we will both remember for the rest of our lives.

*Krista Larson is a fourth-generation Montana mama exploring nature and seeking new challenging ways to enjoy it and share it with the next generation.*