



Quality On Tap!

January 2022 | Volume 17, Issue 3



**MILPA
GARDENS**

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LEADERSHIP
PROGRAM**

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FREEZE THIS WINTER**

A MESSAGE FROM THE PRESIDENT OF THE BOARD

Ron Gillen, President
South Dakota Association of Rural Water Systems



2022 Annual Technical Conference

Our Annual Technical Conference is approaching fast, and the staff at South Dakota Rural Water are busy behind the scenes gearing up for the event which kicks off Tuesday, January 11th at the Best Western Ramkota in Pierre. The full agenda can be found on pages 13-15 in this issue of *Quality on Tap!*

Online registration is open, so check sdarws.com for everything you need to know – agendas, hotel information, and news regarding the upcoming conference.

ATC Keynote Speaker - Holly Hoffman

Our Keynote Speaker for 2022 is Holly Hoffman. Holly was the last remaining member of the Espada Tribe and the last woman standing on Season 21 of CBS' hit reality show "Survivor: Nicaragua." Through that experience, and others throughout her life, Holly was inspired to share her message of survival.

A professional motivational speaker and the author of "Your Winner Within" and "Write Yourself a Note," Holly acknowledges that life is made up of challenges, and we are oftentimes faced with situations that seem insurmountable. But within each of us is an ability to focus our thoughts, emotions, and energy to succeed – if only we have the knowledge, tools, and discipline to do so.

A native of South Dakota, Holly's writing and speaking not only offer encouragement and optimism but a roadmap for self-discovery and spiritual enlightenment. Readers and audience members alike walk away inspired to light the fire of successful living within themselves.

Today, Holly is a member of the National Speaker's Association, a recipient of the Certified Speaking Professional designation, and travels across the country and internationally speaking to a wide variety of corporations, associations, universities, schools and women's organizations. Holly inspires her audiences to take opportunities and focus on faith, attitude, determination, confidence, desire and perseverance.

Water Taste Test Contest

This year's Exhibit Hall will feature a public judging of the top three finalists in the SD Rural Water Taste Test. The winner chosen at this taste test will go on to represent South Dakota in the National Rural Water Taste Test held at the Rural Water Rally in Washington, DC in February of 2023. If your water system is interested in participating in the taste test, please make sure that they bring a quart-sized glass jar filled with water from your water system to the Registration Desk by 2:00pm on Tuesday, January 11th.

Zeck and Jackson to Retire

This year will also mark the last ATC for two longtime SDARWS employees who are approaching retirement – Trainer Jim Zeck, and Circuit Rider Nick Jackson. I would like to invite anyone who would like to say goodbye to these gentlemen to come to our Exhibit Hall at the Ramkota in Pierre on Wednesday, January 12th from 4-8pm.

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Remembering Jerry Hemeyer

It is with great sadness that we announce the passing of Jerry Hemeyer. Jerry was a valued employee of the South Dakota Association of Rural Water Systems for 27+ years, and he was our very first Wastewater Technician. He retired from SDARWS in 2018, and was kind enough to come out of retirement to assist us for a few short stints in 2019 and 2020. Jerry was a valued member of our rural water family, and he will truly be missed.

Jerald (Jerry) Lynn Heymeyer was born on July 1, 1952, in Mitchell, SD, to Clarence (Bud) and Maxine (Kenyon) Hemeyer. At the age of 69, Jerry entered his Heavenly home on November 3rd after a battle with cholangiocarcinoma (bile duct cancer). Jerry grew up on a farm near Stickney, SD, and graduated from Stickney High School in 1970. On April 27, 1985, Jerry married Julie Schnabel at Emmaus Lutheran Church in Tripp, SD. Added to this union were three children, Heather, Kyle, and Carrie. Family meant everything to Jerry, and he made every effort to support his kids in all of their activities. In 1991, Jerry started his decorated 27 year career as the Wastewater Technician for South Dakota Association of Rural Water Systems where he enjoyed traveling the state helping small towns with wastewater issues. He loved his career and made many great friends from across the state. Jerry also served many different roles in the Gregory community. He served as a city councilor, member of the Gregory Athletic Club, volunteer firefighter, and an active member of St. John's Lutheran Church.

Jerry had many hobbies and was known to help anyone he could. He loved helping neighbors and could fix just about anything. Jerry enjoyed hunting with his kids, umpiring and

watching baseball, fishing with his kids and grandkids, woodworking, and adventuring with Julie in the Black Hills with their side-by-side. He also was an avid supporter of the Gregory Gorillas and Burke-Gregory Storm wrestling team.

Jerry is survived by his wife of 36 years, Julie and their three children, Heather (Warren) Bender of Pickstown, Kyle (Megan) Hemeyer of Aberdeen, Carrie (André) Zachariah of Sioux Falls; six grandchildren: JeriAnn and Paetyn Bender, Israel, Theodore, Elijah and Oliver Zachariah; one sister, Gwen (Gerrit) Norden of Corsica; one brother, Bert Hemeyer of Sioux Falls; one brother-in-law, Larry Bohr of Pierre; and many nieces, nephews, neighbors, and friends.



He was preceded in death by an unborn child; his parents, Maxine and Clarence (Bud) Hemeyer; a brother, Stanley Hemeyer; a sister, Lila (Hemeyer) Bohr; and in-laws, Maynard and Wilma Schnabel.

Funeral Services for Jerry Hemeyer, 69, of Gregory, South Dakota, were held on Saturday, November 13, 2021 at St. John Lutheran Church, Gregory, SD,

with Pastor Marcus Ring officiating. A Prayer Service was held Friday evening at the church. Music was provided by Melanie Hannahs, organist. Jerry's nieces were in charge of registration.

Casket Bearers were Matt Wiederrich, Lawson Bohr, Eric Norden, Jeff Norden, Doug Walz, and Marv Braun.

Honorary Casket Bearers were Jerry's friends at South Dakota Association of Rural Water Systems.

Bural was in the Pleasant View Cemetery, Tripp, SD.



OPERATOR CERTIFICATION TRAINING AND EXAMS

Information regarding In-Person & Online classes

Pre-Registration for in-person and online classes is required and will be limited. Those who have not pre-registered will not be able to attend in person due to room constraints. During the registration process the operator will be able to choose if they wish to attend in-person or online. Once the in-person limit has been reached any additional registrants will be for the online course. Online attendees will be sent a Zoom link and information on how to download course materials. In-person and online class times will take place in the time zone of the in-person class.

Vaccination rates and the course of the COVID-19 pandemic will determine when we can relax our social distancing requirements. If vaccination rates are high and the rate of new cases is low it may be possible to increase the number of people we can accommodate for in person training. Those operators who have pre-registered and were moved to online training will be notified in the event we can increase the number of in person attendees.

Basic Wastewater Treatment	January 25-27, 2022	Rapid City: Ramkota	40 Registration Limit
OpCert Exam	January 27, 2022	Rapid City: Ramkota	40 Registration Limit
Water Distributon	February 1-3, 2022	Brookings: Wilbert Square Event Center	40 Registration Limit
OpCert Exam	February 3, 2022	Brookings: Wilbert Square Event Center	40 Registration Limit
Basic Water Treatment	February 15-17, 2022	Spearfish: Holiday Inn	40 Registration Limit
Wastewater Collection	March 1-3, 2022	Rapid City: Ramkota	40 Registration Limit
Basic Wastewater Treatment	March 29-30, 2022	Watertown: Ramkota	40 Registration Limit
Basic Water Treatment	April 5-7, 2022	Sioux Falls: Ramkota	40 Registration Limit
Small Water Treatment Workshop	April 28, 2022	Rapid City: Ramkota	30 Registration limit
Intermediate Water Treatment	May 3-5, 2022	Sioux Falls: Ramkota	40 Registration Limit
Advanced Wastewater Treatment	May 17-19, 2022	Rapid City: Ramkota	40 Registration Limit
Stabilization Pond Workshop	June 2, 2022	Huron: Event Center	20 Registration Limit

Classes start at 8:00 AM Tuesday through Thursday. Classes end at approximately 4:30 PM on Tuesday and Wednesday, and noon on Thursday. One-day Workshops start at 8:30 AM and end at 4:30 PM.

ATTENTION WATER/WASTEWATER SYSTEMS/OPERATORS:

Since 1970, DANR has been charging \$10 or less to take an Operator Certification Exam. The annual charge to renew a certificate has been \$6 or less. Obviously costs have increased since the 70's and DANR has been taking a significant loss every time a certification exam has been taken. The costs for an exam include the cost to have the exam corrected, exam room rental, per diem, and mileage.

SB 53 was proposed by DANR to allow us to charge what the actual cost of each exam is which is approximately \$60. The bill also eliminated the annual renewal fee. SB53 passed both houses of the Legislature and was signed by the Governor on February 24, 2021. The effect is that any OpCert exam taken after July 1, 2021 will cost \$60. With the renewal fee being eliminated, all operators that have the proper number of contact hours and

are still working in the water/wastewater field will have their certificates renewed automatically by DANR on July 1, 2021 and every February 1 after that. The operator does not have to do anything other than ensure they have adequate contact hours based on the certificates held. The operator will receive a notice via email or regular mail noting this.

Also please note that the certification classes offered by South Dakota Rural Water are still free and supported by a contract with DANR.

The three year period runs from February 1 of the renewal year back to February 1 three years previous. For example, for the 2022 renewal only the contact hours acquired between February 1, 2019 through February 1, 2022 are considered.

**For Study materials, visit: www.abccert.org/testing_services/ExamReferences.asp
REGISTER FOR CLASSES ONLINE: sdarws.com/certification-classes.html**



APPLICATIONS OPEN JANUARY 1 FOR RURAL POWER LEADERSHIP PROGRAM

If you read October's *Quality on Tap!* article "Who's Watering the Next Crop of Rural Cooperative Leaders?," you learned about the new program building a pipeline of leaders in South Dakota ready to serve in rural cooperatives like your local rural water system.

The program called Rural POWER kicked off in 2021, and applications for the second class of Rural POWER leaders open January 1, 2022.

This rural initiative launched by the non-partisan, non-profit Billie Sutton Leadership Institute seeks to grow a new generation of rural leaders and encourage involvement in local cooperatives providing essential services to South Dakota communities.

Since its launch, the Sutton Leadership Institute has trained and mentored over three dozen next-generation leaders from across the state who have given back to their communities through service projects. This year, the leadership development cohort specific to rural South Dakota was added to the program offerings.

Rural POWER is a year-long leadership development opportunity focused specifically on rural South Dakota. Rural POWER participants engage in educational leadership training opportunities that emphasize community building

and serving your neighbors. They also learn from thoughtful cooperative leaders – like South Dakota Association of Rural Water Systems Executive Director Kurt Pfeifle – who are committed to rural development.

Participants in the inaugural Rural POWER program have some powerful things to say about the initiative and its impact on them and their community:

"I believe this program is creating tangible and actionable movement, growth, and community impact in South Dakota."

"Personally, I know this experience will continue to shape my growth as a leader and expose me to individuals who are movers and shakers within South Dakota."

"This program will benefit our communities and South Dakota as a whole."

"Every session was intentional and worthwhile."

"This group is amazing. It's a great fire-starter!"

"Better than I ever anticipated!"

With applications for the next Rural POWER class opening in January, now is the time to encourage leaders in your community to apply for this opportunity. That leader just might be the next rural water system board member to serve you and your neighbors!

If you or someone you know is ready to take action, serve others, and lead in your community, apply for Rural POWER before the February 1, 2022, application deadline.

[Visit *suttonleadership.org/ruralpower* to learn more about Rural POWER and to apply to participate.](https://suttonleadership.org/ruralpower)

[Nominations for the program can also be submitted online at *suttonleadership.org*.](https://suttonleadership.org)





BACKUP WATER SUPPLIES FOR LIVESTOCK NEEDS

Back before Rural Water systems were organized and built across South Dakota, private farm wells served as the main water source for farms and livestock. As farms connected to their local rural water system, wells were slowly abandoned in favor of the quality and reliability of rural water. Over the years, many of those old wells have gone bad or stopped pumping water due to age. As livestock numbers per farm have increased, farmers and ranchers often rely solely on rural water for their livestock watering needs, and don't think much about the old wells they used to rely on.

While rural water has been very reliable over the years, things can happen that cause water service areas to be down for many hours, or even days – such as leaks or breaks in the line. Because of this, rural water systems encourage livestock producers to have a backup water supply. This could be in the form of a large on-site storage tank with a pressure system, a backup well; or both.

When installing on-site storage with a pressure system, it is recommended to put in enough water storage to get through two days of maximum water use. Having onsite storage also allows for the producer during normal

operations, to take a consistent water flow over a 24-hour period thus, not taxing the water system's pressure during the peak times of the day.

Some livestock feeders have put in underground cast-in-place concrete tanks with a small building sitting on top of the tank with a submersible pump and pressure tank that provides consistent water pressure to the entire farm. (See photo above showing a pump building sitting on an 18,000-gallon concrete storage tank) Others have placed large poly tanks in a heated building with that same type of pressure system.

The fact is, that if a livestock producer can't get along without rural electric service, they need to have an emergency generator. The same goes for water; If they can't get along without rural water service, they need to have an emergency plan such as on-site storage and/or a well.

If you have questions about what you need for a backup storage solution, please give your rural water system a call. Contact information can be found on page two.

Don't let your pipes freeze this winter

As the hot days of summer seem to be long gone, the leaves begin their annual change of color, frost starts to blanket the nighttime, and South Dakotans realize that winter is on its way. Now is the time to make sure that your home and pipes are ready for the subzero temperatures that will be sure to come. By winterizing your house, and especially your pipes, you can save yourself time, money, and unnecessary heartache.

A broken pipe can add up to big losses in water. If you look at the chart on this page you can see that an 1/8 inch hole can lose 296,000 gallons of water over a three month period of time, or about 3,200 gallons a day. That's about the same amount of water that one person will use in a month of normal use! Another comparison would be enough water to fill an 850 square foot basement with 6 inches of water in just 24 hours.

Here are some things you can do to help keep the water in your pipes from freezing:

- 1) Insulate pipes in areas of your home that are not well heated, such as crawl spaces and attics. Pipe insulation costs can vary greatly depending upon the material. The cheapest can cost about \$1.09 for 6 foot to \$6.59 for elastomeric foam that is self sealing with a higher R-value.
- 2) Install UL-approved heat tapes according to manufacturer's instructions. Prices can vary from store to store, and by length, from around \$18.00 for a 6-foot heat tape to about \$30.00 for a 30 foot tape.
- 3) Disconnect water hoses, and if possible drain outside faucets, by installing an inside shut-off valve and drain. An outside faucet cover can be purchased for roughly \$2.00.
- 4) Locate places along sill plates, doors, and windows that may allow cold air to penetrate your home and seal with caulk, foam or fiberglass insulation. Caulk prices can vary from less than a dollar for latex caulk to just under \$5.00 for silicone, and can be even more for fire resistant caulk. Cans of spray foam insulation can run from \$4.00 - \$5.00 a can.
- 5) If you are going to be away from home for a long period of time have your rural water system shut off your water.



Water Loss Chart

A continuous leak of the sizes listed below at an average household water pressure of 60 psi would, over a three month period, result in the water loss listed.

Diameter of Stream	Inches	mm	Water Loss in Gallons
●	1/4	6.4	1,181,500
●	1/8	3.2	296,000
●	1/16	1.6	74,000
●	1/32	0.8	18,500

South Dakota Soil Health Coalition Soil Health Technician Baylee Lukonen's milpa garden contained 30 different species of plants. Photo courtesy of the SD Soil Health Coalition.

MILPA GARDENS CAN BUILD SOIL HEALTH AND COMMUNITIES

By Stan Wise, South Dakota Soil Health Coalition

Sometimes a little chaos provides an opportunity for growth.

That's certainly the case with a chaos garden, also called a milpa garden. It's a similar concept to the three sisters garden in which the three "sisters" of corn, beans and squash are planted together because each one benefits the growth of the others. The corn provides a tall stalk for the beans to climb, the beans fix nitrogen in the soil, and the large leaves of squash shade the ground, preserving moisture and suppressing weeds.

In a milpa garden, even more types of plants are included in the mix, and rather than being planted in neat rows, the vegetables are spread evenly across the garden. The result is a chaotic tangle of produce that offers more than just food.

This year, South Dakota Game, Fish and Parks District Park Supervisor Ryan Persoon discovered that a milpa garden can help bring a community together. This spring, he was approached by Dan Forgey, South Dakota Soil Health Coalition Board member and longtime Cronin Farms agronomy manager, who had a bag of seed.

"He mentioned he had this bag of seed that, at the time, he described as a milpa garden and a community garden," Persoon said. "I didn't know anything about what this was. Community kind of stuck in my head."

Persoon runs the West Whitlock Recreation Area, which is next to a resort with summer residents, and he thought he could plant the garden in the park, and the people in the resort community could help grow the garden and then reap some of the rewards by taking some produce.

"At the time I didn't really know what was in this bag of seed," he said. "It was entertaining for us to plant this, see it grow, and see what would come to fruition and how it would impact our community. And I have to say it was quite the project. It was something I was very proud to be involved in."

The community became very involved in the garden. "The excitement of the unknown was what we enjoyed the most out of it," Persoon said. "It was thick. There was a lot of stuff to sort through. People enjoyed looking through it to find what they wanted, and that adds to the excitement of it."

Persoon said the garden contained several different types of squash, pumpkins, turnips, Swiss chard, and other produce. "I saw certain people putting their names on some squash because they didn't want them picked before they were ripe," he said. "It's a community, so everybody kind of shared in it, and it was really quite neat."

In addition to bringing the community together, the garden benefitted pollinators and wildlife. "It was attractive for pollinators, for birds, and I have no doubt this winter when a lot of the brassicas and the squash, the pumpkins freeze down, the deer are going to be all over those squash and pumpkins," Persoon said.



Led by South Dakota Soil Health Coalition Soil Health Technician Baylee Lukonen (back left), students from the Boys and Girls Club of Watertown feed plants from a milpa garden to cattle. Photo courtesy of Boys and Girls Club of Watertown.



Produce from South Dakota Soil Health Coalition Soil Health Technician Baylee Lukonen's milpa garden went to the students at the Boys and Girls Club of Watertown, who visited the garden during the summer to learn about soil health. Photo courtesy of the SD Soil Health Coalition.

Next year, he said, "we're definitely going to do something like this again if not pretty much exactly the same thing again."

A milpa garden also offers soil health benefits.

"All of the soil is pretty well covered, and there's something living on almost every square inch," SDSHC Soil Health Technician Baylee Lukonen said. "When they call this a chaos garden sometimes, that's exactly what it is. The plants are all working together."

Lukonen grew a milpa garden on her farm near Watertown this year. "It was really cool to see that certain plants that have vining tendencies would actually vine up the sunflowers or the taller millet," she said. "That's how they were getting their sunlight. It's just really cool to see all of it working together aboveground, and if it's working together aboveground, there's definitely a lot happening belowground that we can't see."

Lukonen also used her garden to interact with the community. She invited the local Boys and Girl Club to bring students out to her farm each week to learn about soil health and pollinators.

"We thought it was a great idea," Watertown Boys and Girls Club Prevention Coordinator Brad Drake said. "We're always looking for additional programs for the kids, particularly if there's an educational component."

"The Boys and Girls Club brought out a group of about 10-15 kids every Thursday for a good portion of the summer," Lukonen said. "We just taught them about different things in the soil, soil properties, and we also taught them about the milpa garden and how everything that is in the milpa garden can grow together without being separated and planted into rows, which is different than your traditional garden."

The students ranged in age from 8 to 12 years old.

"There was a real emphasis on soil health, of course, so they talked a lot about cover cropping," Drake said. "It wasn't always the same kids each week that went out, but some of them got to see the whole process from the planting, to learning why it was important, to how these various crops have benefitted the soil, and different nutrients they added or drew up and made available."

Lukonen said the only challenging aspect to a milpa garden is that it is difficult to harvest, but she had a suggestion on how to make it easier. "Next year I think we are going to create walkways," she said. "If we want the kids to help with the harvest, we're going to have to make walking paths throughout."

Gardeners who are interested in trying a milpa garden can contact the South Dakota Soil Health Coalition at sdsoilhealth@gmail.com or 605-280-4190.

BEAR BUTTE VALLEY WATER



The first documented and recorded minutes for the formation of the Bear Butte Valley Rural Water System (BBV) located east and north of the town of Sturgis were recorded on April 2, 2009. The organizational meeting was the culmination of several telephone calls from Neal Rowett, a rural area resident, to the South Dakota Rural Water Office located in Spearfish. “If I recall the first conversation, it went something like this: ‘Are you the guy who can help a bunch of rural area ranchers and homeowners start up a water system?’” said former South Dakota Association of Rural Water Systems’ field program supervisor George Vansco. The reason for Rowett’s interest in starting a new system stemmed from a concern over poor water quality due to the local creek picking up undesirables as it weaved its way through the town of Sturgis. Bear Butte Creek has allowed some owners the benefit of drilling shallow wells near the creek while others were forced into deeper aquifers at a much higher cost.

With a desire to provide the area with quality drinking water; the next steps were getting local area residents involved and beginning to search for funds enabling them to conduct a feasibility study. After attending several Meade County Commission meetings and bringing the idea of developing another west river water system to the Department of Environment and Natural Resources (DENR), the steering committee decided to incorporate as a non-profit.

Five days after the first documented meeting, Bear Butte Valley Water was incorporated on May 7, 2009. At this meeting the following board members were elected: Neal Rowett, President; Robert Yantis, Vice-President; Bruce Weyrich, Secretary/Treasurer; Clair Rowett, Director; Don Chord, Director; Jesse Whitford, Director. As the years have passed, some directors dropped off the board and others were newly elected – but the majority of the board has remained the same.

While it takes most water systems about 30 years from inception to completion, Bear Butte Valley Water found itself on the fast track. After receiving their certificate of incorporation on May 7, 2009, they received funding from the state just a year later. Incorporating allowed them to get an initial \$7,500 in planning funds, which they used to pay DGR Engineering to draw up plans for the system. Total project costs in 2010 were estimated at \$5.1 million.

In April of 2010, BBV was given the go-ahead from USDA Rural Development to apply for loans after an archaeological study was conducted. A \$500,000 grant was received from the State of South Dakota through the Consolidated Water Facilities Construction Program to begin the project. The initial cost for those interested in hooking up to the system was \$1,500/connection. Meetings continued to be held to determine where the best source of water would come from. Proposals came in from cities, individual landowners,

campgrounds and others, while drilling a well for the system was also looked at as an option.

USDA Rural Development awarded Bear Butte Valley Water, Inc. with a water and environmental loan in the amount of \$2,917,000, and a grant of \$2,000,000 in January of 2014. The State of South Dakota also kicked in additional funding through a \$1,500,000 grant, an additional \$500,000 was acquired from DENR, and USDA Natural Resources Conservation Service provided significant funding through its EQIP program to provide water for livestock. Through this funding, construction was planned to expand the system to 150 miles of distribution pipeline, with water available to 220 users and 150 service locations upon completion.

A ground breaking ceremony was held on June 24, 2015 to commemorate the awarding of bids to complete the entire rural water system – including installing 110 miles of pipeline, storage reservoirs, and pumping stations. Bruce Jones – USDA Rural Development Acting State Director, and Jacqueline M. Ponti-Lazaruk – USDA Rural Development Assistant Administrator for the Water and Environmental Program in Washington, DC, were on hand at the ground breaking to announce additional funding of a \$200,000 loan coupled with a \$2,527,000 grant to complete the system. Representatives from the Congressional offices, the South Dakota Association of Rural Water Systems, Meade County Commissioners, the engineer, and Sturgis Economic Development were also on site for the ground breaking activities.

Said Neal Rowett, Board President of BBV Water, Inc. in October 2015, “This accomplishment is the result of many days, weeks, and years of service and perseverance by a dedicated board of directors, along with the help of professional guidance received from our engineering partners and South Dakota Rural Water. We appreciate the support of the community for the confidence these people have shown in our efforts. Bear Butte Valley Water is a community owned, non-profit corporation that will serve its members for many future generations. It is with great pride that we will be providing drinking water of excellent quality with enough volume and pressure to fulfill the needs of our members.”



DIRECTORS:

- Bruce Weyrich – President
- Ed Blair – Vice-President
- Bob Kaufman – Secretary/Treasurer
- Clair Rowett – Director
- Rich Grosch – Director
- Brook Looby – Director

STAFF:

- Dennis Kinslow – Manager
- Lisa Symonds – Bookkeeper

STATISTICS:

- Hookups – 275
- Miles of Pipeline – 3,100
- Water Source – wells
- Counties Served – Meade

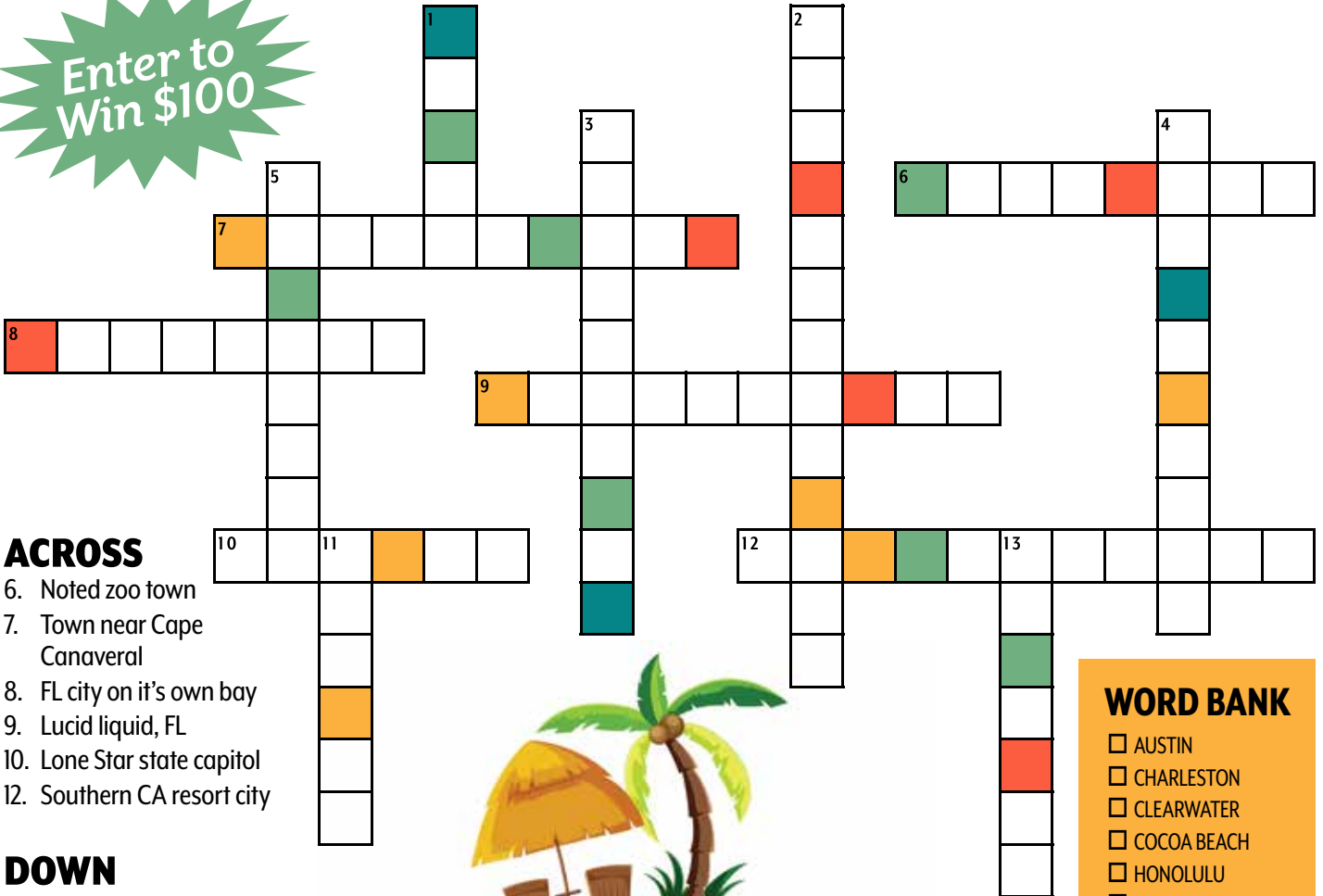


Bear Butte Valley Water's pipe arriving by the truckload in 2015.

RURAL WATER CROSSWORD & WORD SCRAMBLE CONTEST

SNOWBIRD DESTINATIONS

Enter to
Win \$100



ACROSS

- 6. Noted zoo town
- 7. Town near Cape Canaveral
- 8. FL city on it's own bay
- 9. Lucid liquid, FL
- 10. Lone Star state capitol
- 12. Southern CA resort city

DOWN

- 1. Buccaneer base
- 2. Atlantic resort
- 3. SC city
- 4. City of Saints
- 5. Pearl Harbor site
- 11. Red Rock city
- 13. Most populous state capitol



WORD BANK

- AUSTIN
- CHARLESTON
- CLEARWATER
- COCOA BEACH
- HONOLULU
- NEW ORLEANS
- PALM SPRINGS
- PHOENIX
- SAN DIEGO
- SARASOTA
- SEDONA
- TAMPA
- VIRGINIA BEACH

SCRAMBLE ANSWER



RULES: Use the colored squares in the puzzle to solve the word scramble above. Call your Rural Water System (See page 2 for contact information) or enter online at www.sdarws.com/crossword.html with the correct phrase by January 10, 2022 to be entered into the \$100 drawing.

Only one entry allowed per address/household. You must be a member of a participating rural water system to be eligible for the prize. Your information will only be used to notify the winner, and will not be shared or sold.

Congratulations to Perry Fischer with Mid-Dakota Rural Water who had the correct phrase of "HARD WORK BEATS TALENT" for January 2022.



**PIERRE RAMKOTA HOTEL
& CONVENTION CENTER**
920 WEST SIOUX AVENUE
PIERRE, SOUTH DAKOTA

FOR MORE INFORMATION, VISIT:
sdarws.com/annual-conference.html

SCHEDULE OF EVENTS | JANUARY 11-13, 2022

This schedule is tentative and subject to

TUESDAY, JANUARY 11

- 8 AM – 4 PM CONVENTION/REGISTRATION OFFICE
- 8 AM – 4 PM WATER PAC RAFFLE – LOBBY AREA
- 8:00 AM BREAK TABLE – LOBBY AREA

10:00 AM – 10:45 AM

- GALLERIES D-E FUSION DEMONSTRATION FOR SMALL-DIAMETER HDPE PIPE
– David Mosier, Core & Main
- GALLERY F WATER QUALITY IN THE BIG SIOUX RIVER: WHAT WE KNOW TODAY
– Jay Gilbertson, East Dakota Water Development District
- GALLERY G THE INVISIBLE ELEPHANTS OF GIS: PLANNING BEYOND INTERNAL ASSET
– Frank Parker, Banner Engineering, Inc.

10:45 AM – 11:30 AM

- GALLERY D-E SANITARY PROBLEMS IN STORAGE
– Clyde H. Zelch, Tomcat Consultants, LLC/T.A.P. Company
- GALLERY F LAGOON BASED SYSTEM UPGRADES - CASE STUDIES & UNIQUE DESIGNS
– Isaiah LaRue, Nexom
- GALLERY G CASHING IN ON YOUR COMPREHENSIVE FINANCIAL PLAN
– Sarah Sesselman, AE2S
- LAKE SHARPE B QUALITY ON TAP! EDITORIAL BOARD MEETING
– Jennifer Bame, SDARWS

This closed meeting is for Rural Water Systems who are interested in, or currently participate in the Quality on Tap! magazine produced by South Dakota Rural Water. Rural water managers, staff, and board members are invited to attend.

11:30 AM - 1:00 PM
BREAK FOR LUNCH - ON YOUR OWN

1:00 PM – 2:30 PM

- AMP. II **OPENING SESSION**
– Welcome, Ron Gillen, SDARWS President
– National Anthem/Pledge of Allegiance
– AE2S Sponsor Message
– Keynote Address, Holly Hoffman

2:30 PM - BREAK TABLE RAMKOTA CONVENTION CENTER LOBBY

3:00 PM – 4:30 PM

- AMP. II **KEYNOTE BREAKOUT**
– Holly Hoffman

3:00 PM – 3:45 PM

- GALLERIES D-E WATER TOWER SERVICE AGREEMENTS AND TANK MAINTENANCE
– Michael Novitzki, KLM Engineering, Inc.
- GALLERY F STURGIS: MORE THAN A MOTORCYCLE RALLY!
– Jayme Klecker, AE2S
- GALLERY G COMMUNICATION WITH YOUR CUSTOMERS
– Brian Cooper, Maguire Iron
- LEWIS & CLARK ZEBRA MUSSEL CONTROL
– Tim Donovan, Hawkins
- L. FRANCIS CASE SYSTEM WATER CONSERVATION
– Rachel Kloos, ISG Inc.

3:45 PM – 4:30 PM

- GALLERIES D-E SMALL SYSTEM PLANNING FOR CAPITAL IMPROVEMENT PROJECTS
– Clint Powell, Brosz Engineering
- GALLERY F BIO-AUGMENTATION & AQUATIC PLANTS
– Gary Syverson, Team Laboratory Chemical Corp.
- GALLERY G ON-SITE SODIUM HYPOCHLORITE GENERATION: A SAFE & RELIABLE DISINFECTION ALTERNATIVE TO BULK SODIUM HYPOCHLORITE & GAS CHLORINE
– Jeff Rhodes, UGSI Solutions
- LEWIS & CLARK AMMONIA IN YOUR WATER - WHAT NOW?
– Julie Sievers, ISG
- L. FRANCIS CASE TURBIDITY OR CHLORINE MEASUREMENT
– Brian Wilson, HF Scientific

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WEDNESDAY, JANUARY 12

8 AM – 4 PM CONVENTION/REGISTRATION OFFICE

8 AM – 4 PM WATER PAC RAFFLE – LOBBY AREA

ANNUAL MEETING – 8:15 AM

AMP. I 47TH ANNUAL MEMBERSHIP MEETING

– Ron Gillen, SD Rural Water President

This is the Official Membership Meeting of the South Dakota Association of Rural Water Systems. Delegates and Alternates are encouraged to attend. Pre-assigned seating arrangements have been reserved based on number of voting members per system.

8:00 AM – 8:45 AM

AMP. II UNIQUE TWO-STAGE FILTRATION APPROACH FOR IRON, MANGANESE, & AMMONIA REDUCTION

– Darin Schriever, P.E., DGR Engineering

LEWIS & CLARK DISTRIBUTION NETWORK THM MITIGATION IN CONSECUTIVE & WHOLESALE WATER SYSTEMS

– Jeff Rhodes, USGI Solutions

L. FRANCIS CASE THE PATH TO A MORE SUSTAINABLE FUTURE – BDM RURAL WATER SYSTEM

– Brian Bergantine, AE2S, and Rod Kappes, BDM

8:45 AM – 9:30 AM

AMP. II TARGETING WATER PROBLEMS

– Craig Steve, IXOM Watercare

LEWIS & CLARK MOBILE VS. FIXED NETWORKS

– Dan Van Overbeke & Jim Urban, Mueller

L. FRANCIS CASE ENHANCING THE BENEFITS OF HYDRAULIC MODELING THROUGH AMR METERS

– Greg Hansen, P.E., AE2S

9:30 AM - BREAK TABLE
RAMKOTA CONVENTION CENTER LOBBY

10:00 AM – 10:45 AM

AMP. II HDPE IS MUNICIPAL WATER AND SEWER APPLICATIONS

– Richard Kolasa, WL Plastics

LEWIS & CLARK EXTENDING THE LIFE OF YOUR WATER STORAGE TANK WITH MAINTENANCE, OPERATIONS AND COATINGS

– Larry Kirschmann, NACE I & II, Bartlett & West

L. FRANCIS CASE YOU HAVE THE DATA, NOW USE IT TO MAKE BETTER INFORMED CAPITAL PLANNING DECISIONS

– Trevor Datwyler, P.E., AE2S

RURAL WATER CENTER – 10:00 AM

AMP. I RURAL WATER CENTER ANNUAL MEETING

This is the Official Membership Meeting for Rural Water Center

10:45 AM – 11:30 AM

AMP. II FILTER MEDIA REPLACEMENT CONSIDERATIONS AND IMPACTS

– Julie Sievers, ISG

LEWIS & CLARK HABS: HARMFUL ALGAL BLOOMS

– Josh Strobel, DANR

L. FRANCIS CASE MODERNIZING SCADA TO IMPROVE THE OPERATOR EXPERIENCE

– Cullen Wells, AE2S

11:30 AM - 1:00 PM
BREAK FOR LUNCH - ON YOUR OWN

1:00 PM – 1:45 PM

AMP. I LEGISLATIVE PANEL

– Staff of Senator Thune, Senator Rounds, and Representative Johnson

AMP. II ARP

– Mike Perkovich, DANR

LEWIS & CLARK WATER TANK WINTER OPERATIONS

– Richard Kemmis, Maguire Iron

L. FRANCIS CASE CASHING IN ON YOUR COMPREHENSIVE FINANCIAL PLAN

– Sarah Sesselman, AE2S

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WEDNESDAY, JANUARY 12

1:45 PM – 2:30 PM

- AMP. II REGULATORY UPDATE
– Mike Perkovich, DANR
- LEWIS & CLARK A DAY IN THE LIFE OF A PUMP TECH
– Darin Waldner, Dakota Pump & Control
- L. FRANCIS CASE OPTIMIZING RURAL WATER USER SIGN-UP THROUGH GIS
– Dan Lissick, AE2S

2:30 PM - BREAK TABLE | LOBBY
SPONSORED BY BUTLER MACHINERY

3:00 PM – 3:45 PM

- AMP. II SD LEGISLATIVE SESSION PREVIEW & RALLY ORIENTATION
– SDARWS
- AMP. II ADVANTAGES OF ASBUILT
– Jim Sebert, Dakota Pump, Inc.
- LEWIS & CLARK VALVE & HYDRANT OVERVIEW
– Sawyer Heidesch, AVK
- L. FRANCIS CASE SDWARN UPDATE
– Brad Lawrence, SDWARN Chair

4:00 PM - 8:00 PM

- GALLERIES D-G EXHIBIT HALL & LEGISLATIVE RECEPTION
RURAL WATER TASTE TEST FINALS @ 7:30 PM
WATERPAC WINNERS ANNOUNCED @ 7:45 PM

THURSDAY, JANUARY 13

8:00 AM – 9:30 AM

- GALLERY D-E SOUTH DAKOTA LEGISLATURE OPEN FORUM

9:00 AM – 11:00 AM

- GALLERIES A-C SOUTH DAKOTA RURAL WATER ANNUAL AWARDS BRUNCH

DGR
ENGINEERING

AWARDS
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DOES YOUR
SYSTEM HAVE
THE BEST
DRINKING WATER
IN SOUTH
DAKOTA

ENTER THE RURAL WATER TASTE TEST CONTEST!

RULES:

- Bring your sample to the SDARWS ATC registration desk by 2:00 PM on Tuesday, January 11th, 2022
- Samples must be submitted in a glass jar quart size or larger labeled with your system name.
- No water system can represent more than one entry from their system.
- Systems submitting samples must be members of SDARWS and meet DENR approval by having no violations of bacteriological testing or chemical monitoring for two years prior to the Taste Test.

JUDGING CRITERIA:

A panel of judges will be selected to choose the winners. Judges will consider:

- Taste
- Clarity
- Odor



PRIZES:

First place will represent all of South Dakota in the National Drinking Water Taste Test in Washington, DC in February 2023, an art-glass trophy, two Full-Conference registration passes for the 2023 Annual Technical Conference, recognition in *ServiceLine* magazine, and bragging rights for the next year!



P.O. Box 287
 Madison, SD 57042
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WATER MATTERS

State Navigable Streams



Navigable streams in South Dakota are considered public highways and the right of the public to use such streams can not be prohibited or unduly restricted. Under State law, a stream, or portion of a stream, is considered navigable if it can support a vessel capable of carrying one or more persons throughout the period between the May 1st and September 30th, inclusive, in 2 out of every 10 years (SDCL 43-17-34).

In 1990, legislation was enacted to allow fencing of certain navigable streams provided that a gate be installed in the fence crossing the stream. Rivers and creeks in the state where gates are required in fences include portions of the Bad, Big Sioux, Cheyenne, East Vermillion, Elm, Grand, Little White, Moreau, Redwater, Vermillion, and White Rivers; and Flandreau, Firesteel, Moccasin, Splitrock, and Turtle Creeks.

The Missouri River, James River, Boise des Sioux River, and the lower five miles of the Big Sioux River are designated as navigable rivers pursuant to federal law and may not be fenced under any circumstances.



Gate and Fence Requirements. Fences constructed across navigable streams are required to have a gate with a minimum opening size of 6-feet high by 6-feet wide and the opening must be outlined with reflective tape or other highly visible material. In addition, reflectors or highly visible material must also be attached to the fence connecting the gate with the stream bank, and the reflectors must be no more than 25 feet apart and visible from both up and downstream. If no livestock are present, then the gates need to be removed or kept open.

A “Guide to Fencing of Navigable Streams” brochure is available online at: danr.sd.gov/OfficeOfWater/WaterRights/docs/StreamFencingGuide.pdf. This brochure outlines the responsibilities of landowners and recreationists as well as fencing requirements. In addition, a complete listing of applicable statutes and rules are available for review in South Dakota Codified Laws 43-17-34 through 43-17-41, and Administrative Rules of South Dakota Chapter 74:02:10.



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132B Airport Avenue
 Brookings, SD 57006
 605-688-6741
eastdakota.org