





## **2022 June Transformer Shortage**



Jeff Birkeland CEO

Good news! Fauci has officially declared the U.S. out of the COVID-19 pandemic. I hate to burst his bubble, but I doubt many West Central members ever thought we were in a pandemic. We are, however, dealing with the aftermath of some states that did shut down from the fear of COVID-19. The biggest issues West Central is dealing with are the price increases and the availability of materials.

Back in the early part of 2021, West Central ordered two service pickups and a digger truck. We are still waiting for those units. Our last correspondence on these items was that they will be 2023 models and that delivery will be this fall. Luckily, this is not a deal-breaker for us. We are still able to work and get our projects completed. However, we have one supply chain issue that is causing us some problems. This issue is the availability of transformers. A transformer is required for every electrical service West Central has, therefore a shortage can have huge implications for our members. We get requests every day for new electrical services or service upgrades. We will most likely experience numerous lightning storms this summer which have the unique ability to ruin transformers. When a thunderstorm rolls

across our service territory, it is not uncommon to lose 12 transformers due to lightning strikes.

So how long does it take to get a transformer? When we place an order for

a transformer, it currently takes 130 weeks to receive it. That's two and a half years to receive a transformer! Remember when I said, "when we place an order?" We can't even place a transformer order today. The production for 2022 is already full, and we are waiting to place a transformer order for 2023 production. There is a real possibility that it could take three years to receive the transformers from our next order.

Even though this is a concern and a reality in our business, I don't want to alarm everyone. We feel we have adequate transformers in inventory and can manage our way through this. The only potential problem area we may have are with transformers 300-KVA and larger. These transformers are for large commercial loads, and we do not carry an extensive inventory of them because we do not get many requests for services this large.

We have the option of buying transformers from multiple companies, but they all have the same backlog of orders to fill. The companies that build transformers are also working three shifts a day. Our main supplier of transformers is manufacturing transformers 24 hours a day, seven days a week. They only stop transformer production for eight hours on Sunday. During this eight-hour window, they perform routine maintenance on their equipment.

If you are planning on building a new house or wanting to upgrade your existing electrical service, please give us a call so we can get you

### **Energy Efficiency Tip of the Month**

If you're looking to add smart technology to your home, consider smart plugs. Smart plugs are inexpensive and can be used to control lighting and other electronic devices through a smart phone app.

With smart plugs, you can conveniently manage lighting, home office equipment, video game consoles and more. By powering off unused devices when you're away, you can save energy (and money!).

Source: energystar.gov

### **COOPERATIVE**

CONNECTIONS

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(USPS No. 018-988)

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### Our Mission is to Provide Safe, Reliable Service to our Member Owners.

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### DIRECTOR TERMS EXPIRE

All nominating petitions shall be filed with the Secretary of the Cooperative, on or before the 20th day of July 2022, at the headquarters office of West Central Electric Cooperative, Inc., Located in Murdo, S.D., for parties interested in becoming a member of West Central Electric's Board of Directors.

Directors term vacancies include:

Zone 1

Zone 3

Zone 4



Lyman County Town Director **David Mertens** 



Jackson County Town Director **Rich Bendt** 



Haakon County Rural Director Kevin Neuhauser

West Central Electric's Board of Directors consist of 10 members representing five zones (one town and one rural director for each zone). All director positions are based on a three-year term.

All nominating petitions shall be in such form as prescribed by the Board of Directors, but shall contain a declaration signed by the candidate, under oath, certifying to the membership that he/she possesses the necessary qualifications and is willing to serve as

The petition shall be signed by not less than ten (10) members of the cooperative, each of whom shall be required to write their name, address and the date and time of signing.

In the event that more than one nominating petition is filed in any one Zone, a Zone meeting shall be held in each Zone for the purpose of selecting one candidate for director

to represent the members located in such Zone as their official nominee.

Each Zone Meeting shall be held in August.

Notice of the Meeting shall be sent to all members living in the appropriate Zone by first class mail or in the West Central Electric Cooperative Connections publication, not less than 10 days before the meeting.

### **WCEC Territory**



# June is National Safety Month

While your local electric cooperative often focuses on electric safety and provides information to keep you and your family free from harm, there are many other dangers lurking out there.

In recognition of National Safety Month, we're sharing the National Safety Council's list of the top causes of preventable injuries and death away from the workplace.

**POISONING.** In 2011, accidental poisonings overtook car crashes for the first time as the leading cause of unintentional injury-related death for all age groups combined. Poisoning deaths are often caused by exposure to gases, chemicals and other toxic substances, but prescription drug overdose is by far the leading cause.

**VEHICLE CRASHES.** Crashes are the second-leading cause of unintentional injury-related death overall. Impaired driving, distracted driving, speeding and inexperience can cause a life to be cut short in the blink of an eye.

**FALLS.** Falling is the third-leading cause of unintentional injury-related death over all age groups, but it's the No. 1 cause of death for those aged 65 and older.

**CHOKING AND SUFFOCATION.** Choking on food or other objects is a primary cause of harm and death. Suffocation and choking rank higher among the elderly and infants.

**DROWNING.** It's the No. 1 cause of death for children from ages 1 to 4, mostly due to children falling into pools or being left alone and unsupervised in bathtubs.

**FIRES AND BURNS.** Fires often start at night, when families are asleep and most vulnerable. A working and well-maintained smoke alarm will cut in half the chances of dying in a fire.

### NATURAL AND ENVIRONMENTAL INCIDENTS.

Weather-related disasters claim hundreds of lives per year. You should learn all you can about emergency preparedness and always have an emergency kit on hand in your home.

## BOWLING FOR CHARITY IN MITCHELL



More than 80 cooperative employees showed up in Mitchell for the 7th Annual Line Patrol Charity Bowling Tournament sponsored by Central Electric. The Lacreek Electric Headhunters shown above (Tiff Pettit, Terri Gregg, Cody Allen, Ryan Pettit) took top honors. The event was organized to raise money for a fund used to help electric co-op employees

and their families in times of need. Find out more about this event and South Dakota's electric cooperatives by visiting Cooperative Connections Plus. Simply scan the QR code at right.





### Call 811 before you dig

### **Maddy Pannell**

Maddy Pannell, age 10, reminds electric cooperative members to call 811 before digging into the ground when planting trees or pursuing other outdoor projects. Maddy is the daughter of Southeastern Electric members Scott and Kim Pannell of Sioux Falls.

Kids, send your drawing with an electrical safety tip to your local electric cooperative (address found on Page 3). If your poster is published, you'll receive a prize. All entries must include your name, age, mailing address and the names of your parents. Colored drawings are encouraged.



### **METHOD**

In a saucepan, combine cream and 1 cup sugar. Cook and stir constantly over low heat until candy thermometer reads 160 degrees, or steam rises from pan. (Do not boil). Stir in gelatin until dissolved; add extracts. Cool 10 minutes. Whisk in sour cream. Pour into eight dessert glasses or small bowls. Chill at least 1 hour. Before serving, combine raspberries and remaining sugar; spoon over each serving.

Joanne Singrey-Johnson, Watertown

Drain cans with tuna well. Transfer to a large bowl and separate into flakes with a fork. Add chopped and peeled hard boiled eggs, pickles, celery, red onion, lemon juice, garlic powder (if using), salt, pepper, yogurt and mayo. Stir well with a fork and refrigerate. Serve cold in a sandwich or over salad greens. Make Ahead: Tuna egg salad tastes best cold. For best results, refrigerate 30 minutes before eating.

ifoodreal.com

Please send your favorite recipes to your local electric cooperative (address found on Page 3). Each recipe printed will be entered into a drawing for a prize in December 2022. All entries must include your name, mailing address, phone number and cooperative name.

the cheese is melted. Slice and

serve. May add grilled onions if

you choose. Just saute in the pan

before cooking the sandwiches

Kristina Manecke, Midland

and add to the sandwiches

between the cheese slices.

### Q: I am considering a solar array on the roof of my home. What steps should I take with efficiency and energy savings in mind?



Miranda Boutelle **Efficiency Services** Group

A: When I tell people I work in energy efficiency, one of the first responses I hear is, "Oh, I'm thinking about getting solar installed on my house." I hear it around campfires, meeting other parents at the park and on the ride to the airport.

Most people don't realize solar is not energy efficiency. Solar is generating energy. Energy efficiency is finding ways to use less energy. I can see the association because both are thought of as beneficial to the environment and a way to save money.

My follow-up question is, "What are your motivations for installing solar?"

In my experience, people are motivated by saving money, concern for the environment or both. Focusing first on energy efficiency addresses both motivations. Here are considerations if you are interested in installing solar.

### **ENERGY CONSUMPTION**

Solar systems are sized based on a home's energy needs. The larger the system, the higher the cost. Before installing solar, make sure your home is as energy efficient as possible. It will use less energy and allow you to install a smaller system - which will save money and reduce your home's environmental impact.

Verify the efficiency of your lighting, HVAC systems and insulation. A fully insulated and air-sealed home uses less energy, and those measures are less expensive than solar panels. Finish these energy efficiency projects before installing solar.

### **AFFORDABILITY**

Consider your overall out-of-pocket expenses. The expected lifespan of a heating and cooling system is 15-25 years. Check the age and condition of your HVAC equipment and consider the expenses of replacement. If

something happens, will you be able to afford to fix or replace it?

#### **ROOFING**

Consider the age, orientation and shade of your roof. It is more difficult - and expensive - to reroof a home with solar panels. Will the roof need to be replaced before the solar panels need to be replaced?

The best orientation for solar panels is south-facing to receive direct light throughout the day. A shaded roof helps keep your home cool in the summertime but reduces solar energy production.

#### **MAINTENANCE**

A solar system doesn't last forever. Lifespans range 25-30 years. As systems degrade over time, they produce less energy. Maintenance and repairs may be needed.

### **ELECTRIC BILLS AND STORAGE**

Solar is not "off the grid." Unless you plan to disconnect from your electric co-op, you will still receive a monthly bill.

Solar panels only produce power when the sun is shining. If you want power to your home at other times, like after dark, you need to be connected to your electric co-op or invest in a battery storage system - that comes at an additional cost.

During power outages, don't assume solar panels will supply you with power. Typical solar interconnection to the grid requires the panels to shut down during a power outage. This protects lineworkers from injury while making repairs.

### **CONTACT YOUR ELECTRIC CO-OP**

Solar contractors often work in several utility service territories and may not be familiar with your co-op's offerings, rate structures and interconnection agreements.

Before signing an agreement, check with your electric co-op for local information rather than relying on what the contractor says.

As with any other system for your home, I recommend getting bids from three contractors to compare equipment and pricing.



Ryan Perrion prepares for the World Axe Throwing League championships in Minneapolis in July. Photo by Billy Gibson

### Perrion works hard on his 'axe-pertise'

Billy Gibson

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Just about anyone can hurl a hatchet toward a stationary target. Hitting the bullseye? Well, that's going to require some practice.

Ryan Perrion is putting in all the practice time he can muster as he prepares for the 2022 World Axe Throwing League Championship (WATL) competition set for Minneapolis in July.

Ranked No. 33 in the overall WATL standings going into the tournament, Perrion is honing his hatchet blade and his skills - in his quest to bring the world title back to his home in Aberdeen.

"I'm pretty confident in my abilities because I've put in the work to be the best I can be," Perrion said. "A perfect score is 64, and right now I'm averaging about 55 or 56 in league play. Like a lot of sports, anyone can have a good match but consistency is the hard part."

As a member of the WATL pro league and several regional leagues, Perrion also has plans to compete in Pennsylvania,

Missouri and Wisconsin in the coming months.

Perrion's interest in the sport started out as a hobbyist. He set up a target in his back yard and as his abilities increased it was clear this wasn't just a passing fad in his life. Perrion and his wife Amanda decided to go all in and open an indoor range to spread the axe-throwing love to the community. They launched Hub City Axe Throwing in Aberdeen with the goal of providing a venue for clean family fun.

"We built this place to bring a new sport into town and for families to get together and have a good time. That's our true focus. I have four little kids and they love throwing things. You're not allowed to throw a real hatchet until you're 12, but kids like to come in here and throw foam axes and they have a great time with their parents. Anyone can do it at any level."

Another goal, Perrion said, is to work with individuals of all ages and abilities and make them more knowledgeable about the sport and more skilled than when they arrived.

Meanwhile, interest in the sport is increasing both locally and across the region. Supervised lanes and leagues are available in Sioux Falls, Rapid City, Spearfish and Madison. Woody's Axe Throwing has facilities in Brookings and Sioux City, Iowa, and also has a mobile throwing range ready to roll.

While some questioned the safety aspect when Perrion was proposing the new axe-throwing facility, he said he's never witnessed or heard of an incident where someone was injured by a thrown axe. He said all safety precautions are taken at Hub City to ensure safety, including sturdy chain-link barriers between the venue's eight lanes.

Hub City offers recreational play, league play and special events. There's also Glow Throws held on Friday nights to spice things up and add to the adventure.

"I find that it's not only fun but very stress relieving," Perrion said. "You can get a rush of adrenaline when you get a bull's eye, but you also have to quiet your mind, settle down and focus."



Dozens of scuba divers from South Dakota and Minnesota pursue their hobby not only in local lakes and rivers but also in the Caribbean. Photos by Steve Nedved

### Divers explore underwater habitats from the lakes of the Upper Midwest to the Caribbean

**Billy Gibson** 

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It's a sunny springtime Saturday morning and outdoors enthusiasts all across the state are buzzing with excitement to kick off another weekend adventure.

They're saddling up their horses, slinging their fishing gear into their boats, cranking their ATVs and lacing up their hiking boots.

In a small shop just south of Mitchell, there's a different kind of energy and amped-up anticipation filling the air. Steve Nedved is busy rigging up scuba tanks and inspecting air regulators for about 20 fledgling divers eager to learn a new skill and experience new thrills.

Nedved is owner of Dakota Scuba and he's finding that more and more adventurists are becoming interested in exploring the aquatic world through a fisheye view, whether that's in the chilly waters of the Missouri River or the crystal-clear surf of the Caribbean.

While the scuba diving season in

the Upper Midwest is relatively short, Nedved stays busy most months out of the year teaching scuba lessons in the Mitchell area and tending to vacationing clients from his Villa Dakota retreat in Cozumel.

It turns out that he and his studentclients can board a plane in Sioux Falls at 7 a.m., make a quick stop in Dallas-Ft. Worth, and be ready to hit the water in Cozumel just after lunch.

"It works out pretty well, and people love to take a fall and winter vacation and explore Cozumel, which is one of the best spots for diving because the visibility can be more than 100 feet and there's so much marine life to see," Nedved said.

The master diver's interest in scuba was sparked back when he was a firefighter and paramedic in Mitchell. After responding to too many emergency situations involving bodies of water, he and his colleagues decided they needed to be trained in diving as part of meeting their professional responsibilities and serving the public.

He received his certification in short order and later decided to venture down to Cozumel to earn his teaching certification through the Professional Association of Dive Instructors so that he could be qualified to train his colleagues back in Mitchell.

He and his wife Nancy, who together own the Nedved Media radio network, fell in love with the tropical paradise and after a dozen diving trips decided it made sense to purchase a home right on the water. Before he knew it, he found many others were beating the same path to Mexico to enjoy the sun, sand and scuba adventures.

"I didn't really start it with the intention of going public, I just didn't realize at the time how much interest there was," he said. "People around here in Mitchell started asking me to train them for recreational certification and then they'd dive here or they'd go to Florida or Cozumel on vacation with their families. We started renting out our place in Cozumel to accommodate people during the times we couldn't be there ourselves."

He also noticed an increasing interest in spearfishing in places like the Oahe



Downstream Recreational Area and Pactola Lake in the Black Hills, so he decided to open the shop to serve as a local and regional outfitter.

Nedved, who has logged more than 1,000 dives since he started in 2006, uses the Mitchell Recreation Center for local training and has played a role in certifying individuals from age 10 to 70.

"It's not that physically laborious or difficult. Of course, you have to be in condition as with any kind of outdoor sport, but it's not inherently dangerous in any way if you follow the guidelines," he said.

Allen Hiller of Pierre is one of Nedved's recent protegees. Though he had done some snorkeling and diving at sites like Sully Flats, Cow Creek and below the Oahe Dam, Hiller decided he wanted to kick his scuba game up a few notches. So he enlisted Nedved's services and spent eight days at Villa Dakota last March earning his open water diving certificate.

At the age of 53, Hiller is a veteran of Desert Storm and Desert Shield, a former diesel and aircraft mechanic,



Steve Nedved is shown at left with his catch after a day of spearfishing at Sully Flats. Above, Nedved (at right) works with student Allen Hiller on open water certification.

and spent nearly 20 years working for the Union Pacific Railroad in North Platte, NE. He describes himself as an avid hunter and fisherman who is always up for an adventure. Since his visit to the Caribbean, Hiller says he wants to expand his knowledge and experience under water.

"I really caught the diving bug being down there in a beautiful part of the world with the sun and the sand and the clear water where it seems like you can see forever. I want to continue on and get my PADI certification, my night diving certification, and become a master diver," Hiller said. "I also want to do a lot of spearfishing and learn how to get better at it. Steve was really great to work with."

Nedved said that once his students become accustomed to the awkward act of breathing through a mouthpiece, they begin to relax and enjoy the experience of discovering a new environment with different lights, colors and sounds.

"People like to hunt for fish and explore underwater quarries and see what's on the bottom of the river bed," he said. "When I take them out for the first

### **SCUBA RULES**

Here are four requirements for scuba diving in South Dakota:

- Divers are required to use a red and white Diver Down flag when diving
- Dive flags must be at least 8"x10"
- Divers must stay within 75 feet of their dive flag
- Boaters and vessel operators are required to stay at least 75 feet from dive flags

time, we can't really speak when we're underwater, but when we come up they start chatting away with excitement about the things they saw. It's really addictive. You rarely see just one person in a family that's a diver. Usually, after one person does it, the others have to follow. It's a good sport for a lot of people."



H-D Electric, a cooperative in Clear Lake, S.D., owns a Tesla.

## EVs - What's all the hype about?



**lessie Tucker** 

It seems you can't turn on the TV or listen to any news without hearing about electric vehicles. more commonly known as EVs. It is your Co-op's responsibility to

learn about new technologies and how they will affect the membership. EVs are one of those upcoming items that could have a profound effect on the future of the co-op.

So, what is all the hype about? Unfortunately, it seems that too much of the discussion has become political. The current administration has promoted EVs and charging networks and that is no secret. With that being the case, EVs may not work well for everyone, but even in our very rural areas many of our members can benefit from owning an EV. Again, by taking the politics out of the discussion, I hope to give you some real pros and cons of EVs.

One of the main considerations to owning an EV is your own daily driving

routines. If you are a daily commuter, then an EV may have some real appeal to you. Let's say, for instance, you drive from Murdo to Pierre five days a week. With a standard vehicle that gets 22 MPG, \$ 4-gallon fuel, and at approximately 120 miles round trip, you would be spending \$21.80 per day on fuel. Let us use the Tesla Model 3 for a simple comparison. The 2018 Tesla Model 3 comes with a 70-kWh battery and is promoted as a 210-mile range. (I use this model in the example because I personally know someone that owns one and they say they do not get any more than 180 miles on a full charge.) It has been estimated that 95% of electric vehicle charging takes place at your home. After your daily commute, you would plug in your vehicle at your house, to have a "full tank" every morning. With West Central's current residential rates, those 70-kWh would

cost the typical member \$6.80. It is important to remember though that you are not going to be charging the full 70 kWh each day. In the above example of the daily commuter that travels from Murdo to Pierre with the Tesla Model 3, it would cost the driver \$4.56 to charge 47 kWh per day. This is a savings of \$86 per week! As you can see, the daily savings can add up in a hurry.

Owning an EV also comes with fewer maintenance items, such as oil changes and whatnot. We have heard though that they go through tires more often because the additional weight of an EV wears them down faster than the standard vehicle.

Another thing to consider for our area is the lack of charging infrastructure. Although there are some future DC fast charger installations going in across the state, they are still few and far between. Range anxiety is a very common concern as no one would like to be stranded with no means to travel. We have also heard that extremely cold weather can cause battery ranges to diminish, sometimes even by half. It may only be my opinion, but this is why I see future EV owning families in our rural area still owning gas-fueled vehicles. In a typical household that owns multiple vehicles, I can see one as possibly being an EV and the others as a standard combustion type vehicle. I don't see any way that we can go fully EV in our part of the world. It just won't happen.

Most of us already know that the Ford F150 is the most popular selling vehicle in the United States for many years running. When Ford announced the new F150 Lightning, we knew that it will be just a matter of time before some of our members own these vehicles. We have already had conversations with members that are wanting to learn more. To be completely honest, we sure don't have all the answers and are also wanting to learn more because of how they can greatly affect your electric co-op. It is for this reason that your board of directors approved the purchase of a Ford Lightning for the 2022 budget. We are not yet sure if we can find one this year, but we are hoping to. This will give us the opportunity to learn the pros and cons and then relay that information to you, the member. There are already a few co-ops across the state that have specific EV charging rates. This will be a key thing for West Central to learn about and consider in the near future. It will be very important to ensure that EVs are not charging during our peak times. Take the Ford Lightning, for example, the Lariat edition comes standard with a 19.2 kW charger. If this is charging when the co-op is peaking, this one charge will cost West Central \$335 in power costs from our power supplier! There are also many other things that will need to be taken into consideration when looking into the future in regard to EVs. Our staff engineer, Kit Talich, ran a few numbers about a year ago on if each one of our current gas stations installed EV chargers. In short, West Central could be looking at \$50 million in possible upgrades to our current transmission lines and substations. In his example, EV charging could be as high of a peak

as our entire current system. If these estimated upgrades ever come to reality and are required, who should pay for that? It is our responsibility to look out for the best interest of our membership, and rest assured that we are going to make the best decision so that everyone is paying their own fair share.

Technology is changing extremely fast in the EV sector, and I don't think it is going to slow down any time soon. I believe before we need \$50 million in line upgrades, we will see a bigger, faster, greater battery technology that will take the world by storm. Supposedly there are already battery prototypes that have 5 times the capacity. Could you imagine being able to travel over 1000 miles from one single charge? Sulfur or solid-state batteries are being explored and offer some real promise for future EV upgrades. For now, we will listen and learn about how the current technologies may affect the co-op.

If there is one thing known for sure, it is that EVs are coming, even in rural South Dakota. It may not make sense for every family to own one, but for some, it certainly does. There are pros and cons and when we learn more about EVs, we will certainly pass the information on to you, our members.



Ford Lightning



Desmond Dean of Dakota Sports in Aberdeen says e-bikes are all the rage among outdoors enthusiasts. Photo by Billy Gibson

### Electric bicycles give riders the little extra push they need - or not

**Billy Gibson** 

billy.gibson@sdrea.coop

Sometimes when you find yourself struggling to move ahead, all you need is a little boost to get where you need

That's the idea behind the invention of the electric bicycle. For those who enjoy mountain biking, pedaling for fitness or just commuting back and forth to work in the open air, the electric bike is becoming the cycle of choice.

Desmond Dean is manager of Dakota Outdoors in Aberdeen and he reports that sales are brisk with his line of Trek e-bikes. The first misconception he typically has to address with his growing list of curious customers is that an e-bike isn't a motorcycle.

"It's a bicycle. There's no throttle and you're in complete control the whole time. The battery and small motor are just there to give you some assistance when and if you need it," he explained.

"They're getting so popular because you can get a wide range of exercise. If you're having trouble with the wind or going up a hill, or if you just want to increase your distance, you can get the extra push you need. You can get some assistance or no assistance."

A battery usually takes about 5-6 hours to fully charge and there are models built for navigating off-road trails, touring, cruising or just moving around town from one point to the next. Prices can range from a few hundred dollars for a youth model to several thousand bucks for adult versions. Some bikes can top out at nearly 30 mph in the highest gear settings and some sweat equity.

Dean highly encourages his customers to take his e-bikes out for a spin around Aldrich Park across from the store because once the shopper puts the Trek through its paces and gets accustomed to the experience, "the bikes tend to sell themselves."

Mary Duvall, a state senator from

Pierre representing District 24, is a life-long fitness buff and has done a lot of pedal pumping over the years. So when her husband Rob suggested they purchase a pair of e-bikes, she was admittedly skeptical. What would be the point of pedaling if you're not going for the burn?

"I looked at it like it would be cheating and we wouldn't get a quality workout," she said. "But I quickly learned I was wrong. I can work as hard as I want and get whatever workout I feel like, or take it as easy as I want, depending on the day."

The Duvalls invested in his-and-her Aventons with thick sturdy frames and wide tires for handling uneven surfaces like the Black Hills, the Badlands and the undulating terrain around Pierre. They also chipped in for safety helmets equipped with an intercom system so they can keep in constant audio contact.

The couple covered 80 miles in a single day on the Mickelson Trail, stopped overnight in Hill City to recharge their batteries and their weary quadriceps, then rode another 56





miles the following day. They ended up encountering another couple who had hauled their e-bikes from Texas to tour the Mickelson Trail. Another couple they met from Minnesota were using their e-bikes to complete the entire trail from Edgemont to Deadwood.

"We ride them at least once a month and they've opened up lots of options that we couldn't tackle with regular bikes," Duvall said. "It's a fun way for us to get outside and enjoy some exercise and fresh air."

> **Approximate** number of e-bikes

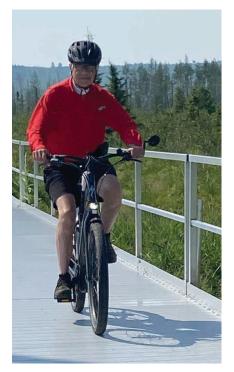
### 40 million

expected to be sold worldwide in 2023

Of course, the idea of attaching a small battery-powered motor to a bicycle frame isn't new. The first patent for an e-bike was issued in 1895. There was a global surge in sales of 35 percent between 1993 and 2004 after Yamaha invented, manufactured and marketed

its own pedal-assist system. By the end of 2023, worldwide e-bike sales are expected to reach 40 million units, or more if gas prices continue to escalate.

Surveys consistently indicate most e-bike buyers make the purchase with the goal of replacing trips they'd otherwise take in their cars. But Ron Block of Webster bought his for another reason: he needed to keep up with his wife Nancy, a school teacher who also



happens to be a competitive marathon runner.

E-BIKES

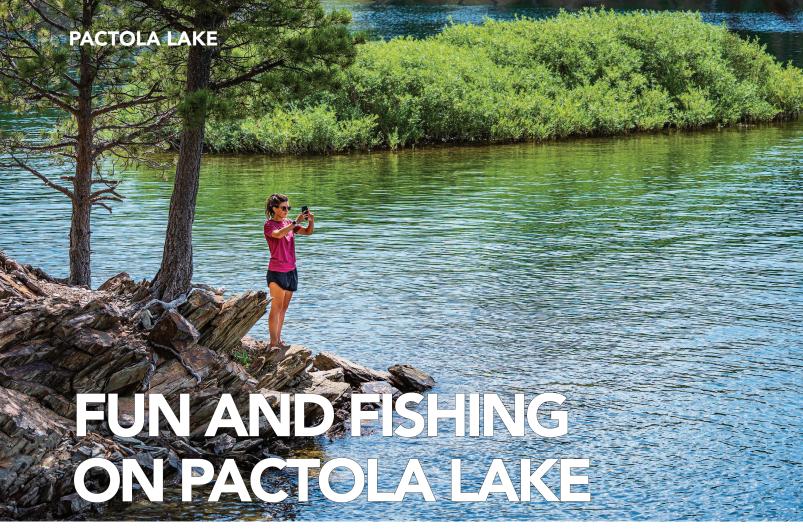
"She was leaving me behind, so I figured I needed some assistance to make it a little easier on me," Ron said. "I rode a lot when I was a kid, but now I'm middle-aged and the bike gives me the ability to set the power to however much help I need."

The Blocks enjoy biking together each week as part of a local cycling club, though occasionally they like to venture farther afield. Last summer, they biked among the giant redwoods in northern California and Oregon and also pedaled the Katy Trail in Missouri. This year they plan to take a trip to The Netherlands and rent bikes to see the sights.

Ron said he would encourage those who may be interested in purchasing an e-bike to find a nearby dealer, or find a friend who already has one and ask to take it for a test ride.

"That's what I did before I bought one and I've been very satisfied," he said. "I've talked to a lot of people who have them and they're very happy they made the investment."

Ron Block of Webster pedals his e-bike along a floating bridge on the Mesabi Trail in northern Minnesota. Photo provided by Ron Block



Pactola Lake near Rapid City holds different interests for different outdoor enthusiasts. Photos by SD Tourism

### Pactola Lake has something for everyone, from anglers to history buffs

**Billy Gibson** 

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Pactola Lake is a unique body of water nestled in the heart of the Black Hills that has come to mean many different things to many different people.

For outdoors adventurists, the 1.1 square mile lake offers a wide range of activities including boating, camping, canoeing, fishing, swimming, paddle boarding, beach combing, hiking and even scuba diving for those interested in capturing an up-close glimpse of the aquatic life that teems throughout the underwater habitat. Fly fishing is a popular pastime for anglers in the shallow waters of Rapid Creek.

Tourism promoters have dubbed

Pactola Lake as South Dakota's version of Atlantis because the lake bed was once the site of a small town that was submerged after Pactola Dam was constructed and the area was flooded in the mid-1950s.

However, explorers today will find very little left of the old town's structures as most were moved or auctioned off when plans for the dam were made public. The Bureau of Land Reclamation clear cut and cleaned off what would eventually become the lake bottom. One of the few buildings still standing in the deep water is the old Civilian Conservation Corps camp dynamite bunker. Scuba divers have reported finding construction equipment and portions of the train tracks in the depths.

Conservationists and biologists study the Pactola Reservoir Complex area for its abundant wildlife habitat and diverse landscapes, while civil engineers operate the reservoir as a means of flood control and as a source of water for the Rapid City metropolitan area - including Ellsworth Air Force Base - located about 15 miles to the east. Farmers also rely on the embankment dam to irrigate their crops.

For historians, Pactola Lake holds a special curiosity as a former hunting ground for Native American tribes and a site where miners went to seek their fortunes and pursue their quests for gold in violation of the Treaty of Fort Laramie. The small settlement that emerged was named for Gen. George Crook, a U.S. Cavalry leader in charge of keeping the ambitious miners away and upholding the terms of the treaty,



Paddlers catch some exercise while enjoying the serene surroundings of Pactola Lake.

although the hills were eventually opened up to prospecting activity in February of 1876. The village was later named Pactola after the legendary "golden sands" that were said to be found along the ancient Pactolus River located in modern-day Turkey.

History buffs also delve down into Pactola's intriguing past as a thriving boom town in the 1870s where claims were being filed at a breakneck pace and more than 300 miners flooded the place decades before the waters did.

One of the first post office facilities in the Black Hills was established there, two stage lines served the town's residents and the Black Hills and Western Railroad laid down train tracks to set up a main transportation line. The Sherman House hotel was the center of social activity and a popular gathering place for locals and travelers alike.

During the summer months, children would make the trip from nearby towns to take part in the Presbyterian and Methodist church camps.

To fishermen, in particular, Pactola Lake is prime spot for landing lunker rainbow trout, brown trout, crappie, largemouth bass, bluegill and Kokanee salmon. Below the surface, spearfishing scuba divers stalk bigmouth buffalo.

David Hollister, a CAD specialist at Rushmore Electric in Rapid City, enjoys taking his family out to the lake during the weekends and holidays when the weather cooperates. He and his wife, Jade, like to enjoy the scenery with son Bryce along the hiking trails and they occasionally launch a kayak to explore Jenny Gulch, a shallow, no-wake, area.

David also enjoys the thrill of fishing for trout and pike as he's done for the past 10 years. He's not too proud to admit that Jade often brings home the biggest catch.

"The natural beauty is a huge draw. Everywhere you look it's gorgeous and the fishing is great. They get big and fight hard," he said, noting that his personal record for trout is 32 inches. "It can be a challenge because the depth can change pretty drastically from the shoreline to 100 feet. It takes a little time and effort to learn the lake."

The Pactola Reservoir Complex is open year-round and costs \$6 per vehicle per day. The U.S. Forest Service operates the Pactola Visitor Center, which is located at the south end of the dam. The center provides interpretive exhibits, travel information and a scenic view of the water. There's also a marina located at Custer Gulch on the south

shore. The privately owned facility has a capacity of 200 vessels and has fishing boats, canoes and paddle boards for rent to the public.

For more information on the area, visit the U.S. Forest Service's website at www.fs.usda.gov/. Boat ramp data can be found on the Bureau of Reclamation website for Pactola and Deerfield Reservoirs at www.usbr.gov/gp/boat/.



David Hollister enjoys angling for lunker pike at Pactola Lake.



To have your event listed on this page, send complete information, including date, event, place and contact to your local electric cooperative. Include your name, address and daytime telephone number. Information must be submitted at least eight weeks prior to your event. Please call ahead to confirm date, time and location of event.

To view the publication's master event calendar, scan the QR code below:



Or visit https://sdrea.coop/ cooperative-connectionsevent-calendar to view more upcoming events.

### **MAY 28**

### Deadwood Live: Hank Williams Jr.

Outlaw Square, Deadwood, SD, www.deadwoodlive.com

### **MAY 28**

### Memorial Weekend in Mitchell

Main Street, Mitchell, SD, 605-292-4444

### **MAY 28-29**

### **Black Hills Renaissance Faire**

Manuel Brothers Park, Lead, SD, www.blackhillsrenfest.com

### **MAY 29-30**

### **Back When They Bucked**

Days of '76 Arena, Deadwood, SD, 605-718-0810

### **MAY 30**

### Prairie Points Quilt Guild

204 Hodge St., Buffalo, SD, 605-641-5591

### JUNE 2-4 Annual Black Hills Quilt

bhquilters.org/events

**Show & Sale**The Monument, Rapid City, SD,

### JUNE 2-5 Wheel Jam

South Dakota State Fairgrounds, Huron, SD, www.wheeljam.com

### **JUNE 3-5**

#### Fort Sisseton Historical Festival

11907 434th Ave., Lake City, SD, 605-448-5474

### **JUNE 3-5**

### Lake Andes Fish Days

Citywide, Lake Andes, SD, 605-487-7694

### **JUNE 10-12**

### **Gumbo Ridge Wagon Train**

Rodeo Grounds, Murdo, SD, Contact Sam & Marilyn Seymour at 605-669-2844 for more info

### JUNE 11

#### The Big Mick

George S. Mickelson Trail, Deadwood, SD, mickelsontrailaffiliates.com

#### **JUNE 16-18**

### **Czech Days**

Lidice Street, Tabor, SD, 605-463-2478

### JUNE 16-18 Wild Bill Days

Main Street, Deadwood, SD, deadwood.com/event/wild-bill-days/

### **JUNE 16-19**

#### South Dakota Shakespeare Festival

Prentis Park, Vermillion, SD,

605-622-0423

### **JUNE 17-18**

### Oahe Days Arts & Music Festival

Steamboat Park, Pierre, SD, oahedays.com

### **JUNE 18**

### 605 Summer Classic Beer & Music Festival

Cherapa Place, Sioux Falls, SD, 605magazine.com/605-summer-classic/

### **JUNE 18-19**

#### Aberdeen Arts in the Park

Melgaard Park, Aberdeen, SD, 605-226-1557

#### **IUNE 18-19**

### **Brookings Kite Festival**

Fishback Soccer Complex, Brookings, SD, 605-695-9071

### **JUNE 22-25**

### **Crystal Springs Rodeo**

17803 479th Ave., Clear Lake, SD, crystalspringsrodeo.com

### **JUNE 24-26**

### Black Hills Bluegrass Festival

Rush No More RV Resort & Campground, Sturgis, SD, blackhillsbluegrass.com

### **JUNE 24-26**

#### Scavenger's Journey

Various Locations, SD, scavengersjourney.com

#### **JUNE 24-26**

#### Quarry Days

Citywide, Dell Rapids, SD, 605-428-4167

### **JULY 15-16**

### Murdo Ranch Rodeo/Gumbo Ride Bronc Ride

Murdo, SD, facebook.com/ Murdo-Ranch-Rodeo-Gumbo-Ridge-Bronc-Ride-21232024916 8184/

### **JULY 29-31**

### Meghan Newsam Community Celebration

Murdo, SD, facebook.com/ MeghanNewsamCC

Note: Please make sure to call ahead to verify the event is still being held.