Tuesday News – June 13, 2023

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The 61st Washington State Junior 4-H Horse Show Is June 23-25!
Pre-Entry Required: Due June 17th!

The 61st Washington State Junior 4-H Horse Show is June 23-25, at the Grant County Fairgrounds in Moses Lake, WA.

Plan on entering the WSJHS 4-H Horse Division.

The Schedule of Events:

Thursday, June 22: WSJHS Clinics (See information below)
Friday, June 23: 4-H Gaming, Trail, Public Presentations, Dressage and a Judging Tour (Gaming Events are Pole Bending, Idaho Figure Eight, Two Barrel Flags, Pole Key, Texas Barrel Racing, International Flags).

Saturday, June 24: 4-H Performance, English, Driving, Costume Class

Saturday, June 24: 7:00 pm – Potluck

Sunday, June 25: 4-H Performance, Western, Driving Ranch Horse, Reining “Horseless Horse” and Cloverbud Exhibitors: 4-H members without horses may participate in the Judging Tour, Record Book and Public Presentations classes. No Entry fee,

Record books are encouraged.

Herdsmanship: Stall Decorations and Educational Displays are required. Awards Large group $100, Medium group $60, Individual $10.

More Information contact Gloria Marley gjmarley@msn.com, 509-961-9417,

Download Washington State Junior Horse Show Information and Entry Form.

Washington State Junior Horse Show Clinics, Thursday, June 22, Grant County Fairgrounds, Moses Lake

8 am – 12 pm: Barrel Racing Horsemanship with Liz Martinez, pre-entry required due June 17. Download Barrel Racing Horsemanship Entry Form

1 pm – 5 pm: Showmanship Clinic with Diane Pixlee, pre-entry required due June 17. Download Showmanship Clinic Entry Form

8 am – 5 pm: Ranch Horse Clinic with Sue Sultze, pre-entry required due June 17. Download Ranch Horse Clinic Entry Form

For more information visit our website: https://extension.wsu.edu/yakima/4-h/4-h-events/4-h-horse-events/
WSU 4-H Scholarships Showcase the Reward of Life-Long Skills
Denise Echelbarger, WSU Extension 4-H Youth Development Program
June 12, 2023

Pictured: (left to right) Catherine Hartrim-Lowe, Clair See, Tatum Goode, Nicole Poussier, Tryana Thompson, Laura Harris, (second row) Aleah Watterson, Jenna Cox, Taylor Alonzo, Amy Kovich, Jared Sheehan, and Emma Spalding.

Washington State University (WSU) Extension 4-H Youth Development Program and the WSU College of Agricultural, Human, and Natural Resource Sciences (CAHNRS) are pleased to announce the 2023 4-H scholarship winners. We are proud to offer scholarship assistance to support Washington high school students currently enrolled as 4-H members.

Catherine Hartrim-Lowe (Clark County) and Clair See (Skagit County) each received the J. Orville and Helen Young/4-H Fund Scholarship. Hartrim-Lowe will be attending Wheaton College in the fall of 2023. 4-H has been a part of her life since 2015, and she is a proud member of two Clark County clubs: Alpaca 101 and Sow, Bud, and Blossom. Over the years, 4-H has taught her incredible skills in self-discipline, communication, and inclusion. Claire See will be attending WSU this fall to complete a degree in biology with the goal of studying equine at WSU’s College of Veterinary Medicine. This past spring See participated in the Washington State Horse Bowl Contest for the first time, and learned more than she could have imagined.

Tatum Goode (Clark County), Nicole Poussier (Pierce County), and Tryana Thompson (Clark County) were awarded the Lewis County Leaders 4-H Council Scholarship. Goode plans to attend University of Oregon in the fall to major in
business with a certificate in global business. As a participant in the Royal Riders 4-H club, she showed horses, volunteered, and grew her leadership skills. Poussier has been a member of 4-H for fourteen years and will be attending the University of Washington to study biology and chemistry. Public speaking is a life skill that 4-H has provided for Poussier, which has given her the ability to overcome shyness and create a perfect presentation with reliable sources. Thompson has been a 4-H member since 2016 and seeks a higher educational goal of large animal veterinary medicine specializing in animal reproduction. When she thinks about the heart in the 4-H pledge she feels the heart is where the passion is. This passion drives 4-H members to accomplish goals, and to better understand how our actions affect others.

Laura Harris (Whitman County) was the recipient of the Thomas R. Quann 4-H Scholarship and will be attending the University of Idaho this fall to study computer engineering. Implementing coded design plans has been a passion of Harris’, but it wasn’t until she joined a 4-H robotics team that she realized it is what she wanted to do for her career.

Aleah Watterson (King County) received the O.M. Plummer Scholarship of the Oregon Community Foundation and will be attending Montana State University to pursue a degree in rangeland management and wildlife ecology. Watterson has been a 4-H member for ten years and because of joining 4-H, every aspect of her life has been affected positively. She learned what it means to be a good teammate and leader, and how to give back to her community.

Jenna Cox (Walla Walla County) was awarded the Woody and Joan Bernard 4-H Higher Education Scholarship and is enrolled in the Honors College at Montana State University. She plans to major in either ranching systems or embryology. Cox says 4-H has greatly influenced her decision on where she will be attending college and her life-long plans. She wants to stay involved with agriculture, and to strive for future generations to continue to participate as well.

Taylor Alonzo (Pierce County), Amy Kovitch (Snohomish County), Jared Sheehan (Yakima County), and Emma Spalding (Grays Harbor County) have all been 4-H members for over ten years and are the recipients of the WSU 4-H CAHNRS Dettman Scholarship. Alonzo participated in the 4-H dog project and has had many wins and losses that have helped shape her into who she is today. On her initial state fair qualification, she was disqualified and was devastated, however it allowed her to grow from a setback and she has participated in every state fair since. Being in 4-H has taught Alonzo how to be a leader and, most importantly, how to persevere. She will be attending WSU to major in animal science through CAHNRS pre-veterinary medicine track. Kovitch’s 4-H career began with small animals and grew to include public speaking, veterinary science, gardening, foods, leadership, and large animals. The culmination of the lessons she learned in 4-H sparked her interest in wildlife ecology and conservation which is the degree she will be pursuing within WSU CAHNRS. Sheehan’s 4-H dairy and
swine projects, community service, public speaking, and dairy judging competitions taught him the qualities of hard work, problem solving, patience, leadership, and to take advantage of opportunities to achieve higher goals. Sheehan will be attending WSU for a double major in mechanical engineering and agricultural technology/production management, pursuing a goal of working in the agricultural industry using heavy machinery and precision agriculture technology. Spalding’s love of animals began with her involvement in showing dairy and swine in 4-H. She appreciated how connected the 4-H members were in the show barns, and how willing everyone was to help each other. Spalding enjoyed teaching younger 4-H members and the public about her various animal projects. At the age of thirteen she started volunteering at a local veterinary clinic, and has decided to major in animal sciences at WSU CAHNRS because of her passion for animals.

Congratulations to all the 2023 award recipients that dedicated their 4-H experience to learning life-longs skills, being role models, and continuing to work towards accomplishing their next steps in higher education. For more information on the Washington State 4-H scholarship opportunities or to support 4-H visit extension.wsu.edu/4h.

State 4-H Fair Board Seeks Qualified Candidates For State 4-H Fair Manager Position Opening

The State 4-H Fair Manager Position Is Now Open!

The job description for the State 4-H Fair Manager position is available for download by clicking HERE.

The State 4-H Fair Manager is not a WSU position, but reports directly to the State 4-H Fair Board. The salary is $32,500, paid in twelve monthly installments. There are no benefits associated with this position.

This is a part time position of about 1,000 hours annually, with extended hours during August and September, during the fair cycle in Puyallup, Washington.

The position will remain open until filled.

Please forward your cover letter and resume to:

Washington State 4-H Fair Board
PO Box 1225
Puyallup, Washington, 98371-0233

or by email to the Fair Board at st4hfair@gmail.com.
Recording – Prepare For Fair! Is Now Available!

In this Zoom, we discussed and shared general 4-H fair information for volunteers (club and new superintendents) – how to get your club/project areas ready, entry times (computer/paper) and tags, using your premium/handbook, the fair and essential elements, 4-H Fairs and Competition, youth and preparing them to sell market animals, and covered many contests and activities. We tried to keep the discussion as general as possible and not give specifics for any particular fair (but used examples). There were many resources shared during this virtual presentation.

You can find the recording for this zoom at [https://bit.ly/3OVkObZ](https://bit.ly/3OVkObZ)

Pam Watson, M.Ed.
WSU Lewis County Extension 4-H and Poultry
pwatson@wsu.edu
State Dog Committee Optional Assessment for 2022-23 Program Year

The state 4-H Dog leaders committee has implemented a sustainable way of funding the needs of the State Dog Project in regard to awards, equipment and other requirements in order to provide an outstanding experience for each of our 4-H members who attend state-level events.

The State 4-H Dog leaders committee asks each county dog program to contribute an assessment, a $3.00 fee for the exhibitor allotment for your county dog show days at State Fair from the previous year. This is a suggested donation amount and since this allotment is based on the county entries at State Fair from the previous year, it provides a sustainable and equitable way for each county to support the State Dog Project.

For example, if your county had a State Fair allotment of ten; your county suggested contribution would be $30.00 for the current year. You may find out your allotment for the current year from your county Extension office 4-H staff or you may send an email to the contacts listed below. Please note that this assessment is not mandatory and does not in any way affect your county dog program’s participation in 4-H state events – but provides an opportunity to support the State 4-H Dog Project.

We would like to receive your donation by August 1st. Please make your checks payable to the WA ST 4-H Dog Project and mail to:

Sarah Gunderson  
P.O. Box 850  
Carnation, WA  98014-0850

If you have questions regarding specifics details on how the funds are used or allocated, please contact the individuals listed below.

Sarah Gunderson, State Dog committee treasurer  
sarahgcpa@gmail.com

Barb Taylor, State Dog Committee member  
barb@nventure.com

Kari Smith-Schlecht, State Dog Committee member  
jeskarsk9@aol.com

On behalf of the State 4-H Dog committee, thank you for your support.

Submitted by Jennifer Leach, 4-H faculty liaison to the State Dog Committee and assessment request approved by Mark Heitstuman, Interim State Program Director
Hello 4-H Volunteers!

Is going to summer camp a memory you cherish? Would you like to help teens create summer camp memories? Your help is needed to facilitate an awesome camp experience for teens of military families this July in beautiful Darrington, Washington.

Hosting teens free of charge and providing an excellent camp experience is a tangible way we can say Thank You to our military families all across the country. To date, we have hosted teens from almost all of our fifty states. To meet appropriate camper/counselor ratios with our current camper demand, we are in need of more overnight counselors, mentors, and activity leaders and co-leaders. No military affiliation is necessary. Training is provided. Come share your passion and enthusiasm with teens for one or both sessions of camp:

**Session One: July 12-16, 2023 | Session Two: July 17-21, 2023**

To learn more about the camp or to apply to volunteer, visit: [https://extension.wsu.edu/4h/youth/camps/military-teen-adventure-camps/](https://extension.wsu.edu/4h/youth/camps/military-teen-adventure-camps/)

You may also contact our Camp Coordinator at [4h.militarycamps@wsu.edu](mailto:4h.militarycamps@wsu.edu)

Ashley Hall, Ph.D.
she/her/hers  ([curious why is this here?](#))
4-H Assistant Professor
Washington State University
Snohomish County Extension
C: 425-521-0357 (voice and text)
[4h.militarycamps@wsu.edu](mailto:4h.militarycamps@wsu.edu)
Spend your summer making a difference!

VOLUNTEER WITH US!

JULY 12-21 2023

ADVENTURE CAMP
for TEENS of Military Families
Cascade Mountains, Darrington, WA

Seeking passionate, enthusiastic volunteers to support teens while participating in an adventure-filled camp experience!
Overnight counselors, mentors, and activity leaders or co-leaders needed!
Travel assistance, stipends, accommodations and all meals are available.

FOR MORE INFORMATION & TO APPLY, VISIT:

https://extension.wsu.edu/4h/youth/camps/military-teen-adventure-camps/

Camp is hosted by Washington State University in partnership with Glacier Peak Institute (GPI) and 4-H.
Dear Marshall,

Sometimes I get x-rays at the veterinarian. They work by sending a small amount of powerful energy—called radiation—through my body. X-rays only contain a small amount of radiation. Too much radiation would harm my cells.

The organisms most likely to survive extreme radiation might be microbes. These creatures are so tiny you need a microscope to see them.

To learn more, I talked with my friend Cynthia Haseltine. She’s a microbiologist at Washington State University. She studies extremophiles. These microbes love intense environments. Boiling heat? Freezing cold? Blistering acid? Yes, please.

Haseltine told me the amount of radiation an organism can survive is measured in grays. Just 5 grays of radiation will kill a human. Here are five organisms that can survive way more than that.

The first creature is one of your closest neighbors. It’s a type of bacteria that’s inside your body. Some kinds of E. coli make people sick. That’s why we wash our hands and make food carefully. But E. coli also lives in your intestines and helps
you break down food. It can survive 10 times the radiation a human can. Plus, it adapts quickly. If blasted with radiation, it would probably become resistant—or able to withstand even more radiation.

Photo Credit

Sulfolobus microbes: 500 grays

These microbes live in boiling-hot mud pots—like those found in Yellowstone National Park. They thrive in the hot, stinky-sulfur mud. Just like E. coli, they would probably become more resistant when exposed to radiation.

Photo Credit

Tardigrades: 4,000 grays

Tardigrades are the only animals tough enough to make the list. But these animals are tiny. You need a microscope to see them. They’re sometimes called water bears because they look like gummy bears with eight stubby legs. Tardigrades can survive extreme cold, heat and pressure. They can even survive in outer space. They can withstand 800 times more radiation than a human can.

Photo Credit

Deinococcus radiodurans: 5,000 grays

Scientists discovered this microbe when they were testing new ways to preserve food. They beamed radiation at a can of meat, but it went bad anyway. They found D. radiodurans inside the can. This creature can handle freezing-cold and acid. It can live in a vacuum. That’s space with nothing in it—not even air. It even survived three years in outer space.
Thermococcus gammatolerans: 30,000 grays

My jaw dropped when I heard how much radiation this microbe could handle. That’s 6,000 times the radiation a human can survive. This microbe lives deep in the ocean near underwater volcanoes. It loves heat and pressure.

Thinking about the incredible life on Earth makes me wonder about other mysteries in the universe.

“These are the organisms that are probably out there in our local solar system if we’re looking at life off Earth—because everything’s extreme out there,” Haseltine said. “So, they may be out there surviving apocalyptic conditions right now.”

Now that’s radiant.

Sincerely,
Dr. Universe

Why do crickets make sound? – Carola, 7, Virginia

Dear Carola,

Have you ever read the book “The Very Quiet Cricket?” It’s about a young cricket who can’t chirp until he grows up.

My friend Rich Zack reminded me of that book when we talked about your question. He’s an insect scientist at Washington State University.

He told me only adult male crickets make sound. Sometimes they chirp to defend their territories. It’s how they tell other male crickets to stay away.

But the main reason they chirp is to find a mate. Cricket chirps are mating songs. That song will be different for different kinds of crickets—and the song changes when the female cricket shows up.

“The male sings a very specific song for that species of cricket,” Zack said. “That attracts a female of that species to him. As she gets closer, and they start to recognize each other, he will vary that song a little bit. It’s a way to give the female assurance that he is the right species.”

So, why don’t female crickets chirp?
The way crickets make sound is called stridulation.

“All stridulation means is the insect is rubbing two things together,” Zack explained. “Crickets have what we call a file and scraper system.”

The file is a line of bumps on one of their wings. They look like pegs or the teeth of a comb. The scraper is the hardened edge of the other wing. The cricket rubs the file and scraper together to chirp. You could rub the teeth of a comb along a table edge to make a similar sound.

Female crickets don’t have a file or scraper on their wings. So, they can’t chirp. They can hear the male cricket’s song, though. Crickets have hearing organs on their front legs. This organ is called a tympanum. It’s a stretchy membrane like your ear drum. Just like your ear drum, it vibrates when sounds hit it. Eventually those vibrations change into a signal that shoots up to your brain. That’s how you—and crickets—hear.

Crickets belong to the same insect group as grasshoppers and katydids. Those insects use stridulation, too. Katydids rub their wings together just like crickets. But grasshoppers have the file on their leg. So, they rub their leg against the scraper on their wing.

Remember how different kinds of crickets sing different songs? Zack told me you can tell different kinds of crickets just by listening to them.

“There are some rare crickets in Washington,” he said. “We would go out and try to find them. The way you do that is to listen for the songs. We could differentiate the songs, and then we would go search for that type of cricket. You can sit outside at night and differentiate cricket songs, too.”

When you listen to those crickets singing to each other in the dark, you can imagine all the young crickets listening to the songs and waiting for their turns to chirp.
Get more questions and answers here!

Know a kid with a science question?
Help them submit it for a chance to be featured in a future Q&A.

Submit a question!

Washington State 4-H Teens Awarded National 4-H ‘Lead to Change’ Mini-Grant!
Somer Meade

Following a trip to Washington DC for the 4-H Teen Ignite Conference, six Youth Advocates for Health (YA4-H!) Teen Teachers are helping organize a state-wide service project called Kind Care Kits. These kits will include social-emotional activities for siblings who have a brother or sister who is sick and spending time at Ronald McDonald House (RMHC) and Children’s Hospital locations across our state.

In March, these dedicated 4-H teens helped develop the project and submit a grant proposal to National 4-H Council to help fund the project. In early April, they found out their project was selected to advance to the next stage, and in late April, they gave a presentation over zoom on the merits of their project. Last week, they got the great news that their 4-H ‘Lead to Change’ proposal was accepted, and they will receive $2,000 to put towards supplies for the Kind Care Kits. WSU 4-H is also matching the $2,000, so they will be able to make a total of 400 kits to disperse to three RMHC sites. To help fill any gaps, they are also working with the libraries in their communities to seek donations of art supplies.

Help us congratulate these six teens on their success, as we look forward to taking the project state wide, where teens attending the state conference in June will have the opportunity to help with kit assembly.
Updated PNW Horse Judges List Is Now Available!
Jennifer Leach

An updated PNW Horse Judges List is now available. It can be found at https://s3.wp.wsu.edu/uploads/sites/2050/2023/05/PNW-Horse-Judges-3.14.23..pdf

Counties are encouraged to select 4-H Horse judges off the PNW 4-H horse judges list. However, in Washington our policy is not to mandate that judges come from this list. However, if a county choose to hire a judge that is not on the PNW 4-H horse judge’s list—we encourage the counties to select a judge that understands
4-H youth development, has access to the PNW 4-H Horse contest guide, understands and judges according to the Danish system of judging and understands the value of providing positive comments in judging. The philosophy in the Washington 4-H program in horses—is that the “judge is an educator.”

In regard to the PNW 4-H Horse Contest Guide—Washington is still waiting for the final version from our PNW partner, Oregon. In the meantime, we are working on an “addendum” to specifically outline the very minimal changes to the PNW 4-H Horse Contest Guide.

Questions? Please reach out to Jennifer Leach, State Contact for 4-H horses at jleach@wsu.edu

Practice Horse Judging Contests Available Online!

See below about two on-line Practice Horse Judging contests that would be great for your 4-H or FFA Horse Judging teams. Each course is only $20 with unlimited access for 90 days (from your date of enrollment). Each contest has 6 classes with 2 halter and 4 performance.

There are questions, officials, and critiques at the end of each class. Follow the links below or QR code to enroll.
Practice Judging 1 Live Link:
https://catalog.extension.org/product?catalog=HorseJudgingContest

Practice Judging 2 Live Link:
https://catalog.extension.org/product?catalog=1676909671DNE4F
Q and A Sessions for the Washington 4-H Horse Program
Continue – Now On First Wednesdays!

Have questions about the Washington 4-H horse program? Our monthly Q and A
for leaders, parents, members, and staff will now be meeting on the first
Wednesday of each month via Zoom from 6:30 to 7:30 pm. beginning June
7th.

Zooms are structured around the theme/parameters of horses and youth
development. They are more than “what are the rules.” There is also time set
aside for input on future topics for subsequent Zooms. The Zoom meeting ID is
452-082-9765 with no passcode. You must have a zoom account to participate.

The meeting will be facilitated by Jennifer Leach, WSU Extension 4-H State Fair
Board Staff Liaison.

Feel free to contact Jennifer with any questions at LeachJ@co.cowlitz.wa.us.

Save the Date: 2023 Washington State 4-H Meat Judging Contest
Paul Kuber
The inaugural Washington State 4-H Meats Judging Contest will be held Saturday August 12th, at the Meats Laboratory in Pullman, hosted by Dr Foraker and the Department of Animal Science. The date was chosen as an opportunity to qualify teams early for the 2023 National 4-H Meats Judging Contest held during the
American Royal in a Kansas City in October. Please share with those interested. Information for registration and contest format will follow.

In 2024, the contest will be held earlier in the year, in late May or early June.

Dressage Clinic Coming to Franklin County in June!

Please mark your calendars for a dressage clinic with Abby Welch on June 18th in Franklin County.

The clinic is open to 4-H horse members and is a great way to receive practice and guidance in preparation for the Washington State Junior Horse show.

For more information, contact Sue Duffy, 4-H Horse Superintendent for Benton/Franklin County. Sue’s email address is smarieduffy@gmail.com.

Read Abby Welch’s Bio HERE

2023 Dressage Show Entry Form is HERE

Entry Form for Dressage Clinic with Abby is HERE

Submitted by Jennifer Leach, State 4-H horse contact.

Announcement of Dressage Tests for the 2023 4-H State Fair

The dressage tests for English dressage at the 2023 4-H State Fair will be Test 3 for both Training Level 1 and First Level.

Western Dressage has come back for the 2023 4-H State Fair and Test 3 for both Basic Level and Level 1.

4-H horse members will only be able to ride either English Dressage or Western Dressage, but not both, due to time constraints related to arena time.
These tests are available on the respective governing organizations—United States Dressage Federation (USDF) for English (https://www.usdf.org/) and the Western Dressage Association of America for Western dressage (https://www.westerndressageassociation.org).

The Western Dressage Association of America is the governing body for the Washington State 4-H Horse program. The information in the 2015 PNW 4-H Horse Contest guide on page 20 is outdated. In Washington, we do not use the North American Western (NAW) dressage tests.

Submitted by Jennifer Leach, WSU Extension 4-H State Fair Board Staff Liaison. E-mail Jennifer at LeachJ@co.cowlitz.wa.us.

Reining Pattern for 2023 4-H State Fair Now Available

The 4-H State Fair reining pattern is now posted on the horse page on the WSU 4-H webpage located at https://extension.wsu.edu/4h/projects/animal-science/companion-performance/horse/

Reining will once again be offered at State Fair for Seniors only. The reining pattern is the same as last year to encourage participation since this is only the second year of 4-H reining. And also includes the scoresheet as an educational and judging tool.

There will be additional reining patterns for county level use that are reflective of basic reining and/or introductory reining. More to come next week. For those who do reining—it is a series of circles, stop, back, figure 8, flying changes, roll backs, and/or spins. And based on skill level and/or complexity of the series of movements.

Submitted by Jennifer Leach, Chair of the “Ad Hoc Reining Committee” and 4-H State Fair board 4-H Staff Liaison. E-mail Jennifer at LeachJ@co.cowlitz.wa.us.