

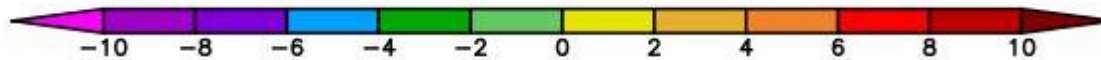
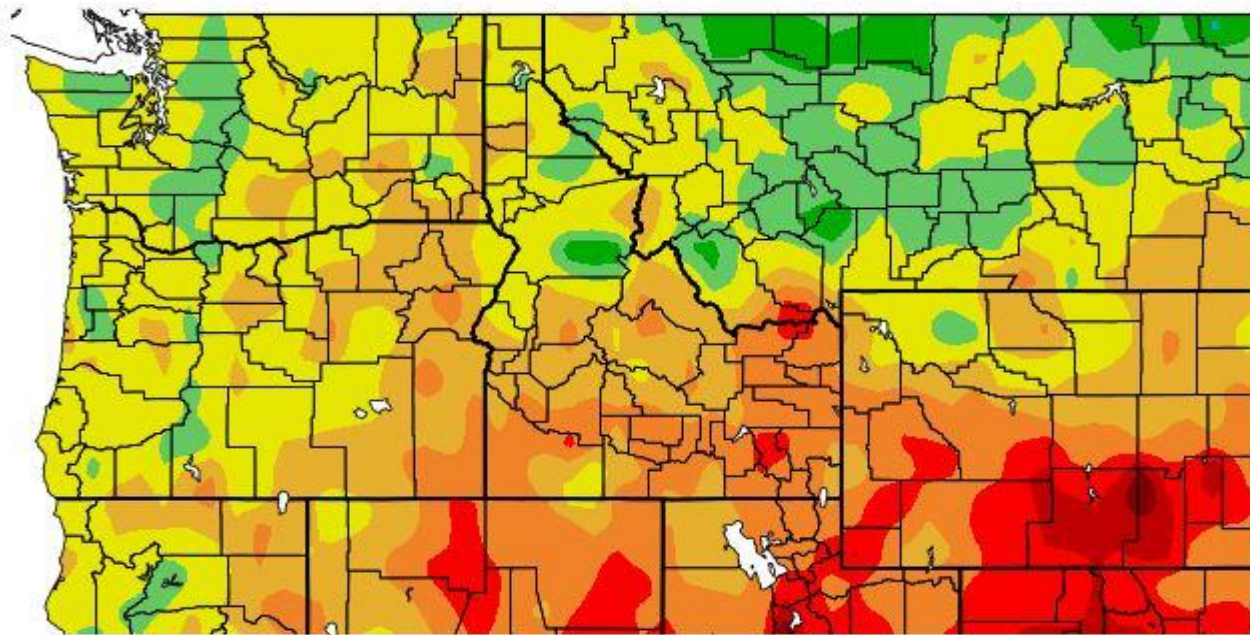
# The Month In Review

**November 2017**

National Weather Service  
Pendleton, Oregon

# Departure from Normal Temperatures

Departure from Normal Temperature (F)  
11/1/2017 - 11/30/2017

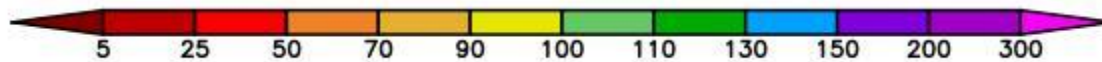
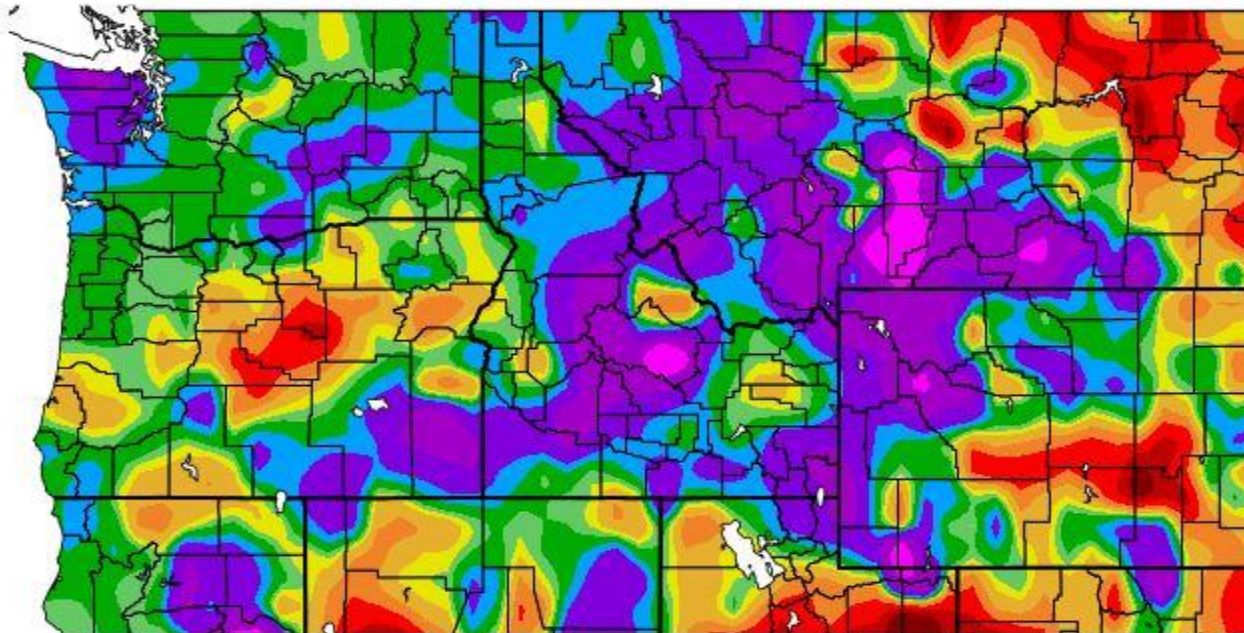


Generated 12/6/2017 at HPRCC using provisional data.

NOAA Regional Climate Centers

# Percent of Normal Precipitation (%)

Percent of Normal Precipitation (%)  
11/1/2017 - 11/30/2017



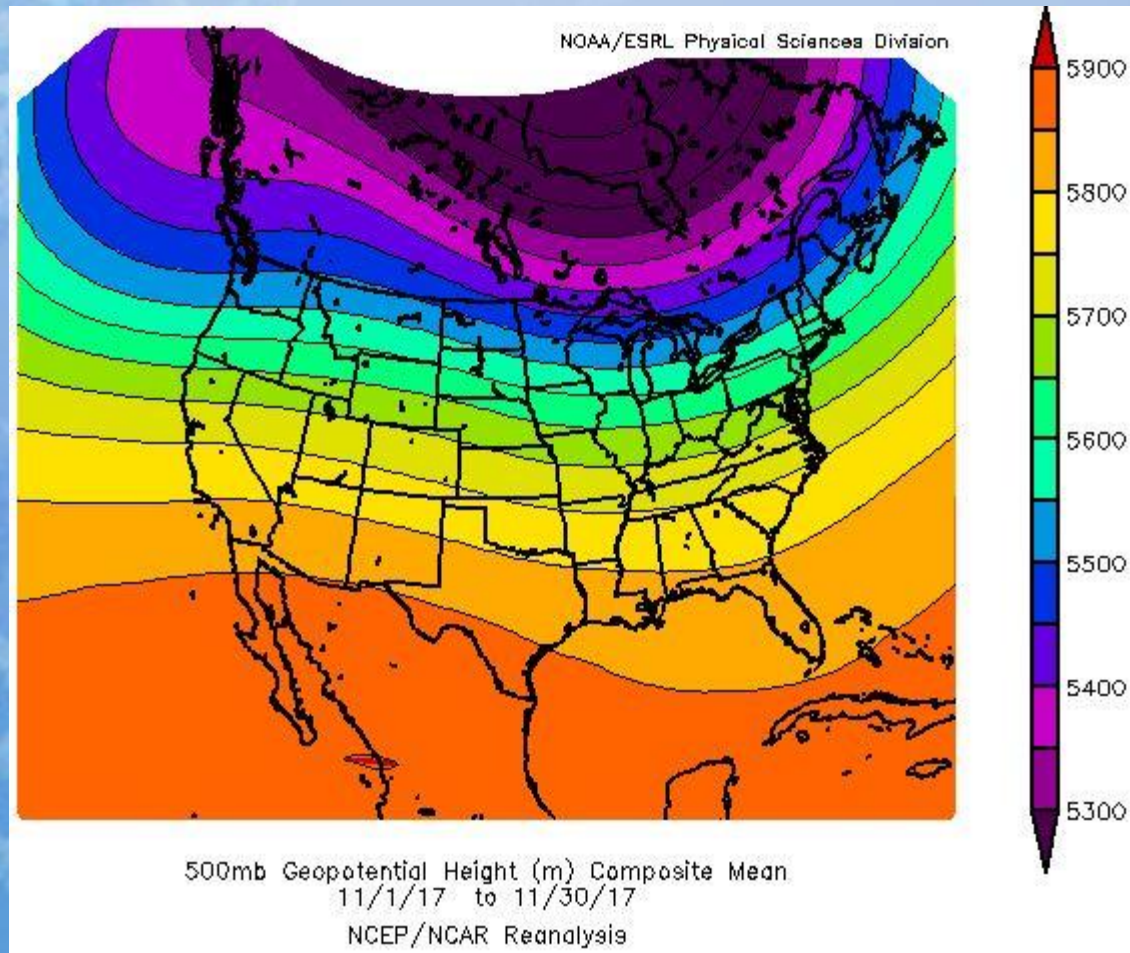
Generated 12/6/2017 at HPRCC using provisional data.

NOAA Regional Climate Centers

# Select November Averages and Departures

	Max T	Max T D	Min T	Min T D	Avg T	Avg T D	PCPN	PCPN D
Yakima	50.1	2.2	32.3	5.5	50.1	2.2	1.14	0.09
Kennewick	53.0	2.4	36.8	1.3	44.9	1.8	1.3	0.30
Walla Walla	51.7	3.2	37.6	2.4	44.7	2.8	2.88	0.01
The Dalles	51.6	1.3	37.3	1.6	44.5	1.5	2.20	0.04
Redmond	51.5	2.6	28.5	2.7	40.0	2.6	0.47	-0.49
Pendleton Airport	51.9	2.7	34.6	0.6	43.0	1.7	1.56	0.04
La Grande	50.0	0.38	32.5	2.6	41.2	3.2	2.08	0.05

# November 2017 Average Weather Pattern



The upper level pattern (500 mb) was generally from the west-southwest. This led to near normal temperatures and precipitation for the month without any extreme cold or warm periods. The warmest day of the month was on Thanksgiving Day when temperatures soared to near 70 degrees F. in the lower elevations, which is not that unusual even for November.

# Record Warm November Temperatures

City	New Record	Previous Record
Pendleton, Airport, OR	70, 11/24	66, 1959
Meacham, OR	60, 11/24	57, 1954
Redmond, OR	67, 11/24	65, 1959
The Dalles, OR	67, 11/24 tied	67, 1929
Yakima, WA	69, 11/24 tied	69, 1959
Hermiston, OR	70, 11/24	69, 1913

# Heavy Snow in the Higher Elevations

Office	Report Time	Report Time UTC	County	Location	ST	Event Type	Mag.	Source	Lat	Lon	Remark
PDT	11/5/17 8:00	11/5/17 16:00	DESCHUTES	5 NNW LA PINE	OR	SNOW	5.00	TRAINED SPOTTER	43.74	-121.54	NEW SNOW ACCUMULATION OF 5 INCHES.
PDT	11/5/17 8:52	11/5/17 16:52	KITTITAS	1 SE ELLENSBURG	WA	SNOW	1.50	TRAINED SPOTTER	46.99	-120.53	SNOW ACCUMULATION SINCE MIDNIGHT.
PDT	11/5/17 10:00	11/5/17 18:00	KITTITAS	EASTON	WA	SNOW	4.00	CO-OP OBSERVER	47.23	-121.18	
PDT	11/5/17 19:15	11/6/17 3:15	UMATILLA	4 NW MEACHAM	OR	SNOW	5.00	TRAINED SPOTTER	45.55	-118.47	5 INCHES OF NEW SNOW SINCE 6AM TODAY. TOTAL SNOW SINCE SATURDAY AFTERNOON IS 8 INCHES. ELEVATION 3735 FEET.
PDT	11/5/17 20:16	11/6/17 4:16	WALLOWA	FLORA	OR	SNOW	5.00	DEPT OF HIGHWAYS	45.90	-117.31	5 INCHES OF NEW SNOW IN THE PAST 24 HOURS. ELEVATION 4360 FEET.
PDT	11/6/17 7:11	11/6/17 15:11	UMATILLA	MEACHAM	OR	SNOW	0.00	DEPT OF HIGHWAYS	45.51	-118.42	THE MEACHAM COOP REPORTED 5 NEW INCHES OF SNOW. ODOT REPORTED BLACK ICE ON THE ROAD THIS MORNING AT MEACHAM AND A VEHICLE ACCIDENT WITH HAZMAT CLEAN UP. WESTBOUND AND EASTBOUND LANES ARE BOTH CLOSED ON THE I 84 FROM MP-216 THROUGH THE OREGON, IDAHO BORDER.
PDT	11/8/17 16:03	11/9/17 0:03	DESCHUTES	2 E TUMALO	OR	FREEZING RAIN	0.10	TRAINED SPOTTER	44.15	-121.30	
PDT	11/9/17 7:30	11/9/17 15:30	JEFFERSON	8 NW TERREBONNE	OR	SNOW	2.00	TRAINED SPOTTER	44.44	-121.27	2 INCHES OF NEW SNOW IN THE PAST 12 HOURS. ELEVATION 2770 FEET.
PDT	11/9/17 8:29	11/9/17 16:29	KITTITAS	1 SE ELLENSBURG	WA	SNOW	2.00	TRAINED SPOTTER	46.99	-120.53	2 INCHES OF NEW SNOW SINCE 3AM. ELEVATION 1758 FEET.
PDT	11/19/17 19:30	11/20/17 3:30	KITTITAS	SW EASTON	WA	HEAVY SNOW	1.50	TRAINED SPOTTER	47.23	-121.18	1.5 INCHES IN ONE HOUR. CURRENTLY 32 DEGREES.
PDT	11/19/17 22:00	11/20/17 6:00	KITTITAS	CLE ELUM	WA	SNOW	3.00	PUBLIC	47.19	-120.93	

Twice during November there were snow events that dropped several Inches of snow over the higher terrain as shown above.

# Monthly Total Precipitation and Snowfall

Location	Total Monthly Precip	Total Snowfall
Easton	8.25"	9.5"
Ellensburg	1.81"	M
Yakima	1.14"	0.4"
Pasco	1.17"	T
The Dalles	2.05"	M
Walla Walla	2.88"	T
Hermiston	0.96"	0.0"
Pendleton	1.56"	0.0"
Redmond	0.47"	T
Meacham	5.56"	13.5"
John Day	1.23"	M
Mt Adams RS	4.48"	2.0"

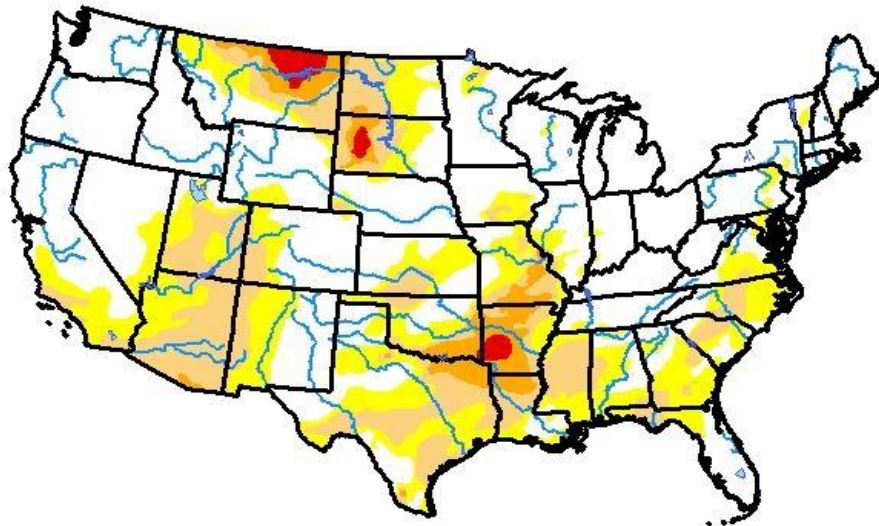


# Monthly Max & Min Temperatures

Location	Highest Maximum Temperature	Lowest Minimum Temperature
Pendleton, OR	70	19
Redmond, OR	67	13
Pasco, WA	70	21
Yakima, WA	69	25
Walla Walla, WA	65	26
Bend, OR	65	19
Ellensburg, WA	56	22
Hermiston, OR	70	18
John Day, OR	70	20
La Grande, OR	60	19
Prineville, OR	67	18
The Dalles, OR	66	27

# U.S. Drought Monitor Continental U.S. (CONUS)

**November 28, 2017**  
(Released Thursday, Nov. 30, 2017)  
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	57.34	42.66	21.14	4.88	1.03	0.00
<b>Last Week</b> 11-21-2017	63.18	36.82	15.40	4.14	0.75	0.00
<b>3 Months Ago</b> 08-29-2017	71.43	28.57	11.82	5.74	2.65	1.21
<b>Start of Calendar Year</b> 01-03-2017	53.89	46.11	22.53	8.63	3.15	0.96
<b>Start of Water Year</b> 09-26-2017	63.07	36.93	13.81	4.99	2.36	0.87
<b>One Year Ago</b> 11-29-2016	43.69	56.31	31.46	16.60	8.66	2.68

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

Author:

David Simeral  
Western Regional Climate Center

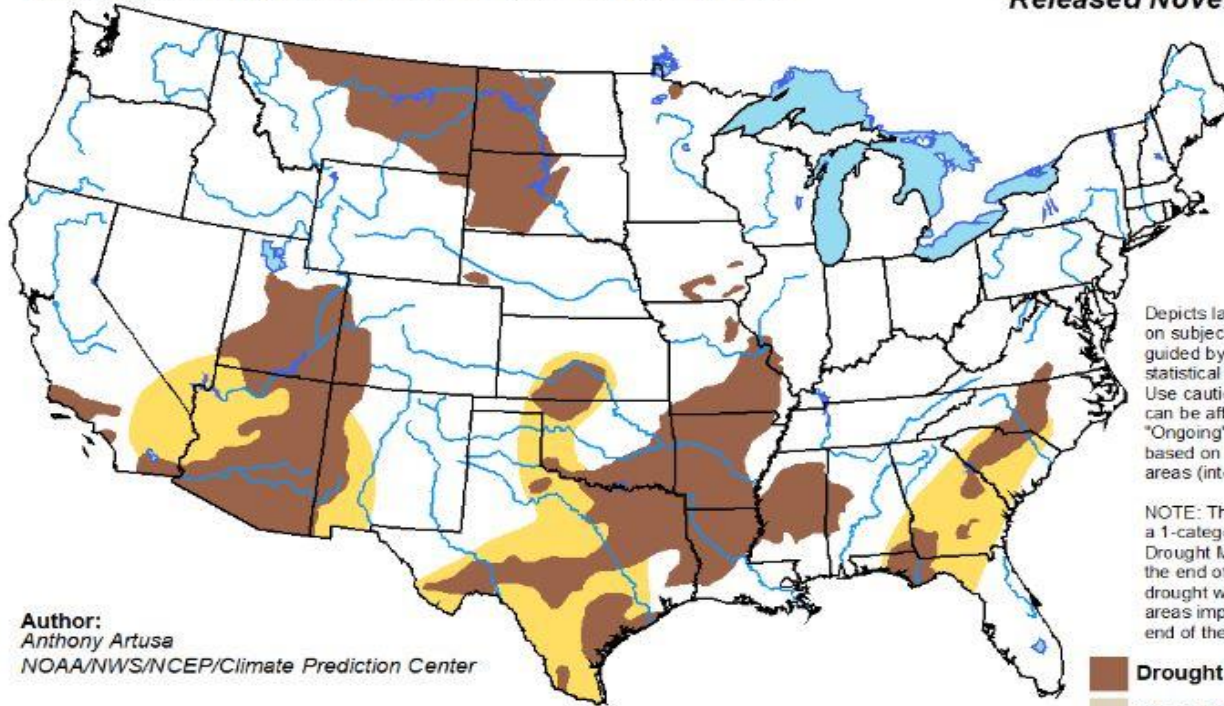


For the most part the Month of November had normal drought conditions. Looking at the map you can see that Oregon and Washington is in the white, indicating normal conditions, as of November 28<sup>th</sup>, 2017.

# U.S. Monthly Drought Outlook

## Drought Tendency During the Valid Period

Valid for December 2017  
Released November 30, 2017

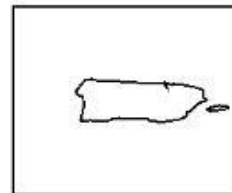


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:  
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NOAA/NWS/NCEP/Climate Prediction Center

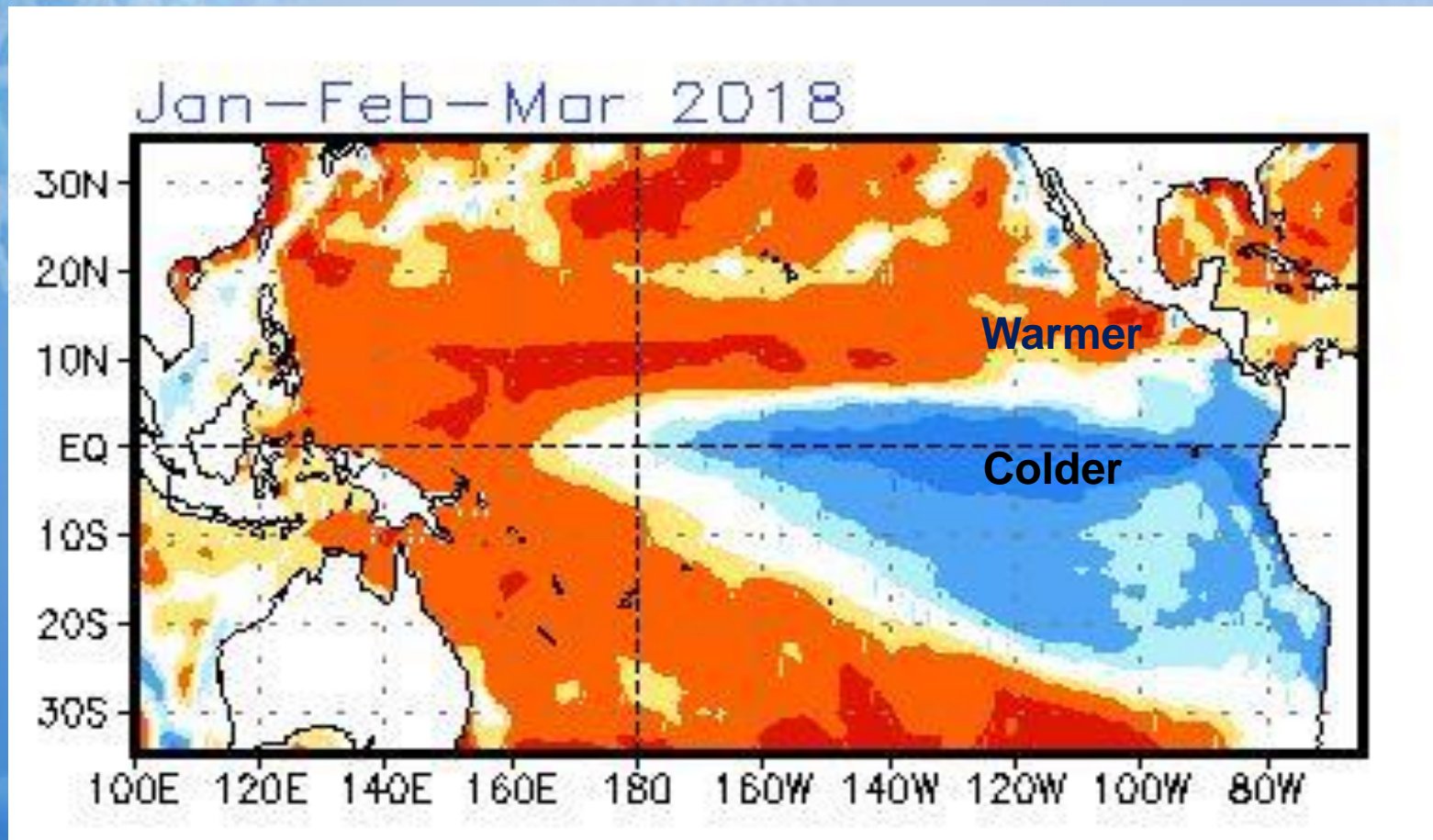
-  Drought persists
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



<http://go.usa.gov/3eZGd>

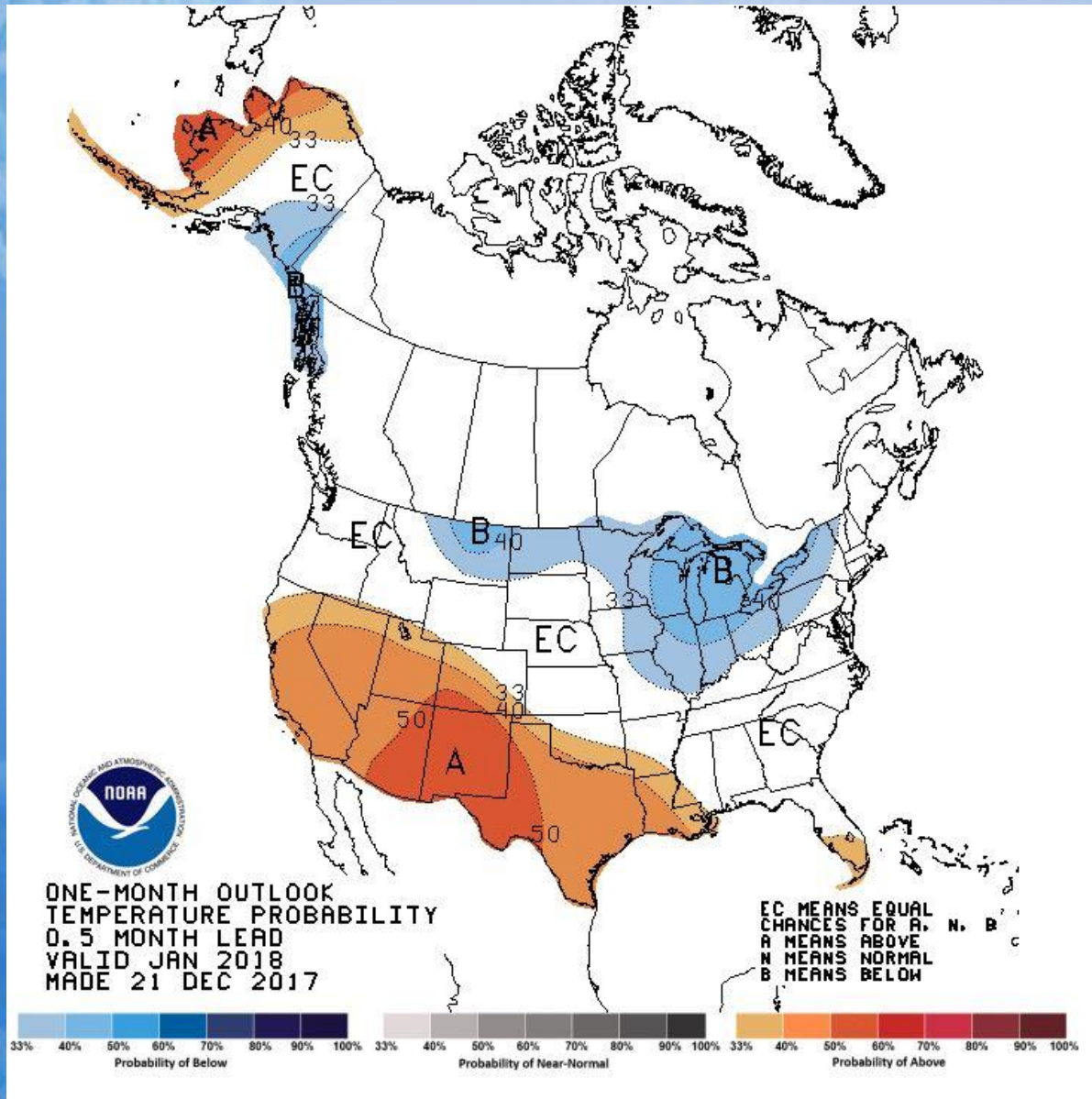
For the month of December, 2017, the drought outlook calls for near normal drought conditions with both Oregon and Washington in the white, indicating Normal conditions.

## Winter El Nino/La Nina Outlook, Jan – March 2018



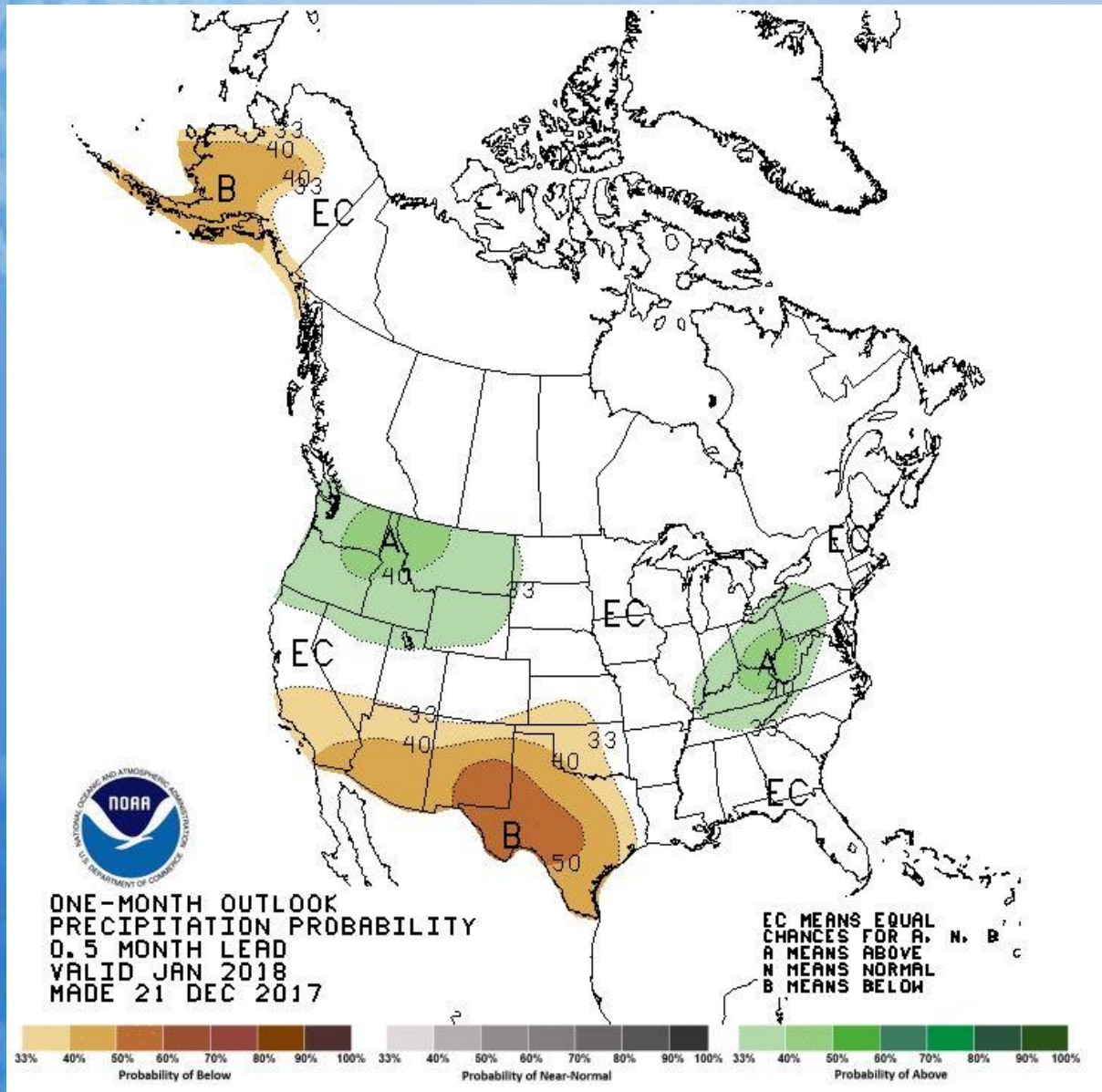
For the winter months of January – March the Sea Surface Temperatures that are in Blue near the equator indicate a somewhat La Nina episode, but the SST's just off the west coast are forecast to be warmer than normal, indicating an El Nino episode. The result is an "in between" or neutral Enso event...i.e. neither an El Nino nor La Nina event.

# January Monthly Temperature Outlook



Through the month of January we can expect equal chances of above or below normal temperatures over the Pacific Northwest.

# January Monthly Precipitation Outlook



Through the month of January we can expect above normal chances of precipitation over Oregon and Washington.



**Thank You!**