The Weather Watcher of the Inland Northwest

www.weather.gov/Spokane

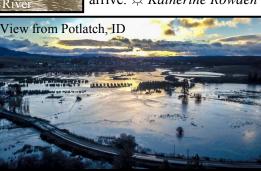
Spring Flooding of 2017



Adant late winter snow, heavy rain from several wet Pacific storms, and near seasonal temperatures, led to the melting of the low level snow pack, increased runoff and the flooding across southeast Washington and the southern Idaho Panhandle. Reports of flooded fields & roads, sink holes, mud slides and high flows on area rivers have been common in the last several weeks. Anticipate continued issues with flooding as the mountain snow melts and milder spring temperatures arrive. 🔆 *Katherine Rowden*

combination of abun-





mPING

W ant to share your Precipitation Reports in REAL time? No accumulations necessary—just what you are observing. Rain or snow or graupel or wind damage or reduced visibility? It's easy! Download the mPING app on your phone or mobile device and report your precipitation or weather type. We have had great success with these reports in real time weather, and look forward to many future reports. For more information, check out http://mping.nssl.noaa.gov/ ☆ Robin Fox



Flood Safety— What you need to know!

- Avoid driving through water covered roadways. You don't know how deep the road is or what condition it is in.
- Stay away from fast moving rivers and streams. Water temperatures are still very cold and current is swift.
- It only takes 6" of fast-moving water to knock over an adult. Just 12" of rushing water can carry away a small car.
- Plan ahead and learn about the road conditions before you travel.



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Edítor's Notes

Oh Spring....Welcome Back! We're sure most are ready for winter to be gone. But we can agree, let's hope for the warm-up to be slow so not to melt our mountain snow too fast and worsen the flooding potential. Spring arrived on March 20th and our days continue to get longer!

We will be transitioning to thunderstorm season soon enough. Reports of hail, gusty winds and heavy downpours will increase. Did you know that hail the size of a quarter or 1 inch in diameter is severe hail? And winds over 57 mph are severe winds?

We are always looking for new ideas, pictures & stories for our publication. Please submit them to <u>nws.spokane@noaa.gov</u>.

This newsletter & past issues are available on the NWS Spokane web page.

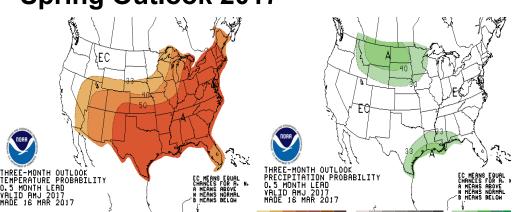
The main purpose of this publication is to keep our readers informed about NWS services and programs, and recognize those who help us with our mission, including weather spotters, observers, media, emergency managers, and government agencies.

All articles are written by the NWS staff. A special thanks goes to Katherine Rowden & Jeremey Wolf for their help.

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Spring Outlook 2017

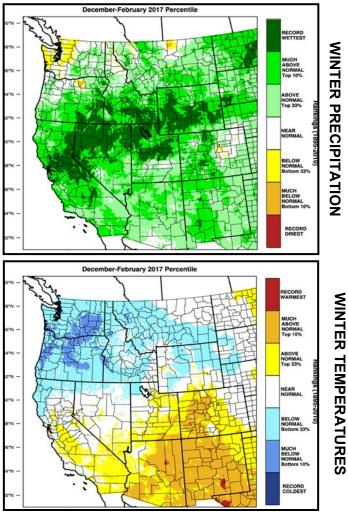
The NWS Climate Prediction Center forecasts that the cool and wet conditions will most likely persist through the end of March. There's the potential for more seasonal temperatures for April and May with still above normal precipitation. Although a glimpse toward the summer months shows a better chance for warmer and drier weather. \cancel{C} Robin Fox



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Wenatchee Water Plant	Dec	Jan	Feb	Total
Avg High Temp	32.7	27.4	35.9	32.0
Departure from Norm	-2.1	-8.5	-7.5	-6.0
Avg Low Temp	20.5	18.2	22.2	20.3
Departure from Norm	-4.7	-7.2	-5.5	-5.8
Total Precip	0.60	1.84	1.71	4.15
Departure from Norm	-0.93	+0.51	+0.71	+0.29
Total Snowfall	9.0	9.5	14.0	32.5
Departure from Norm	+2.3	+5.5	+11.3	+19.1
Lewiston Airport	Dec	Jan	Feb	Total
Avg High Temp	34.6	31.5	44.3	36.8
Departure from Norm	-4.9	-10.1	-2.2	-2.5
Avg Low Temp	22.7	20.8	29.9	24.5
Departure from Norm	-5.3	-8.8	-1.0	-5.0
Total Precip	1.59	0.81	1.97	4.37
Departure from Norm	+0.62	-0.27	+1.21	+1.56
Total Snowfall	19.7	6.7	8.0	34.4
Departure from Norm	+16.2	+4.3	+5.9	+26.4
Spokane Airport	Dec	Jan	Feb	Total
Avg High Temp	29.2	27.0	36.0	30.7
Departure from Norm	-3.0	-7.4	-3.6	-4.7
Avg Low Temp	16.9	13.4	22.5	17.6
Departure from Norm	-5.6	-11.3	-3.9	-6.9
Total Precip	1.49	1.85	4.39	7.73
Departure from Norm	-0.81	+0.06	+3.06	+2.31
Total snowfall	19.0	13.5	19.8	52.3
Departure from Norm	+4.4	+2.1	+13.0	+19.5

Winter Weather Statistics

This winter finished colder than normal and slightly wetter than normal. The cold was most pronounced in the Columbia Basin which finished in the bottom 10% for winter mean temperature. The wettest conditions occurred to our south with parts of California into Wyoming having the wettest winter on record. A Jeremy Wolf



2016-17 Winter in Review

I e have gone through a season of changes since including October with the full force of winter. After a record freezing rain, and wet October, and one of the warmest November's on sleet. The Columrecord, some may have wondered what kind of winter we bia would have. Well let's take a look.

December started off relatively quiet with weaker storms brought bringing occasional rounds of light snow. The weather rain with accumupattern then turned much more active as colder air from lations up to 0.75". Frozen Lake Coeur d'Alene-January 2017 Canada met a strong Pacific jet stream ushering in storms Kendrick and Julietta were also hard hit with up to 0.50" of from the west. Lewiston was hit especially hard with 19.7" ice. The Spokane area saw a wintry mix while mostly snow of snow, making it the snowiest December on record! The occurred in the northern valleys and Cascades. This storm first storm tracked into Oregon but a band of heavy snow resulted in numerous slide-offs and accidents, including a set up on the north side of the storm giving Lewiston 7.6" closure of Interstate 90 in the Columbia Basin near Vantage, on and 15th. Arctic air then surged south on the 16th & 17th and over 4th of July Pass in the Idaho Panhandle. Ouieter bringing temperatures down to near or slightly below zero weather occurred for the remainder of the month. After a for most towns. Colder spots include -12°F for Pullman and brief warm-up, colder air returned for the end of the month Coeur d'Alene, -11°F in Republic, -10°F in Mazama, and with even light snow in some areas. A localized band of -7°F in Spokane. On the 19th and 20th a stronger storm heavy snow hit St. John and Colfax with 4-6" of snow. brought widespread moderate to heavy snow along the East Slopes of the Cascades with 17" in Stehekin and 14" in February remained active with much wetter than normal Mazama, as well as NE Washington and the Idaho Panhan- conditions with periods of snow, rain, and freezing rain. dle with 8" in Newport. Windy conditions also occurred in Spokane had its 2nd wettest February with 4.39" of some spots with gusts of 54 mph in Lewiston, 46 mph in precipitation. Bonners Ferry had its 2nd snowiest February Pullman and 43 mph in Spokane. On the 23rd a stalled front with 44.3". The first active period occurred from the 3rd brought heavy snow from the Palouse up through NE Wash- through the 6th as cold air from Canada once again collided ington with 8" in Clayton, 7" in Worley, and 4-6" in the with moist air from the Pacific. Spokane recorded its Spokane area. Across SE Washington into the southern heaviest snow of the season on the 3rd and 4th with 8.6". Panhandle, 2-5" of snow fell with 7" in Nez Perce. Another Bonners Ferry stayed on the cold side of this storm with an storm on the 26th and 27th brought 2-5" of snow and windy impressive 30" of snow! The next storm on the 8th resulted conditions once again for the Palouse and Spokane area.

January was very winter-like with the first half of the Coeur d'Alene and Springdale. Areas further north got month featuring periods of very cold temperatures as arctic snow with 6" in Northport and another 9" in Bonners Ferry. air again invaded the region from the 2nd through the 6th and In the Cascades, all of this precipitation fell as snow. From again from the 12th through the 16th. Deer Park dropped to the 3rd through the 9th snow amounts include 56" in Stehe--19°F on the 5th with -13°F in Newport. In between these kin, 25" in Plain and Mazama, 12-15" Wenatchee, and 9" periods of very cold generally dry conditions, Pacific Okanogan. Elsewhere warmer weather on the 9th brought moisture entered the picture bringing snow on New Years rain. However the prolonged cold winter and frozen rivers Day, and again from the 7th through the 9th. The New Years resulted in ice jams on the St. Joe River with water over Day snow brought variable totals as cold, unstable air roads in Calder. Widespread light freezing rain occurred moved overhead. Mission Ridge south of Wenatchee was during the morning of the 15th from the Cascades to the especially hard hit with 39" of snow. The Loon Lake, Elk, Idaho Panhandle creating very icy roadways. Then warmer Sacheen Lake and Diamond Lake areas of NE Washington air resulted in several rounds of rain through the 20th. A were a second winner with 9-12" of snow. After more snow combination of rain/snow melt led to several road washouts fell from the 7th through the 9th, strong north winds down in SE Spokane county. Hangman/Latah Creek reached the Okanogan Valley into the Moses Lake area created minor flood stage early on the 17th. The pattern turned significant drifting snow resulting in the closure of High- colder to finish out the month. A small system hit the way 2 between Coulee City and Waterville. As the Inland Lewiston area early on the 27th with 4" of snow. The last NW transitioned out of the deep freeze, a significant shot of few days of the month bands of heavy snow showers set up precipitation entered the region from the southwest on the with 10" in Naples and 12-15" in Saint Maries. 17^{th} and 18^{th} . This brought a wide variety of weather Wolf

snow. Basin was hardest hit where ice storm an freezing



in warm moist air overriding cold air with snow changing to freezing rain with 0.25" of ice at Spokane with 0.50" in

Remember your New NWS web page Images from GOES 16 **Spring Spotter** The NWS web page will be getting a new Checklist look. This new version is tentatively set to launch on April 4, 2017. The page will have a Tornado or Funnel Cloud more uniform and standardized look with other Hail: pea size or larger NWS pages in the country. It will have a mobile-ready landing page. If you use any book-Strong Winds: mark for your point & click forecast, prepare 30mph+ or damage that they will need to be redone after the Reduced Visibility: launch date. In addition, you will be able to under a mile due to fog, snow ... create a widget app for your smartphone that will allow you to see your forecast at a touch of Heavy Rain: a button. For more details on the new page, Showery: 1/2" + in 1hr please visit https://forecast-v3.weather.gov/ Steady: 1"+ in 12hr/1.5"+ in 24hr documentation?redirect=legacy 🔅 Robin Fox Snow: 2"+ valleys & 4"+ mountains 😴 💸 NATIONAL WEATHER SERVICE Any Flooding FORECAST & PAST WEATHER & SAFETY & INFORMATION & EDUCATION & NEWS mages from the new geostationary weather National Weather Service Glossary satellite, GOES 16 have been released for Any Mixed Precipitation sed by the NWS. Many of these other and have been in use for many years and before many NWS p public viewing. This data is preliminary and Travel Problems or Damage: You can either type i non-operational at this time. For more details due to severe/hazardous weather # A B C D E E G H & see more, see http://www.goes-r.gov/ 🌣 Warning : Severe or hazardous weather is likely Watch : Conditions are favorable for severe or or is occurring in the warned area. hazardous weather around the watch area. CAUTION—Watch the Sky! DANGER—ACT NOW!

The Weather Watcher Of the Inland Northwest



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Trivia: How many times has the Spokane River reached a Moderate Flood Level or greater?