Lightning Speed: Wyoming’s Supercomputer

For news from your local cooperative, turn to the center of the magazine.

CO-OP SPOTLIGHT

DONNA & DANNY HANSON

Always Giving
FREE Voice Remote

“Tune to ESPN”

Voice Remote requires internet-connected Hopper.

TV Packages Built For You

FREE HD for Life
FREE Standard Professional Installation

AMERICA'S TOP 120
190 Channels $59.99/mo.
Local channels included!

AMERICA'S TOP 120 PLUS
190+ Channels $69.99/mo.
Even more sports and entertainment!

AMERICA'S TOP 200
240+ Channels $79.99/mo.
The best of America’s Top 120 Plus and more!

Smart HD DVR Included | 2-Year TV Price Guarantee

All offers require credit qualification, 2-year commitment with early termination fee, and eAutoPay. Prices include Hopper Duo for qualifying customers. Hopper, Hopper w/Sling, or Hopper 3 $5/mo. more. Upfront fees may apply based on credit qualification. Fees apply for additional TVs: Hopper $15/mo., Joey $5/mo., Super Joey $10/mo.

MULTI-SPORT PACK
Our Gift To You

Multi-Sport Pack included at no additional cost through 12/20 with packages starting at $49.99/mo.

CALL TODAY
You could be watching DISH tomorrow!
844-268-3128
or visit your local Authorized Retailer

*DISH Network received the highest score in the J.D. Power 2018 U.S. Television Service Provider Satisfaction Study of customer satisfaction with their current television provider. Visit jdpower.com/awards
Offer for new and qualifying former customers only.
Important Terms and Conditions: Qualification: Advertised price requires credit qualification and eAutoPay. Upfront activation and/or receiver upgrade fees may apply based on credit qualification. Offer ends 11/13/19. 2-year commitment. Early termination fee of $20/mo. remaining applies if you cancel early. Included in 2-year price guarantee at $59.99 advertised price: America’s Top 120 programming package, local channels, HD service fees, and Hopper Duo for 1 TV. Available with 2-year price guarantee for additional cost: Programming package upgrades ($69.99 for AT320+, $79.99 for AT3201, $89.99 for AT2503), monthly fees for upgraded or additional receivers ($5-$37 per additional TV), receivers with additional functionality may be $15-$97. NOT included in 2-year price guarantee or advertised price (and subject to change): Taxes & surcharges, add-on programming (including premium channels), DISH Package, and transactional fees. Other: All packages, programming, features, and functionality and all prices and fees not included in price guarantee are subject to change without notice. After 6 mos., if selected you will be billed $9.99/mo. for DISH Paktel Silver unless you call to cancel. After 2 years, then-current everyplay prices for all services apply. For business customers, additional monthly fees may apply. © 2019 DISH Network LLC. All rights reserved.
MK_24037
FEATURES

06 ECONOMIC BENEFITS
NIORARA ELECTRIC ASSOCIATION

07 CO-OP YOUTH
NIORARA’S TREvor MORAVA

12 CENTERPIECE
WYOMING’S SUPERCOMPUTER
BY ELIZABETH SAMPSON

22 CO-OP SPOTLIGHT
DANNY AND DONNA HANSON
BY GAYLE M. IRWIN

ESSAYS & ANECDOTES

04 WREA NOTES
AFFORDABLE CLEAN ENERGY
BY THE NRECA

18 HOME ON THE RANGE
CAT IN THE BOX
BY MEGAN BEAVERS

36 ENLIGHTEN US
OUR CODE OF THE WEST
BY WALT GASSON

FROM OUR READERS

08| COUNTRY COOKS
BAKE SALE

09| PEN TO PAPER
WILLOWS TO EACH OF YOU

25| WHAT’S HAPPENING
27| JUST PICTURE IT SKY

JUST FOR FUN

24| KIDS’ CORNER
CLOUDS

20| PUZZLE
LICENSE PLATE LINEUP
BY KELLY ETZEL DOUGLAS

21| BOOK REVIEW
THE BORDER WAR
BY RYAN THORBURN & ROBERT GAGLIARDI

COVER PHOTO ➸ The sun sets over the Absoraka Mountains in June.

PHOTO BY TODD HALL
The Trump administration recently issued a rule to reduce power plant carbon emissions. Known as the Affordable Clean Energy (ACE) rule, the new regulation will require power plants to work with state regulators to assess steps that can be taken to cut emissions through energy efficiency improvements. America’s electric cooperatives welcomed the new rule, noting that it is far preferable to an earlier and far costlier attempt to regulate carbon emissions that ultimately was put on hold by the Supreme Court.

“Electric cooperatives have invested billions of dollars in diverse energy sources and emission-reduction technology to meet the electricity needs of their local communities while protecting the environment,” Matheson said. “The ACE rule gives electric cooperatives the ability to adopt evolving technology and respond to market and consumer demands while continuing to serve as engines of economic development for one in eight Americans.”

Matheson stressed that the ACE rule will allow electric co-ops to ensure that affordable and reliable power remains available in Wyoming and the nation.

Power plant emissions have steadily declined due to market forces and evolving consumer expectations.

Nationally, nearly 60 percent of the electricity supplied by electric co-ops comes from low- or no-emission energy sources. Electric cooperatives have reduced carbon emissions 9 percent since 2009, even while increasing electric generation by more than 12 million megawatt-hours. And co-ops are investing in research to develop proven carbon capture, storage and reuse technologies that can extend the operation of coal-fueled power plants.

“Electric cooperatives work hard to minimize the cost of new regulations to reduce the impact on electric rates for their consumer-members. In this instance, the ACE rule is consistent with our mission to provide members with safe, reliable and affordable power, while continuing to reduce emissions and meet other important environmental goals.”
At Tri-State

Our cooperative approach to a clean grid starts now.

Learn how we’re transforming with our Responsible Energy Plan.

www.tristate.coop/responsibleenergyplan
The Niobrara Electric Association stays involved with our community through volunteering, sponsorships and scholarship awards. We participate in parades, fairs and the Legend of Rawhide. We also visit area classrooms to teach electrical safety.

**ECONOMIC BENEFITS**

**NIOBRARA ELECTRIC ASSOCIATION, INC**

**COUNTIES**

| CONVERSE, GOSHEN, NI OBRARA, PLATTE | 1.32 | 3,036 |
| METERS PER MILE | METERS SERVED |

The Niobrara Electric Association stays involved with our community through volunteering, sponsorships and scholarship awards. We participate in parades, fairs and the Legend of Rawhide. We also visit area classrooms to teach electrical safety.

**AT THE CO-OP**

| 17 | FULL-TIME EMPLOYEES |
| 23 | HOUSEHOLDS SUPPORTED |

| 26 | JOBS CREATED IN THE LOCAL COMMUNITY |
| $11,079,304 | SALES |

| $1,257,095 | PAYROLL |
| $1,859,530 | PERSONAL INCOME GENERATED |

**IN THE COMMUNITY**

| $2,305,214 | TOTAL DOLLARS FROM CO-OP TO COMMUNITY |
| $740,484 | | |

**CAPITAL CREDITS RETURNED TO MEMBERS**

**PROPERTY TAXES PAID**

**SCHOLARSHIP FUNDS AWARDED**

- **$1,257,095**
- **$1,859,530**
- **$492,730**
- **$72,000**

**ASSISTED LIVING**

**IN DUBOIS, WYOMING**

Living assisted on the Wind River – western style

59 miles from the entrance to Yellowstone

Privately owned, non-profit

Medicaid approved

10% monthly discount for private pay Veterans

Join us for: Bingo on Tuesdays – 8:30 to 8:00pm

“Happy Hour” on Fridays – 4:30 to 5:30pm

Want more Information? (307) 455-2645

5643 US HWY 26 • Dubois WY • warmvalleylodgewy.com
Wyoming’s rural electric cooperatives are proud to support our youth, giving college scholarships and lineman scholarships. In addition, our co-ops sponsor high school students on the D.C. Youth Tour in June and Youth Leadership Camp in July.

**TREVOR MORAVA**

**HOMETOWN:**  
Crawford, Nebraska

**HIGH SCHOOL ATTENDED:**  
Crawford High School

**YEAR OF GRADUATION:**  
2018

**COLLEGE:**  
Western Nebraska Community College

**MAJOR STUDY INTEREST:**  
Powerline Construction and Maintenance

**WREN:** Tell us about your studies and interests.

**TM:** I am enrolled in Western Nebraska Community College for powerline construction and maintenance, with an intention of graduating with honors with the associate of applied science degree. A couple of my interests are welding and playing golf. Welding was one of my favorite subjects in high school. I helped create a custom-made grill, four-wheeler ramps and a plethora of other projects. I still have the privilege to help my dad at home by welding on hay feeders and other equipment. I golfed in high school as well; I was good enough to place 10th in districts my senior year, which earned me a place in the state tournament. I still golf today, with my dad and my friends, playing courses all around the Crawford area.

**WREN:** How have your hometown, family and/or friends influenced you?

**TM:** My family has influenced me in many ways, my parents are hardworking people, they have always gone the extra mile in their lives. They taught me the value of an honest living, and how to get the job done right. My friends have always pushed me in school; we always wanted to be the best in the class, so we took the hardest classes, did all of the extracurricular activities, and still were the top in the class. Advanced chemistry and pre-calculus were no problem for us.

**WREN:** What are your plans for the future?

**TM:** After graduation, I plan to get a job with a utility company where I can travel all over the United States and become part of the restoration workforce after natural disasters. After traveling the United States, I hope to settle down and become a line superintendent.

Interested in applying for a scholarship, D.C. Youth Tour and/or Leadership Camp? Contact your local rural electric cooperative! See the insert in the center of the magazine for contact information.
RODEO REPRESENTATION
Wyoming Rural Electric Association Executive Director Shawn Taylor stands with Sens. Mike Enzi, left, and John Barrasso, right, during the Cheyenne Frontier Days Parade on July 20. Part of Taylor’s job is to work with state and federal lawmakers. Taylor is also a long-time volunteer for the rodeo in Cheyenne.

TRANSFORMATIONS
A sunflower grew up between two transformers in Niobrara Electric Association’s pole yard. Electric utilities use transformers to provide a useable level of power to members’ homes and businesses.

Co-op Summer
CO-OPS AT THE FAIR

Wyoming’s rural electric cooperatives are proud to take part in the Wyoming State Fair. In August, cooperatives took turns working the booth at the fair, handing out water and giving safety demonstrations.

When your patients come first, the rest will follow.

This award recognizes Cheyenne Regional’s commitment to ensuring heart failure patients receive the most appropriate treatment according to nationally recognized, research-based guidelines, with the goal of speeding recovery and reducing hospital readmissions for heart failure patients.

Cheyenne Regional Medical Center
We Inspire Great Health!

214 E. 23rd St.
Cheyenne, WY 82001
cheyenneregional.org
Wyoming drivers can now choose a standard plate or apply for specialty plates. Plates available include:

- **PRESTIGE PLATES**
- **RADIO AMATEUR**
- **FORMER POW**
- **PEARL HARBOR SURVIVOR**
- **DISABLED VETERAN**
- **NATIONAL GUARD**
- **PURPLE HEART RECIPIENT**
- **FIREFIGHTER**
- **EMT**
- **UNIVERSITY OF WYOMING VETERAN PLATES**
- **EMBOSSED PLATES**
- **GOLD STAR PLATES**
- **CHOICE DISABLED VETERAN PLATES**
- **TRIBAL PLATES**
- **WILDLIFE CONSERVATION PLATES**
- **PIONEER**
- **STREET ROD & CUSTOM VEHICLE**

Before 1913, automobile owners made their own license plates from whatever materials they wanted to use. This plate is made of leather with metal numbers. It belonged to a Cheyenne resident who may or may not have been celebrating Wyoming’s place as the 44th state admitted to the union.

The first official license plates had a state seal on the front. The seal, often subject to theft, was on license plates until 1917.

During World War II, metal shortages led states to look for alternative materials for license plates. The 1944 plate was made of soy and was sometimes chewed on by ranch cattle, Eccli said.

The Wyoming Centennial license plate could legally replace the front plate in 1990.
Folk Art Mentoring Project Grants are designed to support the continuation of Wyoming’s folk and traditional arts through the natural process of in-person, hands-on instruction. A master artist selects a worthy apprentice from their community to mentor over the course of the project in order to advance the skills of the apprentice in their traditional art form.

“The Mentoring Project Grant is a unique program, because it allows us to both honor the masters of these traditional art forms that we have in Wyoming, while also supporting the conservation of those art forms,” said Josh Chrysler, Folklorist for the Wyoming Arts Council. “Many art forms are taught and learned through formal or academic processes like MFA programs. However, folk and traditional arts are typically learned through more informal processes such as observation, imitation, and one-on-one apprenticeships. The Folk Art Mentoring Project Grant is designed to create opportunities for those informal, grassroots learning experiences where these art forms are best learned and maintained by the communities from which they come.”

The FY2020 Mentoring Project Grant recipients are: Marcus Dewey of Arapahoe teaching James Dewey of Casper the art of Northern Arapaho beadwork and war shirt making; Darrell Lonebear teaching Koleton Lonebear, both of Fort Washakie, Northern Arapaho sweat lodge songs; Jack Mease teaching Soleiana Abernathy, both of Lander, the art of rawhide braiding; and Andy Stevens teaching Dusty Smith, both of Buffalo, the art of Western saddle making and leather carving.

The Wyoming Arts Council has awarded the 2020 Folk & Traditional Arts Mentoring Project Grants.

More Services in More Places
With 8 locations it means your membership with Meridian Trust can do more for you.

Meridian Trust
FEDERAL CREDIT UNION
MyMeridianTrust.com | 800.726.5644
Lightning Speed: Wyoming's Supercomputer

By Elizabeth Sampson
EXTREME WIND AND BLOWING SNOW ARE COMMON SITUATIONS ON WYOMING’S INTERSTATE 80, BUT THANKS TO WORK BEING DONE WITH THE SUPERCOMPUTER LOCATED NEAR CHEYENNE, SOON WYOMING DRIVERS COULD HAVE THE ABILITY TO SEE JUST WHAT THE WEATHER WILL BE LIKE ON EACH MILE OF THE ROAD UP TO 36 HOURS IN ADVANCE.

This project is one of several that are being conducted in cooperation between researchers at the University of Wyoming and the supercomputing facility located just west of Cheyenne – the National Center for Atmospheric Research (NCAR) Wyoming Supercomputer Center (NWSC).

NCAR, located in Boulder, Colorado, is a lab where scientists study the earth, the oceans and air. They use the supercomputer located in Wyoming to process their data.

“It takes the raw data and processes it into meaningful data that the scientists can use,” said NWSC operations manager Gary New. Having worked for NCAR for nearly 19 years, New was part of the team when they first started planning the facility in 2003. Knowing how huge the system would be, NCAR solicited partners to work with them. Several partners, including UW and the state of Wyoming, came on board.

According to Suresh Muknahallipatna, a professor and graduate coordinator of the Department of Electrical and Computer Engineering at UW and the liaison between UW and NCAR, the initial cost of the facility was $70 million. NCAR contributed $50 million, and the state of Wyoming gave $20 million. Now the state and the University of Wyoming together pay $1 million per year to use a portion of its computing ability – to the benefit of UW researchers.

The supercomputer in Wyoming came online in 2012 and was called Yellowstone. The first upgrade, which occurred in 2017, was named Cheyenne. The next upgrade is anticipated in 2021.

Muknahallipatna said Yellowstone had a capacity of 600 million core hours. Of those 600 million, UW had access to 75 million for research purposes, which was about 12.5 percent of the available core hours.

With Cheyenne, the capacity doubled to 1.2 billion core hours, of which UW uses 160 million. This is about 14 percent of what the supercomputer provides.

With that available computing capacity, UW researchers are able to do scientific research on things like improving the efficiency of wind turbine performance or predicting the flow of fluids and contaminates in aquifers.

“The research we do has an effect on common life,” said Muknahallipatna. “When we do prediction of snow and wind events – that affects the common man’s life. There are impacts that may not be obvious, but it is benefiting them.”

Someone with knowledge of both sides of this partnership is Jared Baker. Not only did he graduate with a master’s degree in mechanical engineering from UW, he went on to have an internship at NCAR through Summer Internships in Parallel Computational Science (SIParCS) and now works in the Computational Information Systems Laboratory at NCAR.
CAR provides really great computational capability for the UW research community where faculty and students can really gain some powerful insights on their research," Baker said. "UW provides a great stream of students as well to NCAR for programs like the SIParCS programs that allow the students to get a nice exchange of viewpoints while both sides receive very useful knowledge transfer from each other."

Having access to the supercomputer makes the extreme computational load their projects require possible. A simple desktop computer does not have the memory or speed needed for the projects.

"Imagine you are building a house," Muknahallipatna said. "Instead of one worker, you use 100 workers who are working at the same time to complete the structure. At the same time, you need to make sure they all need to work without impeding other workers.” That’s how a supercomputer works.

"Wyoming is well known for blowing snow," Geerts said. "It is remarkable how it is more common in Wyoming than anywhere else in the country. Southern Wyoming especially is worse with the frequency and intensity of blowing snow."

Using the supercomputer for high-resolution weather simulations will allow these researchers to determine when and where travelers can expect snowfall to suddenly and dramatically reduce visibility as many as 36 hours before they happen. This research is being funded by the National Oceanic and Atmospheric Administration.

Part of their work will be developing an app that will show a color-coded map for severe weather. Much like Google Maps currently can show where there is traffic congestion, their road conditions map will show exactly where and when bad weather is expected.

Geerts said the map will be very specific, allowing users to zoom in to a particular mile or even half-mile stretch.

"We wouldn't be able to do it without the supercomputer," Geerts said. "This changes the game."

Though they are fairly early into the three-year project, Geerts said it is possible a pilot version of the app may be available in 12-24 months.

"By the end of the three-year period, we should have something that stands on its own and will be maintained and used by the National Weather Service as a tool," Geerts said. "If we succeed, it should be publicly available in a three-year period."
Supercomputers are simply the fastest computers available.

It takes about 1.5 megawatts – or 1.5 million watts – to power the supercomputer.

NCAR chose Wyoming for the supercomputer because the weather is typically cool and dry, which is conducive to cooling the system. This is important because the natural by-product of computing is heat.

Yellowstone – the first generation of the supercomputer in Wyoming – had a speed of 1.5 petaflops, or 1.5 quadrillion floating points per second. The second generation of the computer – called Cheyenne – operates at 5.34 petaflops. This is three times the computer for the same power bill.

Anyone can tour the computing facility. There is a self-guided tour in the Visitor Center with interactive exhibits all ages can participate in. To take a guided tour of the computer itself, visitors must be 14-years-old or older.

To schedule a tour, visit supercomputer.appointlet.com.
This won’t be the first supercomputer-aided project Geerts has participated in. He also used the NWSC to study how the snowpack over the mountains can be expected to alter in a changing climate and how that will affect the spring runoff that provides water for many people in Wyoming. Studying regional climate changes in Wyoming and much of the west and the changes in snowpack over the last 30 years allowed them to then predict snowpack change through 2050 by utilizing the significant computational power of Cheyenne.

Ye Zhang, who is a professor of hydrology in UW’s geology and geophysics department, is also using the supercomputer to solve water problems. She studies fluid flow and contaminant migration in aquifers. After collecting data such as aquifer water levels and the concentrations of confirmed contaminants, she builds a computer model to determine what is happening everywhere in the aquifer – not just at the limited sampling locations. The model can be used to explain the history of contamination in the aquifer, and it can also be used to predict what will possibly happen within the aquifer in the future.

Using the supercomputer to process this data allows Zhang to efficiently solve the millions of equations embedded in the model that are required to gain knowledge about the aquifer. Zhang explained that a regular personal computer doesn’t have enough memory to solve that many equations.

Knowing what is likely going to happen to the aquifer in the future helps researchers know how to develop a decontamination strategy. The speed at which the supercomputer can solve the equations will help protect water resources.

“We can solve these models very efficiently and very fast – managing and protecting the resources we have,” Zhang said. “The method we develop can be used to solve problems in Wyoming as well as elsewhere.”

She explained that when contaminated groundwater makes its way down through the permeable layers of the earth into an aquifer, it can be very costly and difficult to clean up.

“Without clean water we as a civilization cannot exist,” Zhang said. “We must therefore protect these resources and manage them scientifically. We need to understand where and how things are happening. By developing aquifer models, I believe my research will contribute to the well-being of society.”

Elizabeth Sampson lives in Cheyenne with her husband and two young daughters.
Together, we are planting the seeds of progress. Learn more about how your local electric cooperative is leading the way to a smart, efficient and responsible energy future.
Cat in the box

I was called to a house one summer afternoon to check on a found cat. The residents had just purchased the property and with it came a hoard of feral and semi-feral barn cats. When I arrived, there was a large cardboard box taped shut in the middle of the living room. In the box was a scared and untouched diluted tortoiseshell cat. Her pupils where huge and she was crouched at the bottom of the box as low as she could go.
Cats are superior creatures when it comes to healing: I see cats who have survived some alarming injuries go on to live happy lives.

I gently lifted her out of the box and onto the floor to see what we were dealing with. She was warm to the touch. It was clear why; her shin bone was sticking out of her skin and the leg was clearly very broken. Any time a bone is outside of the body the risk of infection is very great – and it appeared that the bone was indeed infected.

The couple didn’t really want to keep the cat and asked if I could keep her. I’m full. But being the kind of person I am, I agreed to take her and get her well then find her a forever home. She seemed like a very sweet kitty. I placed her back in the box and headed back to the clinic.

After medicating her for pain and infection and giving her a good meal and night of rest, I sedated her for X-rays to see the extent of her injuries. The known broken leg was shattered close to her ankle joint and she also had several fractures in her pelvis. An infected fracture like this isn’t a great candidate for surgery, and with the break so close to a joint, it would be very hard to place any hardware. The pelvic fractures were displaced slightly but weren’t freely moveable and seemed the least of the concern. My boss recommended euthanasia for this stray.

With a wing and a prayer, I decided to try to apply a light cast around the break and continue the medications to control infection. Cats are superior creatures when it comes to healing: I see cats who have survived some alarming injuries go on to live happy lives. In the worst case, if I tried and if she didn’t do well, we could amputate the leg and still find her a home.

She went home with me for her recovery and stayed in the mudroom in a large dog crate. It wasn’t long before she warmed up to domestication, was eager to see me and began purring. My husband is ever creative and decided to name her Cali Hip. She was a calico with a broken hip – a literal namesake. We compromised and merged things to Cali-hip. Calypso was named. Of course, with a name and a prolonged stay in my house, she found her forever home.

In retrospect, it was a great turn of fate that Calypso stayed with us. The leg healed well, albeit in a slightly lumpy way, she can walk and run just fine. The pelvis on the other hand shifted and made the diameter of her pelvis half of what a normal cat would have. This wasn’t a problem at first. Occasionally she would be unable to go to the bathroom, but a few days of medications and she would work things through. However, it soon became clear that it wasn’t going to be easy: her constipation episodes were getting more and more frequent. They required me to put her under general anesthesia and manually evacuate her. The first times went off without a hitch.

After one episode, she became dehydrated and went into acute kidney failure. Another stay in the mudroom dog crate on IV fluids and different medications and she was back to normal. A few months later, my new assistant wasn’t monitoring closely and Calypso received too much fluid. The weakest point in the body when this happens is the lungs; they can’t handle the increased pressure. I noticed Calypso breathing funny and soon after blood began to come out of her lungs. Some emergency medications pulled the extra fluid from her lungs and she seemed to be okay. But as a complication her lung collapsed and compromised her ability to breathe.

I had never placed a chest tube on a living animal up until this point, and now I needed to intubate my own cat, who I injured in the first place by not monitoring the nurse. With the guidance of a talented classmate, the procedure went perfectly. It shot my nerves but saved my cat. Back to the mudroom kennel again she went for several days with a chest tube.

Through every episode of manual removal, needle pokes and near-death experiences, Calypso remained sweet and loving. A very expensive and miraculous food is all she needs now to keep herself regular. We are going on about two years without an episode of constipation or needing extra medication.

The cat in the box that I had intended to make well and find a home, stayed. She is down a few of her nine lives and in turn I am up a few experiences. I’m thankful I gave her a chance at life out of the box.

Dr. Megan Beavers is a veterinarian in Farson.
LICENSE PLATE LINEUP

When did you pick up your first license plate? Fifty years ago? Twenty years ago? 2019? Wyoming has changed the look of license plates at least 13 times since 1969. Match the plate with the correct year and keep your registration current.

Want to know more?
Go to Cowboy Buzz Trivia on page 10.

Spinning your wheels?
Stop at page 35 for the answers.

BY KELLY ETZEL DOUGLAS
ENTRIES DUE BY OCTOBER 10

One entry per household, please.

BY RYAN THORBURN & ROBERT GAGLIARDI

ORDERING INFORMATION:
2018 | 164p. | $22.00
ISBN: 978-0989724289
Publisher: Burning Daylight
Available online and at local bookshops in Laramie and Cheyenne.

The BORDER WAR
THE BRONZE BOOT RIVALRY BETWEEN COLORADO STATE AND WYOMING

Description by Ryan Thorburn

The Border War football series between Colorado State and Wyoming is defined by its longevity, proximity and one of the more unique traveling trophies in sports. The universities, separated by only 65 miles, have battled on the gridiron for the iconic Bronze Boot, which was an actual combat boot worn by a military member in Vietnam.

This book covers the history of the rivalry, from its controversial beginning in 1899 through the snowy battle for the boot in 2017. The Border War combatants agree to disagree on the all-time series ledger, but both sides have enjoyed their share of legendary coaches, players and victories over the decades.

The Border War classics — from the Bounce Pass, to the Brawl, to the Drive — are chronicled in this must-own book for all fans of the Rams, Cowboys and college football history.

To purchase a signed copy, call 307-755-3325, email gagliardi.robert06@gmail.com or mail Border War, 1666 Irma Court, Laramie, WY 82070.

WIN A FREE COPY OF THE BORDER WAR

ENTER TO WIN

BORDER WAR
c/o WREN Magazine
214 W. Lincolnway
Ste. 21C
Cheyenne, WY 82001
wyomingrea.org/wren-submissions

JULY’S BOOK WINNER:
VICKY WARRE OF GILLETTE

ENTRIES DUE OCTOBER 10
One entry per household, please.
Always Giving: Family Serves Niobrara Community

BY GAYLE M. IRWIN

Hard working. Humble. Generous. These are just a few words people in the Lusk area use to describe Donna and Danny Hanson.

“They are very good people. They are involved in a lot of community service,” Andy Greer said. Greer is a Niobrara Electric Association board member, and represents the co-op on the Wyoming Rural Electric Association’s board of directors.

“The summer we had the grass fires, Donna made meals for the firefighters,” his wife Brenda Greer added.

The Hansons live on the family ranch 30 miles north of Lusk. Danny’s grandparents established the property in 1905, and though he grew up in the Kaycee area, he returned to the ranch and is now sharing the land with his own sons. The family has made a positive impact on their community.

For example, the Hansons began hosting classroom field trips in the late 1990s, inviting students and teachers to come and learn about ranching and nature. Although they’ve hosted several grade levels, the primary focus is now fifth grade.
“I show them the cycle of trees, including the rotting logs, and we get into soils and smaller animals,” Danny said. “My son and I take them on a grass tour, where we do grass identification and tell them what the grasses do. We also do a fun thing where they guess the height of a tree by doing triangulations of tree shadows.”

He and his family enjoy sharing their knowledge and life’s work with children.

“We love being around kids and doing things with them. When you’re running a ranch, you’re always teaching,” said Danny. “It’s amazing even in Lusk how detached people are from the country.”

“I love working with kids and giving back and hopefully being able to teach them life skills,” added Donna, a former educator and former school board member.

THE QUEALY AWARD
That community service spirit brought recognition to Donna earlier this year. She was bestowed the Quealy Award for Niobrara County, an annual honor given to four women by Wyoming Homemakers, part of the University of Wyoming Extension.

“This is the highest honor a homemaker can achieve,” said Denise Smith, University of Wyoming Extension educator. “The award rotates through the counties; this was the year for Niobrara County.”

Donna and Danny traveled to Cheyenne in June for a special ceremony honoring her recognition.

Donna was recognized for her many years of community service, including participation in Wyoming Homemakers for 38 years. She has also chaired the local Homemakers’ Christmas Bazaar for more than 25 years, and for the past two years, she’s chaired the Homemakers’ Secret Santa workshops at which local youth make Christmas presents for community members who are alone during the holidays. She was also recognized for her work as a 4-H leader, a role she’d held for more than three decades. Her passion for sewing and quilting has been passed on to several generations of 4-H members.

“Donna is creative,” said Denise, who has known Donna since the two attended college during the 1970s. “She makes quilts for nearly every event.”

Brenda Greer agreed.

“Whenever there is a benefit for someone, she makes a quilt.”

LIFTING THE COMMUNITY
The Hansons are involved with other activities, including the production of The Legend of Rawhide, a 200-person re-enactment of a legend about a wagon train. The entire family participates as do many county residents.

Donna helps Denise with 4-H programs.

“She is a person I rely on a lot. She helps me with [program] ideas – she is very helpful to me,” Denise said. “It’s an honor and a privilege to know her.”

Donna also coordinates a program to help the schools. The ranching community comes together to donate meat to the lunch program.

“The area ranchers band together to provide beef for the school lunch program, and I coordinate that to make sure they have a continuous supply,” Donna said. “It works very well.”

Active in Niobrara Cattlewomen, she served for a several years as chairperson for the annual Ag Expo. Conducted for third and fourth graders, the Expo’s purpose is to teach youngsters about the important role that agriculture plays in daily living.

A WONDERFUL WAY OF LIFE
Being part of the agriculture community and living on the family ranch are important to Donna and Danny.

“We love living out on the ranch and the challenges of the business, and freedom to be out here in the wide-open spaces and with the livestock and the horses,” said Danny. “It’s a wonderful way of life.”

“And we get to breathe good, clean air and see beautiful wildflowers,” Donna added.

Despite the busyness of operating a cattle ranch of several hundred head, the Hansons find the time to actively engage with their community.

“We just try to make time. We just try to make things work,” Donna said.

Their commitment to each other, their family, their land and their community does not go unnoticed … or unappreciated.

“They are always giving, and they often spearhead an event,” said Andy Greer.

“People like Donna and Danny make our county and Wyoming a great place to live,” Denise said.
There’s hardly a better way to spend a summer day than looking at clouds in the sky above you. Not only might you see bears and monsters and the faces of friends, but you might learn what tomorrow’s or this afternoon’s weather will be.

**Clouds**

**WHERE DO CLOUDS COME FROM?**

Clouds are formed when water condenses (forms droplets) onto dust or other small particles in the air. Condensation occurs as air cools, forcing the vapor to become liquid. In winter, and very high in the sky, the vapor may condense as ice instead. Air cools when it is forced upward, which can happen several different ways, and the way it happens leads to different types of clouds. For example, when warm air is blown up the side of a mountain, stratus and cumulus clouds may form. The scariest clouds, the ones that cause severe thunder, lightning, hail and even tornadoes, called cumulonimbus, are formed when air gets heated by the sun, causing it to become lighter (less dense), and rise.

**CLOUD NAMING**

Clouds can be categorized by how high they are the in sky and what they look like. These word roots can be combined to name the common cloud shapes and knowing the common clouds will help you predict the weather.

1. **“Cumulo” or “Cumulus”** - Puffy (like cotton candy) clouds
2. **“Strato” or “Stratus”** - Evenly-colored smooth clouds
3. **“Cirrus” or “Cirro”** - Thin, very high clouds, made of ice crystals
4. **“Alto”** - Midway between the lowest clouds and the cirrus clouds
5. **“Nimbo” or “Nimbus”** - Rain clouds

**PREDICT THE WEATHER!**

- **Altostratus** clouds (evenly colored, smooth, mid-high) could mean rain or snow the following day. If the cloud gets thicker, darker, and starts to rain, it’s called **nimbostratus**.
- **Altocumulus** clouds are fair weather clouds, but beware – they may grow up to become **cumulonimbus** clouds in the afternoon!
- **Cirrocumulus** clouds, on the other hand, mean fair, but cold, weather ahead.

**CAN YOU FIGURE OUT WHAT A CLOUD THAT IS LOW, SMOOTH ON THE BOTTOM AND PUFFY ON TOP WOULD BE CALLED?**

*Stratocumulus!* But give yourself a point if you guessed **cumulostratus**.
BAKE SALE

STATE FAIR GIANTS

1 CUP BUTTER
3/4 CUP PLUS 2 TBSP SHORTENING
1 CUP SUGAR
1 CUP PACKED BROWN SUGAR
1/2 TSP SALT
2 TBSP VANILLA
2 LARGE EGGS
2 TBSP WARM WATER
2 1/2 CUPS FLOUR
2 1/2 CUPS CAKE FLOUR
1 1/2 TSP BAKING POWDER
2 1/2 TSP BAKING SODA
2 CUPS MINIATURE CHOCOLATE CHIPS OR MINI M&M’S, REFRIGERATED

Preheat oven to 350 degrees. In large bowl, cream butter, shortening and sugars. Add salt, vanilla and eggs. Cream well. Add water; mix about 15 seconds, scraping sides of bowl.

In separate bowl, combine flours. Sift baking powder and baking soda into flour mixture. Add flour mixture into creamed mixture, just until incorporated. Stir in chocolate chips or mini M&M’s. Dust hands lightly with flour, if needed, and divide dough into 16 equal rounds. Press each round into a patty, much like a hamburger patty. Place about four patties on a lightly greased cookie sheet. Cookies should measure about 5 inches in diameter. Bake 10 minutes or until cookies are light brown. Makes 16 cookies that can be individually wrapped for sale at a bake sale.

ANNE METZLER ★ RIVERTON

BRAN AND DATE MUFFINS

1 CUP BRAN
1 CUP BUTTERMILK
1 LARGE EGG
3/4 CUP APPLESAUCE (OR CANOLA OIL)
1/2 TSP BAKING SODA
1/3 CUP WHITE SUGAR
1/3 CUP PACKED BROWN SUGAR
1 CUP FLOUR
2 TBSP BAKING SODA
1 TBSP BAKING POWDER
1/2 TSP SALT
3/4 CUP PITTED AND CHOPPED DATES

Preheat the oven to 350° degrees. Spray a 12-count muffin tin with oil.

Mix bran and buttermilk together in a large mixing bowl, let it rest for 15 minutes. Combine the sugars, flour, salt, baking soda and baking powder in a small bowl.

Add the egg, applesauce and vanilla to the bran and buttermilk, mix well. Stir in the chopped dates, then add the dry ingredients and mix well. Divide by scooping or pouring the batter into the sprayed muffin tin.

Bake for 25 minutes or until an inserted toothpick comes out clean. Let the muffins cool in the pan for 10 minutes. Remove muffins from tin and cool on cake rack, or eat them warm with butter. Makes 12 muffins, recipe may be doubled.

BETSY JENSEN ★ POWELL

NOVEMBER:

POTLUCK

Send complete recipe by October 10!
Please include your name, address and phone number.

wren@wyomingrea.org | (307) 772-1968
214 W. Lincolnway Ste. 21C Cheyenne, WY 82001
wyomingrea.org/wren-submissions
**PURPLE RIBBON COFFEE CAKE**

**BATTER MIXTURE:**
- 1 pkg yellow cake mix
- 3/4 cup water
- 3/4 cup salad oil
- 1 pkg instant vanilla pudding
- 4 eggs
- 1 tsp vanilla
- 1 tsp butter flavoring

**SUGAR MIXTURE:**
- 1/2 cup nuts
- 1/4 cup sugar
- 2 tsp cinnamon

Pour half of the batter into a greased and floured angel food pan. Sprinkle half of the sugar mixture over the batter. Add the rest of the batter and sprinkle the remaining sugar mixture on top of batter. Bake 40 minutes at 350 degrees. Cool in pan, do not invert.

**BEST BARS EVER**

**1 PKG (18.25 OZ) WHITE OR YELLOW CAKE MIX**

**2 EGGS**

**1/3 CUP VEGETABLE OIL**

**1 CAN (14 OZ) SWEETENED CONDENSED MILK**

**1 CUP SEMISWEET CHOCOLATE CHIPS**

**1/4 CUP BUTTER, CUBED**

In a bowl, combine the dry cake mix, eggs and oil. Press 2/3 of the mixture into a greased 13x9 inch baking pan. Set remaining mixture aside.

In a microwave safe bowl, combine the milk, chocolate chips and butter. Microwave uncovered on high for 45 seconds, stir. Microwave 45-60 seconds longer or until chips and butter are melted. Stir until smooth. Pour over crust. Drop teaspoonfuls of remaining cake mixture over top.

Bake at 350 degrees for 20 to 25 minutes or until lightly browned. Cool before cutting into bars.

**PEANUT BUTTER TOFFEE BARS**

**1 CUP PEANUT BUTTER**

**1 CUP BROWN SUGAR**

**1 EGG**

**1 TBS VANILLA**

**1 TSP BAKING SODA**

**3/4 CUP HEATH TOFFEE BITS**

**1/2 CUP CHOCOLATE CHIPS**

Preheat oven to 350 degrees. In a mixing bowl combine peanut butter, sugar, egg and vanilla until fully incorporated. Beat lightly until just blended (do not overmix). Mix in baking soda. Add toffee bits and chocolate chips. Line a 9x9 inch pan with foil, pour mixture into pan and smooth with spatula. Bake for 20-22 minutes, cool and cut into bars. We find they are best enjoyed straight from the freezer, or microwaved for a few seconds.

**WAFFLE IRON CHOCOLATE COOKIES**

**1 1/2 CUPS SUGAR**

**1 CUP BUTTER**

**1/2 CUP COCOA**

**2 CUPS FLOUR**

**2 TSP VANILLA**

**4 EGGS**

Cream butter and sugar. Add remaining ingredients, mix well. Bake in a waffle iron.
In spring when winter’s snow would melt
The creek would overflow
And spread across the meadowland
Down where the willows grow

This made a perfect swimming hole
When summer days were slow
We boys would come and congregate
Down where the willows grow

Come fall I always loved to hunt
I’d take my trusty bow
With arrow knocked I’d stalk the coon
Down where the willows grow

In wintertime with gun in hand
Through freshly fallen snow
I’d follow wily coyote’s track
Down where the willows grow

Since I have aged my thoughts return
To many years ago
And all the pleasant hours spent
Down where the willows grow

If I could be a boy again
The first place I would go
To find that peace I left behind
Down where the willows grow

TO EACH OF YOU

As days go by at lightning speed,
we gather our possessions, things we need.
Some items have value to us alone,
little things that make a house a home.

Then comes a time when it’s right to say
who’ll treasure these things on our judgment day.
To all of you, the following I leave,
to comfort you so you will not grieve.

The feeling of freedom from a saddle squeak;
the joy in the freshness of a pure cold creek.
The calmness that comes from the smell of sage;
the wisdom and patience of a golden age.

My love for “critters,” both large and small;
a heart which has compassion for all.
A smile and a laugh for a funny cartoon;
a commanding presence when you enter a room.

Appreciation for a beautiful tree;
the love of nature so special to me.
The desire to learn and the nerve to try;
the courage to help and not just stand by.

Love for each other like I’ve given to you;
an adventuresome spirit to greet each day anew.
The peace and joy that a spur jingle brings;
the fresh happy spirit of a bird when it sings.

So do not weep on my funeral day.
Remember the riches I’m sending your way.
Treasures to keep, memories to store,
to keep us close till we’re together once more.

Laurie Martin Harvey ♦ Thermopolis

We share a selection of WREN readers’ creative writing (poems, limericks, haiku, short verse, and prose) every issue as space and content allow. To be considered for publication, please include the author’s consent to be submitted, his or her mailing address, and confirmation that the work has not been published elsewhere. If you would like us to return your work, include a self-addressed, stamped envelope.
WHAT'S HAPPENING

COUNTRY: WYOMING

DATE: SEP 20 – OCT 20

NORTHEAST

CLEARMONT

SEPTEMBER 29
Clearmont Community Center
Foundation Dinner and Auction:
Pork rib dinner, bring a pie or dessert.
5:30p, Community Center basement,
$10/plate.

ONGOING
Historical Center: Center open Thu
2-4p, 1250 Front St, free. Historical
Group meets 2p first Mon of the
month at Clearmont Library, 1p third
Mon of the month at Sheridan Library,
info 307-758-4430.

GILLETTE

SATURDAYS THROUGH OCTOBER 12
Farmers' Market:
Fresh vegetables
and other market items direct from
local farmers, ranchers, producers
and artisans. 8a-12:30p, Gillette Tech
Center parking lot, info on Facebook.

SEPTEMBER 21
Dear Folks: Letters Home From
WWII: Closing event program 11a, 2p,
Rockpile Museum, free, info ccgov.net/

SEPTEMBER 28
Northeast Wyoming Archaeology
Fair: Experience the science of
archaeology in Wyoming and try
your hand at prehistoric ways of life.
10a-3p, presentations at 11a and
2p. Rockpile Museum, free, info on
Facebook.

HULETT

ONGOING
Hulett Museum and Art Gallery:
8a-4p Mon-Fri, free, info 307-467-5292.

SOUTHEAST

CENTENNIAL

WEEKENDS IN SEPTEMBER
Nici Self Museum: Open 12-4p, info
307-745-3108.

CHUGWATER

SEPTEMBER 20 & OCTOBER 18
Songwriting Contest: Win a free buffet
and a chance at the $500 grand prize
during finals Nov 15. Open mic to follow
performances. Stampede Saloon, info
307-422-3200, stampedefun@aol.com.

ENCAMPMENT

ONGOING
Grand Encampment Museum: Main
Gallery and GEM Store open Mon-Fri
10a-4p, info 307-327-5308.

SARATOGA

WEDNESDAYS TO OCTOBER
Farmers’ Market and Craft Fair: Fruit
and vegetables from the Boykin’s
orchard in Colorado, food trucks, local
artists and other hand-crafted goods.
3-6p, Saratoga Museum, info 307-326-
5511.

WHEATLAND

SATURDAYS THROUGH SEPTEMBER
Platte County Farmers’ Market:
Produce, eggs, raw milk, baked goods,
meat, crafts and more. 7:30-10a, Pocket
Park, info 307-331-9502.

FEATURED EVENT

OCT 13 ★ 6PM ★ GILLETTE
Grammy Award Winner and Two-Time Emmy
Nominee comes to Gillette as part of his
Smithsonian Folkways Tour for his solo album
titled Dom Flemons presents Black Cowboys.

The concert will shed light on the music, culture,
and the complex history of the golden era of the
Wild West. The songs and poems featured in
this concert will take guests on an illuminating
journey from the trails to the rails of the old
west, following the footsteps of the thousands
of African American pioneers that helped build
the United States of America.

CAMPBELL COUNTY HIGH SCHOOL, FREE
INFO ON FACEBOOK

COURTESY OF CAMPBELL COUNTY ROCKPILE MUSEUM
**LUUK**

**OCTOBER 6**

**Big Bucks Bingo:** Doors open at noon for lunch, bingo starts at 1p. Niobrara County Fairgrounds, info 1-800-223-LUSK.

**MOORCROFT**

**ONGOING**

**Library events:** Story hour 10a Wed; Book club 1p third Thu and 6p fourth Tue. Info 307-756-3232, moorlibrary@rtconnect.net.

**SHERIDAN**

**SEPTEMBER 20**

**Dominic Cheli in Concert:** Pianist performs. 7:30p WYO Theater, $19, $17 senior and military, $12.50 student. Info 307-672-9084, wyotheater.com.

**SEPTEMBER 27**

**Rachel Bergman Flute Recital:** Sheridan college faculty member will play for the public. 7p, Whitney Center for the Arts, free. Info 307-675-0360, whitneyarts@sheridan.edu.

**SEPTEMBER 28**

**Lyle Lovett and his Acoustic Group:** 7:30p, WYO Theater, $92, info 307-672-9084, wyotheater.com.

**OCTOBER 4-6**

**WYO Film Festival:** Filmmakers and audiences gather to connect and watch independent films. Info 307-675-0360, sheridanwyofilmfest.org.

**UPTON**

**OCTOBER 10**

**Chamber of Commerce Meeting:** 12p, Remy’s, info 307-467-2642.

**MONDAYS & THURSDAYS**

**Zumba:** 4p, Senior Center, $5, info 307-391-0223.

**TUESDAYS & THURSDAYS**

**Indoor Archery:** 12-8:30p, 2741 N. Hwy 116, $5, info 307-468-2506.

**ALL YOU CAN EAT BUFFET:** Drives and desserts included, 5-8p, Upton Golf Course, $10, $7 seniors, info 307-468-2847.

**SUNDANCE**

**OCTOBER 5**

**Pumpkin Patch Festival:** Fall festivities take place in downtown Sundance. 10a-2p, Bearlodge Bakery, info 307-283-4020.

**OCTOBER 19**

**WYO Gala 2019, Catch Me if You Can the Musical:** 5:30p, WYO Theater, $110, info 307-672-9084, wyotheater.com.

**OCTOBER 20**

**Daniel Gwirtzman Dance Company:** Interactive performance and teaching event is designed to get everyone involved in the dance. 2p, Whitney Center for the Arts, $35, $25 seniors, $10 students. Info 307-675-0360, whitneyarts@sheridan.edu.

**WEDNESDAYS & THURSDAYS**

**Indoor Archery:** 12-8:30p, 2741 N. Hwy 116, $5, info 307-672-9084, wyotheater.com.

**WEST TEXAS TRAIL MUSEUM HOURS:** Mon-Fri 9a-5p. Info 307-282-0769, wttmdirector@rtconnect.net.

**ONGOING**

**Library Events:** Story time for toddlers and preschoolers 10:30a Wed; Lunch Bunch book discussion group 11a fourth Thu; Quilting @ the Library 6-8p last Mon. Crook County Library, info 307-283-1006 or crookcountylib@rangeweb.net.

**DUBOIS**

**OCTOBER 19**

**Halloween Pumpkin Carving:** Kids are invited to carve a provided pumpkin and enter it in the library carving contest. 1-3p, Dubois Museum, $4, free to kids, info 307-455-2284.

**LANDER**

**SEPTEMBER 21**

**Run Like a Bighorn:** 10k trail fun run benefit for Sinks Canyon State Park. 6a registration, 3079 Sinks Canyon Rd, $25, $10 kids, free to watch. Info 307-332-6333, sinkscanyonstatepark.org.

**SEPTEMBER 28**

**CWC Apple Orchard Trek:** Local expert will talk about apples and the state experimental farm that used to be at the site. 10a, meet at Pioneer Museum and bus to the ranch. $8, registrations required. Info 307-332-3373, fremontcountymuseums.com.

**LUSK**

**OCTOBER 6**

**Big Bucks Bingo:** Doors open at noon for lunch, bingo starts at 1p. Niobrara County Fairgrounds, info 1-800-223-LUSK.

**MOORCROFT**

**ONGOING**

**Library events:** Story hour 10a Wed; Book club 1p third Thu and 6p fourth Tue. Info 307-756-3232, moorlibrary@rtconnect.net.

**SHERIDAN**

**SEPTEMBER 20**

**Dominic Cheli in Concert:** Pianist performs. 7:30p WYO Theater, $19, $17 senior and military, $12.50 student. Info 307-672-9084, wyotheater.com.

**SEPTEMBER 27**

**Rachel Bergman Flute Recital:** Sheridan college faculty member will play for the public. 7p, Whitney Center for the Arts, free. Info 307-675-0360, whitneyarts@sheridan.edu.

**SEPTEMBER 28**

**Lyle Lovett and his Acoustic Group:** 7:30p, WYO Theater, $92, info 307-672-9084, wyotheater.com.

**OCTOBER 4-6**

**WYO Film Festival:** Filmmakers and audiences gather to connect and watch independent films. Info 307-675-0360, sheridanwyofilmfest.org.
**OCTOBER 5**
Percussive Art featuring Tattered Art Soldier Sounds: Lander’s Damien Ray performed for last year’s Gettysburg anniversary, he returns this fall with a new show. 7p, Pioneer Museum, free, info 307-332-3339.

**SUNDAYS**
Swing Dancing at the Coaler Loft: 6-9p, 126 Main St. Free, info 307-332-8228.

**RIVERTON**
**SEPTEMBER 27-29**

**SEPTEMBER 28**
J.B. Okie Manor Trek: Sheep rancher’s home is a spectacular example of early 20th century architecture. 9a-2p, meet at Riverton Museum, $20 advanced registration required, 307-856-2665.

**OCTOBER 17**
Ghost Stories, Urban Myths and Legends: Alma Law will read from the book Fremont Haunts. 9a-2p, Riverton Museum, free, info 307-856-2665.

**OCTOBER 19**
Haunted Downtown Walking Tour: Museum staff will share haunted myths and legends that surround some of the historical Riverton structures. 5:30-9:30p, Riverton Museum, $8, registration required 307-856-2665.

**SOUTH PASS**
**SEPTEMBER 28**
Run the Red Desert: Wyoming Wilderness Association race courses include a half-marathon, 45k, and 120k (75-miler) designed to take runners into the most remote and beautiful country in the Northern Red Desert. Info runthereddesert.com.

**TEN SLEEP**
**OCTOBER 14**
Hunter Fest: Gun raffle, food, music and vendors at event. 11a-2p, 200 block of Pine Street, info 307-347-3226, WTSChamber.org.

**THERMOPOLIS**
**SEPTEMBER 27-29**
Connie Combs Barrel Clinic: HSC Fairgrounds, info thermopolischamber.org.

**OCTOBER 11**
ArtStroll: 5-8p, Downtown Broadway, info thermopolischamber.org.

**OCTOBER 11**
Moscow and Ukrainian Dance: 7p, Hot Springs County Auditorium, info thermopolischamber.org.

**OCTOBER 11-12**

**OCTOBER 12**
Hot Springs Cool Criterium: 3-4p, Hot Springs State Park, info thermopolischamber.org.

**WORLAND**
**SEPTEMBER 21**
Modes of Transportation: Children ages 7 and up invited to STEAM class about the mechanics of trains and cars and how they helped settle the West. 10a-12p, Washakie Museum, free, info 307-347-4102.

**FORT BRIDGER**
**SEPTEMBER 28**
Bike Your Park: Experience the fort in a new way by biking a guided 2-mile path around the fort. 10a, Fort Bridger State Historic Site, free to participants, info 307-782-3842.
01 | For spacious skies, Jana Ginter, Carpenter
02 | Lightning in the nighttime sky, Judy Cramer, Thermopolis
03 | After the storm, Sue Sanders, Hulett
04 | January sunrise, Terry Walling, Cheyenne
05 | Wild Pryor horse, Lorraine Griffith, Byron

Look for even more sky photos from readers at wyomingrea.org/wren-magazine/just-picture-it.
Purple haze, Heidi Stefanich, Beulah
Windy clouds, Megan Kennedy, Siberia Creek
Looking out over the Tetons, Bob Hazard, Dubois
Sunset behind Heart Mountain, Mike Roberts, Cody
Evening masterpiece, Sandra Price, Wheatland
11 | Alcova sunset, Eileen A. Hill, Casper
12 | Colorful skies with Heart Mountain, Pat Nelson, Cody
13 | Beautiful, Flower Norris, Lander
14 | Paddle boating at Little Reservoir Lake, Dianalee Prime, Wheatland
15 | Dropping from the sky, Carrie Miller, Laramie
16 | The sky makes us smile, Ruth Zeller, Lovell
Colorful evening, Cori Enders, Decker, Montana

Reflections of the Beartooth Mountains, Todd Hall, Powell

Afternoon skies, Judy S. Rawhouser, Four Corners

Big Horn Mountains, Lauree Scott, Gillette

Amazing grace in Upton, Krissy Borcher, Moorcroft

Please submit high-quality digital files* or an original we can scan, as well as details about the artwork, the artist’s name, and the co-op. *Use the highest quality setting on your camera, or save digital artwork as a .jpg or .tif file with at least 300 dpi resolution. Don’t use Kodak Easy Share®.

If you would like your work returned, please include a self-addressed, stamped envelope.

wren@wyomingrea.org

214 W. Lincolnway Ste. 21C Cheyenne, WY 82001

wyomingrea.org/wren-submissions
### License Plate Lineup

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1988-1993</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
</tr>
</tbody>
</table>

---

#### Get More for Your Mineral Leases

As a rancher with mineral rights, Lisa understands the need to maximize income from mineral leases. She works with PetroValues that appraises, markets, & protects your mineral interests. With PetroValues (the only landowners' resource, Lisa is able to help other ranchers & mineral owners get more $$$ for their mineral leases.

Give her a call to visit about your minerals.

307-620-3155

PetroValues.com

---

#### One-Call of Wyoming

Know what's below. Call before you dig.

Call 2 business days before you dig. It's fast, it's free, and it's the law!

811 or 1-800-849-2476

---

#### If You See Any of These

Move Over. It's the Law

DO THIS
Work hard and do your share.
The highest form of praise that can be lavished on anyone in our family comes from the matriarch of our clan. If she says, “He (or she) is a workin’ machine,” no higher accolade can ever come your way. As the original workin’ machine herself, she ought to know. She came here, the product of a thousand generations of German-Swiss women, not one of whom made an inch of room in their family for laziness. We work hard because that’s what we do – it’s the Code of the West.

Serve God.
We are a family of faith. It’s who we are. We know God lives and that Jesus Christ is our savior. We try in our own way to be a little more like the savior every day. Sometimes we make it, sometimes we don’t. But we know he loves us, so when we fail we get back up and keep on trying. We pray. A lot, I guess. We pray in the morning. We give thanks when God grants us an animal to feed our family. We pray at night. We pray when someone we love needs help. And we pray when we find ourselves in a jackpot that we’re pretty sure we can’t get out of on our own. It’s just the Code of the West.

Help out.
Each of us comes here with some gifts. Some of us get obvious ones – like the massive shoulders of my youngest son-in-law that have packed literally thousands of pounds of meat out to the trailhead for our family. Some are a little less obvious – like a tender heart or willing hands. Whatever gifts we come here with, we can and should use them to help someone. We never drive by someone who’s stuck. We always carry a set of jumper cables – not for us, but to help someone else. And we never ask, “What’s in it for us?” Why? Because it’s the Code of the West.
We all screw up sometimes.

Old Luke was my first boss, and he used to say that the only people who never make mistakes are people who never do anything. His point was that it was ok to mess up once in a while, as long as you owned up to it and tried to make it right. He was pretty forgiving of a dumb mistake, so long as you didn’t try to cover it up and you didn’t make it a habit. As a green hand among old veterans, I appreciated that because I made some bonehead mistakes. But I learned to own my mistakes, and that taught me to be a little more forgiving of other people when they screwed up. Old Luke lived by the Code of the West, and I loved him for it. I still do.

Never miss an opportunity to hear the silence.

Quiet is hard to come by. Stillness is an endangered species in the 21st century, and it’s darn near extinct. Phones, tablets and other devices connect us, but they also imprison us. We’re talking, texting and tweeting incessantly, obsessively. I miss the silence. If the West has one defining characteristic, it is the scope of its silence. Wallace Stegner said that to understand this place, you have to get over the color green. I would add that you have to disconnect and listen to the silence. That’s the Code of the West. That is indeed the heart of the West.

It’s the Code of the West. It’s what we believe. It’s what sustains us in a hard land and in hard times. And it makes us who we are.

Walt Gasson is a fourth-generation Wyoming native and the director of endorsed businesses for Trout Unlimited.
<table>
<thead>
<tr>
<th>Categories</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>01. EQUIPMENT</strong></td>
<td></td>
</tr>
<tr>
<td><strong>02. FOR SALE</strong></td>
<td>New &amp; Used Coal Stokers, parts, service &amp; advice.</td>
</tr>
<tr>
<td></td>
<td>Available for most makes. 307-754-3757.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>03. HORSES</strong></td>
<td></td>
</tr>
<tr>
<td><strong>04. LIVESTOCK</strong></td>
<td></td>
</tr>
<tr>
<td><strong>05. POULTRY</strong></td>
<td></td>
</tr>
<tr>
<td><strong>06. REAL ESTATE</strong></td>
<td></td>
</tr>
<tr>
<td><strong>07. WANTED</strong></td>
<td>Antique Collector Looking For Oil Company Gas Pumps, Globes And Signs. Will pay fair market value! Also looking for general antiques for our antique shop. Please go to our website FrontierAutoMuseum.com. Located in Gillette WY, our passion is to preserve Wyoming history and the nostalgia of the past, especially Parco, Sinclair, Frontier, Husky and any car dealership along with all brands. We are also always looking for WY license plates and WY highway signs and State Park signs. Please call Jeff Wandler 307-680-8647 <a href="mailto:jwandler@LNH.net">jwandler@LNH.net</a> or daughter Briana Brewer 307-660-2402 <a href="mailto:bbrewer@frontierauto.net">bbrewer@frontierauto.net</a>. Want to purchase minerals &amp; other oil/gas interests. Send details to: PO Box 13557, Denver, CO 80201. We Pay Cash For Mineral &amp; Oil/Gas Interests producing &amp; non-producing. 800-733-2415.</td>
</tr>
<tr>
<td><strong>08. CRAFTS</strong></td>
<td></td>
</tr>
<tr>
<td><strong>09. OPPORTUNITIES</strong></td>
<td></td>
</tr>
<tr>
<td><strong>10. MISCELLANEOUS</strong></td>
<td></td>
</tr>
<tr>
<td><strong>11. BUSINESS CONSULTING</strong></td>
<td></td>
</tr>
<tr>
<td><strong>12. FOR RENT</strong></td>
<td></td>
</tr>
<tr>
<td><strong>13. HELP WANTED</strong></td>
<td>Florquist Construction is looking for carpenters and laborers to assist with residential building. Carpenters need experience in all phases of construction. Call Kraig @ (307) 349-2415. Warm Valley Lodge Assisted Living, Dubois, WY is hiring: FT &amp; PT RNs, LPNs, CNAs. 307-455-2645. SEND RESUMES: <a href="mailto:warmvalleylodge@wyoming.com">warmvalleylodge@wyoming.com</a>.</td>
</tr>
<tr>
<td><strong>14. DOGS</strong></td>
<td></td>
</tr>
<tr>
<td><strong>15. EMPLOYMENT SOUGHT</strong></td>
<td></td>
</tr>
<tr>
<td><strong>16. BUILDING SUPPLIES</strong></td>
<td></td>
</tr>
<tr>
<td><strong>17. TRAVEL &amp; RECREATION</strong></td>
<td></td>
</tr>
<tr>
<td><strong>18. HEALTH</strong></td>
<td></td>
</tr>
<tr>
<td><strong>19. PERSONAL</strong></td>
<td></td>
</tr>
<tr>
<td><strong>20. FREE</strong></td>
<td></td>
</tr>
</tbody>
</table>

---

**Murphy**

**How long have you had this extension cord lighting the shed?**

**Oh... Four years or so.**

**Don’t you know they can overheat over time and cause a fire?!**

**Exactly why I added a smoke alarm to the circuit last month.**
Tough training.
Safe & reliable power.

Linemen play a critical role in our mission to provide reliable, affordable electricity. Tough training and a focus on safety is behind everything they do. Simulated field operations and emergency-response training are ways Basin Electric invests in their safety and in providing reliable power to you.

Your energy starts here.
basinelectric.com
ENCOURAGE YOUR CHILD’S CURIOUS MIND

Learning to take the initiative is an important part of development; it helps your kids take on challenges, overcome obstacles, and become more confident in who they are and what they can accomplish on their own.

Encourage your kids to take the initiative and learn independence by letting them:

Make decisions
Choose activities, snacks, books to read

Be creative
Play outside, make art, spend time with other kids

Do it themselves
Get dressed, help cook, put away toys

Know they’re doing a good job
Watch, listen, praise their effort

For a fun activity you can do together while still encouraging their independence, visit: wyqualitycounts.org/wren

WY Quality Counts, housed in the Department of Workforce Services, helps Wyoming parents and child care providers identify and create quality learning experience for children, thanks to the funding of the Wyoming Legislature.

All WY Quality Counts activities are supported by the Wyoming Early Learning Foundations and Guidelines, as well as the Domains of Development, which include:

- COMMUNICATION
- CURIOUS MINDS
- STRONG & HEALTHY BODIES
- SENSE OF SELF & RELATIONSHIPS