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Special Horticulture Meeting

Wrap up

Section

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Chelan Fire and Rescue brings in Volunteer **Coordinator Asher**

By Erin Rossell, Staff Writer

CHELAN - Chelan Fire and Rescue 7, Entiat Fire District 8 and Orondo Fire District 4 was approved for a second safer grant in 2017. The new, 4-year safer grant would provide the funds for the cost of 20 new sets of bunker gear for new recruits each year, but also the salary for a volunteer recruitment coordinator. During December's regular commissioner's meeting, it was announced that the position was offered to Brandon Asher, who, at the time, was serving as Fire Captain with Arlington Fire Department, which included responsibilities in volunteer services and recruitment. He comes to Chelan and Douglas Counties with his Associates Degree, Bachelor's Degree in Fire Management and Fire Protection Technology Degree.

Son of Chief Mike Asher with Entiat Fire/ Chelan County Fire District 8 (CCFD 8), Brandon started as firefighter in 1993, after his graduation from Entiat High School. Moving on to Wenatchee Valley Community College, he received is EMT training and certification in 1995, then went on to a residency program within Shelton Fire and Spokane Fire, before setting in with the City of Moses Lake, officially starting his firefighting career. In 2003, Asher lateraled to Arlington, where he would be promoted to Fire Captain in 2009, and was part of the county Technical Rescue Team and Hazmat Team for his nearly 15 years



Brandon Asher

there.

"I've responded to some pretty major calls," Asher explained on experience brought, which include responding to the 2014 Oso Slide as on-duty captain, and the Marysville School shooting just a few months later, "there's no way to describe it (the feelings in those moments)," he stated. Asher also brings an abundant knowledge of the area and has worked with wildland a lot over the years, he explained. "I put the whole wildland program together in Arlington," he stated, "they didn't have anybody certified to fight wildland fires, so I wrote a grant, pulled a brush truck and got it certified, and the first fire they went to was the Chelan Complex fire," he expressed, "I had just gotten everybody trained ... (but) that's really what got that program off the ground."

"I've always kind of kept

SEE **ASHER** ON PAGE A2

Smart meter concerns explained, voices continue to grow

An interview with the Smart Meter Awareness Group of Chelan County

By Erin Rossell, Staff Writer

CHELAN - From the moment Chelan County PUD presented a proposal on the replacement of the current, older analog meters with the advanced two-way meters, there was been voiced concern on the adverse health effects that these meters may present within the community. The Lake Chelan Mirror sat down with three of those voices for a detailed look at the concern.

Chelan citizens Robin Casal, Suzan Keller and Laura Folsom, with Smart Meter Awareness Group of Chelan County, presented a folder, filled with some research from reputable sources and other pieces the group felt solidified the health concerns associated with the increase in Radio Frequencies (RF) that the installation of the two-way meters would present. "When we started doing our research," began Laura Folsom, "is the health effects on the human body, and they (Chelan County PUD) have taken a study that was done back in 1998, which was actually done on an older study, that was done by the military on a healthy, young adult male that determined that such amount of RF was safe for the human body." That study is the study that has been used on their basis for the safeness of



Photo by Erin Rossell

Members of the Smart Meter Awareness Group (left to right) Laura Folsom, Suzan Keller and Robin Casal.

the RF, she continued. "Most of us weren't in this type of frequency back in 1998," Folsom added, "we didn't hardly have cell phones and things like that ... they say this one machine is safe, but don't really say (how safe it is) when you add them all (the electronics) together."

The RF levels of the advanced meters have been placed as a Class 2B with the International Agency for Research on Cancer, the group explained, stating that it is a potential carcinogenic. This classification of potential carcinogens has also been placed by the World Health Organization (WHO) in 2011, which happens to be the location of the study from the 1998 RF safeness as well.

"Consider the accumulation (of RF) that we got going," supplied Suzan Keller, "when you're exposed to 24/7 emissions, they build up, and our immune systems work to keep us healthy, and they do a good job until they start to get compromised ... what's they're not considering is the continual bombardment on our immune systems, especially if you have children or an already compromised immune system ... we feel that that study (in 1998) has nothing to do with today's world." Robin Casal stated that the input was provided that the advanced meter is safer than cell phones, "what I'd like to ask the community," started Casal, "are they willing to give up their cell phones to

have a smart meter? Because it is the accumulation, like sugar. We can have some sugar but over time it builds up and after a while you're going to develop that diabetes if you're having those 10 cokes a day ... we're asking not to be guinea pigs."

The other concern, the group stated, are with the placement of the "hubs" that will be placed every quarter mile and constantly receiving the information from the advanced smart meters. Fire hazards are yet another concern, as one group member, who currently has a one-way meter in place, reported that the one-way meter surged through ap-

SEE SMART METERS ON PAGE A2

2018 Chelan High School Hall of Fame inductees

By Erin Rossell, Staff Writer

CHELAN – Nearly every seat was taken at the Chelan High School's (CHS) gymnasium, Thursday, Feb. 1. The ceremony for the 2018 Chelan High School Hall of Fame inductions of Jim Talley, Phil Cullen, Stephanie Parsley and the 1999 State Baseball Championship Team was held between varsity games at Chelan High School, and the photos and histories of the inductees will be displayed at the Chelan Community Gym.

Jim Talley, a 1951 graduate of CHS played quarterback for the undefeated 1951 football team. He was also a 3-year starter on the basketball team, which finished fifth in 1949, third in 1950 and won the state title in 1951. Talley was also a pitcher on the Goat's baseball team, winning 49 games while losing only seven in his years played. He moved on after being accepted to Eastern Washington University on a basketball scholarship, then went to serve his country with the U.S. Air Force. Talley began his coaching career in Shelton in 1958, returning to Chelan in 1961, where he taught P.E. and coached from 1961 to 1987, when he retired. No state tournaments for football during those times, but, Coach Talley's team won 69 games, 5 Caribou Trail League Championships and finished undefeated twice, including a 1967 team ranked in the top 10 nationally. "The inspiration and guidance of Coach Talley, while on and off the field of competition, have strengthened our community, for which we will always remain grateful."

Phil Cullen, a 1998 CHS graduate, was outstanding in basketball, baseball and academics. He remained instrumental in helping the Chelan Goats basketball win the 1998 State Basketball Championship. After graduation, Cullen played basketball and baseball for the Utah Utes. The right-handed pitcher was

SEE HALL OF FAME ON PAGE A2



Photo by Erin Rossell

The ceremony for the 2018 Chelan High School Hall of Fame took place on Feb. 1. Inductees were Jim Talley, Phil Cullen, Stephanie Parsley and the 1999 State Baseball Championship Team. See more photos on page A5.



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The Lake Chelan Mirror welcomes letters to the editor. All letters must be accompanied by the author's name, a home address and a daytime phone number (for verification purposes only). Letters may be edited for length, clarity, accuracy and fairness. No letter will be published without the author's name. Thank you letters will only be printed from non-profit organizations and events. We will not publish lists of businesses, or lists of individual names. Email your letters to: Icmeditor@gmail.com

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The Lake Chelan Mirror regrets any errors. If you see an error, please call 682-2213. We will publish a correction in the next issue

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Call the Mirror at 682-2213

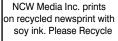
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Washington Association





SMART METERS

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ASHER

CONTINUED FROM PAGE A1

my eye on paid positions

over here," Asher explained

on his transition, "I didn't

want to be a firefighter. (so)

it was going to be more of a

career step." Unaware that

the three regions had applied

for the grant together, when

it opened up and he was ap-

proached on the position, he

was a bit surprised, he said,

adding his thoughts in that

moment, "the opportunity

came, and I did have goals to

There's a budget that

Asher has received as part

of the safer grant from the

government. "So, what I've

been doing right now is just

making the foundation of

the promotional material,"

he began, explaining the

promotional banners, fliers

and brochures he has placed

throughout the valley, "and

it's for all three agencies ...

the grant is for 20 people

a year, for three years in a

row, and that's for all three

get back over here."

pliances and fried them. "No one is responsible," explained Keller, "the insurance companies have started to put caveats on policies saying that they will not be responsible for any damage from these (smart meters) ... when you come down to the insurance company won't cover it, the PUD won't cover

it, the manufacturer of the device won't cover it ... guess who (will have to)."

Opting out options are unclear at this time, explained the group. "You will have to pay more," said Keller, "they say because they will have to send a meter reader to your house, but their punishing anyone, basically, that doesn't go along with the program." The group stated that they would rather see an

Asher has high hopes for the success of the program. "The ultimate goal is to try and get our 20 volunteers a year," he explained, "but hang on to them. Because sometimes you get people that go through and get the training and find out that this is just too hard, or this isn't for them ... (so) the goal is to get them, not only on the fire side, but if they wanted to go to EMT school, (to help them be able to

do that). Retention is a big

deal, so we'll be looking at

different way to keep them

motivated and active. In discussing the next steps and the future of the grant, Asher expressed the importance of this year's Levy request. "It's really important that we pass this Levy coming up," he explained, "because we're going to lose our safer grant firefighters if we don't pass that," there's also various equipment that is in need of replacement, explained Asher. "We've applied for grants for new firetrucks, we've applied for grants for

new air packs, and those are all regional as well, so Chelan, Entiat and Orondo will all have the same air packs," he explained.

opt-in process for the smart

meters, as opposed to the

opt-out. "An opt in means

you would have to sign and

say 'yes, I would like a smart

meter," explained Casal,

"and waive liability ... but

this would allow people to

have them, but hopefully also

ness Group of Chelan County

began a petition throughout

Chelan County, hoping to

The Smart Meter Aware-

allow it to educate them."

Asher, as outlined in his position, is a regional responder, moving between each of three agencies, and able to respond to calls within any of those agencies. Together, he explained, the three districts will be working together to "standardize and regionalize" the training with all three departments, in the way they operate or set up their equipment, so there's a bit more of a common feeling and process amongst them.

The safer grant is focused on volunteer recruitment and retention, Asher explained, "It's pretty difficult anywhere now days to find volunteers," he supplied, "and then with the added call load with the staff that was already here, (as well as) training, inspections and everything else, they basically joined up with Entiat and Orondo to apply for this grant." Currently two stastop the implementation of the smart meters. Approximately 300 of the 500 signatures on the petition belong to Chelan residents, explained Casal. "Ninety percent of the people did not know what they were, and that they were being implemented," the group explained, "and when they found out, they were appalled." An online petition is also available at www.

tions out of the five really

don't have any volunteers

right now, he explained.

Those two stations being

big push to get volunteers out

house on Feb. 15 at Station 72 -

Chelan Falls, from 5 -7 p.m., and

on the 17th at Station 74 - Air-

change.org, simply search Chelan County PUD, click the link "I'm opposed to smart meters.'

Asking the City of Chelan, as a whole, to opt out of the placement of the advanced meters.

"Our group, Smart Meter Awareness, is we just want people to be aware," explained Casal, "of what they're making a commitment too."

port, from 11 a.m.-2 p.m. During

the opening house, those inter-

ested will have the opportunity

to see equipment, meet some of

Chelan Falls 72 and Airport the staff, ask questions and pick 74, "and so we're making a up an application. For more information on volunteering, contact Assistant there." Will be holding an open

Chief Brandon Asher at 509-682-4476 or email at basher@ cfr7.org.

Firefighters promoted



Firefighter/EMT Steve Saugen ha successfully completed his probationary year with Chelan Fire and Rescue. FF/EMT Steve Saugen has been promoted to Firefighter 3rd Class.



Firefighter/EMT Tyee Zacher has successfully completed his probationary year with Chelan Fire and Rescue. FF/ **EMT Tyee Zacher has been** promoted to Firefighter 3rd Class.

HALL OF FAME

CONTINUED FROM PAGE A1

agencies as well."

then drafted by the Seattle Mariners, playing for three years in the Mariner's minor league organization. Cullen has received his Bachelor's Degree in Civil and Environmental Engineering, as well as a Master's Degree in Leadership, and is currently

the director in basketball strategy for the San Antonio Spurs in the NBA.

Stephanie Parsley, a 2002 CHS graduate, played volleyball, basketball and golf for the Goats. She lettered three years in basketball and four years in golf. Placed fourth at 1A State Golf Championships her freshman year, second at 2A State Championship as a sophomore, and won the 2A

Mountain Meadows residents at the Autumn Leaf Parade

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State Golf Championship his Junior and Senior years. Went on to play golf at WSU 2002-2006, where she lettered all four years. While at WSU, she played in 37 events, including being part of the first WSU team to attend the division 1 NCAA National Women's Golf Championships in 2003. During her 4-year career, had two top 10 finishes and seven top 25

finishes.

1999 State Baseball - Players included Drew Blake, Eric Campbell, Robert Johnson, BJ Mitchell, Michael Nickel and Manager Brandon Johnson. The team was nicknamed "Bad News Bears," and had extreme heart and endless effort. The Goats had to travel to Lake Roosevelt to advance into playoffs, winning 14-10. The next game was against the number one ranked Brewster Bears,

handed the Bears their first loss of the season 2-0. The 1999 Goats then advanced to state playoffs in Spokane, where they won their semifinal league against Columbia White Salmon 6-4. This win put the Goats in the state championship game against Friday Harbor, which Goats won 7-6, securing the first state championship title in Chelan History, finishing up a 500 record for the season.

Area glaciers topic at Wenatchee Valley Museum February 13

SUBMITTED BY WENATCHEE Valley Erratics Chapter

WENATCHEE - Wenatchee Valley Erratics Chapter of the Ice Age Floods Institute will meet at 7 p.m.., Tuesday, Feb. 13 at the Wenatchee Valley Museum, 127 South Mission, Wenatchee.

Glaciers from Icicle Creek advanced multiple times over the past several hundred thousand years and left deposits near Leavenworth. Some thought lakes or slack water from Glacial Lake Missoula outburst floods deposited the boulders lying between Leavenworth and Peshastin. The late local geologist Bill Long collected data about these boulders, and others near Wenatchee, during the 1960s to 1980s. That data tell a different story about Icicle Creek glaciers and the location of past termini.

Kelsay Stanton, WVC adjunct instructor and licensed professional geologist, will talk about work she's done in the Leavenworth area with



Kelsay Stanton, WVC adjunct instructor and licensed professional geologist

USGS geologist Richard Waitt, using information collected by Long, and describe how it fits into the regional glacial and glacial outburst flood story.

The program is free and open to the public.

For overviews of the Ice Age Floods and more information on the Ice Age Floods Institute, please see our website: http://www.iafi.org; http:// www.hugefloods.com; and quadricopter videos of Ice Age features, http://www.brucebjornstad.com.

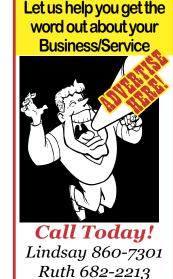
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Salvation Army Red Kettle campaign tops \$7,600



Photo courtesy of Chelan Valley Hope

The Christmas Season 2017 Salvation Army Red Kettle Campaign topped \$7,600 thanks to the 11 local Chelan and Manson organizations and numerous volunteers who rang the Salvation Army Red Kettle Bells in November and December. Citizens again showed their generous hearts in supporting this campaign. The \$7,500 raised will be distributed through Chelan Valley Hope to help with emergency needs of families and individuals to avoid evictions and PUD shutoffs, as well as emergency gasoline and non-food pantry items. They are thankful to be part of this giving community. Pictured are Chelan High School Bell Ringers Scott Abel and Jacob Bell.

CHELAN HIGH & MIDDLE SCHOOL HONOR ROLL

The following students earned a 4.0 grade-point average:

a 4.0 grade-point average: Seniors: Scott Abel, Elizabeth Chavez, Kayla Farias-Negrete, Lucas Gueller, Sydney Hawkins, Looan Manier. Javier Torres. Meghan

Juniors: Colt Corrigan, Devin Davis, Gage Estes, Sierra Rothlisberger Sophomores: Amelia Bordner, Caroline Kelly, Melissa Mendoza, Molly Oswald, Mercedes Reynolds, Casey Simpson, Ella Tschetter, Melina Wyckoff

Wyckoff Freshmen: Drake Bird, Xitlali Cruz, Isabella Gatzemeier, Alejandro Hernandez, Dillon McCardle, Ainsley Pehrson, Ella Polley, Cory Schramm, Jesus Vazquez-Rocha

The following students earned a 3.5 to 3.99 grade-point average:

Seniors: Samantha Alencaster,
Samantha Bills, Emily Christenson, Ariana Cortez, Caleb Dodge,
Matthew Fitzpatrick, Guadalupe
Galvan, Alex Gavin, Shaelyn Hadley,
Jennifer Howell, Anna Lance, Daniel
Lopez Jr., Talia Montano, Alexander
Nelson, Marc Nimz, Olivia Nygreen,
Ashley Oswald, Javier Pastor,
Madeline Peebles, Taylor Sams,
Jennifer Tapia, Jose Torres-Olea,
Dixie Valdez-Martinez, Getsemany
Vazquez, Karen Villanueva, Jonathan Zelaya

Juniors: Jaxon Ayling, Dylan Bainbridge, Caden Bryant, Katelyn Deal,
Wyatt Dietrich, Kasey Emery, Lexie
Gleasman, Skyler Gordon, Richard
Heimark, Anahi Hernandez-Bucio,
Itzahiana Luna-Munoz, Cameron
Manda, Gabriella Navarro, Jasmin
Negrete-Ortega, Benjamin Nygreen,
Owen Oules, Moises Payan,
Jennifer Perez, Gavynn Peterson,
Valeria Silva, Sydney Simpson,
Quinn Stamps, Kassie Strange, Aaliyah Uvalle-Torres, Carlos Venegas,
Andrea Villa-Garcia

Sophomores: Connor Abel, Haylee Fry, Leanna Garfoot, Audrey Gilleland, Julissa Guzman, Kyle Jackson, Christopher Knight, Macaela LaPorte, Alondra Lopez, Jasmine Lopez, Alexander Marron-Andrade, Emma McLaren, Laura Montoya-Benitez, Elijah Morris, Maxwell Nimz, Odaliz Ordaz, Elijah Phelps, Ashlyn Sanderson, Nicolas Toe, Tobin Wier, Talitha Zelaya

Freshmen: America Avila, Gladiola Banuelos, Parker Brown, Chris Cannasso, Annie Chavez, Charlize Clementson, Ellyn Collins, Cash Corrigan, Caden Doggett, Lana Fielding, Elaine Folsom, Cynthia Garcia, Caela Gonzalez, Jonathan Gonzalez, Jose Gonzalez, Geovanna Granados, Miles Grossberg, Adelyn Gueller, Noah Hildreth, Hailee Huddleston, Michelle Hvde. Matea Ivory. Josef Keen. Madison Latter, Diana Lopez, Johan Luna-Munoz, Maria Magallon, Skve Malone, Alex Martinez-Salazar, Talyn McCoy, Luis Mendez, Daisy Monje, Lvdia Montalvo-Gomez, Miguel Neri-Cazares, Sage Paddock Reid. Aiden Peterson, Kaitlyn Rainville, Philip Silvestri, Aden Slade, Taryn

Sweeney, Lizbeth Tapia, Jose Torres, Alexis Valera, Aliyah Villasenor, Hayley Watson

The following students earned a 3.0 to 3.49 grade-point average:

Seniors: Fatima Chavez, Mario Galvan, Jacqueline Gonzalez, Keilani Hinton, Selina Landeros, Hunter Lehmbecker, Azzia MacDonald, Gage Martin, Bethany Martinez, Bryan Mendoza, Luis Morales-Perez, Jesus Ramirez, Matthew Smith, Carlos Vargas

Juniors: Alvaro Arteaga, Sam Austin, Antonio Cazarez-Rubalcaba, Bryson Darlington, James Estrada, Katie Flowers, Emmalee Folsom, Favian Franco, Joshua Gilleland, Mario Gonzalez, Jade Hatherell, Jordi Lopez, Rosa Lopez-Barboza, Omar Marquez, Eleno Mendez, Angel Mendiola, Alberto Mendivil, Alex Neri-Cazares, Cailee Parham, Dawson Roberts, Sierra Shively, Juan Uvalle

Sophomores: Emilie Barnes, Jacqueline Benegas, Danika Bills, Kaylin Boykin, David Chavez, Isabella Evans, Elisabeth Garcia-Zamudio, Andrea Gavin, Danica Gordon, Seth Hannu, Monroe Kenck, Nicole Manier, Arly Meneses, Ariana Monje, Esmeralda Payan, Eleno Rivera, Cynthia Sanchez, Hank Schindler, Christopher Schmidt, Daniel Servin, Steven Williams, Connor Wilson, Maximus Wilson, Zachary Zavala

Freshmen: Quinton Baker, Natalie Bishop, Yareli Cabrales, Billie Corter, Ivan Duenas, Sabriena Estes, Gunner Gleasman, Cole Iversen, A.J. Martinez, Hugo Mata, Sonia Montoy, Angelica Nava, Galilea Negrete, Annaliese New, Jonathan Ramirez, Ringo Renteria, Chase Rogge, Dayana Vega-Ramirez

CHELAN MIDDLE SCHOOL The following students earned

a 4.0 grade-point average: Eighth grade: Jamie Bekel, Charles Bordner, Noemi Garcia-Rosas, Amberly Guerrero, Hannah Hawkins, Zion Lovell, Mackenzie Rogge, Teegan Silva, Ruby Wier, Alexis

Seventh grade: Aedan Baker, George Benson, Angel Cortez, Makenzie Griggs, Jorge Lopez, Celia Polley, Caelan Rothlisberger, Kira Sandoval, Luke Simmons, Olivia Strandberg

Sixth grade: Allison Abel, Peyton Bodle, Samuel Bordner, Benjamin Brownfield, Giovanni D'Orazio, Josie Garfoot, Lily Hill, George Neff, Ryan Rainville, Cray Silva

The following students earned a 3.5 to 3.99 grade-point average:

Eighth grade: Gerardo Aguilar-Luna, Giovanna Arellano-Jimenez, Jagjot Dhaliwal, Jordyn Emery, Aliyah Finch, Joseph Gasper, Kya Holmes, Ethan Kehl, Logan Lemings, Itzel Martinez, Quin McLaren, Catherine Mercado, Karen Munguia, Janely Munoz, Wilson Mutter, Yuleymy Nunez, David Payan, Rocio Sevilla, Hunter Shumway, Reed Stamps, Ethan Strandberg

Seventh grade: Ryan Allen, Greer Bainbridge, Malie Benson, Melina Cruz-Magallon, Lizbeth Diaz-Casales, Marilyn Gonzalez-Aguilar, Piper Grossberg, Jose Hurtado-Sanchez, Madison Kehl, Gideon Kelling, Elizabeth Knight, Elly Maxham, Austin McCardle, Pablo Mendez, Diana Mendoza Ruelas, Winston Mutter, Kaylee Patino-Castro, Floria Perez-Llamas, Jason Pritchard, Mariana Sanchez-Mendoza, Tate Sandoval, Joslynn Simmons, Jeremias Torres Siyth grade: Kayla Alcazar, Diana

Sixth grade: Kayla Alcazar, Diana Andrade, Miriam Andrade-Guzman, Anahi Barajas-Oseguera, Madilyn Barker, Juan Benavides, Madison Brummer, Malachi Chavez, Danika Dietrich, Kaden Eygabroad, Ian Garfoot, Makayla Garfoot, Carly Hefley, Hailey Helm, Zachary Hort Landon Johnson, Deyanira Lopez Eva Marron-Andrade, Emmerson Miller, Rylen Moody, Charlie Morgan, Katheryn Morris, Mariella Nelson-Munoz, Duke Nordby, Celso Tejada, Elizabeth Peebles, Estrella Perez-Torres, Maleigha Peterson, Kyle Rynd, Kiana Sinkiewicz, Abigail Smith, Ellie Smith, Olivia Smith, Gavin Studley, William Toe, Alexandra Vazquez-Rocha, Martin Zamora, Jennifer Zhong

The following students earned a 3.0 to 3.49 grade-point average:

Eighth grade: Deisy Avila, Amairany Bravo, Bethzabel Bravo, Edgar Cristobal, Julissa Diaz-Magana, Alexander Galdarisi, Samuel Gilleland, Katelyn Gordon, Morgyn Harrison, Levi Jeffries, Aubrey Jones, Deasel Kenck, Francisco Landeros, Beau Nordby, Cody Sanderson, Neida Vargas, Orlando Villa-Garcia, Cash Walsh

Seventh grade: Braiden Boyd, Donovan Casal, Rylan Cody, Zuleima Davila-Rubalcaba, Chloe Goforth, Irene Hernandez, Quan Ho, Linzay Jaime-Barrios, Morgan Lautiki, Yajaira Magallon-Galvan, Giselle Martinez-Salazar, Isaac Martinez-Valadez, Ashley Perez-Mendoza, Clayton Reeves, Ryker Savage, Beau Schmidt, Kimberly Torres, Leslie Virrueta-Farfan, Benjamin Williams

Sixth grade: Juleima Campos, Kalob DeMotts, Spencer Ferris, Arabelle Finch, Oscar Flores-Becerril, Litzy Gaona-Vargas, Amiee Gordon, Bryce Hampton, Joni Heinz, Aron Hernandez-Bucio, Ronald Hooten Kiera Hoskin, Natalie Islas, Sawyer Jeffries, Asher Kelling, Omar Magdaleno-Sanchez, Catherine Martinez-Bautista, Jonathan Mendo za, Antonio Padilla-Montalvo, Lysset Patino Hertado, Mia Perez, Yaritza Ramirez, Merica Rivera, Finnegan Smith, Mia Soller, Dominick Solorza Julian Vargas-Cervantes, Lizbeth Vazquez, Samael Vazquez, Kassidy Wilfong, Isaac Wilson, Vianney Zamora Blanco

CMS Students of the month



Photo courtesy of Rob Rainville/Chelan Middle School

Chelan Middle School Student of the Month from December are (not in order): Catherine Mercado nominated by Linehan; Madison Brummer nominated by Gallup; Olivia Strandberg nominated by Harris; Chloe Goforth nominated by Reister; Teegan Silva nominated by Williams; Natalia Vasquez nominated by Nygreen; Yuleymy Nunez nominated by Hart; George Benson nominated by E.Reister; David Payan nominated by Einspahr; Mariana Sanchez nominated by Pearl; Ben Ho nominated by Anhalt; Ryan Allen nominated by Sanderson; Carly Hefley nominated by Burton; Saul Lopez nominated by Chambers; Olivia Smith nominated by Plummer; Cash Walsh nominated by Sargent-PE; Oscar Cardenas nominated by Sargent-Health; Francisco Pacheco nominated by Green; Kassidy Wilfong nominated by Burdick and Edgar Christobal nominated by Bertomeu.

COLLEGE HONOR ROLL

Local Residents Named to Dean's List at Gonzaga University

SPOKANE - The following residents of Chelan have earned placement on the Gonzaga University Dean's List for Fall Semester 2017. Students must earn a 3.5 to 3.84 grade-point average to be listed.

Andrew R Beckett, Eli Martin Christenson, Jordyn Lee Eldred, Eli Mathew Jenkins and Bridget Leigh Wyant.

Gonzaga University is a humanistic, private Catholic University providing a Jesuit education to more than 7,500 students. Situated along the Spokane River near downtown Spokane, Wash., Gonzaga is routinely recognized among the West's best comprehensive regional universities. Gonzaga offers 75 fields of study, 23 master's degrees, four doctoral degrees in one college and six schools.

New operators at Bear Creek Golf Course

SUBMITTED BY LAURIE HILTON, BEAR CREEK GOLF COURSE

WINTHROP - Ash and Linda Court of Winthrop, owners of Bear Creek Golf Course, are excited to announce that the operation of their property has taken over by Mike and Laurie Hilton of Winthrop, as of Jan. 1, 2018 and beyond. The Hiltons will be taking over operation of Bear Creek Golf Course from Terry and Debbie Evans who have operated the course for the last three seasons.

The Hiltons moved their family and their construction business from Seattle to the

Methow Valley in February of 2005. They have raised their three daughters in the Methow Valley while running their custom design/build business, Hilton Construction, Inc. They will continue to maintain their construction business but will only take on limited client work.

Mike is originally from Houston, Texas where he received a degree in Landscape Architecture from Texas A & M University. Laurie is from Traverse City, Michigan and has an undergraduate degree in French and Business from Western Michigan University, as well as a Master of International Management degree from Thunderbird School of



Photo courtesy of Bear Creek Golf Course The Hilton family, Mike and Laurie Hilton and their three daughters, Willa, Daisy and Adele.

Global Management in Glendale, Arizona.

Mike began golfing at a young age in Houston. He has casually maintained his golf game over the years but ramped up his frequency after having introduced his three daughters to the game.

Laurie's prior professional career was in Marketing for Brooks Sports, Bayliner (boating industry) and Sonicare.

The Hiltons plan to make their operation a family affair, echoing the Court's experience of raising four children while operating the course. Their main focus will be on maintaining and improving the quality of the greens while also increasing the reach of their membership.

The Hiltons are so appreciative of the Courts for both creating and maintaining a golf course in this beautiful area. The Hiltons hope to be able to keep this Methow Valley gem alive and successful for the benefit of this community.





Goats succumb to doubledefeat from Omak Pioneers

As the game against the Pioneers was retro night, players and cheerleaders alike dressed in throwback uniforms, and the cheerleaders performed a mix of throwback themed music during their half-time performance.

Photos by Erin Rossell



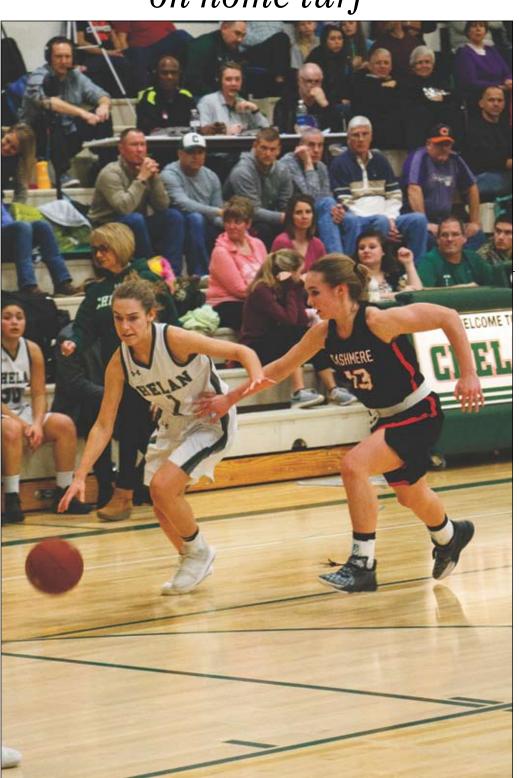
BELOW: Quinn Stamps shoots over Pioneer defenders for a score attempt. The Goats ended the game with a loss to Omak and a final score of 57-73.



BELOW: Katie Rainville goes up for a lay in against the Omak Pioneers, Wednesday, Jan. 30 at the Chelan Community Gym. The Lady Goats barely missed a defeat over the Pioneers with a final score of 52-55.



Bulldogs defeat Goats on home turf



Photos by Erin Rossell

Matea Ivory drives past a Lady Bulldog, toward the basket. Cashmere defeated the Lady Goats with a final score of 14-77.



Connor Wilson drives in for a layup against the Cashmere Bulldogs, Thursday, Feb. 1 at Chelan High School. The Bulldogs defeated the Goats with a final score of 41-56.

Got News to share?
Email it to lcmeditor@gmail.com

Pet of the Week Winston

Winston
Age:
2 years
Sex:
Neutered Male
Breed:
Labrador Retriever
Shepherd Mix
Animal ID:

37664711

Adoption Fee:



Wenatchee Valley Humane Society

509.662.9577 1474 S. Wenatchee Ave. www.wenatcheehumane.org

Advertise Here & Sponsor the Pet of the Week Call Ruth, 682-2213

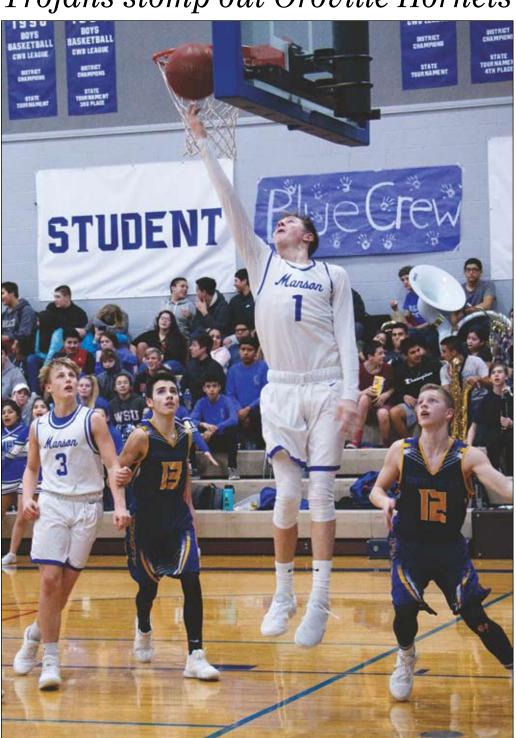
Chelan Middle School 7th grade girls



Photo courtesy of Mike Haerling

The Chelan Middle School 7th grade girls basketball team is 6-0 so far this season. Team members are: front row, left to right: Kenia Sanchez Blanco, Juliana Perez, Olivia Strandberg, Kira Sandoval, Irene Flores, and Yajaisa Megallon Galvan. Back row, left to right: Coach Mike Haerling, Jenny Flores, Joslynn Simmons, Leslie Zirraeta, Kaylee Patino, Isabela Monje and Chris Griffiths.

Trojans stomp out Oroville Hornets



Photos by Erin Rossell

ABOVE: Avery Thompson drives upward to the hoop, Thursday, Feb. 1 at Manson, against Oroville. The Trojans defeated the Hornets with a final score of 62-39.

BELOW: Evelyn De Jesus squeezes in a shot amongst Hornet defenders. The Lady Trojans



2018 Chelan Hall of Fame Inductees



Photos by Erin Rossell

Jim Talley, second from right, was inducted and recognized for all he has attributed to the community and in his time as both an athlete and a coach with the Goats.



Stephanie Parsley, center, was recognized for her outstanding skill in golf, both as a Goat and through WSU.



Phil Cullen, second from left, was recognized for his accomplishments athletically and academically with the Goats.

BELOW: The 1999 Goats baseball team were recognized for their outstanding achievements and securing the first ever State Championship.



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DIRECTORY

BULLETIN BOARD - EVENTS / MEETINGS

CHURCH SPECIAL EVENTS St. Andrew's Episcopal Church

Feb. 13

Shrove Tuesday: Pancake Day

CHELAN - Tuesday, Feb. 13, is Shrove Tuesday. As we end this season of Epiphany and begin the season of Lent, let's all celebrate with a great pancake dinner. If any men of the church would like to help out in the kitchen, they would appreciate all volunteers. The more help, the more pancakes. Shrove Tuesday is known as a day of repentance before the beginning of Lent. Starting in the Middle Ages, this day became a celebration of feasting. Rumor has it that the reason pancakes became such a popular menu item for this event is because foods such as milk, eggs, and other fats were restricted during Lent, so everybody used them up in their pancakes. That turned out to be a wonderful choice. Please join us this Shrove Tuesday from 5-7 p.m. for a celebration with friends and pancakes at St. Andrew's Episcopal Church on Woodin Avenue.

Feb. 14

Ash Wednesday

CHELAN - The Wednesday after Shrove Tuesday is Ash Wednesday, the day that marks the beginning of Lent. Plan to attend church on Ash Wednesday, Feb. 14, at 1 p.m., as the Rev. Canon Linda Mayer of St. Andrew's Episcopal Church, leads us into Lent. Tradition for this day includes the Priest taking ashes and marking the foreheads of worshipers with the sign of the cross.

Monday-Friday every week Chelan/Manson Senior Center Events

Coffee Club, Monday-Thursday, -10:30 a.m. Free SAIL Exercise Class: Monday, Wednesday, Friday, 1-2 p.m., any age welcome, sponsored by LCCH. Wii Bowling, Tuesdays, 10 a.m. Pinochle Tuesday, 1 p.m. Bingo Thursday, 1 p.m. Senior Meals, Monday-Thursday, call (509) 888-4440. Home Delivery Meals (509) 470-0522. For information Chelan Senior Center, 682-2712. Manson: Manson Senior Lunch, Friday, Kathy 687-3377.

EVENTS / MEETINGS

Feb. 7

Story time Chelan / Manson Libraries

CHELAN - Story time is every Wednesday at 11 a.m. at the Chelan Public Library located on Emerson Street. Join them for singing, dancing, clapping, music making as well as reading. It's both fun

MANSON - Every Wednesday at 11 a.m. the Manson Community Library offers a story time for children ages 2 to 5 and their caregivers. Join the group for a half hour of stories, rhymes, songs, finger plays and other activities. For more information call the library at 687-3420.

North Cascades Sportsman's Club to meet

CHELAN - The next meeting of the North Cascades Sportsman's Club board will be held on Wednesday, Feb. 7. Board meetings are held the first Wednesday of the month at 7 p.m. Meetings take place at the Chelan PUD located at 1034 E. Woodin Ave. in Chelan.

Feb. 7

Celebrate Recovery

CHELAN - Celebrate Recovery will meet Wednesday, Feb. 7, at 6:30 p.m., at the Chelan Valley Hope Building, 417 South Bradley Street, For information: lcvcr1@gmail.com or (509) 860-8108

OBITUARY & MEMORIAL POLICIES

NCW MEDIA, INC.

An **obituary** is a way for family member(s) to commemorate a loved one's life and to notify the larger community of the deceased. Obituaries are also used for historical and ancestral data.

Memorials are another way of letting the community know about the life and memories of the person who has died. A Memorial is different from an obituary. An obituary is usually current while a memorial can be written later.

Obituaries and memorials need to be typed and emailed no later than Friday by 4:00 p.m. to be placed in the next available issue(s). Please call for cost of an obituary and which NCW paper(s) that it will be placed in to.

Cost of the obituary/ memorial is due at the time of placement. Funeral homes and chapels can submit obituaries by Noon on Monday, unless a holiday.

Obituaries are priced per word while Memorial ads are per column-inch.

For info call Ruth 509-682-2213, or email ruthk@lakechelanmirror.com

BEREAN BAPTIST CHURCH KJV

Sunday School 10 am • Sunday Services 11 am & 6 pm

Children's Church 11 am • Wednesday Evening 7 pm

"Church the way it used to be"

515 E. Woodin Ave. • 682-5831

Pastor Keith Rife

CHELAN CHRISTIAN CHURCH

Sunday School 9 am

Morning Worship 10 am

682-2025 • 210 E. Wapato Ave.

Pastor Mark Wilton

CHURCH OF THE NAZARENE

Sunday School 10 am

Worship 11 am & 6 pm

Youth Group - Friday 7 pm for 13-18 years of age

682-5135 • Sanders St. & Okanogan Ave.

LAKE CHELAN LUTHERAN CHURCH

Worship 9:30 am

Sunday School following Worship Service

682-9063 • 216 W. Nixon Ave.

LAKE CHELAN UNITED

METHODIST CHURCH

Worship 11 am 682-2241

Corner of Johnson & Emerson

CHELAN

Feb. 8, 22

Methodist men's group

CHELAN - The Lake Chelan United Methodist Men's group meets the 2nd and 4th Thursdays, at The Voque, at 7 a.m.. All men who have a belief in Jesus Christ are welcome to attend.

Feb. 8

Help available for veterans

CHELAN - Chelan County Veteran's Service Officer, WorkSource, and SSVF, coffee and organizational information, second Thursday at Apple Cup Cafe in Chelan, 9 a.m. to noon. DD214, VA Disability Claim and more. For questions: Tony Sandoval at (509) 664-6801 or Bob Goedde at 682-2366.

Feb. 8

Bilingual story time

CHELAN - Bilingual story time is the first Thursday of each month at 6:30 p.m. at the Chelan Library. A fun half hour of stories in Spanish and English for families. The Chelan Library is located at the corner of Emerson and

Feb. 9

Community 'Soup' Kitchen

CHELAN - The Lake Chelan United Methodist Church Community 'Soup' Kitchen is open every Friday, noon to 1:30 p.m. The church is located at the corner of Johnson and Emerson.

Baby rhymin' time

CHELAN - Baby rhymin' time is every Friday at 10 a.m., at the Chelan Pubic Library on Emerson Street, for ages 0-3 years. Join them for singing, dancing, nursery rhymes, musical instruments, and story telling for babies, waddlers and toddlers.

Feb. 11

Got the Winter Blues?

MANSON - Come join us Sunday afternoons for "Something To Do." Games, activities, snacks, and tunes at the Manson Grange, 157 E. Wapato in Manson; every Sunday, 3-5 p.m. Call or text (509) 393-6405

Feb. 13

Al-Anon

CHELAN - AlAnon meetings are weekly at the Lake Chelan United Methodist Church, 206 Emerson Street, Tuesdays, 12-1:15 p.m. For more information call Sherylann, 682-1817.

Feb. 13

Manson Fire District meeting

MANSON - The Chelan County Fire District 5 Commissioners hold their monthly meeting the second Tuesday of the month at 4:30 p.m. at Station 51 located at 250 W. Manson Blvd.

Feb. 13, 28

Cancer Support Groups

CHELAN - The Women's Wellness Group, cancer support group, has two support groups. The second Tuesday of each month for lunch, with lunch provided by the Wenatchee Wellness Place, at the Lake Chelan Community Hospital Board Room, Feb. 13, at 11:45 a.m.; and the fourth Wednesday of each month at LaBrisa, Feb. 28, at 5 p.m. For more information, contact Anne at 682-8718.

Feb. 13

Heritage Heights board meeting CHELAN - The Heritage Heights Assisted Living monthly board meeting

is held the second Tuesday of every month, 5-6 p.m. in the activity room at Heritage Heights. Community members are welcome to attend. For information Heritage Heights at 682-1998.

Feb. 14

Chelan Fire District meeting

CHELAN - The regular meeting for Chelan County Fire District #7 is held the second Wednesday of the month, 4 p.m. at the fire station, at the corner of Wapato and Sanders. www.chelan7.com

Feb. 15

Chamber Business After Hours

CHELAN - Chelan Senior Center will host this month's Lake Chelan Chamber of Commerce Business After Hours on Thursday, Feb. 15, 6-7 p.m. Please join them as they mingle and network with fellow chamber members and learn a little more about the new remodel for Chelan Station Reruns, the Chelan Senior Center's second-hand store in Chelan Falls. Please RSVP to the Chamber t 682-3503.

Feb. 20

Manson Community Council

MANSON - The Manson Community Council will meetTuesday, Feb. 20, 6 p.m. at the Manson Park Office on Pedoi Street. All are welcome

Feb. 21

Senior Living Initiative meeting

CHELAN - The first Senior Living Initiative Meeting for 2018 will be Wednesday, Feb. 21, 5-6:30 p.m. in the PUD Conference Room on Woodin Avenue. This is an open invitation to all interested in the future of our Chelan Valley senior residents both In-Home Care and proposed Campus of Care facility.

Russiagate vs Watergate

to most American voters.

Apparently, it has also been forgotten by some of those who lived it. Carl Bernstein was the Washington Post Reporter who was made famous by the "worst political scandal of the 20th century." Now he dismisses the greatest political scandal of the 21st century as ushering the darkest days of America since McCarthy.

Bernstein wasn't condemning the actions of the FBI, Justice Department or the Democrats. No, in fact he called the Nunes memo a "disingenuous partisan document.'

Bernstein went on to say, "In the whole Cold War, the Russians were not able to do what Putin has done through Donald Trump to destabilize the U.S. and its Democratic institutions."

Really? If the allegations made through the Nunes memo are true then the damage done to our democracy through the corruption of the FBI and Justice Department did far more to endanger our great Democracy than even Nikita Khrushchev could have envisioned (look him up). And it's not Putin or Trump that did the damage. It is the Democrat Party machine and their weaponization of our American law enforcement and intelligence agencies against any and all political opponents.

Let's review.

Bernstein's Watergate scandal involved illegal activities undertaken by members of President Nixon's administration. Those illegal activities included bugging the offices of political opponents. Nixon and his closest aides also ordered investigations of activist groups and political figures using the FBI, CIA and IRS as political weapons. The scandal resulted in the indictment of 69 people with trials or pleas resulting in 48 being found guilty.

What the Nunes memo claims is that the Clinton campaign with the support of the Obama Administration paid for a dossier about President Trump that was then used to support a "legal" effort to wiretap Trump's telephones.

The problem is the dossier has been largely discredited. Yet according to the Nunes memo that memo was used to petition the FISA Court (Foreign Intelligence Surveillance Act) for legal authority to tap an American citizens phone. The memo also claims the petition left out key facts about the FISA application that were



OPINION Bill Forhan Publisher

material to the courts decision to authorize the surveillance. Facts like the dossier was paid for by the opposition party. Facts like the dossier was never independently corroborated.

At this point one could question why the FISA court judge, whoever that might have been, didn't question the application. The identity of the judge is not to be released for security reasons, but that individual would have to been living on a different planet not to know Trump was a Presidential contender.

We may never know who the judge was or why that individual didn't question the documents supporting the application.

What we do know is that given the tainted nature of the FISA Court application the entire matter is legally flawed.

Think of it like you are charged with a crime but never read your Miranda rights. The result is your case is thrown out. Those laws are written to protect us from abuse by the government.

This scandal is another case of how easy it is for the party in power to abuse that power. It is no different than Watergate. It's just another party at another time in our history trying to hang onto their power any way they can.

It is also time to end this ridiculous "Russia Conspiracy" probe. It has been a year with no evidence and only a handful of people being indicted for such heinous crimes as "lying to the FBI." Apparently, the FBI can lie and distort the truth with impunity.

That is not how our American justice system is supposed to work and all of those who were involved in this scandal need to be removed from office and permanently barred from public service. They need to lose their government pensions and many need to go to jail for breaking the laws they were charged to uphold.

Future government employ ees need to understand they are not above the law. It was true for the Republicans involved in Watergate and it must also be true for the Democrats involved in this scandal.

For Legislative News check our website www.lakechelanmirror.com, under Free news

CHURCH GUIDE

CHELAN

LIVING STONE CHURCH **GATHERING IN OUR UNIQUENESS, UNITED IN OUR PURPOSE SUNDAY SERVICES**

the 9:00 am Gathering • the 10:30 am Gathering Adult Bible Study, Children's Church, Nursery 10:30 am the Exchange - Middle & High School Youth Service WEDNESDAYS Kids ROCK 6:10-7:40 pm (4 years thru 5th grade)

Oct-April (except school breaks & holidays) Prayer Time 7:00 pm Scott Morris, Senior Pastor Jeffrey Chambers, Youth Pastor 2133 W. Woodin Avenue, Chelan * 509-682-5953 For more information visit www.lscchelan.org

SEVENTH-DAY ADVENTIST CHURCH

Worship Saturday 9:30 am Bible Study Hour Saturday 11 am 682-5622 • 107 E. Highland Ave

St. Andrew's Episcopal Church Worship 10 am

120 E. Woodin Ave., PO Box 1226, Chelan, WA 98816 682-2851 • www.standrews-chelan.org

CHELAN

St. Francis De Sales CATHOLIC CHURCH

New to the area? On Vacation?

These churches welcome you!

English Mass Saturday 5 pm • Spanish Mass Saturday 7 pm English Mass Sunday 9 am Spanish Mass Sunday Noon Rev. Rogelio Gutiérrez, Pastor 682-2433 • Next to Safeway

ENTIAT

ENTIAT FRIENDS CHURCH Pastor Mark McDonald

2848 Entiat River Road • 509-784-1342 Sunday Morning Bible Class 9:45 a.m. **Sunday Morning Worship 10am** Sunday Prayer Group 7pm Wednesday Shared Dinner 6 pm Wednesday Children's Program/Youth Group and Adult Bible Study 7 pm

WAREHOUSE COMMUNITY CHURCH Group Life Sunday School 9:30 am

Worship Celebration Service 10:45 am 412 Youth Group Wednesday 6:30 pm Pastor Barry Mooney 784-2710 • 14916 Hwy 97A www.warehouseccommunitychurch.com

MANSON

MANSON UNITED METHODIST COMMUNITY CHURCH

Sunday Worship 9 am With coffee following service 687-3311 Green & Boetzkes 'We are a come as you are church'

NORTH SHORE BIBLE CHURCH

Sunday Worship 9:30 am Nursery (birth - 3 years) 9:30 am Kidz Church (4 years-5th Grade) 9:30 am 687-3636 • 123 Wapato Point Parkway www.northshorebc.org Craig Rayment, Sr. Pastor

• BREWSTER

HOPE LUTHERAN CHURCH - LCMS Sunday Worship 11 am

Holy Communion 1st, 3rd, & 5th Sunday Bible Study & Sunday School 10 am 689-3106 • 1520 Sunset Drive Kevin Moore, Pastor

<u>"With men this is impossible;</u>

but with God all things are possible." -Matthew 19:26

TO PLACE YOUR CHURCH IN THIS GUIDE: RUTH 682-2213 • ruthk@lakechelanmirror.com

ERALD BUSINESSJOURNAL

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Brewster School District is accepting applications for two paraprofessionals to work 7 hours per EL Para – MS/HS Math

Spanish Required

ELA Para - Elementary Spanish Required

Starting wage for full time para positions \$13.08 per hour. The qualified candidates are required to meet the followina requirements:

college of years course work (70 credits) documented with tran scripts or;

Pass the ETS paraprofessional test (ˈgiven by the school)

The district is accepting applications for substiparaprofessionals substitute bus drivland All positions are open until filled. EOE Employer

Busy year-round resort temporary lseeks fulltime Maintenance Tech. Apply at 305, 8 th Street Leavenworth, WA.

HELP WANTED

My Buddy's Place in Manson is now hiring for a full-time or part-time, vear around cook. Wage

DOE. Please apply to Alex or Buddy at 77 Wapato Way. Must be 21 to apply.

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Brewster: Behavioral Health Specialist – full-time

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Dental Clinics: Must be available Saturdays Dental Assistants - (5) Per Diem (as needèd Bilingual lbasis) required- All locations Dental Hygienist – fulltime and/ or Per Diem

Okanogan:
Medical Schedulers
(4) full-time positions Bilingual Required

Omak: Pharmacy **Technician** - full -time MA-R/ Phlebotomist full-time MA-C or LPN - full-time

<u> Tonasket</u>: Certified Nurse Midwife – full-time, Bilingual preferred

See www.myfamilyhealth.org for job descriptions. Submit cover letter, resume and application to FHC, c/o Human Resources, PO Box 1340, Okanogan, WA 98840 or email: <u>HR@myfamily-</u>

<u>health.org</u>. Open until filled. FHC is an EOE Employer.



Cascade School District seeking qualified applicants for the following lposition:

 Cascade High **School Varsity** Volleyball Coach

Track application lFast process and additional nformation can be found on our website at:

www.cascadesd.org EOE

HELP WANTED

The Lookout is currently seeking an energetic, organized and responsible team member to direct and oversee all maintenance activities of our HOA and home property management company. The ideal candidate will have education and experience in landscaping, grounds maintenance, and mechanical/technical work along with excellent leadership and supervisory skills.509-888-7677



Slidewaters Chelan, WA Summer Job Guard or Kitchen Team

Join the Slidewaters Team this summer and competitive lenjoy wages, bonuses and fun team oriented work environment.

> Visit https://www.slidewaters.com/lcm-teammember-opportunities for more information.

JOB FAIR



EPIC is now hiring for multiple positions! We will be hosting a job fair at our Bridgeport Site 1400 Columbia Ave from 10:00am - 2:00pm Saturday February 17, 2018. For more information please visit our website at www.epicnet.org.

Find the Best Qualified Local Employee in our Classifieds Ads. Your ad will appear online and in the newspaper for one low price.

Deadline Monday at noon Lake Chelan Mirror 682-2213

lakechelanmirror.com Leavenworth/ Cashmere 509-548-5286 classifieds@ leavenworthecho.com

Deadline Tuesday at noon Quad City Herald 509-689-2507 heraldads@qcherald.com All Classified Ads go in all of

our newspapers

See MORE **CLASSIFIEDS** & PUBLIC **NOTICES** on Page A8

HELP WANTED

Executive Director, Lake Chelan Valley Habitat for Humanity Salary - DOE

apply, submit cover letter, resume, and contact information for 3 references. Email to chelanvalleyhabitat@gmail.com or mail: PO Box 911 Chelan WA 98816-0911 Applications must be received by Feb. 15, 2018. EOE

For job qualifications see our ad on ncwmarket.com

ashmere Care Center

Come be a part of a growing team-Where care is the center of our focus. Seeking Licensed Nurses and Certified Nursing Assistants. Opportunity for growth, leadership and consistent schedule resident centered culture. Apply at Cashmere Care Center, 817 Pioneer Avenue, Cashmere, WA.



The Cascade School District is seeking quali-fied applicants for the following positions:

Cascade High School Spanish Teacher

Middle Icicle River Counselor School Non-Continuing

To apply go to www.cascadesd.org EOE

PUZZLE





PUZZLE SOLUTION

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4	5	6	1	8	9	3	7	2
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7	2	8	6	3	1	9	5	4
1	4	5	9	7	2	6	3	8
9	6	3	4	5	8	2	1	7
2	7	4	3	6	5	8	9	1
5	3	9	8	1	4	7	2	6
6	8	1	2	9	7	5	4	3

APPLIANCES

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682-2213 lakechelanmirror.com **Leavenworth** Cashmere 509-548-5286

classifieds@ leavenworthecho.com Deadline Tuesday at noon **Quad City Herald** 509-689-2507 heraldads@qcherald.com

All Classified Ads go in all of

our newspapers

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Your ad will appear online and in the newspaper for one low price. Deadline Monday at noon **Lake Chelan Mirror**

682-2213 mirrorads@ lakechelanmirror.com **Leavenworth Cashmere** 509-548-5286 classifieds@

leavenworthecho.com Deadline Tuesday at noon **Quad City Herald** 509-689-2507 heraldads@qcherald.com

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dish A

dish

72. Liberal pursuits 73. Baby goat 74. Continental money

THEME: U.S. PRESIDENTS **ACROSS**

1. Little rascal 6. 6th sense? 9. Cell status

13. Pentateuch 14. "To Kill a Mockingbird" recluse 15. Most famous hobbit

16. Enlighten
17. --Wan
18. Willow tree
19. *Smallest President
21. **Oh Captain, My Captain" 23. Prepare to shoot 24. Tulip's early stage 25. Geological Society of America

28. Symphony member 30. Hank Williams' "Hey Good 35. *Pre-election commotion 37. Unpleasant road display 39. Actress Watts

41. Musician's exercise 43. Seedy source of Omega-3s 44. Nine musicians 46. What those on the lam do 47. Kind of palm

40. Full of enthusiasm

50. Accepted behavior 52. *Barack Obama's former title 53. Toothy tool 55. H+, e.g. 57. *Lincoln follower

. First book of Old Testament 65. Bye to Emmanuel Macron 66. It doesn't mix with water 68. French wine region

69. Battery units 70. Spy org. 71. Emulate Demosthenes

DOWN Education acronym
 Musical finale . Extra dry 4. Godfather's family 5. ___gnomy or 6. Jet black

7. Have a bawl 8. Southern chicken stew 9. CISC alternative 10. Hodgepodge 11. Cain's brother 12. Between dawn and noon

15. Candy in Paris 20. Spaniard without "h" 22. The Jackson 5's ' Be There" 24. Cole Porter's "Begin the ____"
25. *He commanded the Union army

26. Enjoy yumminess 27. Raspberry drupelets 29. *___ of office 31. Stumblebums

32. Caffeine-containing nut tree, pl. 33. *Candidate's concern 34. *First US president to resign 36. She played a TV genie

38. Cocoyam 42. Chill-inducing 45. Group of foot bones 49. One from Laos 51. *Inspiration for Liberia's capital

54. Beginning of a joke 56. India's first P.M. 57. Cup of Joe

58. Detected by olfactory 59. Sword handle 60. Brooklyn players

61. Happy 62. Fly like an eagle 63. A fan of

64. Gets the picture 67. Roman three

Public NOTICES

LEGAL ADVERTISEMENT NOTICE OF INTENT TO LEASE SURPLUS REAL PROPERTY

NOTICE IS HEREBY GIVEN that the Board of Directors (the "Board") of Eastmont School Douglas he "Dis-Washington (the County, Washington (the "District") intends to lease certain property owned by the District and generally described as an approximately 34 acre, non-organic apple orchard containing the following varieties of apples: (a) 15.4 acres of gala apples approximately 20 years old, and (b) 18.9 acres of apples granny smith approxiy 20 years old (c the "Real Property"). tively, the "Real Property J. ... ter August 1, 2018, no conventional chemicals/fertilizers will be applied to the Real Property. The Real Property is located at 2125 6th Street SE, East Wenatchee, Washington. Property is not cu The Real currently quired for school purposes, and therefore, the Board has determined that the Real Property is "surplus" property. The District intends to lease the Real Prop-The District erty for orchard purposes until the District requires the use of the Real Property for school pursuant chard lease agreement, a form of which is available upon request and which contains all of the terms and conditions of the The lease of the Real for orchard purposes will not interfere with duct of the District's educational programs and related activities. Prospective tenants shall execute a copy of the orchard lease agreement and complete a proposal response form regarding the prospective tenant's qualifi cations to operate the Property (which available Such an exeupon request). cuted orchard lease agreement shall constitute an offer to lease with the District and does not become a legally binding contract until the Board accepts the orchard lease agreement as The District may reject any and all responses and may waive informalities or irregularities in the proposal The Board shall publicly open read aloud all responses and award the lease to the most qualified prospective tenant at the meeting of the Board to be held at Sterling School, 600 James Street, East Wenatchee, at 5:30 P.M. on March 12, 2018. All unaccepted responses thereafter be null and void. The rental for the Real Property is based on the Annual Net Operating Income as follows: Annual Net Operating come is less than or equal to \$50,000, 30% to the District, and (b) if the Annual Net Operis greater than Íncome \$50,000, 40% to the District. purposes of the lease, Net Operating Income" For the means process from the sale of all fruit harvested from the Real less all of the ordinary and necessary expenses incurred example, but not limited to, brostorage and packing charges) in that same crop year in connection with the growing and harvesting of the fruit from the Real Property. The deadline for submission of sealed re-Property is 2:00 P.M. March 12 2018. Proposals shall submitted to the Eastmont Administration School District Office which is located at 800 Eastmont Avenue, East We-Washington natchee, and should be marked "Apple Orchard Lease." For further information or to request a copy of the proposed orchard lease agreement and the proposal response form, please contact Cindy Ulrich, Executive Director of Financial Services, Eastmont School District No. 206, at (509) 888-4686 or ulrichc@east-mont206.org.Published in the Lake Chelan Mirror January 31 and February 7, 2018. #81026

Notice of Public Hearing VAR2017-04

Fisher Garage February 2nd, 2018 On December 7th, 2017 the City of Chelan received a Variance application for a detached ga-rage located at 318 SR 150, which was deemed complete on December 14th, 2017.

Project Applicant: Scott and Lucia Fisher, 703-A 122nd Ave NE, Bellevue, WA, 98005 Project Location: 318 SR 150, 98816; Chelan, WA, Chelan

County Parcel No: 272204440300 Detached

Project Description: garage associated single-family residence
NOTICE IS HEREBY GIVENthat a public hearing will be held

before the Hearing Examiner at 10:00 a.m. on February 27th, 2018 in the Council Chambers 135 East Johnson, Chelan,

Any person has the right to provide testimony at the public hearing. Written comments may be submitted prior to the hearaddress any speand factual comments about the project to Joey Meisenheimer at the Community De-Department, P. O. Chelan, WA 98816. velopment Box 1669, The project application may be reviewed at the City Planning Department during regular business hours. Copies of the application, staff report, and applicable criteria will be provided at

the applicant's cost. Published in the Lake Chelan Mirror on February 7, 2018.

Public Notices

Notice of Public Hearing
CUP2017-011
Sterling Bed and Breakfast
February 2nd, 2018

n December 11th, 2017 the
ty of Chelan received a Con-

ditional Use Permit application for a Bed and Breakfast which was deemed complete on December 15, 201

Project Applicant: Bill and Merry Sterling, PO BOX 551, Manson, WA 98831. Project Location: 368 SR 150, Chelan, WA 98816; Chelan County

Parcel No: 272204310860

Project Description: Bed and Breakfast within an existing single-family home.
NOTICE IS HEREBY GIVEN-

that a public hearing will be held before the Hearing Examiner at 10:00 a.m. on February 27th, 2018 in the Council Chambers 135 East Johnson, Chelan,

Any person has the right to protestimony at hearing. Written comments may be submitted prior to the hearaddress any Please factual and comments about the project to Joey Meisenheimer at the Community Development Department, P. O. velopment Department. Chelan, WA 98816. The project application may be reviewed at the City Planning Department during regular busi ness hours. Copies of the application, staff report, and applicable criteria will be provided at the applicant's cost.

Published in the Lake Chelan Mirror on February 7, 2018.

DETERMINATION OF NONSIGNIFICANCE February 2nd, 2018 SEPA2018-01 Hughbank Land Leveling

proposal: project will be excavating ap-proximately 700 cubic yards of dirt and disposing at an approved off-site dump location. Applicant: Chris and Casmisha Hughbank. 738 Golf Course Drive, Chelan, WA, 98816 Location of proposal: 736 Golf Course Drive, Chelan, WA, osal: , Chelan, WA, Number: 98816. Parcel 272211560010 ead Agency: City of Chelan

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public on request.

This DNS is issued under WAC 197-11-340(2); the lead agency will not act on this proposal for 14 days from the date below. Comments must be submitted by February 16, 2018 Published in the Lake Chelan

Mirror on February 7, 2018.

SUPERIOR COURT OF WASHINGTON FOR LINCOLN COUNTY In the matter of the Estate

Ethel Badten, NO. 18 4 00004 0 Probate Notice to Creditors

RCW 11.40.030 Personal Representative named below has been appointed as personal representative of this estate. Any person having a claim against the decedent that arose before the decedent's death must, before the time the claim would be barred otherwise any applicable statute of limitations, present the claim in the manner as provided in RCW 11.40.070 by serving on or mailing to the personal representative or the perrepresentative's attorneys at the address stated below a copy of the claim and filing the original of the claim with Clerk of this Court. The claim must be presented within the later of (1) thirty days after the Personal Representative served or mailed the Notice Creditor as provided to RCW 11.40.020(3); or (2) months after the date of publication of this notice. claim is not presented within this time frame, the claim will be forever barred, except as otherwise provided in RCW Section 11 and RCW 11.40.060. This is effective as to claims against both the decedent's probate and nonprobate assets. Date of First Publication:

1/24/18 Personal Representative: Gale Badten Attorney for P.R.: Norman D. Brock Address for Mailing or Service: Brock Law Firm, P.S. 529 Morgan St., P.O. Box 249 Davenport, WA 99122 Gale Badten

Personal Representative Published in the Lake Chelan Mirror on January 24,31 and Febuary 7,2018. #80983

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BUSINESSJOURNAL







PUBLIC NOTICES

IN THE SUPERIOR COURT OF WASHINGTON **COUNTY OF CHELAN**

Estate of PAULINE J. ANDERSON, Deceased. NO. 18-4-00028-1 PROBATE NOTICE TO

CREDITORS RCW 11.40.030

representative personal below has named pointed as personal tive of this estate. representative of this estate. Any person having a claim against the decedent must, before the time the claim would be barred by any otherwise applicable statute of limitations, present the claim in the manner as provided in RCW 11.40.070 by serving on or mailing to the personal representative or the personal representative's attorney at the address stated below a copy of the claim and filing the original of the claim with the court. The claim must be presented within the later of: (1) Thirty days after the personal representative served or mailed the notice to the creditor as provided under RCW 11.40.020(3); or (2) four months after the date of first publication of the notice. If the claim is not within this time is forever the claim barred, except as otherwise provided in RCW 11.40.051 and 11.40.060. This bar is effective as to claims against both the decedent's probate and nonprobate assets

DATE OF FIRST PUBLICATION: January 31, 2018 PERSONAL REPRESENTATIVE: Christoph K. Anderson ATTORNEY FOR P REPRESENTATIVE: Jeffrey T. Fehr PERSONAL ADDRESS FOR MAILING OR SERVICE Fehr Law Office, PLLC P.O. Box 1606 Chelan, WA 98816 509-682-4536

Superior Court of Washington in and for Chelan County, Cause No.18-4-00028-1 Published in the Lake Chelan Mirror on January 31 and February 7, 14, 2018. #81056

Court of probate proceedings

and cause no.

IN THE SUPERIOR COURT OF WASHINGTON COUNTY OF CHELAN Estate of

JACOB M. GOEHRY, Deceased. NO. 18-4-00036-1 PROBATE NOTICE TO CREDITORS RCW 11.40.030

representative personal named pointed as personal tive of this estate. representa tive of this estate. Any person having a claim against the decedent must, before the time the claim would be barred by any otherwise applicable statute of limitations, present the claim in the manner as provided in RCW 11.40.070 by serving on or mailing to the personal representa-tive or the personal representative's attorney at the address stated below a copy of the claim and filing the original of the claim with the court. The claim must be presented within the later of: (1) Thirty days after the or mailed the notice to the creditor as provided under RCW 11.40.020(3); or (2) four months after the date of first publication of the notice. If the claim is not this time within ed within the claim frame. barred, except as otherwise provided in RCW 11.40.051 and 11.40.060. This bar is effective as to claims against both the decedent's probate and nonprobate assets DATE OF FIRST PUBLICATION: February 7, 2018

REPRESENTATIVE: Kim D. Olsen ATTORNEY FOR REPRESENTATIVE: Jeffrey T. Fehr FOR PERSONAL ADDRESS FOR MAILING OR SERVICE: Fehr Law Office, PLLC P.O. Box 1606 Chelan, WA 98816 509-682-4536 Court of probate proceedings and cause no.: Superior Court of Washington in and for Chelan County, Cause No.

Chelan Cou 18-4-00036-1. Published in the Lake Chelan Mirror February 7, 14, and 21, 2018. #81129 You've Got It!

Somebody

SHERIFF/FIRE/EMS REPORT

911 CALLS

Agency assist reported on North Apple Blossom Drive, Chelan.

Warrant reported on Wapato Lake Road, Manson. Domestic disturbance reported on East Allen Avenue, Chelan.

Sex offense reported at Entiat Way, Entiat.

Harass/Threat reported on West Gibson Avenue, Chelan, Alarm reported at on Willow Point Road, Manson.

Jan. 30

Welfare check reported on East Johnson Avenue, Chelan. 911 reported on East Highland Avenue, Chelan.

Welfare check reported on West Gibson Avenue, Chelan, Domestic disturbance reported

on Chandler Road, Manson. Theft reported on East Woodin Avenue, Chelan.

Traffic offense reported on State Route 150, Manson.

Jan. 31

Suspicious activity reported at on Entiat Way, Entiat.

Theft reported at on U.S. Highway 97A, Entiat. Runaway reported on Harvey

Lewis Lane, Manson, Public assist reported on East Woodin Avenue, Chelan.

Feb. 1

Public assist reported on East Woodin Avenue, Chelan. Suspicious activity reported at on Wapato Lake Road,

Parking/abandon reported at 14449 U.S. Highway 97A,

Suspicious activity reported at on Entiat Way, Entiat. Suicide threat reported on South Sanders Street, Chelan. Civil issue reported on South Emerson Street, Chelan.

FIRE/EMS

Jan. 29

Fall reported on East Highland Avenue, Chelan County Fire

& and Chelan Emergency Medical Services respond-

> Cardiac reported at 108 North Apple Blossom Drive, CCF7

> and CEMS responded.

Transfer reported on East Highland Avenue, CEMS responded. Sick person reported on East

Allen Avenue, CCF7 and

CEMs responded. Jan.31

Sick person reported on East Johnson Avenue, CCf7 and CEMS responded.

Transfer reported from Lake Chelan Community Hospital to Central Washington Hospital, CEMS responded.

Structure fire reported at 2710 First Creek Road, CCF7 and CEMS responded.

Breathing problem reported on Green Avenue, CEMS responded.

Transfer reported from LCCH to CWH, CEMS responded.

American Red Cross seeking nominations for 'Hometown Heroes'

Deadline for nominations is Feb. 15

SUBMITTED BY MEGAN SNOW, American Red Cross

WENATCHEE - The American Red Cross is inviting nominations from the community for the "Hometown Heroes" among us. If you know of a local individual or organization who has done something courageous or exceptional that deserves recognition, please take the time to nominate them. Nominations will be accepted until Feb. 15.

Heroes may be professional rescuers, ordinary citizens or local groups/organizations. Nominees must live in or have performed their heroic act in Grant, Douglas, Chelan or Okanogan County within the last two years. Examples of heroes include someone who has rescued another person from a dangerous situation, individuals or organizations who are addressing an unmet need in our community, or first responders (military, fire, police, etc.) whose actions have gone above and beyond the call of duty.

Members of the community are invited and encouraged to submit nominations. Nomination forms are available by calling (509) 663-3907 or contacting megan.snow@ redcross.org. Nominations are also accepted online at http:// www.redcross.org/local/washington/news-events/events/ heroes-breakfast/nominate

Those nominees selected as a Hero award recipient by an independent panel of community leaders will be honored at the annual "Hometown Heroes Celebration" on Thursday, March 29 at the Wenatchee Convention Center.

If you have any questions or would like more information. please contact Megan Snow at (509) 990-0969. Media interviews regarding this event can be arranged.

About the

American Red Cross:

The American Red Cross shelters, feeds and provides emotional support to victims of disasters; supplies nearly half of the nation's blood; teaches lifesaving skills; provides international humanitarian aid; and supports military members and their families. The Red Cross is a charitable organization — not a government agency - and depends on volunteers and the generosity of the American public to perform its mission. For more information, please visit www.redcross.org or join our blog athttp://blog. redcross.org.

Practice your home escape plan

SUBMITTED BY THE WASHINGTON STATE FIRE MAR-SHALS OFFICE

OLYMPIA - We are only 31 days into the New Year and already there have been four fire fatalities in homes with no working smoke alarms. The State Fire Marshal's Office is encouraging every household to develop and practice a home escape plan. This is a critical component to giving you and your family the best chance of survival in a home fire emergency.

Here is what you can do to protect the ones

Sketch the floor plan of your home.

· Identify all doors, windows, and other possible emergency exits for every room in your

· Draw arrows to indicate your primary exits. · With a different color, draw arrows to indi-

cate secondary exits. · Choose a meeting place outside of your

home, and mark it on your escape plan. · Write the emergency telephone number for

the fire department on your escape plan. · Twice a year, practice your escape plan with

everyone living in your home.

· Keep your escape plan posted on the refrigerator.

To learn more about home escape planning and how to prevent home fires, visit the State Fire Marshal's website at:http://www.wsp. wa.gov/fire/public/

Selecting the correct fire extinguisher

Submitted by

CHELAN FIRE & RESCUE

CHELAN -The National Fire Protection Association notes that portable fire extinguishers can "save lives and property by putting out a small fire or containing it until the fire department arrives, but portable extinguishers have limitations."

The three most commonly used fire extinguishers are air-pressurized water, carbon dioxide and multi- purpose/ dry chemical. According to

• Air-pressurized water extinguishers are designed to be used only on Class A fires (wood, paper, cloth, rubber and certain plastics). Never use an APW extinguisher

on flammable liquid fires, as it may make the situation worse, or electrical fires, as it may cause electrocution. · Carbon dioxide extin-

guishers put out fires by displacing oxygen. Be aware that pieces of dry ice will shoot from the device. Carbon dioxide extinguishers are meant for use only on Class B fires (oils, gasoline, some paints, lacquers, grease, solvents and other flammable liquids) and Class C fires (electrical fires, including fires in wires, fuse boxes and energized electrical equipment).

 Multi-purpose/dry chemical extinguishers coat the fuel element with a thin layer of fire-retardant powder, OSHA notes. Although generally rated for Class B and C fires,

they may be marked as multipurpose for use in Class A, B and C fires. All fire extinguishers will be marked with labeling that identifies what class of fire it can be used on.

To use a fire extinguisher; NFPA recommends remembering to "PASS":

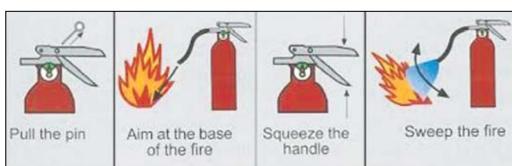
• Pull the pin and hold the extinguisher with the nozzle pointed away from you, then release the locking mechanism.

• Aim low – point at the base of the fire.

Squeeze the lever slow-

· Sweep the nozzle in a sideto-side motion.

Source: www.safetyandhealthmagazine.com



www.lakechelanmirror.com

Horticulture 2018 and Lake Chelan Horticulture Day Inside Story Index Wooly Apple Aphid 4 Spotted Wing Drosophila5 Wrap Up Cosmic Crisp discussed 5 Stink bug study 6 Proper spray application 7 Breaking down fiber 7

Fire blight identification, prevention, management explained



Photos courtesy of Tianna DuPont, WSU Extension

Gwen Hoheisel demonstrates calibration of a sprayer.

By Erin Rossell, STAFF WRITER

CHELAN - Fire blight, a disease effecting apple and pear trees, is caused by Erwinia amylovora, a rod-shaped bacterium. The bacteria grow by dividing, with a rapid division rate in temperatures 70 degrees and above. The disease can be detrimental to first

blight canker with 20 to 50 percent of the pathogen cells surviving into the next bloom period. The prevention and management of the disease was the focus of the presentation led by Tianna DuPont, of WSU Extension, during the Lake Chelan Horticultural Meeting. Monday, Jan. 15 at Chelan High School PAC.

One to two weeks after infected shoots being the 1s moving that direction. and second leaf fruit trees petal fall, visible symptoms clinging of the shoot "firmly and can overwinter in the appear on infected blossoms to the host after death." The

resulting in a dull, graygreen appearance on the floral receptacle, ovary and peduncles. In infected shoots, rapid wilting may be visible and can "often show blackening along the midrib and veins before becoming fully necrotic," according to the WSU Tree Fruit website. which also pointed out the key indicative feature of

bacteria from the infected flower cluster move in the phloem of the plant tissue, explained DuPont, "much more quickly than you actually see symptoms."

So, now the bacteria are moving in the phloem and you're getting more and more infection, DuPont stated, "you're concentrating in the shoot tips because the phloem

SEE **BLIGHT** ON PAGE B2

Proper weed I.D. is critical for maximum herbicide control

By Mike Maltais, STAFF WRITER

CHELAN -Weeds, while a nuisance to most agriculturalists, highly adaptable living species in their own right and require an arsenal of research, identification, and understanding to best determine how to control their presence in crop environments.

Lynn Sosnoskie, a WSU weed scientist began her discussion at the 72nd Lake Chelan Horticulture Day with a primer on the various methods used to identify weeds.

One way is by growth form, whether a grass species or broadleaf species, said Sosnoskie. Another way is by life cycle; annual,

"The strategies that we use to manage weeds differ based on their life cycle,"

Lynn Sosnoskie, WSU weed scientist

biennual, or perennial.

An annual weed, such as common lambsquarters. completes its life cycle within a single year.

A biennial, like wild carrot, occurs over two years, with a rosette forming the first year, dormancy over the

SEE WEED ID ON PAGE B2



Photo courtesy missouristate.edu

Common lambsquarters completes its life cycle within a

Proprietary Variety Management team provides Cosmic Crisp updates for growers, consumers

Consumer, retailer excitement for the apple is out of this world

BY ERIN ROSSELL, STAFF WRITER

CHELAN - Washington State's newest pride and joy in the apple varieties, the WA 38 "Cosmic Crisp", has been a big topic throughout not only Chelan Valley, but all of Washington State, and was the basis of the presentation provided by Proprietary Variety Management (PVM) Vice-President Kevin Brandt and Director of Marketing and Operations Kathryn Grandy.

The Cosmic Crisp apple variety has been in the development process since 1998, when seeds were germinated and raised in a greenhouse until planting and eventually budding in 1999. The Enterprise-Honeycrisp offspring offers the beautiful red coloration that Washington Apples are well-known for, and the sweet crunch found in the honeycrisp. The pleasantly balanced sweet and tart taste of the Cosmic Crisp is not the only an excellent tasting apple, but it also maintains freshness longer, taking slower to brown when cut and

texture and flavor storage more than a year," according to the Cosmic Crisp website.

Brandt began the presentation with updates the grower's side of the spectrum, focusing purchasing, growing, and

distribution of the Cosmic allowed to Crisp. A limited number of trees for WA 38 were made available to Washington State growers in 2017, whom were chosen by way of a drawing. There were only a limited amount available because there were only a limited number of budwood to grow trees, explained Brandt, "2018 is open to any Washington State grower, right now we have 5 million

trees in the books." PVM has the rights to commercialize WA38, and in doing so has given the exclusive propagation rights to the Northwest Nursery Improvement Institute (NNII). At this time, the trees



the Kevin Brandt, vicepresident, Proprietary **Variety Management (PVM)**

You're propagate your own trees outside of purchasing from the NNII nurseries, Brandt explained, "but we have to do so in a specific manner," he expressed, explaining, "what

you have to remember is this is not an open variety ... it's a managed variety. It's patented, it's trademarked, and it's only available to Washington State growers for the next 10 years." The propagation material, he continued to explain, can only be taken out of G1 through G4, that references certified material. "Once that leaves the nurseries and is put out into the orchards, that's no longer considered

purchased through participating NNII member nursery, in which of the 13 member nurseries are participating in growing, propagating and selling the WA38 'Cosmic Crisp trees, he emphasized the audience.

> Cosmic Crisp apples. certifiable," he said, "the state does not certify anything that's placed in the commercial orchards, so we can't take any propagation off of that. We can take it off the trees in the nurseries, and the certifiable material." If you're considering propagating, you would need to obtain a onetime propagation agreement, said Brandt, "that one-time propagation agreement is given directly to you, you



Photos courtesy of Kevin Brandt, Proprietary Variety Management

go to another nursery if you want." The budwood from the WA 38 is used in three ways. First, and most importantly, it is used to produce trees within the NNII network to supply the industry, then leftover budwood is used for grafting, and lastly, anything after that goes out to anyone who interested in individual tree propagation. There are no

can use that agreement to

propagation fees, explained Brandt, but there is a 25-cent industry support propagation fee "to give back to the research and industry". You can also expect the standard budwood collection fee from the nurseries, that's standard, but there's nothing on top of that. Other fees that you may come across include a \$1 royalty fee. "That's straight across," he expressed, "when

SEE COSMIC ON PAGE B3



Researcher Jared Dean, with Tianna DuPont's lab team of WSU Extentension, inoculates fire blight in order to look for new management tools.



Photos courtesy of Tianna DuPont, WSU Extension A young branch of leaves displaying signs of a fire blight infection.

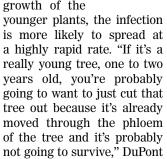
BLIGHT

CONTINUED FROM PAGE A1

The young, one to two-yearold tissue is susceptible and that's where you're getting those shoot tip infections, she explained. It could take weeks, or even up to two months after the shoots have those initial infections until you will be able to noticeably see a lot of blight in that block, and weeks until a canker in the infected area will be visible. Wind, hail and abrading can make it so the shoot tips are more likely to directly get infected from the bacteria, not from the cluster infection itself. "So, when you're out there pruning or braiding, that tender tissue," she began to explain, "when that tissue gets damaged is when that bacteria can directly infect, so that can be happening too, and you want to limit the abrasion

of that tissue as much as possible."

In the event of infection, first and second leaf trees/plants are generally best to just be pulled up, opposed treating and pruning. Due to the immaturity of the tree wSU Extension and the rapid growth of the





rule of thumb is to cut 12-18 inches below the visible canker, she pointed out, "but it depends on the variety and how young the tree is." If the space doesn't allow to cut that far below

emphasized.

mature

plantings, the

more

On

the canker, "consider making a stub cut or a dirty cut," DuPont suggested, "leaving four or five inches when you're cutting away from the main, central leader from the trunk." This will promote new growth which will receive the infection, instead of the central leader, in which case

you'd have to cut that tree

out, she said. In addition to cutting out the cankers, DuPont recommends treating with Actigard, a systemic acquired resistance (SAR), in addition to cutting out the infection and pruning. "This isn't a silver bullet," she expressed, "nothing is a silver bullet, but if we look at 10 years now of research, a couple things that it can be helpful with is reducing the total amount of wood needing to be cut out of a block, by about 80 percent," she said, then added, "the other thing that was impressive was looking at the number of trees that were killed by the fire blight. When they were just cutting and doing all the good pruning, but weren't using the Actigard, they were losing about 25 percent of the trees, and only about 10 percent of the trees when Actigard was

purpose of using Actigard, stating that it doesn't actually kill or cure the bacteria, but rather, acting as an immune system stimulator for the plant, it helps the plant to be stronger and fight off the infection.

After block treatment and cutting out the canker, you definitely want to be thoughtful about what you spray with, explained DuPont. "Oxytetracycline in particular," she began, "the way it works is that it's slowing down the bacteria from multiplying," but in younger trees, she advised using soluble coppers because "those actually do kill bacterial cells when they come into contact with them." Once the block has been treated, the canker has been cut out and the plant has been sprayed, focus on ensuring a complete clean-up to prevent chances of the bacteria returning.

Burning the cuttings, if possible, is best. However, if you are unable to burn, DuPont suggests removing the cuttings from the orchard or as far away from the block as possible and cover with

a tarp. The life span for fire blight in wood can vary based on the diameter of the tissue branch," she explained, "when the fire blight is in living tissue it can continue to live, but once that tissue is completely dried up and dead the fire blight cannot live in that anymore." For organic orchards, DuPont suggested fixed copper at delayed dormant, lime sulfur at early bloom, blossom protect or bloomtime biological.

More information on fire blight is available online at www.treefruit.wsu.edu or email questions to Tianna DuPont at tianna.dupont@ wsu.edu.

WEED ID

CONTINUED FROM PAGE A1

winter, and a flowered seed stalk the second year.

A perennial, like quack grass, has a life span that exceeds two years.

Sosnoskie explained the importance of knowing these weed differences: "The strategies that we use to manage weeds differ based on their life effective against all weed species.'

Since herbicides differ in their selectivity, the spectrum of weeds they can control, a sound knowledge of the weed type under consideration is essential for effective results. And it gets even more technical. Weed species, even closely related ones like purple nutsedge and yellow nutsedge, can vary in their sensitivity to herbicides.

Sosnoskie recommended strategies aren't equally two books she prefers as

reference tools to help growers identify weed species.

 Weeds of the West published by the University of Wyoming Agricultural Extension is a guide to weeds in Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming.

Its 900 color photographs show both early growth and mature plants and ones which complete with crops

and those poisonous to people and livestock.

· Weeds of California and Other Western States (2 volumes) provides full description of 451 species plus an additional 361 plants. Shortcut identification tables, grass identification keys, and more than 60 tables comparing difficultto-distinguish weedy species help the user navigate the many aspects of habitat, seed dispersal, methods of

reproduction, longevity and

many other traits.

A perennial, like

quack grass, has

a life span that

exceeds two years.

An ID Weeds App, created by the University of Missouri for smartphones is also now available. The app allows the user to input weed characteristics such as grass or broadleaf, where found, leaf and stem details, and other data and then pulls up images and information about possible

used." DuPont clarified the

matches. It also allows searches specific weed species from alphabetized list.

Another phone app, Pl@ntNet App, developed in France, allows the user to upload a photo of a leaf, flower, fruit or bark for comparison against a database of images.

Closer to Sosnoskie revealed some distinguishing characteristics between two major classes of weeds in Washington State: grasses and broadleaves. explanations, while easy to follow with the help of visual aids that focused on specific plant parts and patterns, emphasized the importance of dedicated dirt time paired with a comprehensive reference manual if one is really determined to understand and identify the world of weeds.



Lynn Sosnoskie is a weed scientist with the WSU Extension

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COSMIC

CONTINUED FROM PAGE B1

you buy that tree, when you propagate that tree, it's \$1." When you take it into the packing house, however, there is a 4.75 percent (of total box sale price) production fee, which only applies "if it's \$20 or higher," said Brandt, "if it's below \$20 then there's no production fee. The total production fee amount will be deducted from the packing house returns to the grower, which is configured through a database used by the packers, so the growers will not need to figure the fee out themselves. "The reason for that (the fee or waiving of the fee), is that the growers need to make money and the industry needs to make money," he explained.

Washington State grown fruit is unrestricted with including marketing, marketing for the Cosmic Crisp apple. Brandt explained that the fruit can be marketed anywhere in the world with the appropriate licensing. "There will be peer-to-peer marketing," he began, "we will need to make sure we have

Washington State

grown fruit is

unrestricted with

marketing, including

marketing for the

Cosmic Crisp apple

(trademark) protection in those other countries though." you choose to sell vour own fruit, rather than going to a packing house, you can do so by checking a box

within the grower agreement. The selling "of one's own fruit is termed 'farmgate sales' within the WA 38 grower agreement," explained Brandt. The grower will still be receiving the standard \$1 royalty fee per tree, however because a packing house isn't being used and a production fee is not being charged by the packer, the grower will instead see a production royalty fee of \$2 per tree, per year. The production royalty fee differs from the production fee from a packing house in that it is a flat \$2 per tree rate, as opposed to a fee of 4.75 percent of the selling price of each box over \$20.

When you bring your fruit to the packer of your choice, as long as they are in Washington State, you will need to bring your grower agreement with you and present it to

the packer. Your grower's agreement, which is generated at random by the Idyia database system and specific to you, will track how much fruit you're bringing in and calculate the 4.75 percent growers royalty fee, there's need for calculation,

Kathryn Grandy, Director of Marketing and Operations, manual Proprietary Variety Management

eliminating the chance of cost error. The Idyia database "works with all ends of WA 38," Brandt stated, "all the way from production to the marketing desk." So, when a grower orders from the nursery, they will input all the information, such as type and quantity of rootstock ordered, and generate a license number that is specific to you. So, every time you order, it will track how many of the rootstock you have purchased to date. The database system, as well

as informative seminars for on growers regulations, rules and trademarking help protect the intellectual property on Cosmic Crisp.

Concluding portion of the presentation, Brandt

expressed his excitement for the new apple, "together, through the nurseries, the grower, the packer, the marketing desk, we think we've got something put together for a truly premium variety, so we can actually get some really good premium prices."

Kathryn Grandy, Director of Marketing andOperations with PVM then took the stage and provided an update on the marketing and public relations (PR) aspect of acquiring demand for the produce. "As you can see from Kevin's presentation," she began, "we are going to have a very large volume of Cosmic Crisp to the market, very quickly. So, my responsibility is to create a very dynamic marketing system to support the growers' efforts in Washington, and to raise consumer awareness and consumer demand very quickly for Cosmic Crisp, as well as work with the sales and marketing companies in the state of Washington to create trade and retail programs."

Represented by nearly 95 percent of the apple industry in the state of Washington. the marketing advisory

group meets quarterly to discuss items such as marketing, growing and quality standards for the Cosmic Crisp. Within the marketing committee is a subcommittee specifically for focusing on quality standards, explained Grandy. industry has made the decision to manage the variety as an industry," she said, and the growers, with the assistance of Washington State Department

of Agriculture

standards

includes the

Cosmic Crisp.

"Right now,

38.5 percent

products

Grandy explained,

of

the

department are branded,"

that's a huge growing trend,

but the disconnect is that 55

percent of shoppers go into

the store without a specific

brand in mind." There's a lot

of competition for the "shelf

space" in shopping markets

with all the new apple

varieties, she stated, adding

that will the competitive

knowledge, the marketing

committee decided to proceed

with a standard brand

across all companies. After

completing consumer focus

groups and sensory testing,

the Cosmic Crisp name and

logo were developed. "It's

the first apple brand ever

developed by consumers,"

the industry took that and

Grandy expressed,

branding

within

for

as well, are "It's the first apple working with the group to brand ever develcreate quality oped by consumstandards ers." Cosmic Crisp. One of the industry

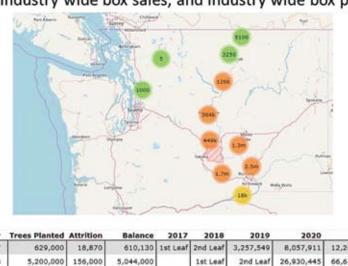
produce

Kathryn Grandy, Director of Marketing and Operations, Proprietary Variety Management

> of 2019. "So, with the support and letters of Wal-Mart, Costco, Albertson's and Safeway," she stated, "which is also unprecedented to have that kind of support, we're very hopeful to get the PLU within the next few The apple has been a

Marketing and Sales

Marketing desks will be provided information related to planting locations, industry wide box sales, and industry wide box projections.



Photos courtesy of Kevin Brandt, Proprietary Variety Management The Idyia Database will be able to provide marketing desks with information related to planting locations and industry wide box sales and projections.

said we're going to have a custom price look up (PLU) codes, packaging and we're going to be uniform across all sales companies, so there's a tremendous collaboration." The PLU has been submitted. but the marketing advisory

group has asked for an exception, she explained. Typically, international standards do not give PLUs unless this apple has been at retail, however the Cosmic Crisp will not be at retail until fall

tremendous success with PR,

said Grandy. After a broadcast on national radio, the day the broadcast came out the Cosmic Crisp website "went crazy," she stated excitedly, with around 3,500 hits "which was a lot for us." There have since been articles in grower magazines such as Good Fruit Grower and American Fruit Grower, and even on the cover of the Seattle Business Journal. "That article (in the Seattle Business Journal) was very favorable to Washington State and really seen all over the country," she said. The apple is, in fact, getting very high-level PR with cooperation from influential icons in media such as the Produce Mom, "who is the industry advocate for marketing and promoting produce ... (and) has national relationships with retailers such as Kroger and Wal-Mart," Grandy supplied. After a trip to New York, the apple has also earned the interest of Martha Stuart, Chef Emeril, various digital agencies and consumer

magazines including 'Good

Housekeeping', which has the

nutritional seal of approval

and has already committed to publishing a teaser article this fall and a major article the fall of 2019, when the Cosmic Crisp is set to go to retailers. "(We're) working very hard not only to contract good media," Grandy explained, "but also get earned media that we don't have to pay for ... there is a lot of consumer excitement out there now and the retailers feel like it's an exceptional apple and they can't wait to get it in their hands.'

For more information on Cosmic Crisp, visit the website at www.cosmiccrisp.com. If you're interested in purchasing the WA 38 Cosmic Crisp trees or for inquiries, email NNII at nwnurseryii@gmail.com or visit the website at www. nniifruittrees.org.

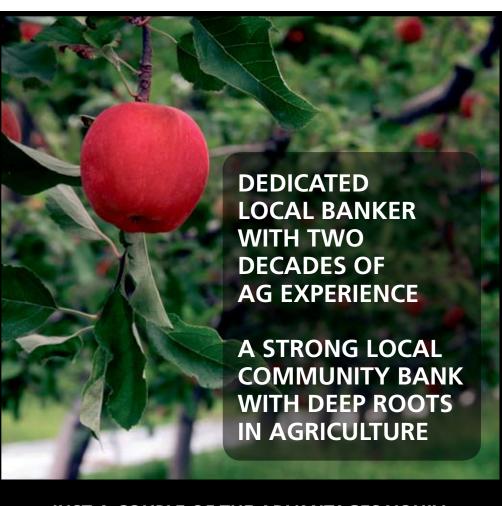
> Training, growth, characteristics of Cosmic Crisp Apple discussed See Page B5

Nurseries participating in the growing and selling of the WA38 cv. Trees are:

Biringer Nursery Brandt's Fruit Trees **C&O Nursery** Cameron Nursery Gold Crown Nursery **Helios Nursery** Mike & Brian's Nursery ProTree Nursery Tree Connection Van Well Nursery Willow Drive Nursery

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Wooly Apple Aphid: The presence, the damage, the earwig

By Erin Rossell, STAFF WRITER

CHELAN - The wooly apple aphid is an apple tree pest that is most commonly found feeding at the base of leaf axels, tree trunks and branches, explained Robert Orpet, with WSU Entomology during his presentation. The wooly apple aphids can essentially be found wherever there is a type of wound or cut on the tree, at the base of trees feeding on roots, and most importantly they're found underground feeding on the roots, "and that's the major problem," he emphasized. The aphid exists both above ground and below ground, year-round. "What you have is females that are reproducing by giving birth to clones of themselves," he explained. They have also been seen in a winged form, but the wings are not necessarily important for dispersal, Orpet said, "because the offspring of the winged aphid normally can only survive on elm trees." The wooly apple aphid is believed to spread mostly by crawling and by human mediated transport, such as moving tools. "I've seen large amounts of winged aphid," explained Orpet, "but if you take a close look, they're wooly, but they're not the wooly apple aphid. When I look at them they're also the smoky-winged ash aphid, which is not a pest, they're migrating to ash trees."

Wherever they feed, either above ground or below ground, they induce the formation of root galls. These galls interrupt nutrient and water distribution throughout the tree, explained Orpet, which can greatly reduce the growth of the tree. "Because these are an indirect pest, not feeding on fruit, it's very difficult to measure damage," he said, "that's why there are no established economic thresholds for this pest, but the scientific evidence that is available suggests that root feeding is a more important type of damage they cause."

By utilizing a resistant root stock, you can minimize, if not eliminate, the wooly apple aphid presence on your roots. Some of the new Geneva series rootstocks

supplied Orpet, so you'd likely have no or very few aphids on the roots. The question has to whether or not a resistant root stock would decrease the amount of the wooly apple aphid above ground was the basis of an experiment Orpet performed. To test the theory, he used six, 12-tree sections that he used sticky bands on, which were made of a substance called tanglefoot and known for its stickiness. He compared this section's results to another six, 12-tree sections that didn't have the sticky bands. Each week. the number of aphids from the west side of all the trees were counted, as well as the number of aphids present below the sticky bands, where Orpet had also placed a layer of double-sided sticky tape. "So, when the aphids come up, some of them get trapped on that tape," he explained on his process, "I can collect the tapes and count the number of aphids in the laboratory." The results showed that blocking the wooly apple aphid movement up had "no effect on aerial population dynamics," he concluded, adding, "there were actually even more aphids in the sticky band tree sections, and this was despite the thousands of aphids that were trapped on the tape." Orpet's conclusion was that resistant root stocks are highly important because they prevent aphid population on the roots, however, eliminating the population at the roots showed no effect on the above ground populations. The aphids can overwinter above ground, he explained, and survive in the summer, returning without any apparent influence from the roots. During Orpet's experiments in 2014 and 2015, he also discovered that in testing with both Gala and Fuji apples, the Fuji apple tended to have more of the

Chemical control options may help with above ground populations, Orpet suggests that "these will do nothing for below-ground populations, for that you need a systemic insecticide," he explained. The important thing about insecticides is that you need to apply it early so that the leaves absorb it, he emphasized. Trying this are resistant to the aphid, method in an outbreak of

wooly apple aphids.



Photos courtesy of Robert Orpet, WSU Entomology

A large wooly apple aphid colony on a fruit tree branch BELOW: Earwig shown nestled in an apple stem split

the aphids however, will not be effective. "The main goal (in chemical control) is to not disrupt natural enemy populations," he stated.

The studies conducted by Orpet in 2014 and 2015 looked at both conventional and organic orchards, and despite the lack of presence of chemical tools in the organic orchards to manage the aphids, they didn't show to be any more of a problem in organic orchards than in conventional orchards. "Perhaps because biological control is very important in attacking these aphids," suggested Orpet. Different things can be attacking the aphids, he said, such as lady bugs, lace wings and beetles, but he wanted to focus on the European earwigs, which are commonly found within apple orchards, as a biocontrol agent. "Studies suggest it's a key predator and also earwigs in general can feed on many other pests," he stated, "so, perhaps they're an underappreciated

beneficial insect." There has been a lot of concerned from growers on the perceived negative effects that earwig populations have on fruit. Orpet, however, voiced that he feels the earwig isn't appreciated enough. This prompted another experiment. One focusing on the earwig as a biocontrol agent on the apple wooly

or absence of earwigs showed any changes in the amount of damages to apples. "I wanted to critically test for both the positive and negative effects, experimentally," he explained. Orpet divided up an orchard into sections, removing earwigs in some sections while adding earwigs to another and leaving the remaining section completely untouched. Discovery of the earwigs is easy to do using rolled pieces of corrugated cardboard, he stated, because

spaces. Once they move into the corrugations, he is then easily able to shake them out and count them. Each section was 30 meters apart, the distance based on studies showing that earwigs don't generally move more than 30 meters within a month's period. "I was successful in having different earwig levels in each section," he explained on his results, "and more earwigs resulted in fewer wooly apple aphids." In the high earwig sections, aphids, and if the presence of the preference for tight with five or more earwigs

per tree, Orpet stated that there was a very low level of aphids, and never more than one colony per tree. In the low earwig situations, the average number of colonies discovered on a tree was six, "some trees would have no colonies while others would have a lot more than six," he stated. Feeling that his experiment successfully showed the effectiveness of earwigs suppressing the wooly apple aphids, he then looked at approximately 12,000 apples from the same sites and categorized them. The inspection of the apples showed that it was just as likely to find good apples in the high earwig populated section as it was in the earwig removal areas. "Side tracks were equally likely, as well as limb rubs and small and large holes," said Orpet, "but I want to discuss stem hole splitting, which is very common especially on Gala apples when they're ripe or over ripe." At times, these splits seem to be expanded or rounded off, and were more likely in the earwig augmentation areas, he explained, but they were still very uncommon with only 17 out of 6,000 apples. "But if you consider those as a type a split and you group those out together," he suggested, "the occurrence of any type of split was equal between both styles." He then suggested that perhaps earwigs are not causing the splits, but rather attacking them where they've already occurred, as they attempt to nestle in the tight space. They're exploiting the damage but not causing or creating, he said, "so, I call that a horticulture issue, not an entomology issue ... I would suggest thinking about including earwigs in your integrated management plans for the wooly apple aphid," he suggested before concluding his presentation, "(but) keep in mind, the earwig only has one generation per year, so if they're eliminated for any reason their population could be really slow to recover."

Contact Robert Orpet with any inquiries by email at robert.orpet@wsu. edu or look for his videos from his experiements on youtube https:// www.youtube.com/ watch?v=sSFakIgkfMI.

WSU Libraries to host national agriculture information conference

SUBMITTED BY WASHINGTON STATE UNIVERSITY

PULLMAN - Washington State University Libraries will host the 16th U.S. Agricultural Information Network Biennial Conference May 13-16 in Pullman — the first time members will convene in Washington state.

"This conference has never been hosted west of Arizona, so it's a big opportunity for WSU to

showcase Washington state agriculture," said WSU agriculture librarian and conference chairwoman Lara Cummings. "Approximately 100 agriculture and science librarians from around the nation will attend."

U.S. Agricultural Information Network provides a forum for information professionals

- Discuss food and
- agricultural issues. • Influence the formation

of a national information and director of WSU's Food policy related to food and agriculture.

 Make recommendations to the National Agricultural Library (NAL) agricultural information matters.

• Promote cooperation and communication among its members and with other organizations and individuals.

Keynote speaker for the conference will be Carolyn Ross, associate professor Science Sensory Laboratory. One of WSU's top food scientists, Ross has studied waste streams in food production and worked to look at the influence of longterm ozone exposure on the nutritional and sensory properties of different crops. She has conducted sensory studies on the biodynamics and organics of fruits and vegetables through her lab.

NAL director Paul Wester also will speak at the

conference. Prior to heading NAL, Wester worked for the National Archives and Records Administration and was the U.S. government's first chief records officer. The NAL is one of four national libraries and houses one of the world's largest collections devoted to agriculture and its related sciences.

For more information about the 2018 conference, http://libguides. libraries.wsu.edu/usain2018.



Carolyn Ross, associate professor and director of WSU's Food Science Sensory Laboratory





Research continues potential controls for Spotted Wing Drosophila

By MIKE MALTAIS, STAFF WRITER

CHELAN - Like the brown marmorated stink bug (BMSB). the Spotted Wing Drosophila (SWD), is an invasive fly species first discovered in Eastern Washington State in 2010.

Molly Darr, an WSU entomologist spoke about SWC control measures at the 2018 Lake Chelan Horticulture Day last January.

"Trapping is essential, so we can determine exactly what is going on in that specific year," said Darr of SWD populations. "We can do O.K. with pesticidal control for now, but we have begun to see some incidence of resistance popping up, so we want to move more toward varied IPM (Integrated Pest Management) strategies."

Darr outlined population variances of SWD numbers from 2015 to 2017, with 2015 reflecting the highest number and traps counts in 2017 significantly lower. The variance was confirmed with help from the Washington State Department of Agriculture packing house inspections.

Darr said the variable in SWD density offers and

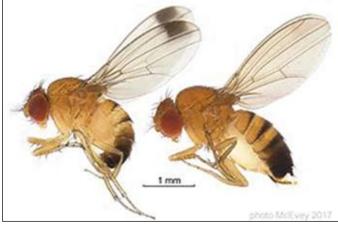


Photo courtesy of en.wikipedia.org

Spotted Wing Drosophila

opportunity to change control strategies.

Darr explained how the attracticide GF-120, which is a combination of attractant and toxicant, did not prove to be a good stand-along treatment for SWD because there was still evidence of damage in the field after its use.

We tried some other attractants," said Darr, "and combined all them with Entrust so we could use that as a control variable and we could see the effects of the attracticide itself. We then compared that result standard with a full year canopy spray

of Entrust."

While GF-120 showed results almost as effective as the full year spray of Entrust "the other attractants we used were not quite as good, so we need to continue with the studies to see if we can get any positive results," Darr said.

Darr said products coming onto the market to treat SWD are being tested for the control efficacy and to expand the choice of effective suppression remedies. Those include Dimlin, Rimon, and Ecotrol and liquid baits like Dros'Attract and Suzukii Trap.

"We may not be able to kill

the female," said Darr, "but if we can prevent her from ovipositing then we've really done the work that we need to do."

Darr reviewed some of the products currently being tested to address ovipositing females. "We need to think about multiple control tactics instead of just a single treatment."

Methyl benzoate, discovered recently by USDA researchers was another deterrent tried. Combined with Ecotrol, methyl benzoate was found to result in significantly lower oviposition.

other species of Drosophila.

said.

Selective lures designed to attract SWD but proved to be very effective in luring all

The average amount of Spotted Wings caught per trap was three," said Darr noting that more than 5,000 other Drosophila were also trapped. "So, you have to go through this pile of flies that are all the same size, shape, color – except for the spots on the wings and it's difficult to sort through the flies in the field when this is what you're looking at." Darr

Darr's associate, Elizabeth Beers, WSU Professor of Entomology, posted research results on such aspects



Photo by Mike Maltais

Molly Darr

of SWD life cycles as lure efficacy, chemical control, and oviposition deterrence. Significant finds following

two years of research reveal:

 Ecotrol and methyl benzoate deterred SWD females from ovipositing in fruit.

- Dimlin and Rimon residues completely shut down fly emergence.
- · Entrust gave high levels of mortality for 21 days.
- Two liquid baits Dros'Attract and Suzukii Trap are more selective for SWD but capture fewer flies.

Training, growth, characteristics of Cosmic Crisp discussed

By Erin Rossell. STAFF WRITER

CHELAN - Concluding the day's presentations on the WA 38 'Cosmic Crisp' was a characteristic and horticultural update on the apple given by Stefano Musacchi with WSU Horticulture.

The Cosmic Crisp tree is a type four tree, like that of the Granny Smith, Musacchi explained. The tree tends to have long branches with blind wood production near the trunk of the tree, and "is a reasonably vigorous variety which can be managed with cropping." During bloom, the tree produces a lot of secondary lateral bloom, which can be up to 40 percent of the total cluster. A lateral blossom, as explained in Musacchi's Characteristics and Horticulture handout, "forms along the developing shoot at the base of the leaf blade." The bloom period for this apple is mid to late season, he explained.

The Cosmic Crisp "is a very exceptional variety," expressed Musacchi, "and it is a very large fruit ... and the color is more of a bi-color variety than it is more of a red variety." The training system the grower chooses to use will affect the amount of light that the apple receives, which in turn will affect the coloring of the fruit, as it requires uniform light exposure to develop a good coloring. "Low light locations in the canopy will produce a poorly colored fruit," he explained, "it is important to match the tree training, pruning and thinning techniques as well as pollinizers to the tree habit."

The Cosmic Crisp will perform well at any elevations in Eastern Washington if the right rootstock is used, and its bloom period and harvest period are suitable for both early and late districts.

Bi-Axis, Spindle European V training types were tested for the Cosmic Crisp. The Bi-Axis system is

based on two axes (leaders), which can result from the heading back of the tree in the field or budding two buds on the nursery rootstock. The trial on the Bi-Axis system occurred after initially heading back the tree to a 1.5-foottrunk high immediately after planting, explained

Musacchi. After the emergence of shoots, the stem was headed back once again, at about one foot, "removing the strong vertical shoot and leaving two shoots in the lower portion of the trunk that generally exhibited a more open crotch angle," he stated, "in both cases the two axes are grown as small, independent spindle trees." Having two axes generally reduces vigor in comparison to a single spindle. The Bi-Axis system tends to have a high early yield and light exposure and doubles the axes/fruiting units without doubling the cost. The Cosmic Crisp performs well in the Bi-Axis system, explained

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Musacchi, and results in a good fruit coloring for the apple. Trunk spacing for the Bi-Axis WA 38 would be 4 X 10 foot to 4 X11-foot spacing.

The Spindle system "is designed to maximize profitability through early yield, improve fruit quality, reduced spraying, pruning and training," Musacchi began.

> The trees are planted "high density on dwarfing rootstock," he explained, but no permanent limbs are inside the canopy, rather renewal cuts are made, removing limbs to large diameter for the canopy. Spindle spacing

> > for the Cosmic

Crisp should be 3×8 foot to $3 \times$ 12 foot. "On a

The Cosmic Crisp

"is a very excep-

tional variety, and

it is a very large

fruit ... and the

color is more of a

bi-color variety

than it is more of a

red variety."

Stefano Musacchi with

WSU Horticulture

of fruit with good color has been harvested. Lastly, the European V system. This system "consists of staggered spindle trees grown at 10 to 15-degree angles," Musacchi explained. In trials, the Cosmic Crisp was planted at 1.5 feet X 10-11 feet. This system, however, was the least favorable for the apple, resulting in shade in the lower areas due to the canopy, and difficulty pruning and cropping inside the 'V'. Because of this, the Bi-Axis or spindle systems are recommended over the European V system.

thin spindle ... 60 to 90 percent

Due to the Cosmic Crisps susceptibility to blind wood,

recommended Musacchi tipping the one-year-old wood branches. Simply "tip the end of the one-year-old wood and come back the following year to tip again leavening two to three buds," he said. Using the bending method, tends to result in blind wood since the WA 38 is a type 4 tree, he explained, adding "this blind wood not only reduces fruiting potential but also exposes the branch to sun and sunburn due to the fruit

orientation." Taking these

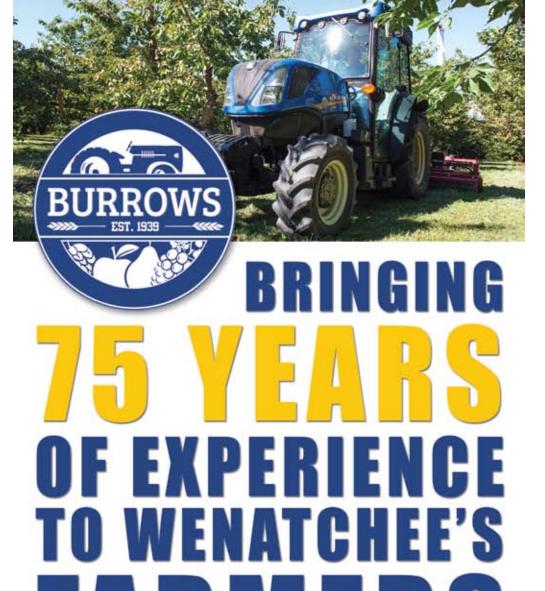
concerns into consideration,

Musacchi expressed that he

does not recommend this training method for Cosmic

The Cosmic Crisp apple boasts exceptional storage capability and retains its crispness and flavor. The apple is described as "red, symmetrical with red-striped blush (55 to 80 percent), attractive with prominent lenticels and a medium to large size," explained Musacchi. Typically, 80 to 90 percent of the fruit fits into four different class sizes due to it's narrow size profile and is not sensitive to bruising.

Typical storage time to maintain freshness is six or more months in refrigerated air storage, however, in a controlled atmosphere can keep its appearance and taste up to 12 months, without any of the storage disorders found in other apples such as water core, internal browning, sensitivity to carbon dioxide or low oxygen, superficial scald, chilling injury or shrivel. The occurrence of stem bowl splits is low (below five percent), but "can rise drastically if harvested too late," he expressed.





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The BMSB is coming

Stink bug study sheds light on movements, numbers and controls

By MIKE MALTAIS, STAFF WRITER

CHELAN - It turns out that a stink bug is an interesting creature to more than just another stink bug.

Take stink bugs in orchards, for instance. When it comes to their attraction and populations in fruit trees, stink bugs get attention from Adrian Marshall, an Entomology Ph.D. student at the Tree Fruit Research and Extension Center at Washington State University.

Marshall devised some ingenious experiments to help determine how, when, and in what numbers stink bugs invade orchards. In one case, he constructed barriers six feet wide and nine feet high with sticky traps every foot and one on the ground.

The idea was to catch the stink bugs as they were flying in to determine how high they travel. The results were interesting. Almost no stink bugs were trapped at ground level. The majority were caught between two and eight feet off the ground.

That tells us that we don't need a barrier that sticks all the way into the ground," said Marshall. "You can pretty much start at a foot high though



we don't know the maximum height yet so we're going to test that in future years."

He also added a flap to the barrier wall and discovered that stinks bugs crawling up the wall will not progress past that flap.

Marshall found that stink bug numbers fluctuate at different times of the season, some helpful information for orchardists trying to determine when to apply control measures.

"Even in early June we have a huge spike in stink bugs that seem to be moving into the orchard," said Marshall. "Then another one around mid-July and another one around August and another one around September."

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meantime, his initial studies have produced some helpful insights on the bugs' behavior: Stink bugs move into orchards as early as June, so growers are advised to begin control measures earlier rather than later, but only when adult bugs are present.

The folds or flaps added to in the large barriers trapped stink bugs from climbing over the barrier and into the orchard. Future tests might show that the fold feature might actually stop the bugs from moving in.

Stink bugs also migrate out

of orchards several times a

year, "so a single timed spray

won't be effective against

Several other configurations

of barriers and complete

enclosures were used to not

only measure the effective of

artificial barriers but also see

what effect they had on the

Marshall will conduct future

tests to refine and reveal more

details about effective measure

against stink bugs. In the

natural predation cycle.

them," Marshall said.

Stink bugs have a number of natural predators including the lacewings, tachinid fly, praying mantis, and assassin bug, among others that attack the pest in the egg, nymph and adult stages.

Marshall had some practical spraying advice for orchardists trying to control stink bugs. He recommended that spraying be delayed until actual adult stink bugs are found. The infestations change from year to year depending on the amount of heat, said Marshall. To find adults he suggested orchardists inspect nearby vegetation such as mullein,



Photos courtesy of Adrian Marshall

Full enclosure barriers like this one helped Marshall study the stink bug controls both inside and outside the barrier. LEFT: A stink bug clings to a barrier wall.

elderberry bush or other plants that have fruiting bodies and stink bugs will be found.

"Wait until they are adults," said Marshall, "If you're finding nymphs out there, they are not causing damage in your orchard."

Marshall also reminded growers that if there are no apples on the tree yet there is no need to spray because the stink bug only attacks the

Marshall also addressed a new larger invasive threat, the brown marmorated stink bug (BMSB), that was first found in Washington in 2012 in the Vancouver area. Since that time the pest has spread along the major highways and Columbia River. The five counties with BMSB include Clark, Yakima, Walla Walla, King and S. Chelan around Wenatchee and Leavenworth.

The BMSB is fast-moving and can fly 70 miles a day. It produces two generations a year rather than one that is typical of our native varieties.

"It affects a ton of source crops," said Marshall. "It can be found in more than a hundred different source plants, so it eats everything we eat."

Fruit crops at greatest risk include apples, pears, grapes and peaches/nectarines. At



Photo by Mike Maltais

Adrian Marshall is a Ph.D. student of Entomology at the WSU Tree Fruit Research and Extension Center.

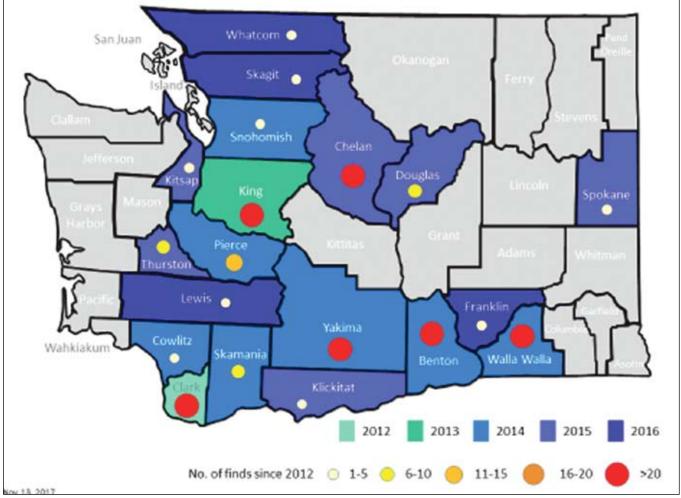
moderate risk are apricots, cherries and blueberries. Fruit varieties that are late blooming and remain on the tree longer are particularly vulnerable.

Marshall and his crew continue to work on control options for the BMSB. ranging from mechanical measures to biological

Marshall said while the BMSB has not yet appeared in Chelan, he asked growers to be vigilant for the presence of the invader and report any

Late blooming and on the tree longer meaning it's the only remaining food source later in the season.





The Brown Marmorated stink bug (BMSB) have been found in at least five counties in Washington State (red dots).

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Proper spray application is a technique perfected by practice

By Mike Maltais, Staff writer

CHELAN – One statement by Gwen Hoheisel, WSU Regional Extension Specialist, sums up her dedication to an aspect of orchard horticulture: "I am extremely passionate about sprayers," Hoheisel said and describes her job as "I evaluate, I educate, and I recreate."

Hoheisel said her goal at the 72nd Lake Chelan Horticulture Day presentations was to show orchardists "how to match the air to the canopy and how to assess and control your air and to inspire you while there is still snow on the ground to think about this.".

Hoheisel's rationale to get growers to give spray operations some early attention was logical.

"Come March, you're running," said Hoheisel, "and really none of you grow trees because you like sprayers."

Hoheisel used slides taken from a sprayer research project done on an Omak orchard to demonstrate the way spray applications change according to the demands of different types and sizes of fruit and the trees on which they grow. She also shared some survey results from other growers and what parts of the spray process they wanted to improve.

Hoheisel stressed that despite their wide variety, there is no perfect machine; all can be operated perfectly or poorly and much of the difference has to do with a properly maintained machine. What makes a sprayer effective is the degree of upkeep on the machine and attention to details like tractor speed, air control and direction and outside wind speed.

Sprayer pressure gauges, hoses and filters need to be inspected and replaced regularly. Tire pressures need



Photo courtesy of Gwen Hoheisel, WSU Extension Wind forms a boundary layer, like these leaves around a parked pickup, that can help growers understand how the same principle works when applying pesticide to fruit.



Gwen Hoheisel

to be checked to ensure that rate application controllers tied to correct tire pressure are working in synch.

Water pH should be tested and spray chemicals correctly mixed and properly loaded.

Hoheisel stressed optimizing air control to increase the amount of pesticide that hits the intended target and to reduce drift.

"Air flow controls where you place the drops," said Hoheisel. "too much and you blow through and miss the target."

In addition to the dollar cost of wasted pesticide, missing the target results in more culls and increased resistance to pest control. Hoheisel showed some research lab video clips to demonstrate how air responds to target size. She also explained how a boundary

layer that forms around an object is affected by the size of the fruit.

Hoheisel also discussed techniques to monitor air flow, direction and volume in an orchard setting. One technique utilizes ribbons tied to the fan guard to measure the force and speed of air flow. Ribbons blowing straight out can be in indication of too much force while ribbons not moving can indicate too little or no air flow.

Donuts and shrouds attached to the fan guard can help reduce and direct air to the desired target Gearing up the tractor while throttling down can also reduce the fan speed to prevent over-flowing the target.

In summary Hoheisel said that there are easy and inexpensive ways to monitor and control air flow. One of those is to keep the equipment properly maintained so that all the components necessary to effective pesticide application are working as they should.

Tractor speed and air flow volume needs to be adjusted during the season to account for aerodynamics of boundary layers and canopy barriers.

"Air controls where we put – or don't put – the droplets," Hoheisel said.

Breaking down fiber: Nutritionists gives insight into the nation's understanding of fiber

SUBMITTED BY PEAR BUREAU NORTHWEST

OREGON PORTLAND, Fiber is considered an under-consumed nutrient and nutrient of public health concern according to the current Dietary Guidelines for Americans. While the nation's need for increased fiber intake is well established, education is needed in order for people to better understand fiber and fiber needs. For an inside look into how registered dietitian nutritionists and the patients, clients and communities they counsel view fiber, Pear Bureau Northwest surveyed over one thousand dietitians from across the nation to tap into a cross-section of their experiences2.

In sharing their experiences as they relate to fiber, dietitians revealed the following takeaways:

Education is needed on fiber

Most dietitians have a similar experience when it comes to talking about fiber with their patients. 50% or less of the individuals/communities they counsel seem to understand the benefits of fiber. Moreover, dietitians shared that 50% or less of the people they counsel understand how to include fiber in their daily diets, and the same amount, 50% or less, take action to include fiber into their daily diets.

Fruit takes the lead

In practice, dietitians recommend fruit more often than any other high-fiber food. When recommending ways to increase fiber, dietitians stick with whole foods, while fiber-enriched foods and fiber supplements are recommended least often.

When it Comes to Fiber, Pears Rank Higher

With 6g of fiber in one medium pear providing 24 percent of daily fiber needs,



With 6g of fiber in one medium pear providing 24 percent of daily fiber needs, pears are a top choice among dietitian recommendations to increase fiber intake.

pears are a top choice among dietitian recommendations to increase fiber intake, and it's no surprise why. Pears are an excellent source of fiber and have vitamin C with only 100 calories per serving. Plus, pears are sodium free, fatfree and cholesterol free.

Preparation is Key

The most common roadblock dietitians have found to prevent people from getting enough fiber is a lack of knowledge among those they counsel about how to prepare highfiber foods. Additionally, more than half of dietitians have encountered a dislike of high-fiber foods as a major barrier to proper fiber consumption among individuals/communities they counsel.

Pears are in season now and plentiful at grocers nationwide, making this the perfect time to enjoy the many varieties of pears. To help overcome the preparation barrier commonly encountered with high-fiber foods, try the following tips to enjoy pears and their nutrition benefits:

The best way to judge the ripeness of a pear is to Check the Neck™: Apply gentle pressure to the neck of the pear with your thumb. If it yields to pressure, it's ripe.

ripe.

Leave firm, unripe pears at room temperature so that they can ripen. Once a pear is ripe, it can be refrigerated to slow the ripening process and saved for use up to five

If you find yourself with a few too many overripe pears, blend them into smoothies, soups, sauces and purees.

Pear Bureau Northwest continues to pursue opportunities to better understand the health benefits of pears and their ability to contribute to a healthy diet. Visit www. usapears.org for additional pear research, nutrition resources and recipes.

About Pear Bureau

Northwest Pear Bureau Northwest was established in 1931 as a nonprofit marketing organization to promote the fresh pears grown in Washington and Oregon. As the nation's largest peargrowing region, 900 grower families produce 88% of all fresh pears commercially grown in the United States. Pears grown in these two Pacific Northwest states are distributed under the "USA Pears" brand. Pears are an excellent source of fiber (24% DV) and a good source of vitamin C (10% DV) for only 100 calories per medium-sized pear. Sweet and juicy with no fat, no sodium and no cholesterol, pears are a perfect choice for snacking and make a great addition to any meal. For more information, visit www.usapears.org, www. facebook.com/USApears, and follow @USApears on



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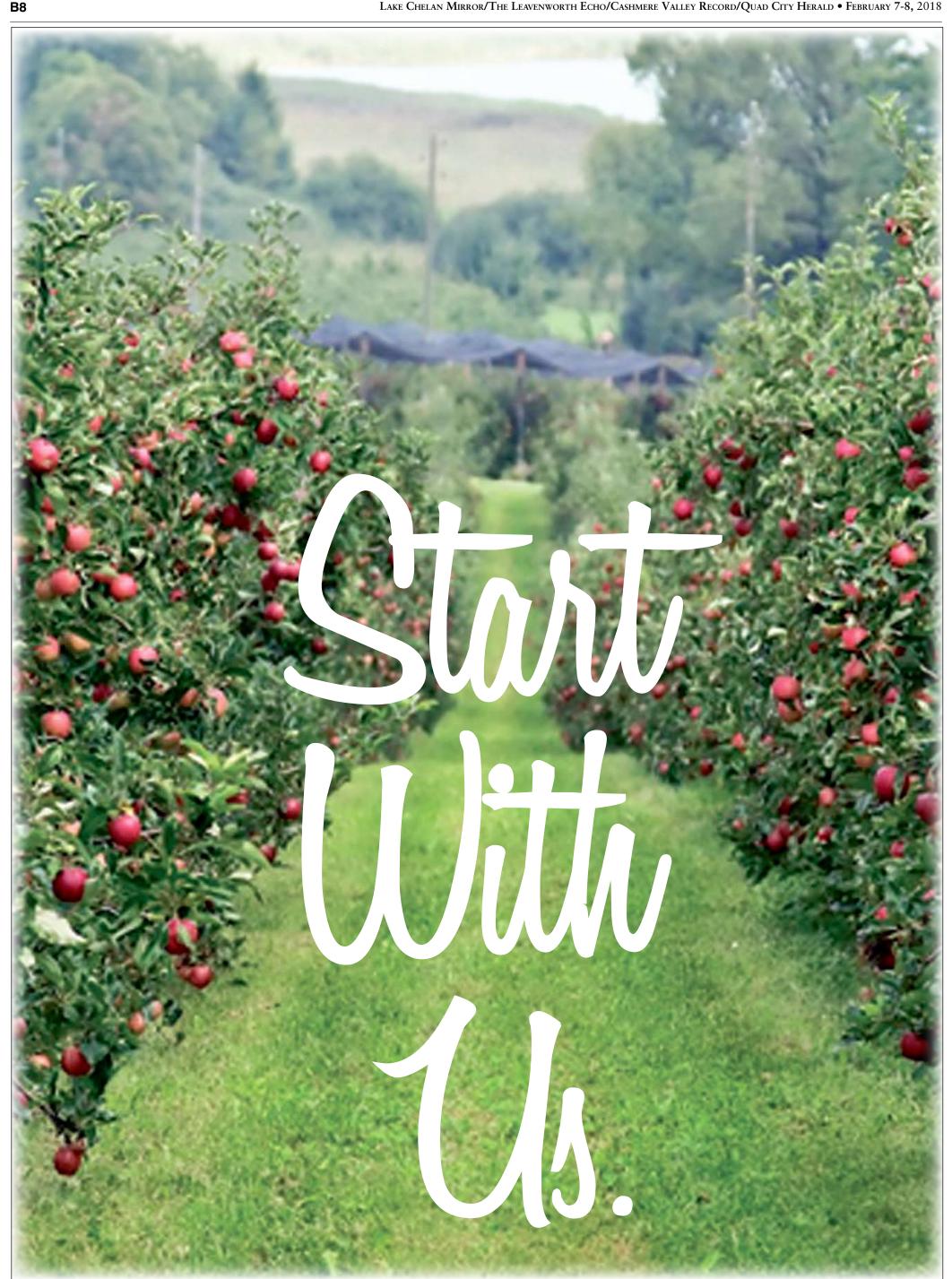


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