#### VOL XXIV, ISSUE 4 December 2019

# The Weather Watcher of the Inland Northwest

www.weather.gov/Spokane

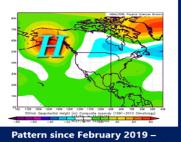
### Winter Outlook—ENSO Neutral

The Climate Prediction Center shows slightly elevated odds of warmer and wetter than normal conditions for this winter over the Inland Northwest, mainly for December to February.

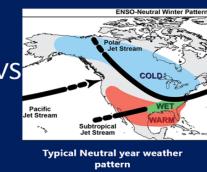


Note how the odds are only slightly weighted in this direction. An ENSO-neutral winter is favored, meaning we are not expecting an El Nino or La Nina winter. What does this mean for this winter? Well there are two main areas we are focusing on. The graphics below help illustrate this. The left image shows the pattern we have been in since last February. There has been anomalous high pressure in the Gulf of Alaska. The exact placement and strength of this feature has varied but has been there. The right image shows what usually occurs in a neutral year. Typically the Pacific Jet Stream is aimed at the region giving us an active weather pattern.

## This winter battle



Pattern since February 2019 – Anomalous high pressure Gulf of



So will the ridge win, giving our region a drier, but potentially cold winter? Or will a more typical neutral year pattern develop with more frequent rounds of precipitation? There is low confidence on the right answer, and it's possible a combination of both will occur. But one thing does carry higher confidence. That is to expect at least a few high impact weather events. Some locations have already seen this so be prepared for common Inland NW hazards which includes snow, ice, and possible strong winds and localized flooding.  $\diamondsuit$  *Jeremy Wolf* 



## Winter Hazards

What is typical winter weather across the Inland NW? That can be a loaded question. Mostly snow and cold, but it can vary from the Cascades to the Columbia Basin into north Idaho. The last time the region experienced ENSO Neutral winters were the back to back seasons of 2012-13 and 2013-14. Some of the highlights during these winters were:

HEAVY SNOW— December 2012 Lake Wenatchee to Elk and February 2014 near Mazama

**BITTER COLD**— December 2013 near Spokane & Lewiston

**RIVER ICING**— December 2013 near Pritchard

**DAMAGING WINDS**—January 2014 near Palouse & Chewelah Peak

DENSE FOG & RIMING—January 2013 and February 2014 near Spokane

FLOODING—

January 2014 near Athol due to frozen ground.



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#### Edítor's Notes

With winter upon us, it's good to remember tips for traveling in winter weather. Pack an emergency supply kit. Make sure to winterize your vehicle before you start your trip. Stay mobile. Check road conditions before you go and along the way. Also keep current on the NWS forecast and any warnings.

The winter season brings many weather events that can sneak up on you. Even a light snowfall may lead to issues if it becomes too intense or arrives during rush hour. When encountering snow covered roadways, remember to slow down. Avoid using cruise control and give plenty of distance between you and other vehicles on the roadway. Stay safe.

The 2019 Winter Solstice is Saturday, December 21st at 8:19pm PST, which marks the shortest day of the year.

We're always looking for new ideas and stories for our publication. Please send to <u>nws.spokane@noaa.gov</u>. Newsletters are available on the NWS Spokane web page.

The main purpose of this publication is to keep our readers informed about NWS services and programs, and recognize those who help us with our mission, including weather spotters, observers, media, emergency managers, and government agencies.

All articles are written by the NWS Spokane staff. A special thanks goes to Jeremy Wolf, Jenn Simmons, & Jon Fox for their help.

Want to report precipitation? Check out CoCoRaHS at *www.cocorahs.org* 

## **NWS Open House**

On September 21, 2019, the National Weather Service in Spokane held their first Open House in five years. The weather forecast office welcomed people of all ages to learn more about their operations and see the daily routine in person. There were numerous activities at the event: weather balloon releases, taking weather measurements, weather talks, self-guided tours, and kids' activities. A popular weather talk was on the Winter Outlook. Those who attended were given the opportunity to learn more about all that goes into the forecasting process. Forecasters walked attendees through various resources and routines in the office and on the operations floor.  $\bigcirc$  Jenn Simmons

#### Fall Weather Statistics

Avg High Temp   74.5   58.4   47.6   60.2     Departure from Norm   -3.8   -5.1   +1.1   -2.6     Avg Low Temp   53.8   36.7   30.5   40.3     Departure from Norm   +2.1   -4.5   -1.7   -1.4     Total Precip   2.33   0.47   0.11   2.94     Departure from Norm   +2.03   -0.05   -1.27   +0.7     Total Snowfall   0.0   0.0   0.2   0.2     Departure from Norm   0.0   0.0   -1.7   -1.7     Lewiston Airport   Sep   Oct   Nov   Total     Avg High Temp   76.6   57.9   46.8   60.4     Departure from Norm   -1.6   -4.7   -1.4   -2.6     Avg Low Temp   54.0   37.3   31.6   41.0     Departure from Norm   +3.0   -3.8   -2.5   -1.1     Total Precip   1.05   0.91   0.62   2.58     Departure from Norm   +0.38					
Departure from Norm   -3.8   -5.1   +1.1   -2.6     Avg Low Temp   53.8   36.7   30.5   40.3     Departure from Norm   +2.1   -4.5   -1.7   -1.4     Total Precip   2.33   0.47   0.11   2.91     Departure from Norm   +2.03   -0.05   -1.27   +0.7     Total Snowfall   0.0   0.0   0.2   0.2     Departure from Norm   0.0   0.0   -1.7   -1.7     Lewiston Airport   Sep   Oct   Nov   Total     Avg High Temp   76.6   57.9   46.8   60.4     Departure from Norm   -1.6   -4.7   -1.4   -2.6     Avg Low Temp   54.0   37.3   31.6   41.0     Departure from Norm   +3.0   -3.8   -2.5   -1.1     Total Precip   1.05   0.91   0.62   2.56     Departure from Norm   +0.38   -0.05   -0.23   56     Departure from Norm   0.0	Wenatchee Water Plant	Sep	Oct	Nov	Total
Avg Low Temp 53.8 36.7 30.5 40.3   Departure from Norm +2.1 -4.5 -1.7 -1.4   Total Precip 2.33 0.47 0.11 2.91   Departure from Norm +2.03 -0.05 -1.27 +0.7   Total Snowfall 0.0 0.0 0.2 0.2   Departure from Norm 0.0 0.0 -1.7 -1.7   Lewiston Airport Sep Oct Nov Total   Avg High Temp 76.6 57.9 46.8 60.4   Departure from Norm -1.6 -4.7 -1.4 -2.6   Avg Low Temp 54.0 37.3 31.6 41.0   Departure from Norm +3.0 -3.8 -2.5 -1.1   Total Precip 1.05 0.91 0.62 2.58   Departure from Norm +0.38 -0.05 -0.56 -0.23   Total Snowfall 0.0 M 0.8 0.8   Departure from Norm -0.38 -0.05 -0.56 -0.23   Total Snowfall 0.0 M	Avg High Temp	74.5	58.4	47.6	60.2
Departure from Norm   +2.1   -4.5   -1.7   -1.4     Total Precip   2.33   0.47   0.11   2.91     Departure from Norm   +2.03   -0.05   -1.27   +0.7     Total Snowfall   0.0   0.0   0.2   0.2     Departure from Norm   0.0   0.0   -1.7   -1.7     Lewiston Airport   Sep   Oct   Nov   Total     Avg High Temp   76.6   57.9   46.8   60.4     Departure from Norm   -1.6   -4.7   -1.4   -2.6     Avg Low Temp   54.0   37.3   31.6   41.0     Departure from Norm   +3.0   -3.8   -2.5   -1.1     Total Precip   1.05   0.91   0.62   2.56     Departure from Norm   +0.38   -0.05   -0.56   -0.23     Total Snowfall   0.0   M   0.8   0.8     Departure from Norm   -0.0   M   -1.0   -1.0     Spokane Airport   Sep   Oct	Departure from Norm	-3.8	-5.1	+1.1	-2.6
Total Precip 2.33 0.47 0.11 2.91   Departure from Norm +2.03 -0.05 -1.27 +0.7   Total Snowfall 0.0 0.0 0.2 0.2   Departure from Norm 0.0 0.0 -1.7 -1.7   Lewiston Airport Sep Oct Nov Total   Avg High Temp 76.6 57.9 46.8 60.4   Departure from Norm -1.6 -4.7 -1.4 -2.6   Avg Low Temp 54.0 37.3 31.6 41.0   Departure from Norm +3.0 -3.8 -2.5 -1.1   Total Precip 1.05 0.91 0.62 2.58   Departure from Norm +0.38 -0.05 -0.56 -0.23   Total Snowfall 0.0 M 0.8 0.8   Departure from Norm -0.0 M -1.0 -1.0   Mag High Temp 68.7 51.3 42.2 54.1   Departure from Norm -4.2 -6.7 +0.6 -3.4   Avg Low Temp 49.6 33.2	Avg Low Temp	53.8	36.7	30.5	40.3
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Lewiston Airport   Sep   Oct   Nov   Total     Avg High Temp   76.6   57.9   46.8   60.4     Departure from Norm   -1.6   -4.7   -1.4   -2.6     Avg Low Temp   54.0   37.3   31.6   41.0     Departure from Norm   +3.0   -3.8   -2.5   -1.1     Total Precip   1.05   0.91   0.62   2.58     Departure from Norm   +0.38   -0.05   -0.56   -0.23     Total Precip   0.0   M   0.8   0.8     Departure from Norm   0.0   M   -1.0   -1.0     Total Snowfall   0.0   M   0.8   0.8     Departure from Norm   0.0   M   -1.0   -1.0     Avg High Temp   68.7   51.3   42.2   54.1     Departure from Norm   -4.2   -6.7   +0.6   -3.4     Avg Low Temp   49.6   33.2   29.0   37.3     Departure from Norm   +2.2   -4.0	Total Snowfall	0.0	0.0	0.2	0.2
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Spokane Airport   Sep   Oct   Nov   Total     Avg High Temp   68.7   51.3   42.2   54.1     Departure from Norm   -4.2   -6.7   +0.6   -3.4     Avg Low Temp   49.6   33.2   29.0   37.3     Departure from Norm   +2.2   -4.0   -0.8   -0.9	Total Snowfall	0.0	М	0.8	0.8
Avg High Temp   68.7   51.3   42.2   54.1     Departure from Norm   -4.2   -6.7   +0.6   -3.4     Avg Low Temp   49.6   33.2   29.0   37.3     Departure from Norm   +2.2   -4.0   -0.8   -0.9	Departure from Norm	0.0	М	-1.0	-1.0
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Departure from Norm +2.2 -4.0 -0.8 -0.9	Departure from Norm	-4.2	-6.7	+0.6	-3.4
	Avg Low Temp	49.6	33.2	29.0	37.3
	Departure from Norm	+2.2	-4.0	-0.8	-0.9
Total Precip 1.98 1.53 0.68 4.19	Total Precip	1.98	1.53	0.68	4.19
Departure from Norm +1.31 +0.35 -1.62 +0.0	Departure from Norm	+1.31	+0.35	-1.62	+0.04
Total snowfall 3.3 3.6 0.2 7.5	Total snowfall	3.3	3.6	0.2	7.5
Departure from Norm +3.3 +3.5 -6.8 0.0	Departure from Norm	+3.3	+3.5	-6.8	0.0



## **CoCoRaHS** Notes

Did you know there are great resources on observation training at CoCoRaHS? New this fall are two animations. The first one is all about Quality Control and its importance (a) <u>https://youtu.be/3oaFrdeRsHU</u>. The second covers the Tools that We Use (a) <u>https://youtu.be/Xm8P9dJO-bk</u>. This video looks at all of the instruments and tools we use to make measurements for CoCoRaHS, from the rain gauge to hail pads and the atmometer (ET gauge). The animation is amazing.

Don't forget the refreshers on winter weather. A good start is to check out the Snow animations on the CoCoRaHS YouTube Channel (a) <u>https://www.youtube.com/user/</u> <u>cocorahs</u>. Other good ones are under the Training Slide Shows: Things to Know about Snow page (a) <u>https:// cocorahs.org/Content.aspx? page=snow</u> and our In depth -Snow Measuring slide show (a) <u>https://cocorahs.org/</u> <u>Content.aspx?page=training\_slideshows</u>.



## **Spotter Corner**

NWS hosted a fall spotter training seminar in Moscow, Idaho on November 19th during the local amateur radio meeting. It has been several years since training was held in Latah county and there were around 20 in attendance. A Live Virtual spotter class was held on December 3rd which 65 current and new spotters took part.

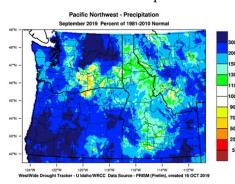
If you didn't get to attend a spotter training seminar, there's online material available at <u>weather.gov/Spokane</u> under Spotter Resources. We plan to host additional spotter training classes in the Spring of 2020. Stay tuned. 🔅

ANSWER: On December 25th, the record lows are: Spokane -6 in 1964, Lewiston 6 in 1983, Sandpoint -11 in 1924, Wenatchee 4 in 1948.

## Fall 2019 in Review

tation records were broken in Septem- couple more additional intrusions of received less than 25% of normal preber, with cold records in October, and cold Canadian air resulted in the cold- cipitation as seen in the map below. an abnormally dry November.

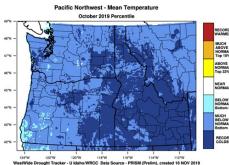
September started off on a warm and " dry note with high temperatures in the mid 80s to mid 90s with dry conditions through the  $5^{\text{th}}$ . But the month finished very wet with a few areas in the Cascades recording the wettest September on record including Mazama with 3.95", Omak 2.90" and Wenatchee Waterplant 2.30". This was over 300% of normal as seen in the map below.





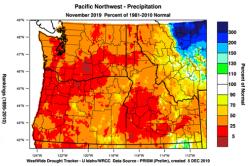
kane recorded its coldest September the Palouse closed Highway 195 bethe  $29^{\text{th}}$ .

here is one word to describe this The cold weather lingered into the first **November** was a dry month. Several est October on record for several spots.



events. On the 8<sup>th</sup> a wild day was November on record with only 0.11". experienced in d'Alene, and Rathdrum. High tempera- ber with 0.44". Despite these dismal tures reached the 50s with southwest numbers, there was some active weathwinds gusting up to 40 MPH. Temper- er towards the end of the month. atures cooled rapidly behind a cold front with a band of moderate/heavy rain changing to wet snow. Snow quickly accumulated with 2-4" in Spokane/Coeur d'Alene with 6" in Hayden and Rathdrum. The heavy wet From the 8<sup>th</sup> through the 10<sup>th</sup> isolated snow on trees with fall foliage resulted thunderstorms produced heavy rain and in downed trees and power outages landslides in the Cascades and Palouse. with over 32,000 customers impacted. Spokane on Interstate 90 as road condi-A large debris flow oc- On the 25<sup>th</sup> strong winds struck tions quickly deteriorated with snow/ curred on Entiat River portions of Central Washington with 45 ice on the road. Road with debris 6-7 to 55 MPH gusts between Wenatchee (Thanksgiving Eve), strong northeast feet deep in spots. An- and Chelan with local gusts to 65 MPH winds around the Sandpoint and Priest other debris flow oc- in the mountains. The winds resulted River area resulted in a few downed curred along South in a few downed trees in the trees and power outages with gusts up Lakeshore Drive near Leavenworth area leading to power to 59 MPH. Meanwhile in Central Manson after 1.17" of outages and three injuries. rain fell in two hours. In Pullman, winds brought a day of mild tempera- Blewett Pass area closed Highway 97 0.75" of rain in 45 minutes in the tures with Wenatchee reaching 72°F. with Mission Ridge reporting 23" of downtown area flooded one business. Also on this day a strong cold front snow by Thanksgiving morning. Another round of heavy rain occurred tracked south through the Okanogan Jeremy Wolf on the 17th-18th around Omak with be- Valley with Oroville reporting a 74 tween 1.40-2.00". Then an abnormally MPH wind gust. Thunderstorms develcold storm parked over the region on oped ahead of the front in Clark Fork, Meteorologist Bob Tobin will be retirthe 28<sup>th</sup> and 29<sup>th</sup> setting records with ID knocking down several trees and snow falling generally above 2000 feet. closing Highway 200 between Hope The following is a list of September and Clark Fork. On the 28<sup>th</sup> a strong snow records: Spokane Airport 3.3", arctic front brought 40 MPH wind Davenport 1.3", Pullman 1.0", gusts and a burst of snow around Nezperce 0.6", Rosalia 0.3", and Ritz- Bonners Ferry, ID with near whiteout ville 0.2". If that weren't enough, Spo- conditions reported. Snow and ice on high temperature on record with 38° on tween Colfax and Pullman due to multiple accidents.

fall – unusual. Snow and precipi- part of October. This combined with a locations across the Inland Northwest



There were several significant weather Wenatchee recorded the 3<sup>rd</sup> driest Spokane, Coeur Pullman recorded the 4<sup>th</sup> driest Novem-



On the 26<sup>th</sup> a small but intense snow shower brought 0.6" of snow to Spokane in 30 minutes resulting in 35 crashes involving 127 vehicles between Medical Lake and

On the next day These Washington, heavy snow over the

#### Staff News

ing from the National Weather Service on December 31st after close to 30 years of federal service. Those in the fire weather community know Bob the best, he has been an Incident Meteorologist for 20 years and the Fire Weather Program Leader in Spokane since 2003. Good luck to Bob and his future adventures. 🖄

SPOTTER REPORTS: (509) 244-0435 or online @ weather.gov/otx/StormReport

#### Remember your Winter Spotter Checklist

**Snow:** 2"+ valleys & 4"+ mountains

Strong Winds: 30mph+ or damage

Reduced Visibility: under a mile due to fog, snow...

Hail: pea size or larger

Heavy Rain: Showery: 1/2" + in 1hr Steady: 1"+ in 12hr

Any Mixed Precipitation

Any Flooding

**Travel Problems or Damage:** due to severe/hazardous weather

### **Giving Back**

On Oct 22, 2019, NWS Spokane took part in a food sort at 2nd Harvest in Spokane. Eleven NWS employees with their family and friends sorted 6055 pounds of food drive food and boxed them up. This was supporting the NWS Week of Service. Annually during this week, National Weather Service staff members and partners make a concerted effort to reach out in our communities to help those in need.

2019 Fire Summarv

The 2019 fire season was a bit slower

with the total number of fires and acres

burned being below average across the

Inland Northwest. There were 23 large

fires reported and over 145,000 total

acres burned. The largest fire last sum-

mer was the Williams Flats fire in Au-

gust. The last time the region experi-

enced acreage burned at this level or

even lower was 2016 & 2013. JFox



### **Skywarn Recognition Day**

This year marked the 20th year of Skywarn Recognition Day where the NWS and American Radio Relay League celebrates the contributions of Skywarn Spotters. On December 6-7, 2019, weather spotters from the Spokane county ARES/RACES set up their stations at NWS Spokane and tested their equipment by gathering weather data. The group was able to make over 80 contacts both locally in state and as far away as Ohio, Texas and Florida. Great job to our ARES/RACES weather spotters! 🔅 R Fox

Warning : Severe or hazardous weather is likely

or is occurring in the warned area. DANGER—ACT NOW!

Watch : Conditions are favorable for severe or hazardous weather around the watch area. CAUTION—Watch the Sky!

The Weather Watcher Of the Inland Northwest

National Weather Service 2601 N Rambo Rd Spokane, WA 99224 (509)-244-0110

