

Tuesday News



**Thank You
4-H Volunteers for
Your Continued
Support**



4-H 

WASHINGTON STATE UNIVERSITY
EXTENSION

Tuesday News – May 30, 2023

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Features

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.

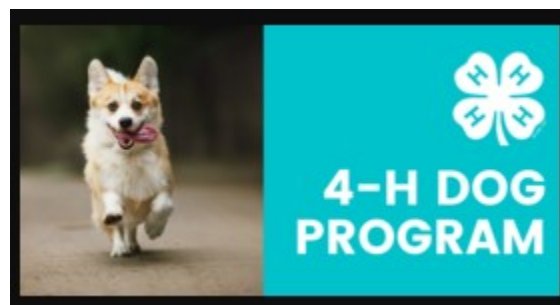
Sarah Gunderson, State Dog committee treasurer
sarahgcpa@gmail.com

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



Thurston County 4-H Pack Goat Challenge Set For June 3rd – Register By June 1st!

Emily Killeen

A person wearing a blue cap and an orange backpack is walking a goat on a wooden boardwalk. The goat is wearing a red harness and orange gear. In the background, another person is walking a goat. To the right of the boardwalk is a white sign with green text and logos.

**Thurston County 4-H
Pack Goat Challenge**
*Thurston Co. Fairgrounds
Saturday, June 3, 11 a.m.*

WASHINGTON STATE UNIVERSITY
EXTENSION



Pre-registration required.
Check-in 10:30 to 11 a.m.

 #Opportunity4All

4-H youth enrolled in the Utility Goat/Pack Goat 4-H project are invited to participate in the Thurston County 4-H Pack Goat Challenge.

When: Saturday, June 3

Where: Thurston County Fairgrounds, East Arena

Cost: Entry Fee: \$10.00

Time: Check-in between 10:30-11:00 a.m., Challenge to begin at 11 a.m.

Sponsored by the 24 Carrots 4-H Club

Exhibitors will take their goat through a ten obstacle, simulated trail course and answer questions about goat health/care, breeds, packing, hiking safety, and 4-H. Multiple judges will be stationed throughout the course, so exhibitors will be going through sections of the course at the same time. Exhibitors will receive a score for their knowledge, hike readiness, and ease of traversing the obstacles with their goat. Prizes will be awarded to the top exhibitors in all age groups except Cloverbud. All Cloverbud exhibitors are non-competitive and will receive a participation award.

Rules:

- Washington State 4-H Policies and Procedures will apply.
- All exhibitors must keep their goat on a halter/collar and lead at all times. Halters are preferred on horned goats as leading a horned goat by the collar can result in injury.
- Cloverbud Exhibitors (5-7 yrs. as of Oct. 1, 2022) must use a novelty or pygmy goat. A novelty goat is defined as a small goat that is purebred or crossbred lineage; is up to 23 inches in height and weighs no more than 65 pounds.
- Exhibitors must wear appropriate hiking attire/footwear and carry a backpack with the ten essentials.
- Goats must wear a pack: soft pack or cross buck. Goats under one year are not required to wear a pack.
- Horned goats must have their horn tips covered. Scurs (horn regrowth) over 1" must be covered. Goat horn tip covers must be constructed of materials that offer adequate protection (such as foam pool noodle, pipe insulation, tennis balls, or other padding combined with vet wrap). Vet wrap alone does not offer enough horn tip protection.
- Goats exhibiting unsafe behavior will be asked to skip an obstacle and/or excused from the arena.
- No intact males over six months of age.
- For pack goat training and youth contest information please refer to the North American Packgoat Association Guidebook <https://napga.org/packgoat-guidebook/>

Questions?

Please email tc4h@co.thurston.wa.us and cc 4-H volunteer, Jenny Taylor, at jenny4h@gmail.com

Registration:

Please complete the Google Form to pre-register:

<https://forms.gle/Uh4JcdhDAQSjrp9dA>

Exhibitors coming from a county other than Thurston County should bring a printed copy of the Member Health Form (printed from 4-HOnline).

Registration payment by cash or check (payable to 24 Carrots 4-H) will be made at check in.

Registrations must be received by Thursday, June 1, 2023.

No day-of registrations will be accepted.

Download the event flyer [HERE](#).

Alaska to Host 4-H Summit in 2024 – Workshop Proposal Descriptions Due June 1, 2023!



To All members of the 4-H community,

I am a volunteer 4-H leader in Fairbanks, Alaska. We have missed our Western Regional 4-H Leaders Forum for the last several years and so we decided to put on a similar event ourselves. However, we realize there are people all over the US doing 4-H that we have not had the privilege of meeting yet, so we want to invite you to come to our 2024 4-H Summit. It will be held on February 29 through March 1 in Fairbanks, Alaska. We have plenty of daylight by then so you can enjoy meeting fellow 4-H leaders while staying cozy inside, or get outside to view the Aurora and enjoy other outdoor activities.

Utah Ambassadors are coming up to lead a teen track for members 14 and older.

The registration cost will be \$300. Rooms are available right now to reserve your spot at the Westmark Hotel in Fairbanks.

Check out our Facebook page

(<https://www.facebook.com/profile.php?id=100086504940112>) to keep current with new developments.

Also, our web page is up and running, still under development but that is where to find the workshop call for proposals- <https://friendsofalaska4-h.com/2024-summit/>

We are looking for fun interactive workshops, descriptions are due June 1.

We already have the code for the room discount so you can book your room and the Alaska Airlines code so you book your flight. Don't wait! We only have room for 300 participants.

Please plan to join us with your family and friends. We are so excited to share the great state of Alaska with you and learn about 4-H in your state.

Jan Hanscom - 2024 4-H Summit

Linn-Benton CC (Oregon) Presents Livestock Judging Camp – Register By June 1st!

Paul Kuber



LINN-BENTON COMMUNITY COLLEGE
LIVESTOCK JUDGING CAMP JUNE 26- 28, 2023
LINN COUNTY EXPO CENTER | ALBANY, OR

Hello everyone,

I am the judging coach at Linn-Benton CC in Oregon. Last year we had a handful of Washington kids participate in our camp and I'm hoping to see more next month. We are hosting our camp June 26th through 28th in Albany, Oregon.

I have included our [registration/schedule](#). Registrations are due by June 1, 2023.

If anyone has any questions, please feel free to contact me.

Sierra J. Meyers

Agriculture Science Faculty
Livestock Judging Coach
Linn-Benton Community College
Office: WOH 127C (541) 917- 4770

Grow Your Digital Knowledge and Support The Washington 4-H Tech Changemaker Teens!

Please support our *Washington State 4-H Tech Changemaker (TCM)* Program Teens* today! **Our seven-partner site**** TCM teens have reached more than 2500 Washington citizens, *in person!*

Please view our videos, which assist us in meeting our *virtual* education goals. Each video watched contributes *an additional \$40 to our WA TCM project from our funders, if viewed in the month of May!*

We are proud of our youth and their work advancing public understanding of the digital world! (Videos are 4-10 minutes long)

- Safe Internet Use and Reliable Websites: <https://youtu.be/hHI39u2xP6k>
- Video Conferencing: <https://youtu.be/cC3YjVhDHDE>
- Email Basics: <https://youtu.be/bbaRIapk79U>
- Password Strength: <https://youtu.be/Mm4Q75vWKe8> –
- Virtual and Remote World of Work: <https://youtu.be/xxlvLJrexNU>

Give us THREE more minutes and complete a survey on your impressions of the video(s) you watched!

https://4hcouncil.co1.qualtrics.com/jfe/form/SV_57pa913cL7N188K

Visit our State 4-H TCM website at: [4-H Tech Changemakers | 4-H Youth Development Program | Washington State University \(wsu.edu\)](#)

**The funders included Microsoft; Land O' Lakes, Inc.; Tractor Supply, and Verizon. The National 4-H Council administers the project.*

***Partner counties include Spokane, Ferry, Whatcom, Chelan, Grays Harbor, the Kalispel Tribal site, & Wahkiakum.*

Gary F. Varrella, Ph.D.

WSU Spokane County Extension Director & 4-H Educator
509-477-2163 (office) 509-435-3369 (cell)

Visit our web page: <http://extension.wsu.edu/spokane/4h/>

Like 4-H Facebook: [spokane4h](#)

Like WSU Extension on Facebook: [wsuextensionspokanecounty](#)

Pierce County Leaders Council Hosts Small Animal Fun'Raiser On June 10th!

Mike Seiber

Rabbit, Cavies and Poultry Pierce County 4-H Fun'Raiser Event



June 10th 2023

Frontier Park

21606 Meridian E, Graham, WA 98338

Rabbit Barn

\$10 per animal



Rabbits & Cavies

Showmanship 9 AM

Judging Practice/Clinic to Follow

Poultry

Showmanship 11 AM

Judging Practice/Clinic to Follow



Extension programs and employment are available to all without discrimination. Evidence of noncompliance may be reported through your local Extension office. Anyone attending a program that requires auxiliary aids or services should contact Brian Brendt at 253-798-2250 or brendt@pnw.edu at least two weeks prior to any event. Fee waivers are available as needed.

Get practice showing your animals for the upcoming Fair season. The Pierce County Leaders Council invites all youth to an open Cavy, Rabbit, and Poultry show on June 10, 2023 at Frontier Park, 21606 Meridian E, Graham, WA 98338. The show will take place in the Rabbit Barn at the back of the park near the large parking lot. Rabbits and Cavies will begin at 9:00 a.m. with Poultry following at 11:00 a.m. The show will include showmanship and judging for each species.

The fee is \$10 per animal payable at the door. The funds generated by the Fun'Raiser go toward grants and scholarships for Pierce County 4-H Members.

4-H Military Teen Adventure Camp Volunteer Help Needed!

Ashley Hernandez-Hall



*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.



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/>

You may also contact our Camp Coordinator at 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)

a.hernandez-hall@wsu.edu

**Statewide 4-H Photo Club Virtual Contest Entries Due By
June 11th!**
Pam Watson



Washington State 4-H Virtual Photo Club Contest – Entries and RULES
Entries are DUE by midnight June 11th

Send them via email to pwatson@wsu.edu, you MUST put “Virtual Photo Contest” in the subject line.

Show different things that you have learned through live or recorded viewing of virtual photo club. You can find the links to the recordings (5 sessions) in previous issues of the WA 4-H Tuesday News and on our *Explore 4-H with WSU Extension* Facebook page.

All entries will receive feedback for each photo by the week following July 4th. Cloverbuds will receive a certificate of participation.

The top Junior, Intermediate and Senior photo will receive a gift certificate toward an arts & craft supply store.

We will do our best to publish the photos and their placings in the Washington State 4-H Tuesday News and on our Explore 4-H with WSU Extension Facebook page.

RULES:

Three (3) entries maximum per youth

You must title or caption each of your entries (please name each photo file entry with the title/caption that you use so we can match them up) and answer the following questions for each entry:

1. Type/format and name of camera used (if it was a phone or tablet or camera let us know that and the name of the device)?
2. What technique(s) are you showing or demonstrating with this photo?
3. What did you do to arrive at your final photo (crop, lighten, darken, in camera or using a computer, etc.)?
4. What was your F-stop/aperture (this info should be recorded in your meta-data)?
5. What was your shutter speed? (this info should be recorded in your meta-data)?

Thank you for learning with us!

Pam Watson, M.Ed.

WSU Lewis County Extension, 4-H and Poultry
4-H Youth Development Agent, WSU Faculty

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.

- Stella Marsh, Spokane County 4-H
- Taegan Flake, Spokane County 4-H
- Abby Hepting, Spokane County 4-H
- Kaelynn Schultz, Skamania County 4-H
- Ruth Rausch, King County 4-H
- Sylvia Corey, Snohomish County 4-H



WS4-HA State Award Winners Move On To Regional Competition!

Pam Watson, WSU Lewis County 4-H, WS4-HA Awards Chair

Do you know a hard-working WSU 4-H County Faculty or Staff person? Have you absolutely loved a program or promotional item they have shared in the county? Some of our industrious faculty and staff have taken the time to apply for national awards through our professional organization. The awards are judged by their peers – first at the state level, then onto regionals (13 states in the Western Region), and from there, four applications are reviewed for top honors in each category at the national level – in order to select the very best. Awards are received at our national conference each fall.

The following applicants and awards have been moved forward to the Western Regional level. Congratulations to all of our applicants, reviewing the applications is always fun because we get to see what others are doing around the state. A **big thank you** also to all of our reviewers for taking the time to go through the applications, make comments, and score each item.

In the Specialty Awards Category:

4-H Military Partnership Innovating for Success Award- Gary Varrella and team
First Time Attendee- Melanie Greer
Excellence in Natural Resources- Linda McLean
Denise Miller Innovator Award- Michael Wallace and team
Excellence in Shooting Sports- Ashley Hernandez-Hall and team

In the Communicator Awards Category:

Media Presentation- Brian Brandt
Radio/Audio Program-Melanie Greer
Promotional Package- Team- Brian Brandt and team
Promotional Piece- Team- Brian Brandt and team
Published Photo- Linda McLean
Social Media Piece- Team- Brian Brandt and team
Social Media Package/ Campaign – Team- Brian Brandt and team
Exhibit- Linda McLean
Feature Story- Linda McLean
Educational Piece -Team- Brian Brandt and team

Congratulations!

Pam Watson, M.Ed.
WSU Lewis County Extension
4-H Youth Development Agent, WSU Faculty



Washington State 4-H Association

Extension Educators Providing 4-H Youth Development in Washington

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



Celebrate Pride Month With A 4-H Pride Shirt!

Washington State 4-H PRIDE shirts are for sale through Monday, May 22nd. The shirts will arrive the first week of June, in time for PRIDE Month. All proceeds go to supporting youth programming and community outreach for our State Teen Equity & Inclusion Ambassadors.

<https://www.customink.com/fundraising/wa-4-h-pride-23>



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.

HORSE JUDGING PRACTICE CONTEST

PRESENTED BY:



Two Different "Courses" each with 6
practice classes!
Includes: Questions, Officials, and Critiques

ENROLLMENT LINKS:

ENROLLMENT COST: \$20/COURSE
(UNLIMITED ACCESS FOR 90 DAYS FROM
ENROLLMENT)

CLASSES IN HORSE JUDGING PRACTICE 1:

1. AGED STOCK TYPE GELDINGS
2. PERFORMANCE MARES
3. HUNTER UNDER SADDLE
4. TRAIL
5. WESTERN RIDING
6. RANCH RIDING

PRACTICE
JUDGING 1:

<https://catalog.extension.org/product?catalog=HorseJudgingContest>



CLASSES IN HORSE JUDGING PRACTICE 2:

1. PERFORMANCE HALTER MARES
2. PERFORMANCE HALTER GELDINGS
3. TRAIL
4. WESTERN PLEASURE
5. RANCH PLEASURE
6. HUNT SEAT EQUITATION

PRACTICE
JUDGING 2:

<https://catalog.extension.org/product?catalog=1676909671DNE4F>



Practice Judging 1 Live Link:

<https://catalog.extension.org/product?catalog=HorseJudgingContest>

Practice Judging 2 Live Link:

<https://catalog.extension.org/product?catalog=1676909671DNE4F>



Dr. Kathy Anderson, PhD

Professor, Extension Horse Specialist

University of Nebraska-Lincoln

Animal Science

ANSC C-204

Animal Science

Lincoln, NE 68583-0908

402-472-6414

KAnderson1@unl.edu

Facebook: UNLhorse

<https://animalscience.unl.edu/horse>

Submitted by Jennifer Leach, 4-H Faculty Liaison State Horse Committee

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



2023
WASHINGTON STATE 4-H
MEAT JUDGING CONTEST



Date: Saturday, August 12th

Location: WSU Meat Laboratory, Pullman, WA

**Qualifying contest for competition at the
National 4-H Meat Judging Contest (American Royal)**

More information and details will be released early June

**For more information, contact Dr. Blake Foraker,
blake.foraker@wsu.edu, 509-335-4112**

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.

State 4-H Ambassadors Present the 4-H Youth of the Month for May!

The Washington State 4-H Ambassadors recognize the 4-H Youth of the Month honoree for May, **Hailey Mack of Whatcom County!** The Ambassadors are proud to highlight 4-H youth monthly throughout the year!

**4-H YOUTH OF THE MONTH**

**Hailey Mack**
Senior
Whatcom County

PROJECTS:
Dog, Public Presentations
"Build Your Own House"

Washington State 4-H

Hailey Mack
Favorite Part About 4-H: Hailey loves that she gets to pursue her interests, overcome obstacles, and expand her community through 4-H.
Years in 4-H: 3 years
Past Projects: Hailey had fun participating in the poultry project.
Favorite Hobbies: Reading, skateboarding, pastoring preschoolers, and playing music.
Favorite Book: The Maximum Ride Series
Favorite 4-H Memories: She likes remembering a time when each member of her dog 4-H club fell asleep with their dogs.
Favorite Food: Ribs or fettuccini alfredo
Future Career: Hailey is planning on becoming either a nurse or teacher, as she loves little kids and helping others.
Project You'd Like to Do: Her dream would be to do the horse project.
Favorite Vacation: Hailey loves remembering her first trip after she was adopted.
Biggest 4-H Achievement: Hailey has made it to State Fair with her public presentation project for the past two years.
Favorite Ice Cream: Chocolate chip mint
Wish I could Go: Maui, Hawaii.

If you have any questions about the State Ambassadors, or are interested in joining, please email wa4hsa@gmail.com. We hope to hear from you!

Ask Dr. Universe: How Does It Rain? Gabby, 10, Ohio



The latest **Ask Dr. Universe podcast episode** was written and performed by kids! Join us in the Boomcrusher as we zoom around the solar system.

How does it rain? — Gabby, 10, Ohio

Like most cats, I don't love wet fur. I check a weather app every morning to see if I need an umbrella. But how rain happens was a mystery to me.

So, I talked about rain with my friend Nathan Santo Domingo. He's a field meteorologist with [AgWeatherNet](#) of Washington State University. That's a weather tool for farmers, gardeners and other people in Washington.

"The first thing to remember is that Earth's surface is 71% water," Santo Domingo said. "We also have a giant orb in the sky—the sun—that's feeding energy into the atmosphere and reaching down to Earth's surface."

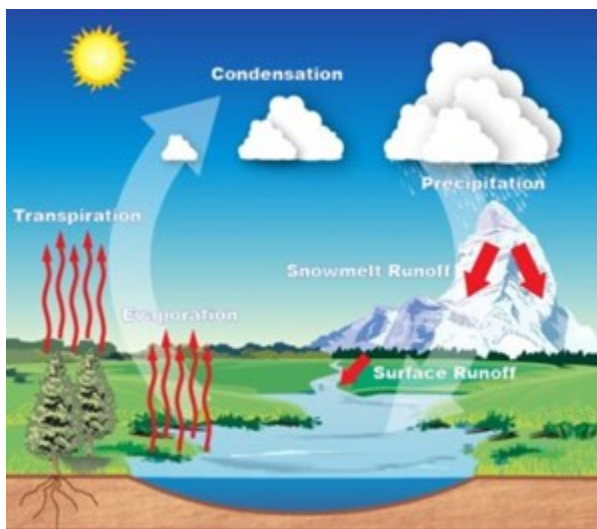
The sun's energy changes the [water in the oceans, rivers and lakes](#). The water changes from a liquid to a gas called water vapor. That water vapor floats up into the bubble of gas that surrounds Earth—called the atmosphere.

The higher the water vapor floats, the colder the air is. That changes the water vapor back into liquid water. Those drops of liquid water way up high in the [atmosphere](#) are incredibly tiny. They're so light they float. A bunch of tiny drops all floating together is a cloud.

Sometimes a cloud floats into a place with low air pressure. Or it bumps into a mountain. The tiny water drops move up and down. They bonk into each other. When two water drops bump together, they merge into a bigger water drop.

"Eventually, a water droplet becomes so heavy the air can't support it," Santo Domingo said. "It starts to fall to the ground. It hits your head, jacket or umbrella in the form of a raindrop. Or a snowflake if it's cold."

That rain flows back into the oceans, rivers and lakes. Someday, the sun's energy will turn it back into water vapor. The journey a water drop makes from Earth's surface up into the atmosphere and back is called [the water cycle](#).



Credit: NOAA

Sometimes you can tell it's going to rain by looking at the sky. But weather forecasts can tell us if it's going to rain much farther out than our eyes can.

Back in the day, weather scientists used tools like thermometers and **barometers** to predict rain. Thermometers measure changes in how hot it is. Barometers measure how much pressure there is. That's how much air is above you, pushing down due to gravity.

Weather scientists still use those tools. Now they also use supercomputers to track temperature and air pressure. They measure all the way up and down the atmosphere. They also use math equations about water, air, sunlight, plants and ocean temperatures to make predictions.

That's how weather scientists make accurate forecasts today. That way we can check a weather app and know if we need an umbrella to keep our fur dry.

Sincerely,
Dr. Universe

I want to know how snake venom in the antidote makes sense!
Raagini, 10, New York

Dear Raagini,

One of my roommates is a corn snake named Buddy. He's not venomous. But he's a very private individual and really likes his space.

Buddy and I talked about your question with my friend **Blair Perry**. He's a biologist at Washington State University. He's an expert on **snakes** and venom. Perry told me antivenom doesn't contain actual snake venom. It's made with antibodies to snake venom.

Antibodies are proteins. They're part of your immune system. They travel in your blood to fight germs or dangerous molecules—like those in venom—that could hurt you. Sometimes we get **vaccines** to boost our antibodies so they're ready when something harmful shows up.

But that's not enough for snake venom.

"With a snake bite, we get so many venom molecules injected all at once," Perry said. "Plus, they act really, really fast. There's not enough time for the body to produce those antibodies. Even if we had antibodies from a vaccine, it probably wouldn't be enough to respond quickly and to a large enough degree."

So, scientists turn to big animals with strong immune systems—like horses—to make antivenom. First, they take venom from snakes. They inject horses with teeny amounts of that venom. It's not enough venom to hurt the horse. But the horse's body begins cranking out antibodies to the venom. Eventually, scientists

can take some of the horse's blood. They clean it up in a lab to pick out the antibodies and make it safe for people. That's antivenom.

Antivenom works because those horse antibodies stop the venom from doing more damage to your body. They also show your own antibodies where to go and how to fight the venom.



There isn't just one antivenom though.

"Antivenoms are specific to different types of snakes," Perry said. "Antivenom for one kind of rattlesnake might work for other rattlesnakes or viper species with similar venom. But it might not work for cobras because cobra venom is so different."

That's not a problem in the United States. There aren't many kinds of venomous snakes here. If a snake bites you, you should go to the hospital calmly and quickly. Doctors will give you antivenom if you need it.

But it's a huge problem in other parts of the world. Some places have lots of venomous snakes. Some of those places have few resources like hospitals and labs to make antivenom.

Scientists want to make a new kind of antivenom. It would be made in a lab without snakes and horses. Hopefully, it would be easier to get this antivenom to people who need it most.

That's why biologists like Perry study how venom works. Or why some animals—like the opossum—aren't hurt by snake venom.

Of course, most snakes are nonvenomous like Buddy. Venomous or not, it's important to give snakes lots of space. If you see a snake in the wild, admire it from a respectful distance.

It's the best way to ssssstay ssssafe and ssssupport ssssnakes at the same time.

Sincerely,
Dr. Universe

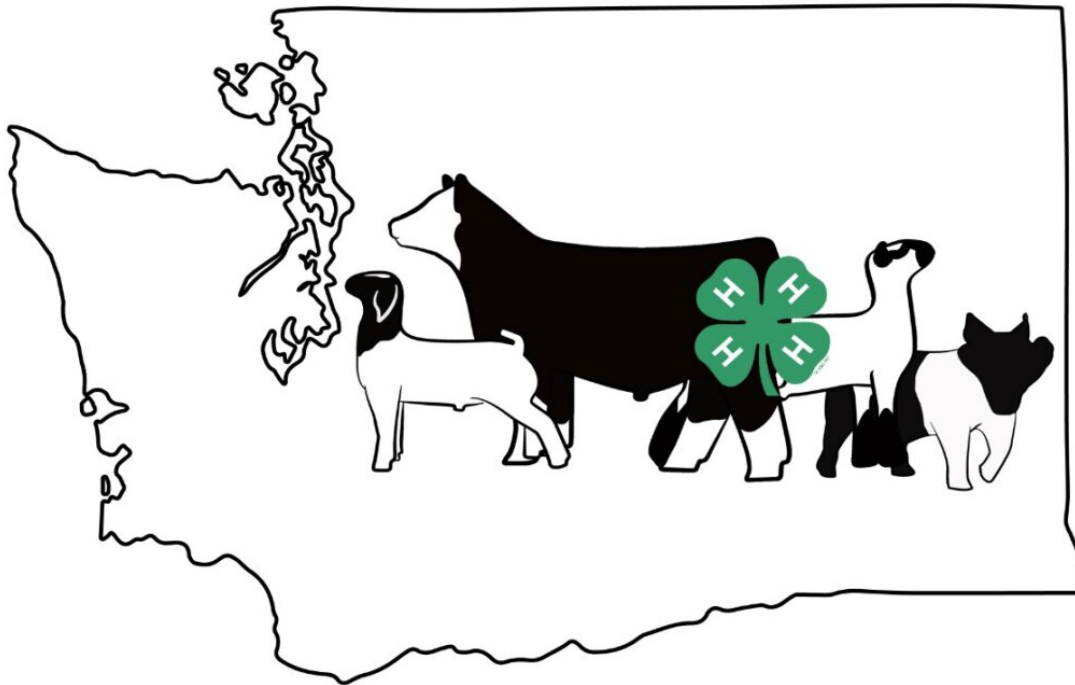
[Get more questions and answers here!](#)



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!](#)

2023 Washington 4-H State Livestock Judging Contest Update



The 2023 Washington 4-H State Livestock Judging Contest is scheduled for June 24, 2023, and will be held at the Ardell Pavilion, centered on the Grant County Fairgrounds. Contest guidelines and rules with NEW for 2023 updates are linked in this article and are up for viewing on the Washington 4-H website. Additionally, the travel guidelines document and fillable registration

forms specific to Junior, Intermediate and Senior contest registrations are linked below. Again as in 2022, the 2023 contest has NO Requirement for Qualifying, just come and participate.

This will be our second year hosting the Livestock Judging Contest at the Grant County Fairgrounds in Moses Lake, WA. The committee is looking forward to another successful contest year. In 2022 we had three senior teams that traveled to national 4-H contests representing the Evergreen state.

New for 2023:

- There will be a registration deadline this year for early registration. **June 9, 2023** – all registration materials signed by the county extension professional (specialist, educator, coordinator, administrative, etc.) will be due by end of day to qualify for early registration fees (\$15/team; \$5/individual). Late registrations will be accepted with a late fee charged (\$10/individual). All fees (check, credit or cash) will be collected the day of the contest.
- Teams and coaches will need to be prepared to identify the contests they would like to travel to by the end of the state contest. If the first place team has not determined that when asked then they will forfeit first choice and so on. So – coaches and parents PLEASE be prepared before you come to the contest to compete.
- Also new will be a dress code (see guidelines appropriate dress). Key no hats, torn or ripped or frayed jeans, no shorts, and no t-shirts with graphics or written sentiments.

Registrations will need to be sent to Robert.kestell@wsu.edu and CC pskuber@wsu.edu by end of day June 9, 2023. Late registrations will be charged a late registration fee. Any questions about the contest? Please contact Paul Kuber pskuber@wsu.edu.

Document Links:

[2023 Livestock Judging Contest Rules and Guidelines](#)

[2023 Livestock Judging Team Travel Guidelines](#)

[2023 Livestock Judging Registration Form – Intermediate](#)

[2023 Livestock Judging Registration Form – Junior](#)

[2023 Livestock Judging Registration Form – Senior](#)

See you on June 24th!



WASHINGTON STATE UNIVERSITY
EXTENSION

Paul S. Kuber, Ph.D.

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State 4-H Agri-Science Specialist

Northeast Region Livestock and Forage Specialist

Washington State University Extension

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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.

Fifth and Final State 4-H Virtual Photo Club Meeting Recording Now Available!

**RECORDING - MAY MEETING
STATEWIDE 4-H PHOTO CLUB**

*5th meeting,
May 14th,
recording*

 WASHINGTON STATE UNIVERSITY
EXTENSION



We held our fifth and last meeting for this 4-H year for the State 4-H Photo Virtual Club on May 14th, 2023. Our fifth meeting theme/focus was on matting, mounting, fair entries, scorecards, photo labels, and our virtual contest entries.

You can find the recording at <https://bit.ly/42FPuSL>

We are trying a new system for capturing data on our post-workshop survey. Please use the link in the video to take the survey when you finish watching the recording.

There is an announcement of our Virtual 4-H Photography Contest in this recording and stay tuned for the full advertisement of the contest in next week's 4-H Tuesday News!

Learn something new with us!

Pam Watson, M.Ed.
WSU Lewis County Extension
4-H Youth Development Agent, WSU Faculty

March 26th 4-H Market Poultry Zoom Recording Now Available!



Recording- 4-H Market Poultry



From March
26th, 2023



This presentation is for any
youth or volunteer who has
an interest in market poultry
and how to get started.

Brought to you by the WSU Extension 4-H Youth
Development Small & Companion Animal Committee

If you are working on a Market Poultry Project and need to get some basics or more advanced info, check out our recording from March 26th, 2023. We covered fryers, turkeys, ducks, and geese, with the focus being on fryers and turkeys. This program is available to all, not just 4-H youth.

Find the link to the recording below.

<http://bit.ly/3ze4SbT> (WSU Zoom Recording)

Please take our post-workshop survey after viewing the recording at (WSU Qualtrics) this link is also in the recording. <http://bit.ly/3LRPppq>

Thanks for watching our workshop!

Pam Watson, M.Ed., pwatson@wsu.edu

WSU Lewis County Extension

4-H Youth Development Agent, WSU Faculty
