The Month In Review

March 2019

National Weather Service Pendleton, Oregon

March, 2019 Climate Summary

March 2019, like February, was cold and snowy, at the start of the month. In fact, during the first 6 days in March, the official high temperature at the Pendleton Airport never got above 27 degrees F. The lowest temperature for the entire winter season occurred on March 5th, with a shattering record low temperature of 1 degree F. This was about 32 degrees below normal. The previous record for March 5th was 9 degrees warmer at 10 degrees F. Many other locations also had record low temperatures during the first 6 days of March. Snow was more than an inch deep at the Pendleton Airport all the way until March 13th, which is almost half way through the month. The weather finally warmed up to normal or above normal by March 17th, with long standing piles of snow finally all melted by the last week of the month. Below are a few images during the month to show how the month looked like.



Snowy view of Pendleton, OR on March 7th before the first thaw of March (temp > 32 F).

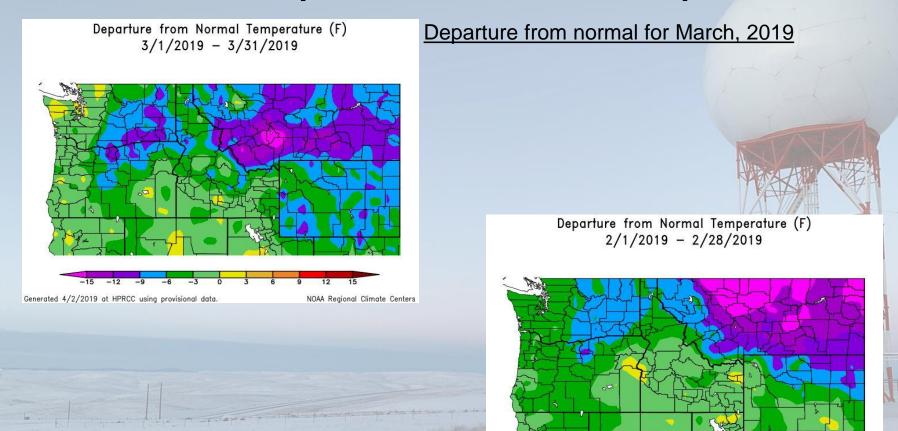


Last heavy burst of snow of the season on March 12th, 2019.



Interesting stratus clouds hanging over the Pendleton Airport at night on March 28th.

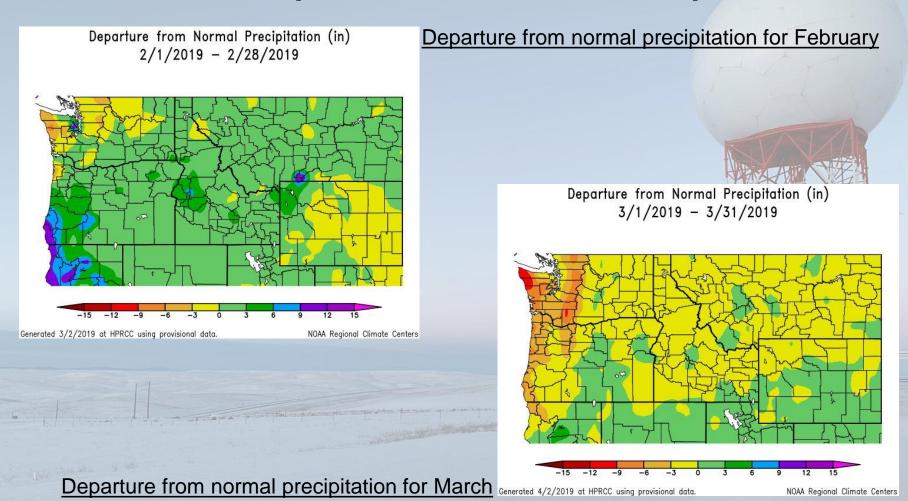
March, 2019 Departure from Normal Temperatures



The images above show that there was not much difference between March and February. There is more area of blue and purple on the map for March, however, indicating it to be colder than normal more so than February was. In this case, the first two weeks of march were much colder than normal, which makes this data valid.

Departure from normal for February, 2019 Generated 3/2/2019 at HPRCC using provisional data.

March, 2019 Departure from Normal Precipitation



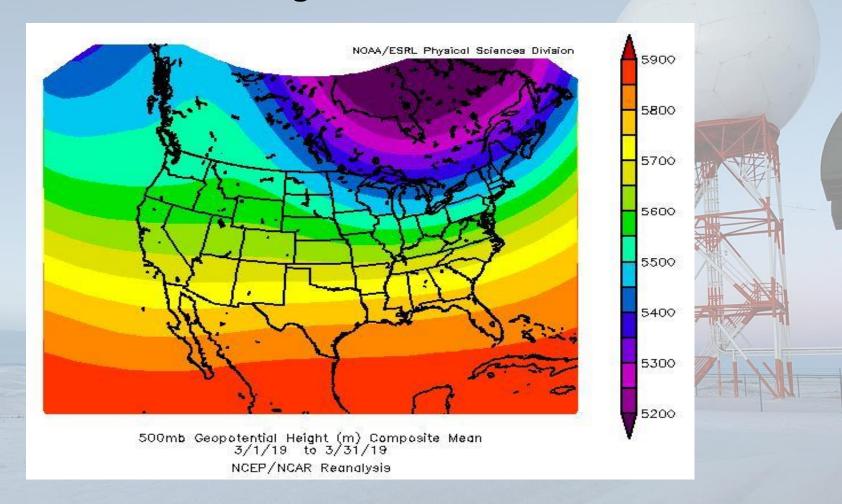
The above images show a comparison of March vs. February, 2019 departure from normal precipitation. As can be seen March was drier with less areas of green on the map than February. This indicates that while there may have been rain events in March, the departure from normal was not as much as February for precipitation.

March, 2019 Averages and Departures from normal For Select Cities

	Max T	Max T D	Min T	Min T D	Ave T	Ave T D	PCPN	PCPN D	SNOW
Yakima	48.2	-8.0	23.5	-6.6	35.9	-7.3	0.61	-0.01	0
Kennewick	47.7	-10.7	27.5	-8.9	37.6	-9.8	0.49	-0.24	3.7
Walla Walla	48.2	-7.0	23.5	-13.9	35.9	-10.4	0.61	-1.69	0
The Dalles	48.6	-8.4	28.5	-8.1	38.6	-8.2	0.35	-0.81	М
Redmond	46.5	-7.3	22.4	-3.6	34.4	-5.5	0.59	-0.07	0
Pendleton Airport	44.9	-10.3	26.3	-8.7	35.6	-9.5	1.23	-0.09	3.1
La Grande	47.5	-3.7	23.9	-6.5	35.7	-5.1	1.19	-0.27	0.5

The data above shows that all locations had below normal average maximum temperatures and average minimum temperatures. Overall the **average** temperatures were below normal too. Precipitation ranged from 0.35 (at The Dalles) to 1.23 inches at the Pendleton Airport. There was some snow at Kennewick, Pendleton and La Grande, However amounts were very light.

March, 2019 Average 500 MB Weather Pattern



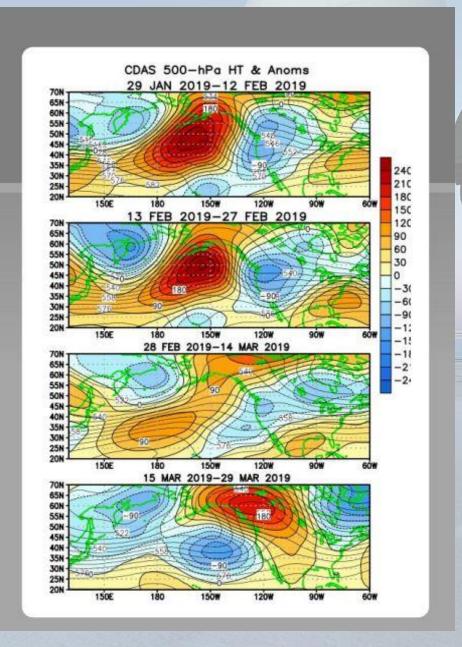
The flow over the Pacific Northwest was mostly west to southwest on average for the month. However, the more detailed analysis of the 500 mb heights will show that the beginning of the month there was more of a trough pattern with colder and wetter than normal conditions. The second half of the month warmed up and was drier in which when most of the ridging took place.

More Detailed 500 MB Plots for February & March, 2019

Atmospheric anomalies over the North Pacific and North America During the Last 60 Days

From early February to mid March, an anomalous ridge strengthened over the Gulf of Alaska, and a downstream amplified trough was present over Canada and the northern U.S. These conditions have contributed to well above-average temperatures in Alaska, and to below-average temperatures across much of Canada and the U.S.

Since mid March, anomalous ridging has been strongest over western Canada, resulting in above-average temperatures over this region.



Local Storm Reports of Significant Weather Events

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PRELIMINARY LOCAL STORM REPORTS
NATIONAL WEATHER SERVICE PENDLETON OR
516 PM PST WED MAR 6 2019
..TIME... ...EVENT... ...CITY LOCATION... ...LAT.LON...
..DATE... ....MAG....
                      ...COUNTY LOCATION..ST.. ...SOURCE....
       ..REMARKS..
0500 PM SNOW
                       5 ENE YAKIMA
                                         46.61N 120.43W
03/06/2019 M2.2 INCH
                         YAKIMA
                                       WA TRAINED SPOTTER
       SPOTTER REPORTED 2.2 INCHES OF NEW SMOW AND 8 INCHES OF
       SNOW DEPTH. CURRENTLY FLURRIES.
       4.0 INCHES NEW SNOW IN 12 HOURS. CURRENTLY 35 DEG WITH
       VERY LIGHT FINE SNOW.
129 PM PST SAT MAR 9 2019
..TIME... ...EVENT... ...CITY LOCATION... ...LAT.LON...
..DATE... ...MAG... ..COUNTY LOCATION..ST.. ...SOURCE....
       ..REMARKS..
0850 AM HEAVY SNOW
                       2 SSW GRASS VALLEY
                                               45.34N 120.79W
03/09/2019 M7.0 INCH
                         SHERMAN
                                        OR TRAINED SPOTTER
629 AM PDT SUN MAR 24 2019
..TIME... ...EVENT... ...CITY LOCATION... ...LAT.LON...
..DATE... ...MAG... ..COUNTY LOCATION..ST.....SOURCE....
       ..REMARKS..
0626 AM HEAVY RAIN
                        4 ESE PILOT ROCK
                                            45.46N 118.75W
03/24/2019 M0.80 INCH
                         UMATILLA
                                        OR TRAINED SPOTTER
       0.8 OF AN INCH THE PAST 12 HOURS
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There were 3 events which required a Local Storm Reports in March, 2019. The first was a snow event on the 6th, then another snow event on the 9th, and finally a rain event on March 24th.

Record Weather Events During March, 2019

	STATION	PREVIOUS	NEW	RECORDS	
		RECORD/YEAR	RECORD	BEGAN	
March 16th	NEW DAILY RECO	ORD LOW TEMPER	ATURES FOR M	ARCH 16TH	
	PENDLETON(ARPT)	, OR 26 / 195	5 26 (TIED)	1934	
March 15th	NEW DAILY RECO	ORD LOW TEMPER	ATURES FOR M	ARCH 15TH	
	*LA GRANDE(CITY)	, OR 22 / 1985	21 18	387	
	*LONG CREEK, OR	14 / 1988	11 190)8	
	*SISTERS, OR	15 / 2002	11 1958		
March 8th	NEW DAILY RECO	ORD LOW TEMPER	ATURES FOR M	ARCH 8TH	
	PASCO, WA	20 / 1931	18 1948		
	*PELTON DAM, OR	17 / 1974	16 19!	58	
	*SISTERS, OR	9 / 1974	8 1958		
	*GOLDENDALE, WA	20 / 1969	15 19	005	
	*SATUS PASS, WA	13 / 2009	9 1967	7	
	WALLA WALLA, WA	27 / 2002	25 (TIED)	1930	
	YAKIMA,WA				
March 9th	NEW DAILY RECO	ORD LOW TEMPER	ATURES FOR M	ARCH 9TH	
	MEACHAM, OR	6 / 2009	6 (TIED) 192	29	
	PENDLETON(ARPT)	, OR 23 / 1948	8 19 °	1934	
	*GOLDENDALE, WA	16 / 1951	16 (TIED)	1905	
	*SATUS PASS, WA	14 / 2009	11 196	7	
	WALLA WALLA, WA				
	*WHITMAN MISSION	N, WA 21 / 2012	2 20	1962	
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Record Weather Events During March, 2019 (continued)

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*SATUS PASS, WA 13 / 2009 9 1967			
WALLA WALLA, WA 27 / 2002 25 (TIED) 1930			
YAKIMA,WA 7 / 1951 7 (TIED) 1909		YAKIMA.WA 7 / 1951 7 (TIED) 1909	
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March 6thNEW DAILY RECORD LOW TEMPERATURES FOR MARCH 6TH	March 6th	NEW DAILY RECORD LOW TEMPERATURES FOR MARCH 6TH	
PENDLETON(ARPT), OR 19 / 1943 18 1934			
THE DALLES, OR 22 / 1976 22 (TIED) 1929		` ,:	
WALLA WALLA, WA 24 / 2009 20 1930		,	

Record Weather Events During March, 2019 (Continued)

March 5th	NEW DAILY RECORD LOW TEMPERATURES FOR MARCH 5T	Н
	*LONG CREEK, OR 11 / 1998 3 1908	
	MEACHAM, OR -4 / 1955 -6 1929	
	*PELTON DAM, OR 16 / 1976 16 (TIED) 1958	
	PENDLETON DTWN, OR 12 / 1955 1 1916	
	HERMISTON (ARPT), OR 8 / 1955 0 1906	
	PENDLETON (ARPT), OR 10 / 1955 1 1934	
	THE DALLES, OR 14 / 1955 6 1929	
	*DAYTON(CITY), WA 6 / 1955 4 1879	
	*GOLDENDALE, WA -3 / 1955 -4 1905	
	*KENNEWICK, WA 10 / 1955 9 1884	
	HANFORD (HMS), WA 6 / 1955 5 1945	
	WALLA WALLA, WA 10 / 1955 7 1930	
	*WHITMAN MISSION, WA 11 / 1976 0 1962	
	YAKIMA, WA 7 / 1955 5 1909	
March 4th	*LONG CREEK, OR 12 / 2015 12 (TIED) 1908	
	*MORO, OR 10 / 1960 8 1897	
	*PELTON DAM, OR 17 / 1960 16 1958	
	*SISTERS, OR 12 / 1967 9 1958	
	THE DALLES, OR 15 / 1960 8 1929	
	*GOLDENDALE, WA 7 / 1955 1 1905	
	*KENNEWICK, WA 14 / 1896 8 1884	
March 3rd	NEW DAILY RECORD LOW TEMPERATURES FOR MARCH 3R	D
	THE DALLES, OR 18 / 1960 16 1929	
	*GOLDENDALE, WA 12 / 1960 12 (TIED) 1905	
March 1st	NEW DAILY RECORD LOW TEMPERATURES FOR MARCH 15	T
	*PELTON DAM, OR 10 / 1993 9 1958	
	*SISTERS, OR -1 / 1996 -9 1958	
	*GOLDENDALE, WA 10 / 1922 4 1905	
	*KENNEWICK, WA 13 / 1917 13 (TIED) 1884	
AND RESIDENCE AN		



March 2019 Observed Monthly Highest Max & Min Temperatures

Location	Highest Maximum Temperature	Lowest Minimum Temperature
Pendleton, OR	66	1
Redmond, OR	69	7
Pasco, WA	71	-1
Yakima, WA	69	4
Walla Walla, WA	67	7
Bend, OR	63	8
Ellensburg, WA	68	0
Hermiston, OR	72	0
John Day, OR	63	12
La Grande, OR	63	9
The Dalles, OR	69	6
MT Adams RS, WA	63	-3

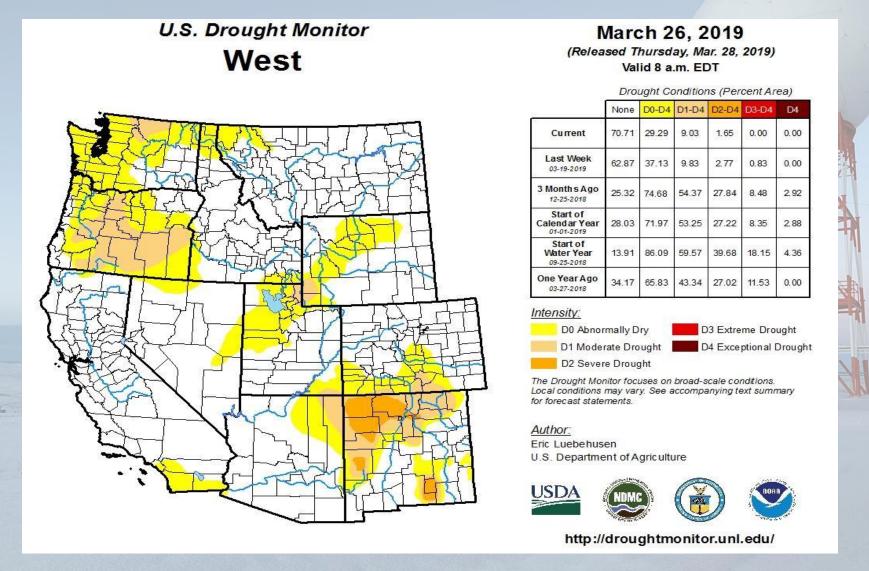
Every station had a maximum temperature of 60 or greater. The lowest minimum temperature were all below 10 degrees F, except 12 F at John Day.

March, 2019, Monthly Total Precipitation Totals

Location	Total Monthly Precip	Total Snowfall or Hail
Pendleton. OR	1.23	3.1
Redmond, OR	0.59	0
Pasco, WA	0.47	0
Yakima, WA	0.61	0
Walla Walla, WA	1.27	0
Bend, OR	0.50	M
Ellensburg, WA	0.37	M
Hermiston, OR	0.20	0
John Day, OR	0.54	Т
La Grande, OR	1.19	0.5
The Dalles, OR	0.35	M
Mt Adams RS, WA	0.72	6.5

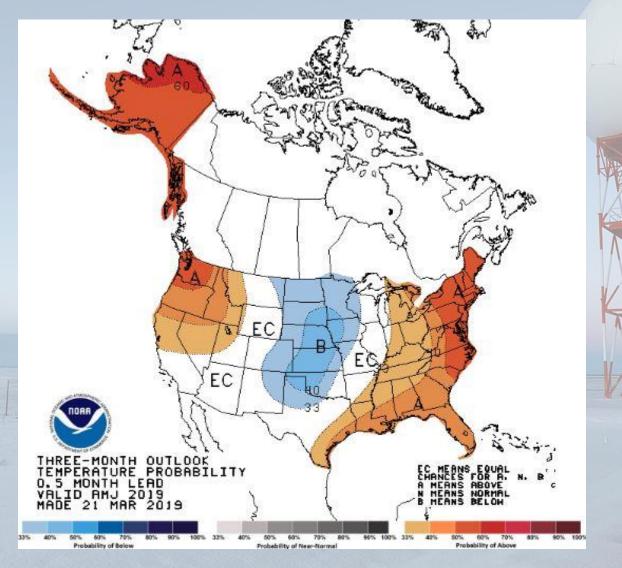
All stations, except 3, had less than an inch for precipitation. Pendleton, John Day, La Grande, and the Mt Adams Ranger Station all had snow in March. However, most reported either zero snow or missing.

End of March, 2019 - Drought Monitor



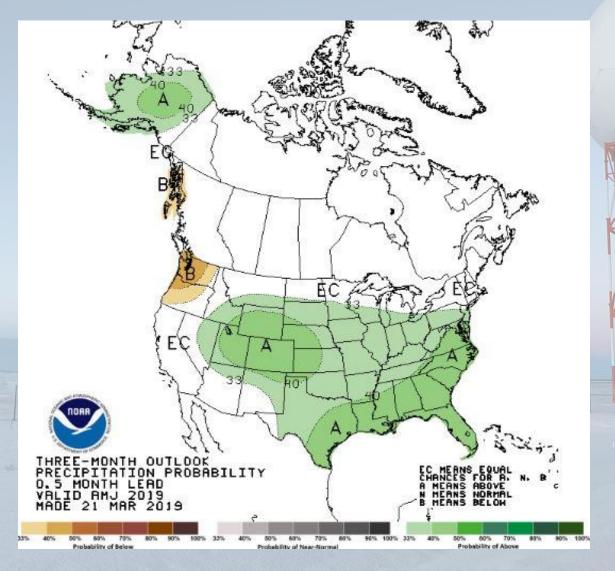
At the end of March, 2019, the drought monitor shows that the Forecast Area was mostly in a non-drought in the northeast Forecast Area, to a moderate drought in south and central Forecast Area.

Three Month Temperature Outlook (April, May & June)



The temperature outlook for the next three months shows that there is about a 40-60 % probability of having above normal temperatures over the Pacific Northwest and the entire Forecast Area (northeast OR, southeast WA).

Three Month Precipitation Outlook (April, May & June)

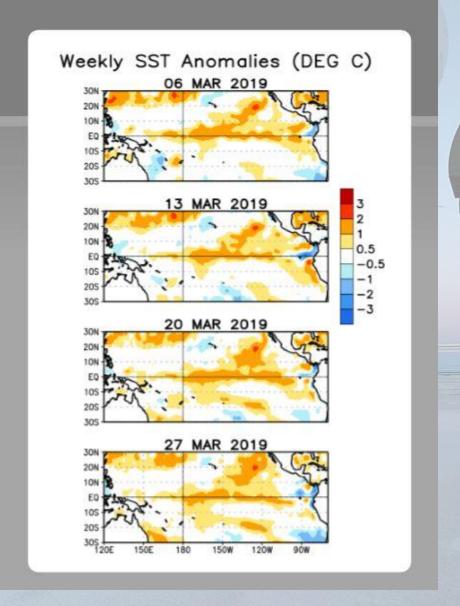


The precipitation outlook for the next three months shows that there is a 33-40 % probability of having below normal precipitation for the next 3 months. The driest areas will be the northwest Forecast Area.

Sea Surface Temperatures from March 6th until March 27th, 2019

Weekly SST Departures during the Last Four Weeks

During the last four weeks, above-average SSTs have persisted across most of the equatorial Pacific Ocean.



This would show that the region is still under an El-Mino pattern. The warmest Pacific Water temperatures were above normal along the equator and also off the California Baja.



Thank You!