3rd Annual Floods, Flowers and Feathers Festival

Activities and Booth Descriptions

Where: Turnbull National Wildlife Refuge

When: Saturday, May 31, 2014

Time: 8:00 am – 3:00 pm (Time of Activities will vary – See activity descriptions below)

Location of Activities and Booths: Numbers correspond to map locations

Activities

1) Blue Bird Nest Box Building Demonstration

I am Peter Erwin from Boy Scout Troop 325 of Spokane, Washington. This year at the Floods, Flowers, and Feathers Festival for my Eagle Scout project I will be providing and teaching to anyone who wishes to participate how to build and mount Western Bluebird houses. It's tons of fun for all ages and a great way to participate in the community.

Drop In – 8:00 am – 3:00 pm

2) Fire & Wildlife Enforcement Demonstration

(Inland Northwest Wildlife Refuge Complex Fire Fighting Activity / BLM Fire Adapted Communities & USFWS Law Enforcement)

The INWRC Fire staff will be on hand with a fire apparatus set up as an interactive display that allows participants to get hands on experience handling fire suppression equipment. We will also be displaying commonly used tools and equipment and have staff on hand to explain their usage and give a brief history on fire suppression and prescribed fire usage and its benefits. This display will also incorporate some prevention material to be distributed to the public, balloons, toy glider airplanes, post cards and coloring books.

BLM will host a Fire Adapted Community Booth. A Fire Adapted Community takes responsibility for its wildfire risk. Actions address resident safety, homes, neighborhoods, businesses and infrastructure, forests, parks, open spaces, and other community assets. The more actions a community takes, the more fire adapted it becomes.

Becoming a fire adapted community is a process and includes the following characteristics:

- It is in or near a fire adapted ecosystem.
- It has adequate local fire suppression capacity to meet most community protection needs.
- Its structures and landscaping are designed, constructed, retrofitted and maintained in a manner that is ignition resistant.
- It has local codes [building, planning, zoning, and fire prevention codes] that require ignition-resistant home design and building materials.
- Fuels on land near and inside the community are treated and maintained for safety.
- It has and uses a community wildfire protection plan.
- It has built other safety features such as buffers between fuels and the community; safe designated evacuation routes; and safe zones in the community when evacuation is not advisable.

Federal Wildlife Officers

Law enforcement is an integral part of managing the National Wildlife Refuge System. Refuge law enforcement officers are responsible for upholding federal laws and regulations that protect natural resources, the public and employees. The focus of our booth is for kids to view and get hands on with vehicles and equipment Federal Wildlife Officers use each day. We will have a marked Law Enforcement vehicle and wildlife decoys that children can touch and even operate.

Drop In - All Day – 8:00 am – 3:00 pm

3*) Explore the Wonder and Diversity of Aquatic Invertebrates*

Ever wonder what lives in the water? Come explore the world of aquatic invertebrates with biologist Sandy Rancourt and naturalist Jan Reynolds. This is a great hands-on activity for people of all ages.

Participants will learn about aquatic invertebrates, their adaptations and the ecological role they play in the environment. Everyone will have a chance to dip net and collect these awesome critters for identification and study. We'll supply the equipment and instruction.

Reservations required - 2 sessions: 8:30 am – 10:00 am & 12:00 pm – 1:30 pm

4) Songbird Banding Demonstration

Want a chance to see how biologists capture and band songbirds? Come to a 2 hour demonstration of the use of mist nets and bird handling and banding techniques by the refuge biologist. See some of our local songbirds up close and learn about the science of bird banding.

Reservations required – 8:00 am – 10:00 am

5) Learn about Soils with the Spokane Conservation District

Would you like to explore one of the most important natural resources on the planet? Have you ever wondered what a soil scientist does? Did you know that there is a whole world right under your feet? Come over to the Spokane Conservation District's tent to learn more about **SOIL** and use real scientific instruments to explore this amazing natural resource. Make your own soils monolith or paint with soil. Children of all ages will really dig these activities! Warning: hands may get dirty – wet wipes will be provided.

Drop In - 2 sessions: 10:00 am - 12:00 pm & 1:00 pm - 2:00 pm

6) Bird Walk with Marian Frobe

We will take a leisurely walk around the Pine Lakes area with Marian Frobe to help us identify the birds we see and hear. We can expect many of the breeding birds and migrants, including many of the ducks, at this time of year. We also hope the swans will be there for us to see. Sign up early as there will be a limit.

Reservations required – 2 sessions: 8:00 am – 11:00 am & 12:30 pm -3:00 pm

7) Audubon Bird Walk

This is a family oriented walk along a mostly flat trail to see what birds are around. It will include information on behavior, habitat and seasonal occurrence and is aimed at beginning birders.

Reservations required – 2 sessions: 9:00 am – 10:30 am & 1:30 pm – 3:00 pm

8) Can You Find that Bird?

~Bird ID Scavenger Hunt Activity~

This family-oriented activity is planned to help people learn about our local birds and their habitat. Check out a bird identification booklet and stroll through the activity area, identifying each numbered bird photo and noting it on the sheet provided. When you finish, return your materials to the activity manager and check your success against the key. There are 20 birds to find so the activity, which may be started at any time, may take about an hour.

Drop in – All Day – 8:00 am – 3:00 pm

9) Birds, Flowers, and Mammals Walk

"EWU biologists Becky Brown, Jim Hallett, Peggy O'Connell, and David Joyner will lead a nature walk exploring the plants, birds, and mammals of the wetlands, pine forest, and mima mounds. We will leave from the parking lot by the classroom at 9 am and walk for about 2 hours." Binoculars recommended.

Drop In – 9:00 am – 11:00 am

10) Nature Exploring Walk

Inland Northwest Land Trust works with willing private landowners to protect the region's natural lands, waters, and forests for the benefit of wildlife, our community and future generations. Join us on our Nature Exploring – What Do You See? Walk with Rich Leon, a local hiking expert and photographer. Journals and pencils will be provided for you to start your own nature journal while experiencing Turnbull.

Be sure to visit our booth to learn more about the land we've protected and how conservation easements work.

Reservations Required – 12:00 pm – 1:00 pm

11) Photography Walk with Chuck Kerkering

This activity will consist of a 2 hour walk dedicated to learning about and photographing wildflowers and other small objects in nature. Principles of photographic composition, macro photo equipment, and macro photographic techniques will be demonstrated during the walk."

Reservations Preferred – 2 sessions - 9:00 am – 11:00 am & 12:30 pm – 2:30 pm

12) Wildflower Walk with Ken Swedberg

Come join Professor Emeritus Ken Swedberg on a 3-hour hike to learn about the wildflowers of Turnbull. Emphasis will be on plant identification.

Reservations Preferred – 9:00 am – 12:00 pm

13*) Introduction to Ice Age Floods Presentation*

A brief (30 minute) introduction to the ice age floods and how they impacted the local landscape.

Drop In – 2 sessions: 10:30 am – 11:00 am & 2:00 pm – 2:30 pm

14) ***Geology Tours***

Legacy of the ice age floods – the geology, landforms and soils of Turnbull. A tour to look for evidence of the floods.

Reservations Required – 2 sessions: 9:00 am – 11:30 am & 12:30 pm – 3:00 pm

15) Refuge Management & History Tour

If you have always wondered what a National Wildlife Refuge is all about, join the refuge biologist on a 2 hour driving tour of Turnbull NWR. Learn about its wildlife and habitat, and how the refuge staff restore, protect and maintain the forest, grasslands, wetlands and riparian areas of this unique landscape.

Reservations Required – 1:00 pm – 3:00 pm

16) <u>Interactive Booth Tent</u>

~ All Day ~ 8am – 3:00 pm

Cheney Library - Make Your Own Bookmark!

As part of the Spokane County Library District, the Cheney Library is the essential place to explore, learn, and create. The Cheney Library features on-site technology including Wi-Fi, computer stations, printers, and commonly-used software, and free use of meeting rooms. Expect to find what you're looking for, from books and paperbacks to DVDs, online magazines, and eBooks. Our collection of popular materials is approximately one-half million items. For many of our online resources, your library card provides access beyond the pay wall, and our educational support includes online tutoring. The Cheney Library offers events and programs for all ages from story times to social security workshops and everything in between. Our staff is well-trained in helping you find the information you need, whether it be in our catalog or on the web.

Make your own bookmark and learn about resources with the Cheney Library!

Ducks Unlimited - Decoy Painting for Kids

Local sportsmen and women have donated old duck decoys for kids to paint and take home.

Eastern Washington University Live Animals of Turnbull

EWU wildlife students will have a display of some of the amphibians and reptiles of TNWR and will be available to answer questions about their habits and habitats.

Eastern Washington University "Sounds of the Night"

EWU Biology Graduate Student Chris Brady will have posters illustrating the spectrograms and waveforms generated by certain animal species common to the refuge: great- horned owl, coyote, raven, turkey, etc. along with man-made noises: trains and planes. Chris will demonstrate how easy it is to visually identify sound origins by the display. He will also have a computer and headphones or speaker setup to allow guests to listen to recorded calls through the acoustic program RavenLite, possibly as a guessing game related to the posters. They will be able to manipulate the appearance of recorded calls (change color and gradation of spectrograms, zoom in/out, and alter the timescale of sounds) through various modifications within each spectrogram and waveform. Chris will also have a brief description of his thesis project and information on owl species common to Turnbull NWR.

Exploring Families – Animal Signs

In a zoo, there are signs that tell you what animal to look for, such as "Beaver." But in their natural habitat, animals don't stand in front of a sign that labels them. However they do leave us clues as to who was there, in the form of scat. Come learn to identify some Turnbull animals by their scat. We don't have any real scat at our table but we have marshmallows, jelly beans and other foods, which have the same size and shape as some of the animals at Turnbull. Exploring Families offers terrific tours, fantastic field trips and spectacular special events helping students and their parents explore, discover, and learn outside of school time and beyond the books. We specialize in a great variety of educational activities with a S.T.E.M. focus (Science, Technology, Engineering, Math).

Friends of Little Pend Oreille -- Owl Activity

Want to learn what owls eat? Take a closer look at an owl's role in the food chain. Come and learn how to dissect an owl pellet.

Ice Age Floods Institute, Cheney-Spokane Chapter - Hands-on Science

Hands on science activities related to the ice age floods include: model a glacier, and investigate the Spokane-Rathdrum aquifer. Fun for all ages.

Inland Northwest Wildlife Council

Our booth will be an interactive booth, where visitors can test their knowledge of Northwest wildlife. We will have a variety of furs, skulls, and antlers that visitors can pick up, examine, and guess which local critter it comes from. This is an educational booth. Our goal is give people a unique opportunity to get a closer look at wildlife in our area.

Mobius Science Center

"Mobius Science Center in downtown Spokane has 65 hands-on exhibits and they love to bring science out into the community. Mobius will be at Floods, Flowers, and Feathers with one of its most astounding science demonstrations, the dreaded bed of nails. Are you brave enough to trust the science and lie down on it?"

National Weather Service

Find out how humans and rivers interact! Students can explore how rivers interact with the floodplain and how development within a watershed can impact flooding using a hands-on simulation model. The students will also learn how local weather and climate patterns affect how much water flows through their community.

Spokane Clean Air

Spokane Clean Air is a local agency whose mission is to "preserve, enhance and protect the quality of Spokane County's air for the benefit of current and future generations." At the festival, we will have a hands-on particle pollution activity for participants to learn more about how air is monitored for pollution and learn about local air quality concerns and solutions. Go ahead and take a deep breath of fresh, clean air!

Turnbull National Wildlife Refuge - Animal Tracks

Wildlife leave behind many clues for the observant visitor that tell their story including tracks in snow or a muddy bank. Here is an opportunity to learn who those tracks belong to. Children will be able to make their own animal tracks out of Plaster of Paris.

West Valley Outdoor Learning Center – Live Raptors

The mission of the West Valley Outdoor Learning Center is to instill an appreciation for fish, wildlife and our natural resources by giving teachers and students an opportunity to have experiences in an outdoor setting. We will have live birds and some coloring tracks for a hands-on experience.

17) <u>Information Booth Tent</u>

~ All Day ~ 8:00 am – 3:00 pm~

Channeled Scablands Weed Management Area

Formed in 2008 by a group of landowners and local staff of several natural resource agencies, members of the CWMA work cooperatively to control and manage invasive plant species (noxious weeds) to promote healthy rangelands through public education, mapping, and technical and financial assistance. CWMA members will be at the booth to provide information on weed identification, control methods and a cost share program to help local landowners.

Ducks Unlimited

Wetlands are among the earth's most productive habitats. Ducks Unlimited conserves, restores, and manages wetlands and associated habitats for North America's waterfowl, other wildlife, and people. Our vision is to have wetlands sufficient to fill the skies with waterfowl today, tomorrow and forever. In Eastern Washington alone, Ducks Unlimited has been working for over a decade, and has helped conserve and restore more than fifty thousand acres of habitat. At the Spring Festival, talk with a DU biologist, learn about waterfowl, and take a guided walk to see restored wetlands.

Ecological Services

"The Ecological Services branch of the Fish and Wildlife Service (separate from the Refuges branch) will be staffing an information table where you can ask questions about Endangered Species, other wildlife laws, and other activities the Fish and Wildlife Service gets involved in. Educational information and pamphlets will be available."

Friends of Little Pend Oreille

The Friends of the Little Pend Oreille National Wildlife Refuge is an independent, volunteer, non-profit 501c (3) organization chartered in 2000. Our organization is dedicated to promoting the conservation of native fish, wildlife, plants and their habitats on the Little Pend Oreille National Wildlife Refuge, providing educational opportunities, and fostering understanding and appreciation of the Refuge.

Friends of Turnbull

The Friends of Turnbull (FOT) is a nonprofit organization that supports the mandate of the refuge to protect and enhance wildlife and their habitats through education, research, habitat preservation and restoration.

Ice Age Floods Institute, Cheney-Spokane Chapter

Members of the Ice Age Floods Institute, Cheney-Spokane Chapter, further educational objectives by answering questions and showing materials related to the floods, Institute organization and Ice Age Floods National Geologic Trail development.

Inland Northwest Land Trust

Visit the Inland Northwest Land Trust booth and learn about our efforts to protect our region's natural lands, waters, and forests for the benefit of wildlife, our community and future generations.

Natural Resources Conservation Service (NRCS)

NRCS will be highlighting 20 years of the Wetland Reserve Program in the nation, as well as some specifics about the program in Washington State. The booth will have a set of banner displays and some brochures on the program, as well as information about other NRCS conversation programs.

Spokane Audubon Society

21st-century conservation must be supported by "Citizen Science"...by YOU, your family and friends, your children. At the Spokane Audubon display booth, you'll find suggestions on how you can participate...both at Turnbull Refuge and in your community. Scientists can use data supplied by citizen observers to document patterns and changes in the natural world and help us learn how to preserve our wonderful biological diversity.

Spokane Parks Foundation

The Spokane Parks Foundation cultivates the health, growth and continued enjoyment of our communities by inspiring giving and passion for our parks. We do this by implementing our four core values:

Providing Access
Advocating & Collaborating
Raising Funds
Knowledge & Education

The Lands Council - Beavers as Ecosystem Engineers

The Lands Council will illustrate basic beaver biology facts; imperatives for facilitating beavers as part of our watershed integrity; techniques for managing nuisance beaver activity; and comparison/ contrast of beaver built wetlands versus human engineered wetlands. Additionally, there will be an overview of The Lands Council, and our beaver project.

Turnbull National Wildlife Refuge – The Partners for Fish and Wildlife

The US Fish and Wildlife Service provide technical and financial assistance to private landowners to restore and manage wildlife habitat. A private lands biologist will be on hand to answer questions and provide information about the many programs available through the Service and its many partners. If improving your land is something you value, you can make arrangements for a free on-site consultation to look at your options.

Washington Department of Fish and Wildlife - Private Lands Access and Habitat Enhancement Programs

Since 1948, the Department of Fish and Wildlife has been helping private landowners who open their lands to public hunting. The Department helps landowners manage hunting on their property by providing technical assistance and signs.

Many of the private landowners who are part of the private lands access program also get technical assistance from WDFW Private Lands Biologists to help improve fish and wildlife habitat on their lands. Department biologists are available to help landowners plan habitat improvements and may also be available to help landowners apply for or implement federal programs administered by the Farm Service Agency (FSA) or the Natural Resource Conservation Service (NRCS). There are also WDFW funded habitat programs that are also available in some parts of the state. Biologists will be on hand to answer questions regarding the access programs and/or habitat questions.

Washington Native Plant Society

"Stop by the northeast Chapter of the Washington Native Plant Society's booth to learn about the mission of the society, the events we have scheduled, chat with a member about the local flora, peruse a sampling of our favorite books from field guides to gardening or consider becoming a member of the only non-profit in Washington dedicated exclusively to the conservation, study and appreciation of native plants!"

West Plains Beekeepers Association

The West Plains Beekeepers Association is a non-profit organization dedicated to the education and training of those interested in the support of beekeeping. We provide classes to help people get started with bee keeping and monthly education for it's membership, as well as the community at large. In addition, we are involved in research that will increase knowledge on how to better assist the survival and growth of bees. We meet the 1st Friday of the month at 6 pm at the Pizza Factory in Medical Lake. All are welcome.

18) Welcome & Information Tent

~ All Day ~ 8:00 am - 3:00 pm

Need assistance finding an activity or booth? Stop by our welcome and information tent for maps, cookies and coffee.

19) Visitor Center & Friends of Turnbull Book Store

~ All Day~ 8:00 am – 3:00pm

Hands on activities and additional information on the refuge's history, wildlife and management can be found at Turnbull's new Visitor Center.

The Friends of Turnbull Store will be open during the Festival. The store is located in the Visitor Center at refuge headquarters and has a wide variety of nature and children's books. We have T-shirts, hats, and sweatshirts in various colors and designs, plus gift items such as pins, earrings, hand-made ceramic plates and gorgeous pine needle baskets. We also carry Audubon bird toys, coffee mugs and more. Drop in to see our selections.