



				
Today Fog H 32 L 14	Thurs Partly Cloudy H 21 L 10	Fri Partly Cloudy H 23 L 16	Sat Mostly Sunny H 33 L 18	Sun Mostly Sunny H 29 L 16



A look at next week... Local high school athletes are presented with awards at the Chargers Fall Sports Athletic Banquet.



Nathan Rittenour and his wife, Starla, with workers in the Democratic Republic of the Congo on April 13, 2014.

Grygla native, Nathan Rittenour, develops new water well hand pump to be used in the Democratic Republic of the Congo

The following article was published in the November 2015 issue of the *Water Well Journal*. *Water Well Journal* is a monthly trade publication that goes to more than 24,000 readers in the United States and overseas that covers topics such as drilling techniques, geothermal systems, pumping systems, well maintenance, water quality and treatment and more. The November issue of *Water Well Journal* always focuses on global water.

Mike Price, Information Products Editor at the National Ground Water Association, wrote a story for the WWJ November issue, titled 'Sustaining the Future: Organizations work to ensure water well hand pumps continue to operate after installation in developing nations.' As part of that feature, he included a piece on Grygla native, Nathan Rittenour, titled 'Struggles with Installation Lead to Development of New Water Well Hand Pump'.

The story below is being reprinted with permission from the National Ground Water Association. ©2015

Struggles with Installation Lead to Development of New Water Well Hand Pump

Nathan Rittenour's growing frustrations with installing hand pumps in the Democratic Republic of the Congo spurred him to action.

The director of development for Congo Front-line Missions believed a better alternative could be created – prompting him to design his own hydraulic hand pump with the help of two engineers and a machinist. In testing, the hand pump has pumped more than 150,000 gallons of groundwater with more than one million hand strokes without any major breakdown.

"My original plan was to produce the pump

for my own use, but after seeing the poor quality of pumps in use in other countries, I want to make my pump available for sale for worldwide use," says the 34-year old Rittenour who lives in Kasson, Minnesota.

The pump's key component is its bladder design. Being hydraulic, Rittenour eliminated the need for the drop rod that goes to the bottom of the well. This and other moving components have been removed, eliminating potential problems, according to Rittenour.

Here is how the pump works: As the handle is pushed down, water is pushed into the bladder, expanding it. You can think of this bladder like a balloon. The bladder is inside of the lower main water cylinder. As the bladder expands, the water is pushed out of the cylinder into the output line, and thus out of the pump spout. As the handle is raised, the bladder shrinks and water is drawn into the cylinder, and the process is repeated. The cylinder has two valves, one at the top and bottom, and an expanding bladder inside of it.

Rittenour has drilled 38 water wells since February 2010 in the Democratic Republic of the Congo (DRC) with a Little Beaver LS200H portable rig with an 11 hp hydraulic unit, 11 hp mud pump, and 5-foot drill stem. The average depth of the 38 wells is 125 feet. The drilling formation is sand, gravel or shale.

His experience installing hand pumps includes the Afridev and India Mark III models, both manufactured in India for export to Africa. He found the DRC government-installed U2/U3

Rittenour...
Continued on page 2

'Tis the Season of Giving

Once again, the Marshall County Social Services is sponsoring the 'Sharing Tree' project. This is an opportunity for

the people of Marshall County to show their love and generosity by purchasing a gift for a child in need.

Ten trees were set up in the county last week, with ornaments on them representing a child in need of a Christmas gift. American State Bank of Grygla is one of the ten locations that a 'Sharing Tree' is set up.

If you would like to help by purchasing a gift, stop at American State Bank and choose an ornament. You will sign up with a bank employee and be given details regarding the child's size and/or wish list. Purchase a gift in the amount of \$10-\$20 and bring the unwrapped gift back to the bank before the December 2nd deadline.

The Grygla/Gatzke Jaycee's help by volunteering their time wrapping gifts and getting them ready for Marshall County Social Services to deliver.

Please consider being a part of this successful project and help make a difference in the lives of area youth this holiday season.



ASB Employees - Kim Schulz and Julie Sparby

Iron Chargers compete in most successful VEX Robotics Competition yet

The Iron Chargers 4149C & 4149G teams attended their first VEX Robotics Competition of the year in Albany, MN last weekend and have never had such a successful competition! Their list of achievements included: Tournament Champions, Design Award, Excellence Award, highest programming skills score in the state, highest robot skills score in the state and the highest score in a match in the state! FUN FACT: The club's "autonomous skills" score is #1 in the state and #25 in the WORLD, which is ranked out of thousands of teams!

For those who couldn't be in attendance in Albany, club advisor, Isaac Kvasager, kept friends, family and community members updated on the match via Facebook and a live stream online. He said, "I'm quite proud of the teams. They have put in many hours to achieve what they did today."

Twenty-seven teams were at the event and competed in a challenge called 'Nothing But Net', which consists of the robots shooting balls into high and low goals. After a successful day, both Iron Charger teams are now qualified for the State Competition in late January.

Congratulations to the older team, 4149C, who were the tournament champions and also the recipients of the Excellence Award, which is the highest award given. This is the third year in a row that the Iron Chargers have received this award! Team 4149C also obtained the highest tournament score in the state! Team members and jobs are: McKayla Vad (Design Notebook/CAD), Dustin Nelson (Builder/Driver), Kelly Dougherty (Programmer/Builder), and Trystan Jelle (Builder and updates website, Facebook, Twitter, etc.).

The younger team, 4149G, lost to the older team in the semi-finals, but they won the design award, which is the second highest award! Both teams advanced to the semi-finals the day of the competition, but beings they were in the same bracket, only one team could advance. Team members and jobs are: Hudson McMillin (Builder), Chris Luttrell (Builder), Jake Ahlbeck (Builder), Lucian Tinnes (Builder/Driver), Julianne Nordby (Programmer/CAD/Design Notebook), and Elise Monson (Builder/Backup Programmer).

The next VEX Robotics Competition will be held in Bemidji at BSU on Saturday, December 5th, at 10am. Friends and family are welcome to support the team in person; otherwise the competition will be live streamed online.



Team 4149C were named 'Tournament Champions' at their robotics competition in Albany last weekend. Team members, L-R, are McKayla Vad, Dustin Nelson, Kelly Dougherty and Trystan Jelle.



The Iron Chargers Robotics Club, back row, L-R: Hudson McMillin, Chris Luttrell, Dustin Nelson, Jake Ahlbeck, Lucian Tinnes. Front row, L-R: McKayla Vad, Trystan Jelle, Kelly Dougherty and Julianne Nordby. Not pictured: Elise Monson

Fourtown/Grygla Sportsman's Club Fall Raffle winners

The Fourtown/Grygla Sportsman's Club held their Fall Raffle Drawing last Saturday evening in Fourtown. Raffle proceeds go to the club's donations through the year, including scholarships provided to area schools.

1st place: Weatherby Vanguard .270 cal. - Bill Grogg, St. Paul
2nd place: Savage Stainless .17 cal. Bolt - Ben Kvasager, Plummer
3rd place: Remington 870 Express 12 ga. - Jesse Newton, Grygla
4th place: Ruger 10/22- Eli

Osturg, Buffalo
5th place: CVA .50 cal. Black Powder - Gary Mintz, TRF
6th place: \$100 - Roger Coan, Goodridge
7th place: \$100 - Biff of Biff's Kitchen, TRF

CHURCH CALENDARS

GRYGLA LUTHERAN PARISH
Grace and Our Savior's, Grygla
Pastor Vicki Saude-Worthington
Wednesday, Nov. 25:
6pm Choir, 7pm Grace
Thanksgiving Eve Worship
Sunday:
Grace: 10:30am Worship, 9:15 SS
Our Savior's: 9am Worship, 10am SS

GATZKE-THIEF LAKE LUTHERAN PARISH
United - Gatzke; Our Savior's - Thief Lake
Pastor Craig Bowyer
Wednesday, Nov. 25:
Thanksgiving Eve Worship at United 7pm
Sunday:
United: 11am Worship, 10:15am SS
Our Savior's: 9am Worship, 10am SS

GOODRIDGE AREA LUTHERAN PARISH, ELCA
Bethany, Ekelund, Faith
Pastor Robert W. Dahlen
Wednesday, Nov. 25:
Thanksgiving Eve Services at St. Ann's 7pm
Sunday:
Faith: 8:30am Worship, 9:45am SS
Bethany: 9:45am Worship, 10:30am SS
Ekelund: 11am Worship, 9:45am SS

THE CATHOLIC COMMUNITIES OF St. Clement's - Grygla; St. Ann's - Goodridge
Fr. Adam Hammess
Sunday:
St. Clement's: 11:45am Worship
St. Ann's: 10am Worship.

BETHESDA LUTHERAN CHURCH
Skime
Pastor Blaine MacNeil
Sunday:
8am Worship, No SS

COMMUNITY BIBLE CHURCH

Christian & Missionary Alliance of Grygla
Pastor TBA
Sunday:
9:30am Worship, 11am SS and Adult Bible Class.
Wednesdays:
7pm Bible Study and Prayer.

CLEARWATER LUTHERAN PARISH
St. Petri - Grygla; Mt. Olive, Nazareth - Trail; Oak Park - Oklee
Pastor Jeff Merseth
Wednesday, Nov. 25:
Thanksgiving Eve Services at Mt. Olive 5pm, Oak Park 7pm
Thursday, Nov. 26:
Thanksgiving Services at St. Petri 8am, Nazareth 9:30am
Saturday:
Mt. Olive 9am Worship, 10:15am SS/Confirmation
Sunday:
St. Petri: 8am Worship, 9:15am SS
Nazareth: 9:45am Worship, 8:30am SS
Oak Park: 11am Worship, 9:45am SS.

LIBERTY CHAPEL Grygla
Fellowship of Christian Assemblies
Sunday:
9:30am Worship.

Community Education

Holiday Crafts
Instructors: Hazel Thomas, Amy Holte and Tami Irlbeck
Your choice of three crafts: denim Christmas stockings, tree Christmas card holder or lighted Christmas garland. Choose 1 or more! Bring a pair of jeans to cut up for the denim stockings.
Cost: \$3.00/denim stockings, \$12.00/tree card holder, \$20.00/lighted garland.
The class will be held on December 10th from 6-9pm. Registration is due by December 3rd. Class will be held in the Grygla School FACS room.

Christmas Baking Made Easy
Instructor: Kandy Sundberg
No shopping or searching for recipes! Make, bake and take your goodies home. Bring containers to hold 8-10 dozen cookies. Don't need that many treats? Bring a friend and split the cookies and the cost!
Cost: \$30.00
The class will be held on December 16th from 6-9pm. Registration is due by December 9th. Class will be held in the Grygla School FACS room.
Make checks payable to Grygla School. Fees may be paid the night of the class.
See the school website for updated Community Ed info: www.grygla.k12.mn.us or call 218-294-6155 or email aholte@grygla.k12.mn.us.

Goodridge Public School
Position Open: Route Bus Driver. For information and application, contact Tim Anderson, transportation supervisor, Goodridge Public School, PO Box 195, Goodridge, MN 56725. Phone: 218-378-4133, email: tim_anderson@goodridgeisd561.org. Open until filled. G33-36C

THIEF RIVER FALLS RADIO
KTRF AM 1230 KKAQ AM 1460 KEDQ FM 99.3
CHARGERS' BASKETBALL
KKDQ/KTRF
~ Listen Live on TRF Radio ~
GG Chargers BBB vs/EGF Sacred Heart in Goodridge ... MONDAY, NOV. 30
GG Chargers BBB/GBB Double Header vs. SAC in Grygla ... TUESDAY, DEC. 1

Christmas Party at Diamond's
for all paid up members and spouses on DECEMBER 19TH.
If interested in going, please let Thelma know by December 1st so they will know how much food to order.
Thelma Thomas, Pres., 218-294-6386
NOTICE DATE CHANGE

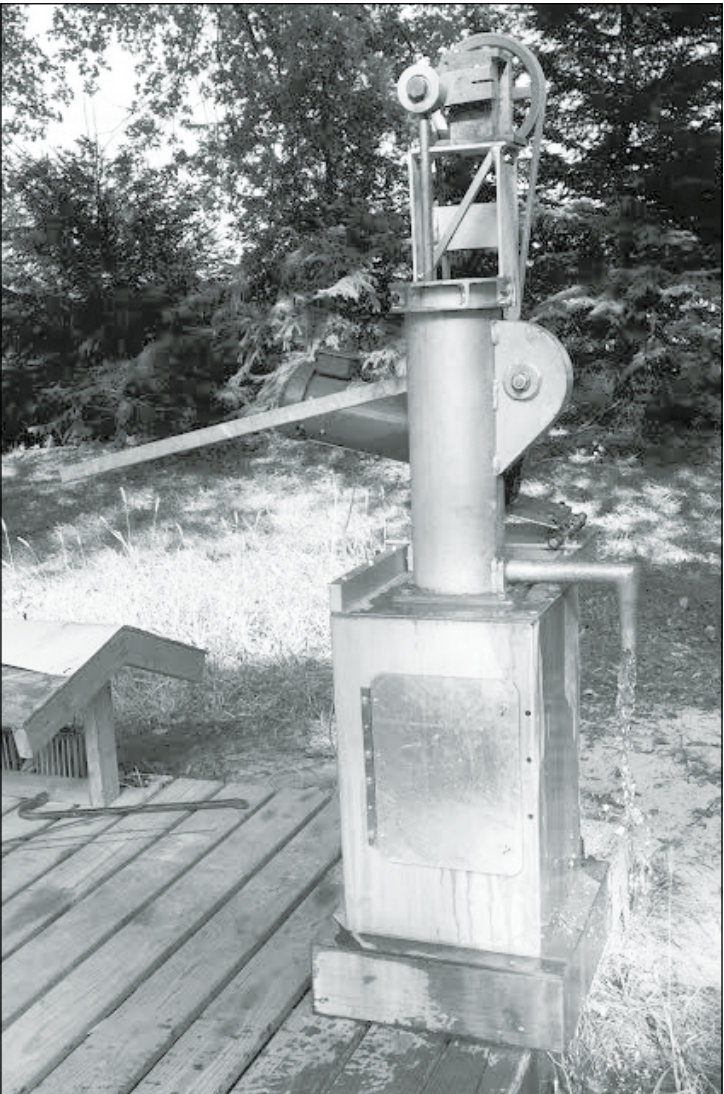
GRYGLA LIBRARY LINK

By: Karen Olufson

Hello Wonderful Readers and a Happy Thanksgiving to you! Sure hope you enjoy turkey day with your friends and family! I know this time of the year is very busy, but maybe you can sneak in a little reading time, too. Remember, since you're likely spending time with some children this Thanksgiving, it's a good time to read to them. It's a great bonding experience and something they'll treasure long after it's over.
NEWS FLASH! Please note that we will NOT be open the day before Thanksgiving as originally planned! Unfortunately the library is short staffed that week so they don't have an extra sub to send up here. I hope this doesn't mess up anyone's plans too seriously. I'm guessing you might all be pretty busy that day anyway so you won't miss me too much! (Smile!) Anyway, as far as I know we should be here all the Wednesdays in December, so we'll get back on track next month! I'm looking forward to seeing you then.
I just want to let you know that things got a little mixed up here with the Veterans Day holiday this month so we're a little behind. We didn't get our monthly delivery last week as we normally do and now we won't get it until the first week in December, but I promise you it will be on the shelves then. You'll have lots of new items to look through that week, so please come and visit us. (I miss you when you don't come!) The new items will have red "NOV" stickers on the bindings so you'll know which ones they are.
Maybe today I'll let you know about some brand new items we got in this past week. They haven't even been used yet! (Smile!) We received the movie JURASSIC WORLD, but I see that already has a hold on it so good luck chasing that one down. We can always put a hold on it for you if you would like.
For adults we got in Lynda Byler's new book, MARY'S CHRISTMAS GOODBYE. It says it's an Amish romance. We also got in AVENUE OF MYSTERIES by John Irving. The book takes place in Mexico and the Philippines and is about what happens when the title character's past collides with his future.

Rittenour... Continued from front

Modified Deep Well pumps – similar to India Mark models – to be well designed but poorly manufactured. This led most to last only three to nine months on average unless the manufacturing defects were corrected and the pump was properly installed.
He also had fits working with the Afrived polyvinyl chloride (PVC) pipe due to the bell end being manufactured too large – so the riser pipe on the pump leaked, forcing him to heat the pipe and re-bell it to fit properly. The machining of the pipe threads with the India Mark style pumps also gave Rittenour headaches. He had to cut of the ends and rethread them by hand and replace the couplings with new ones purchased in the United States.
"I feel like I shouldn't have



Rittenour's hydraulic hand pump has pumped more than 150,000 gallons of groundwater with more than one million hand strokes without any major breakdown in testing. Photos courtesy of Congo Frontline Missions.



Congo Frontline Missions drills with a Little Beaver LS200H portable rig in Obilo, a village in the Democratic Republic of the Congo in June 2012. The drilling formation was sand. Photo courtesy of Congo Frontline Missions.

Community Blood Drive set for next week

Grygla Gatzke residents are gearing up for a community blood drive to help prevent possible blood shortages over the winter. To make sure there's a dependable blood supply locally, the Grygla Lion's Club has scheduled a community blood drive for next Wednesday, December 2nd, from 11am-5:30pm at the Grygla Community Center. For an appointment contact: Ralph at 294-6177, Sheldon at 294-6176, Mildred at 459-3436 or Nadine at 459-3315 or go to www.bloodhero.com.

HELP WANTED:
OFFICE SUPPORT SPECIALIST
Duties include: Assist director, provide support to staff, communicate with general public, and community agencies, work with specialized software, computer and writing skills are essential. Salary Range \$14.61-19.83/hour. Will require passing Minnesota Merit System test. Contact Lisa at Marshall County Social Services, 218-745-5124 if you have any questions. For an application, go on line to http://agency.governmentjobs.com/mnmeritsystem/default.cfm. Marshall County is an Equal Opportunity Employer. Deadline to apply is 11/25/15. G33-35C

HELP WANTED:
CHILD SUPPORT OFFICER
Position responsibilities include: ability to establish and enforce child support orders of both public/non-public assistance clients; locate absent parents; interview parents; initiate legal action, work closely with county attorney, social service staff and courts, testify in court proceedings and maintain organize legal documents. Computer skills, relating to people, and writing skills are essential. Salary range 18.36 to 25.52/hour depending on past child support experience. Will require passing Minnesota Merit System test. Contact Lisa at Marshall County Social Services, 218-745-5124 if you have any questions. For an application, go on line at http://agency.governmentjobs.com/mnmeritsystem/default.cfm. Marshall County is an Equal Opportunity Employer. Deadline to apply is 11/25/15. G33-35C

WE WILL BE CLOSED
Wednesday evening hours
November 25, 2015
And all day
THANKSGIVING DAY
November 26, 2015
In two locations
FDIC
ASB AMERICAN STATE BANK
www.asbgrygla.com
PO Box 78
Grygla, MN 56727-0078
(218) 294-6111 • TOLL FREE (877) 814-9937
FAX (218) 294-6239
201 Vance Ave. S.
Erskine, MN 56535
(218) 687-2865 • TOLL FREE (800) 434-7721
FAX (218) 687-2328

U.S.P.S. No. 002330
Grygla Eagle
Serving Eastern Marshall & Northern Beltrami Counties
PUBLISHER - RICHARD D. RICHARDS
Kari Sundberg - EDITOR
Phone 294-6220
—SUBSCRIPTION RATES—
\$25 per year in the trade area (Grygla, Gatzke, Goodridge & Wannaska addresses)
\$30 per year outside of the area
PUBLISHER'S LIABILITY FOR ERROR:
The Publisher shall not be liable for slight changes or typographical errors that do not lessen the value of an advertisement. The Publisher's liability for other errors or omissions in connection with an advertisement is strictly limited to publication of the advertisement in any subsequent issue or the refund of any monies paid for the advertisement.
The "Grygla Eagle" is published weekly by Richards Publishing Co., Inc., Box 159, Gonvick, MN 56644. Periodical postage paid at Grygla, MN 56727.
POSTMASTER: Send address changes to: Grygla Eagle, PO Box 17, Grygla, MN 56727.

“How do you cook a turkey?”

Instructions from Grygla Elementary Second Graders, written in their own words.

Harlie Hagen

First, Put the turkey in the oven. Next, Shut the oven door. Then, Turn the oven on. Next, Put it on a plate. Finally, Enjoy the turkey.

Raymond Moe

First, you butter it and salt it. Next you cook it. Then, you wait. Finally, you eat the Turkey and go and play.

Lucy Mickelson

First, you find a turkey. Next, put it in a pot. then, find some broth. Next put it in the oven. Then cook it for 35 minits. Finally take it out and eat it.

Jackson Bessler

You gut it first. You grab pop cans next. Then, You put it on a can holder. Next you put it in the oven. Finally, you tack it out of the oven. eat it the end.

Mollie Lunsetter

First you boil, next you put a turkey in a oven. Then you see if you take the temperature. Finally you eat then you are giting full The end.

Seth Kaczor

First buy a turkey. Next get the bonse out then tie it up With string. Next put it in the oven. Then take it out and Finly eat it.

Robbie Mosher

First you Put The Food A Few minist. then get it out of The Stove. Next you Put

butter on it. Finally you can eat it.

Jamie Dennis

First, I need to go buy a turkey from the Co-op Store in Grygla. Next, I will pre-heat the oven and gather all of my ingredients. Then, I will stuff the turkey with all the good stuff and put it in the oven to cook. Finally, my family and I will eat my delicious turkey on Thanksgiving Day.

Janessa Torgerson

First, you buy a Turkey. Next, you Take off the plastic. Then, you put the turkey in the oven and close the door. Next, you take the turkey out of the oven and put the turkey on the tabel. Finally, eat the turkey.

2015-16 Chargers Basketball season is underway

Last Friday, November 20th, was the first Chargers Boy's Basketball game of the season. The team traveled to Greenbush to play the BGMR Gators. GG lost the game by 10 points and Head Coach Mike Gast says, "We had too many turnovers. We ran into foul trouble and missed a lot of easy baskets. The kids played hard, though, and didn't give up."

Moving forward with the season, he also added, "We need to be a bit more disciplined."

Scoring: Dylan Walker 21, Ty Jelle 10, Blaine Kriel 10, Ben Groven 8, Benji Wilebski 3, Hogan Lundeed 2, Jesse Wiseth 1.

Coming up on the Charger's Basketball Schedule this week: Tuesday, November 21st, BBB in Fosston. Next week, the BBB

team will host EGF-Sacred Heart in Goodridge on Monday, November 30th. On Tuesday, December 1st, there will be a GBB/BBB Double Header in Grygla against Stephen/Argyle. Another Double Header will be played on Thursday, December 3rd, also in Grygla, where the Chargers will host Red Lake Falls.



Grygla School celebrated American Education Week November 16th-20th.

What is American Education Week?

A week that presents all Americans with a wonderful opportunity to celebrate public education and honor individuals who are making a difference in ensuring that every child receives a quality education. Parents, grandparents and family members were invited to the school on Friday morning, November 20th, to join their little one in the classroom and were also invited to stay for lunch.



Pictured left: Ava Sorvg, Grygla Elementary Third Grader, is pictured with her grandma, Nadine Wold.

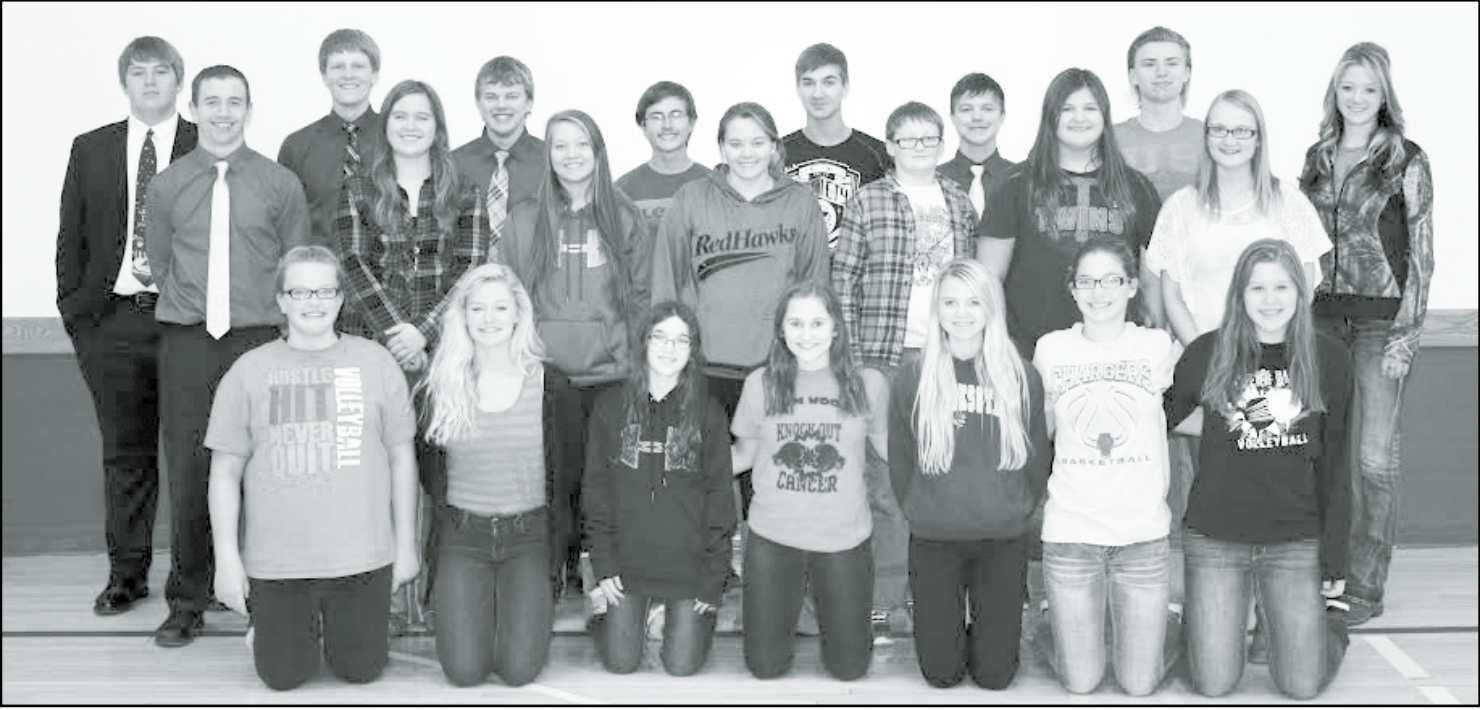
Grygla School celebrates American Education Week



Shane Torgerson spent some time with his son, Kaylor, in Mr. Gast's fifth grade class last Friday morning in honor of American Education Week.



Angie Mickelson (with daughter, Chey) and Jamie Aune spent the morning with their kids in Ms. Walton's third grade class. (Also pictured in the back is the Nordby family.)



Goodridge 'A' Honor Roll

Bottom row, L-R: Madison Paulson, Ashlyn Henrickson, Shantel Horachek, Mercedes Coan, Amy Wiskow, Trinity Walseth and Madilyn Race. 2nd row: Benji Wilebski, Kristin Farris, Kayla Walseth, Alexis Kiesow, Blake Jensen, Jaclyn Zaviska, Mariah Coan. 3rd row: Brandon Stanley, Ben Groven, Dylan Manderud, Jordan Skibicki, Jordan Nelson, Jeremy Wiskow, Caleb Olson and Daylyn Kainz. Not pictured: Kansas Jensen



Goodridge 'B' Honor Roll

Bottom row, L-R: Hannah Dietsch, Shyann Harzke, Jordynn Johnsrud, Kayla Kiesow, Mataya Sargent, Nichole Arveson and Kaylee Amundson. 2nd Row: Jordan Horachek, Marisa Newton, Nikkayla Poty, Zachary Marquis, Felix Jensen, Vivian Coan, Riley Manderud, Ian Haugen, Moses Jensen and Cynthia Sampson. 3rd Row: Logan Merrill, Preston Panek, Blake Nerhus, Blake Passa, Alec Kiesow, Brooke Anderson, Hogan Lundeen, Libby Johnson, Dylan Walker, Jacob Tharaldson, Kendra Jensen, Brandon Kostrzewski, Kaleb Sjulestad, Jesse Wiseth and Jordey Marquis. Not pictured: Kalie Konickson, Katerina Groven, Maloni Henrickson, Casey Solberg, Abby Brown, Donavin Hagen, Logan Knutson, Justice Rodriquez

City Council Mins.

were approved at the start of the meeting: previous month's minutes, receipts & disbursements and payment of all bills presented on the claims list.

Other items included:

Water Tower Inspection

Rocky got a proposal from TMI Coating for the water tower; it was quite a bit higher than what council was expecting and will continue looking.

Lift Station Repairs

Rocky suggested that the council budget \$7,500 for Lift Station repairs for 2016.

Community Center

Nothing new on the grant yet. Eagle office to be renovated this winter.

Grygla Seed/New Lots

Waiting for the bill from Marshall County on the culverts before the deed can be worked on with Grygla Seed. Tony Nordby will do some measuring for the lots when he's in the area.

Safe Routes to School

Grant

There were no bids received on September 23rd. The project is put on hold until Spring.

Playground Equipment

Nothing new to report at this time.

Campsite Hookups

Nothing new to report.

Airport

Nothing new to report on electrical hookups at the airport.

Radar Speed Limit Signs

There might be some funding through the county for this.

Veteran's Memorial Lot

Mosher will talk with the Veterans to see what they want to do with the lot.

Lots East of Water Tower

The paperwork is done with Brian Rokke. When Farmer's Union makes the payment, there is a \$46 fee that needs to be paid at the Recorder's office. That is the same for the lot the city sold to Richard Davenport. A motion was made/carried to pay the recording fee and deed tax for each sale.

FF Electric Pole

The Fall Fest Committee hasn't met yet, so no discussion was done on this.

Revolving Loan

Council needs to meet with the businesses that have outstanding revolving loans about getting them paid back.

Liability Waiver

Waiver form for liability coverage was approved.

Sewer Backup Resolution

Resolution for Sewer Backup Coverage approved.

Ship Grant

Oslund is working on a mini-grant for SHIP that is due Oct 16th. She'll be applying for stuff to start a community garden, or to get money to help with the park playground equipment.

Park Reservations

It is now set up on the city website for people to make campground reservations, along with payment. Reservations still will not be allowed during Fall Festival, but campers would be able to make their payment for that weekend online.