



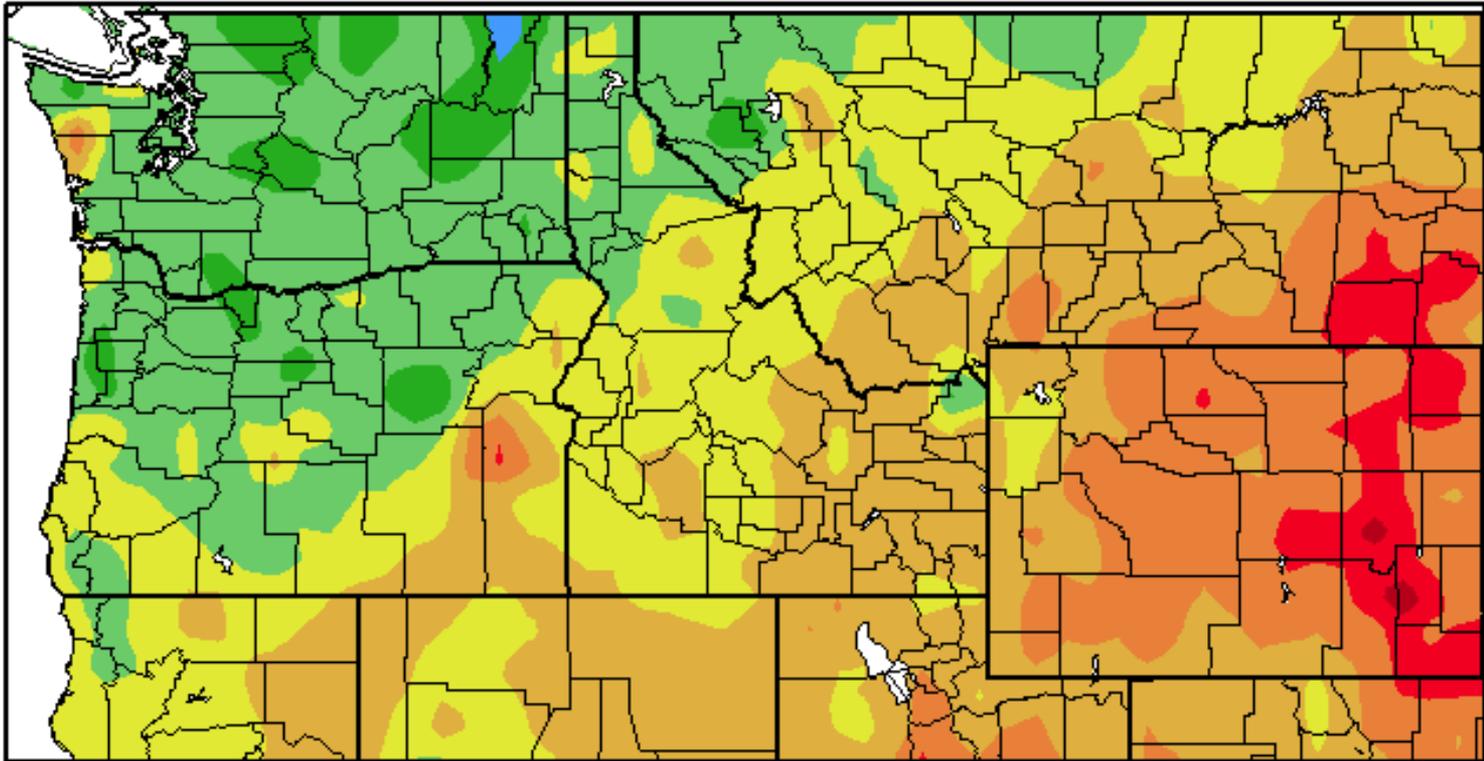
The Month In Review

September 2015

National Weather Service
Pendleton, Oregon

Departure from Normal Temperature (F)

9/1/2015 – 9/30/2015



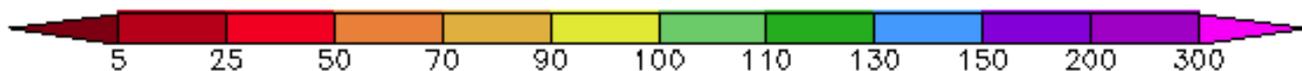
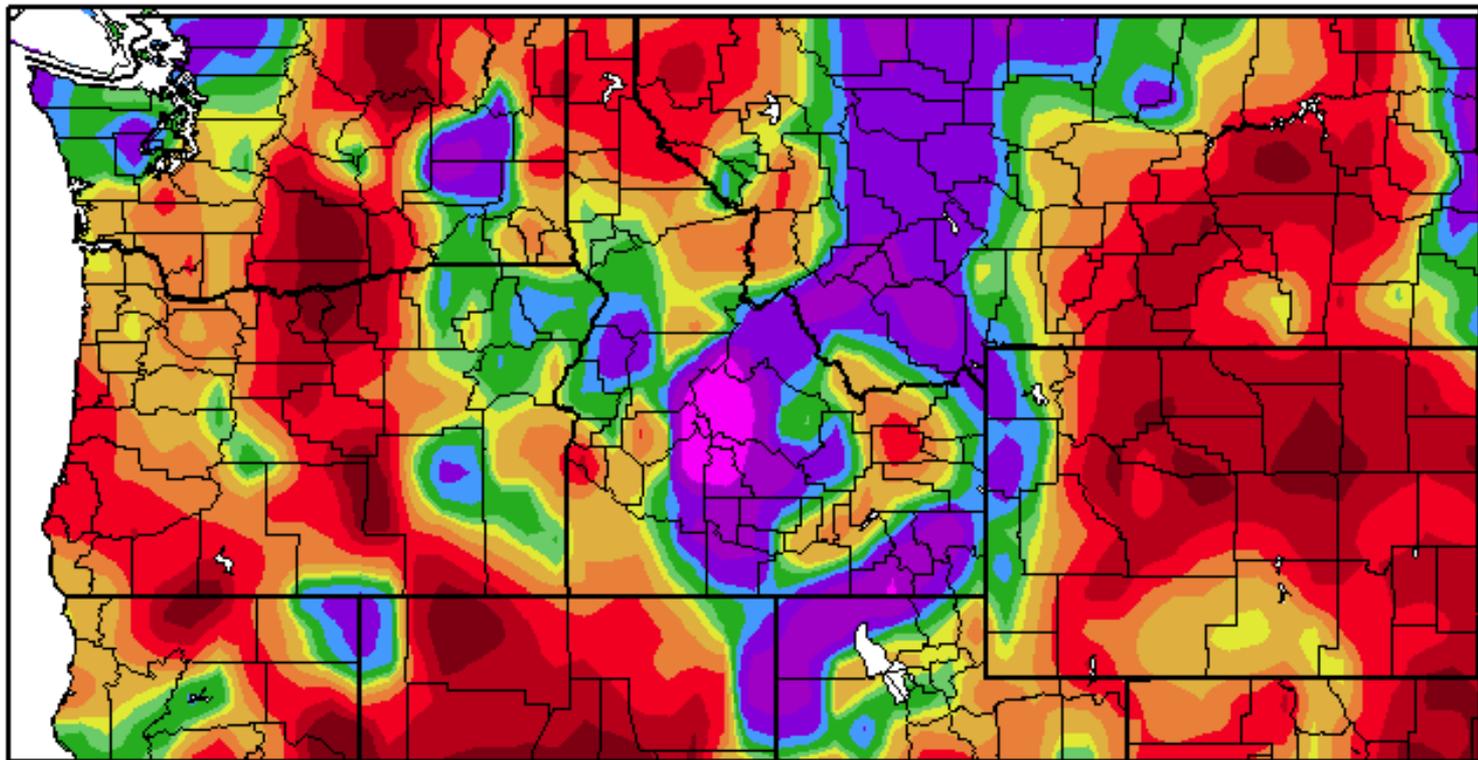
Generated 10/5/2015 at HPRCC using provisional data.

Regional Climate Centers



Percent of Normal Precipitation (%)

9/1/2015 - 9/30/2015



Generated 10/5/2015 at HPRCC using provisional data.

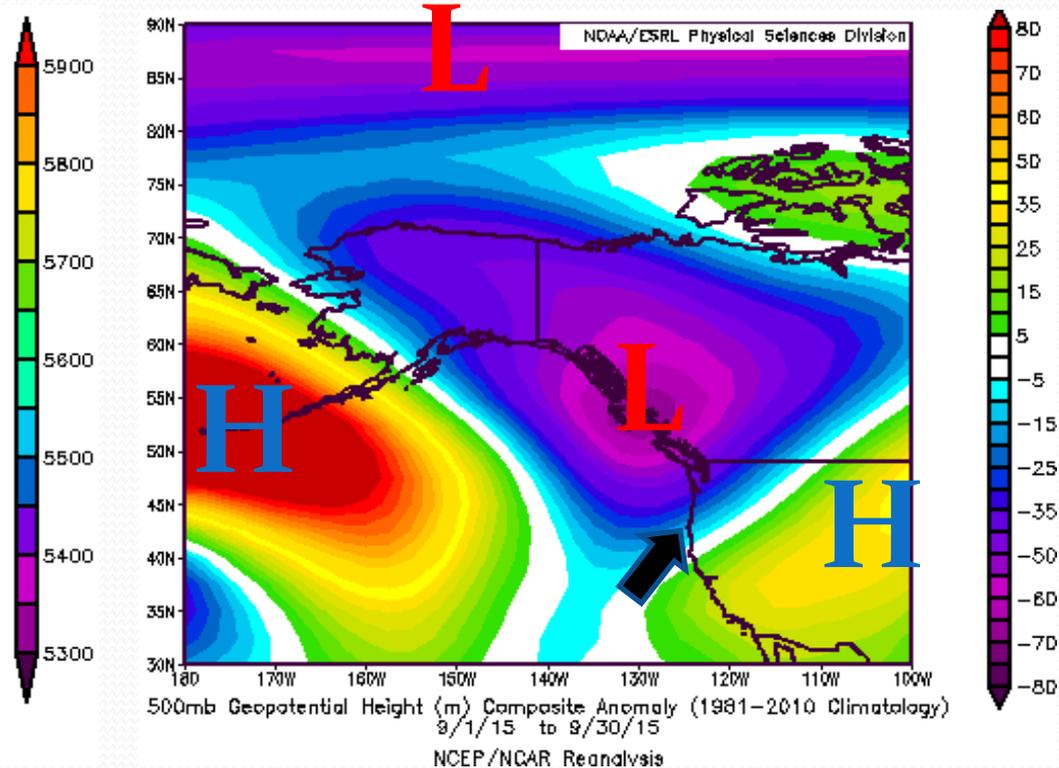
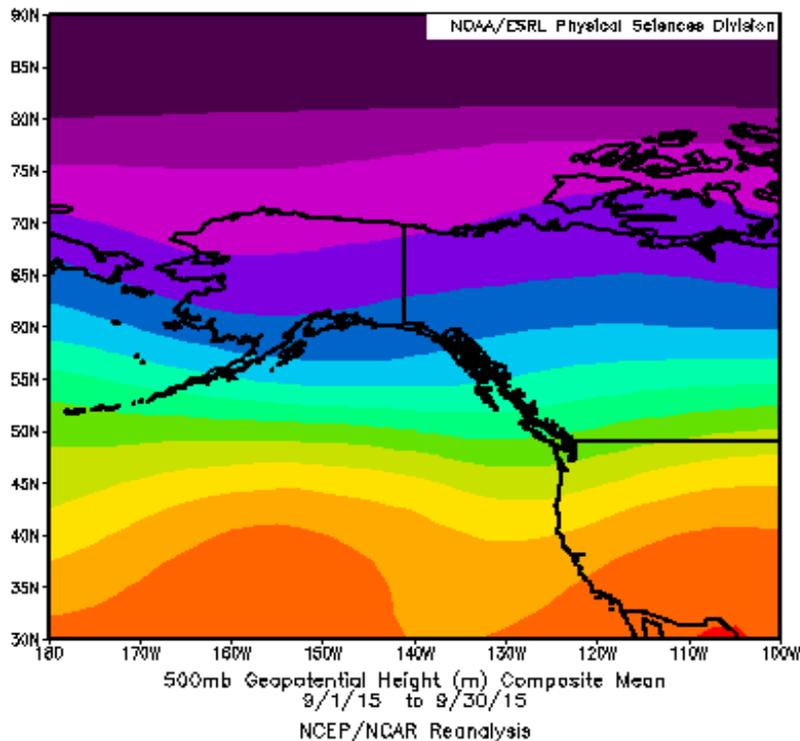
Regional Climate Centers





September 2015

Synoptic Weather Pattern



The mean synoptic pattern for the month of September 2015 was characterized by a large, anomalous trough over NW Canada which extend south into the Pacific Northwest. There was also a large ridge of high pressure centered over the Aleutian Islands, along with a weaker ridge over the Great Plains of the US. This patterned allowed for near normal temperatures and variable precipitation amounts over our area. In general there was near to slightly above average precipitation over the eastern mountains and Blue Mountain Foothills for the month, while below average precipitation amounts prevailed for Central Oregon, north to the Columbia River Gorge, The Yakima Valley and Kittitas Valley.



Top 10 September Record Daily High Temperatures

City	Rank	Sept 2015 Max T	September Max T Record
Long Creek, OR	#2	97 on 9/13	98 on 9/01/1969
Ellensburg, WA	#6	97 on 9/12	99 on 9/11/2011
Meacham, OR	#10	91 on 9/12	97 on 9/03/2003



Top 10 September Record Low Temperatures

City	Rank	Sept 2015 Min T	Coollest Sept Min T
Madras, OR	#3(T)	14 on 9/13	09 on 9/25/1926
Hermiston, OR	#5(T)	31 on 9/28	26 on 9/24/2000
Pasco, WA	#7(T)	33 on 9/28	26 on 9/24/200
Ellensburg, WA	#7(T)	30 on 9/28	26 on 9/23/2000
Meacham, OR	#7	21 on 9/28	14 on 9/28/1999



Top 10 Record Coldest Average Low Temperatures for September

City	Rank	Sept 2015 Avg Min T	Coldest Sept Avg Min T Record
Hermiston, OR	#3(T)	44.8	41.1 in 1999
Meacham, OR	#7	33.3	28.4 in 1999
Ellensburg, WA	#7	43.4	39.9 in 1999
Pasco, WA	#8	46.4	40.8 in 1999
Redmond, OR	#8	35.7	32.4 in 1961



Top 10 Driest Septembers On Record

City	Rank	Sept 2015 Precipitation	Lowest Sept Precipitation
Moro, OR	#4(T)	Trace	0.00" in 1991*
Moxee City, WA	#5(T)	Trace	0.00" in 1999*
Yakima, WA	#6	0.01"	0.00" in 1987
Arlington, OR	#7(T)	Trace	0.00 in 1999*
Bickleton, WA	#8(T)	Trace	0.00 in 2012*
Pasco, WA	#8	0.12"	Trace in 2012, 1999
Goldendale, WA	#9	0.04"	0.00" in 2012*
Ellensburg, WA	#9(T)	0.04"	Trace in 2012*
Hermiston, OR	#10	0.22"	Trace in 2014

* Indicates this record was reached in multiple (more than two) previous years

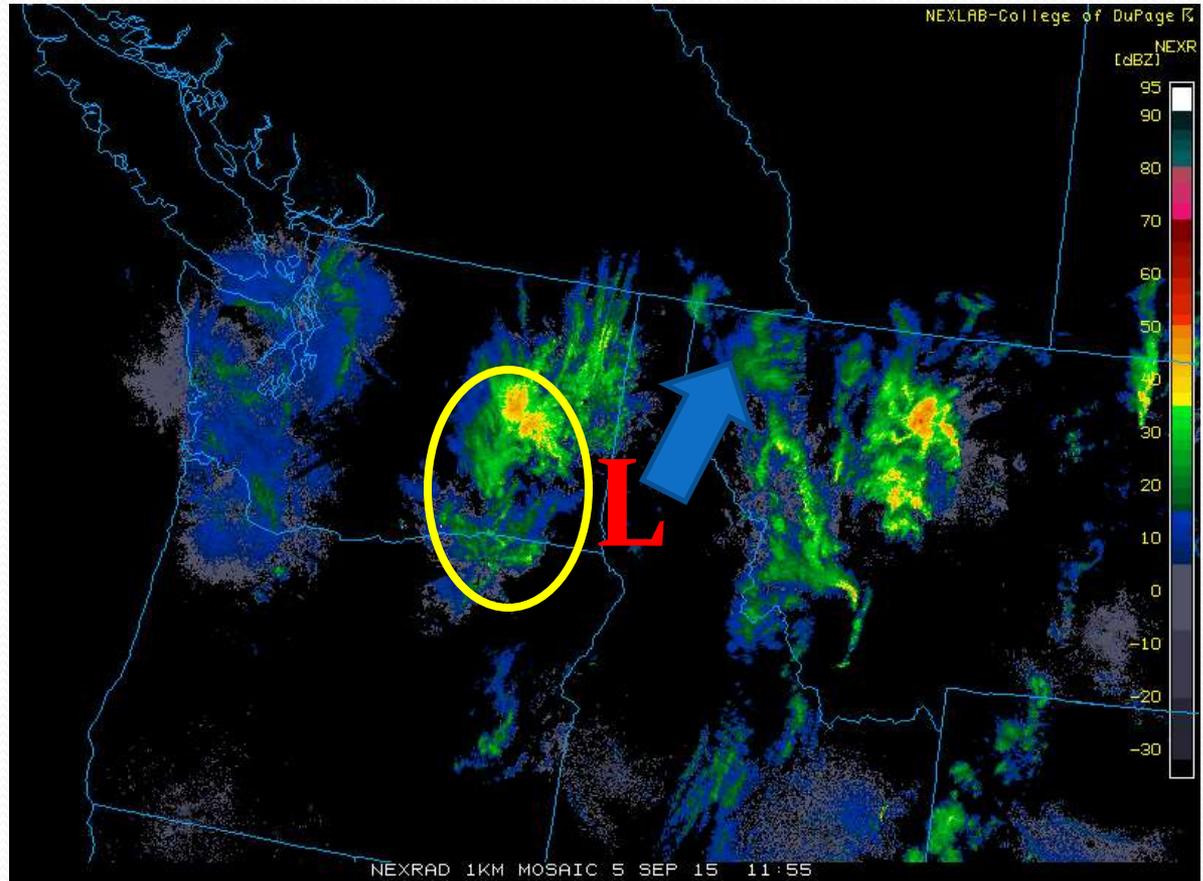


September

Significant Weather

September 3 – 6th Rain Event

Location	Rainfall
Ukiah	1.09"
La Grande	1.08"
Pendleton	0.75"
Long Creek	0.47"
John Day	0.29"
Bend	0.17"
Sisters	0.14"
Prineville	0.14"
Tri-Cities	0.08"
The Dalles	0.04"
Redmond	0.01"
Ellensburg	0.01"
Yakima	Trace



A slow moving upper level low pressure system moved through the area during this period. It had plenty of moisture to work with, and a band of rain developed over much of Eastern Oregon moving slowly north into Eastern Washington. The mountains saw anywhere from 1.00 to 2.50" while the lower elevations had a trace up to 1.00".

September 10 – 13th Warm & Breezy Weather

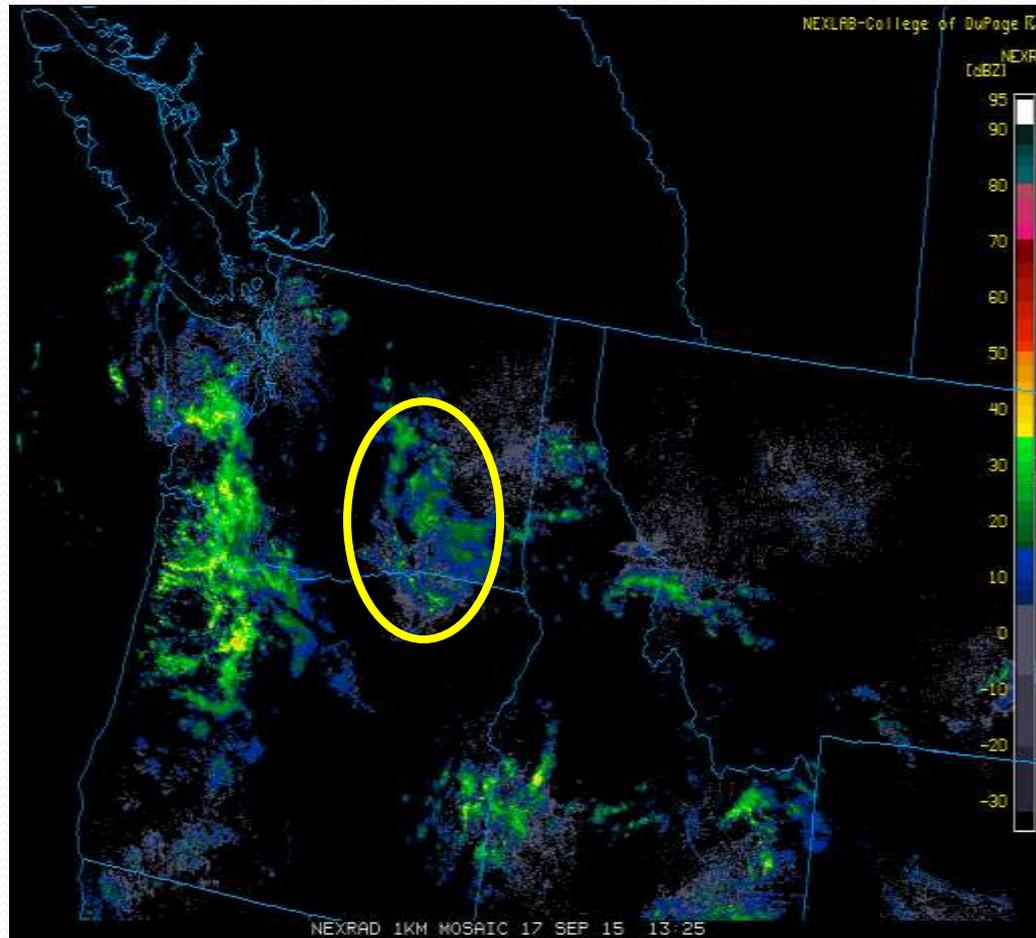
Location	Maximum Temperature	Peak Wind Gust (MPH)
John Day	98°	24 MPH
Ellensburg	97°	45 MPH
Tri-Cities	95°	16 MPH
The Dalles	95°	33 MPH
Yakima	94°	29 MPH
Redmond	94°	29 MPH
Pendleton	90°	40 MPH
La Grande	90°	25 MPH
Bend	90°	29 MPH



An upper level ridge built over the region during this period, providing ample sunshine and very warm temperatures. Temperatures were running about 10 to 15 degrees above average for daytime highs, especially on the 11th & 12th. A cold front moved in on the 13th which increased northwesterly winds.



September 15 – 17th Rain Event



(Above) Radar image from 06:25 AM Sept 17th showing an area of light rain in Southeast Washington and parts of Northern Oregon.

Location	Rainfall Total
Bend, OR	0.34"
Pendleton, OR	0.16"
La Grande, OR	0.10"
Joseph, OR	0.10"
John Day, OR	0.10"
Madras, OR	0.09"
Prineville, OR	0.08"
Redmond, OR	0.06"
Walla Walla, WA	0.05"
Hermiston, OR	0.05"
Pasco, WA	0.04"
Ellensburg, WA	0.03"
Yakima, WA	0.01"
The Dalles, OR	0.01"

Low Temperatures Around the Region 9/28/2015

Location	Low Temperature
Meacham, OR	21°
La Grande, OR	27°
Sisters, OR	27°
Seneca, OR	27°
Goldendale, WA	29°
Redmond, OR	30°
Prineville, OR	30°
Ellensburg, WA	30°
Long Creek, OR	30°
Whitman Mission	30°
Hermiston, OR	31°
Sunnyside, WA	31°

Location	Low Temperature
Joseph, OR	32°
Selah, WA	32°
Pendleton, OR (City)	32°
John Day, OR	33°
Pasco, WA	33°
Dayton, WA	34°
Mitchell, OR	35°
Bend, OR (Airport)	36°
Yakima, WA	36°
Pendleton (Airport)	36°
Walla Walla, WA	42°
Hanford, WA	48°

Ongoing Drought Conditions

U.S. Drought Monitor

West

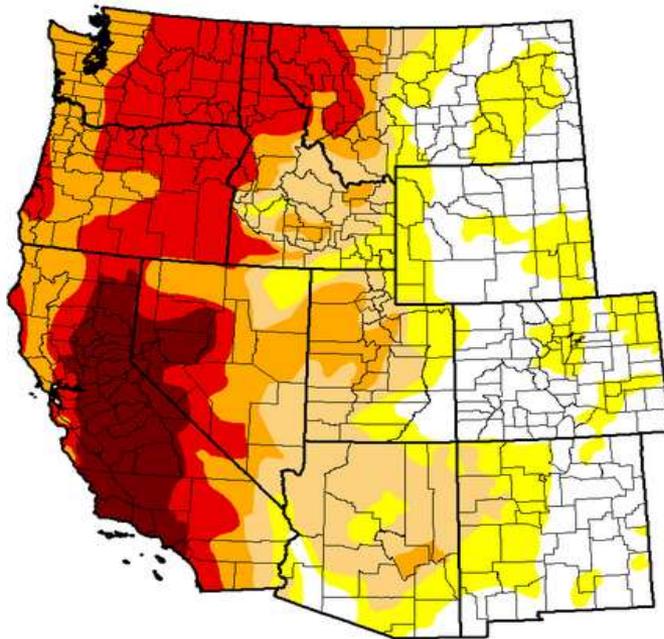
September 29, 2015

(Released Thursday October 1, 2015)

Valid 8 a.m. EDT

Statistics type: Traditional Percent Area

Export table: [PNG](#) [CSV](#) [XLS](#)



Week	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current 2015-09-29	22.77	77.23	57.81	42.42	26.50	7.62
Last Week 2015-09-22	22.79	77.21	58.18	42.49	26.73	7.62
3 Months Ago 2015-06-30	23.90	76.10	60.38	39.01	17.13	7.26
Start of Calendar Year 2014-12-30	34.76	65.24	54.48	33.50	18.68	5.40
Start of Water Year 2014-09-30	31.48	68.52	55.57	35.65	19.95	8.90
One Year Ago 2014-09-30	31.48	68.52	55.57	35.65	19.95	8.90

Estimated Population in Drought Areas: **57,927,956**

[View More Statistics](#)

Intensity:

■ D0 (Abnormally Dry)
 ■ D2 (Severe Drought)
 ■ D4 (Exceptional Drought)
■ D1 (Moderate Drought)
 ■ D3 (Extreme Drought)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying [text summary](#) for forecast statements.

Author(s):

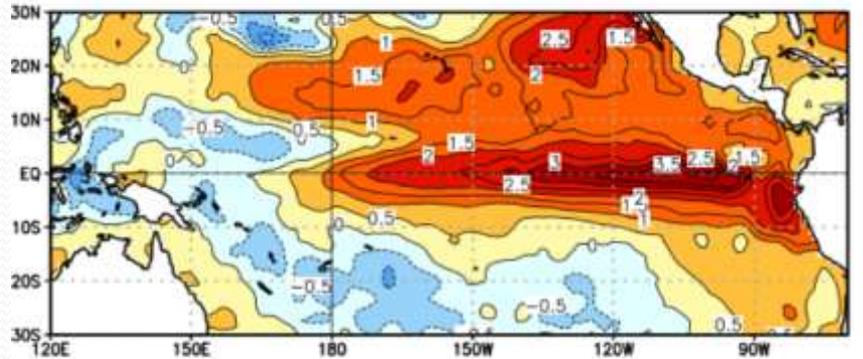
Eric Luebehusen, U.S. Department of Agriculture

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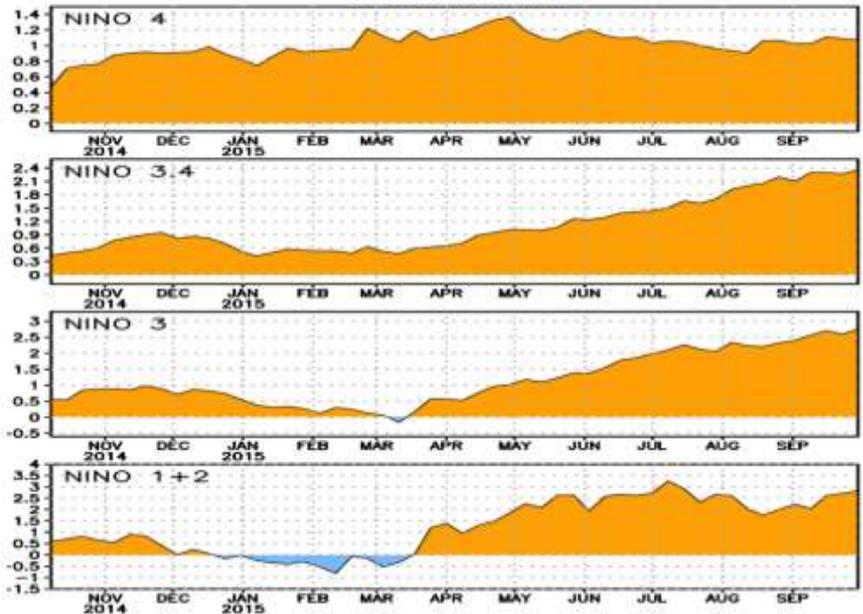
Extreme drought (D3) continues over much of Northeastern Oregon and Southeastern Washington, which was exacerbated by another abnormally dry month. Parts of Deschutes & Crook Counties continue with D2 (severe drought) status.

El Niño Advisory Continues

Average SST Anomalies
6 SEP 2015 – 3 OCT 2015



❖ An El Niño Advisory has been issued by the Climate Prediction Center, with the warmest temperatures noted off the South American coast along the Equator. ****El Niño conditions are present****

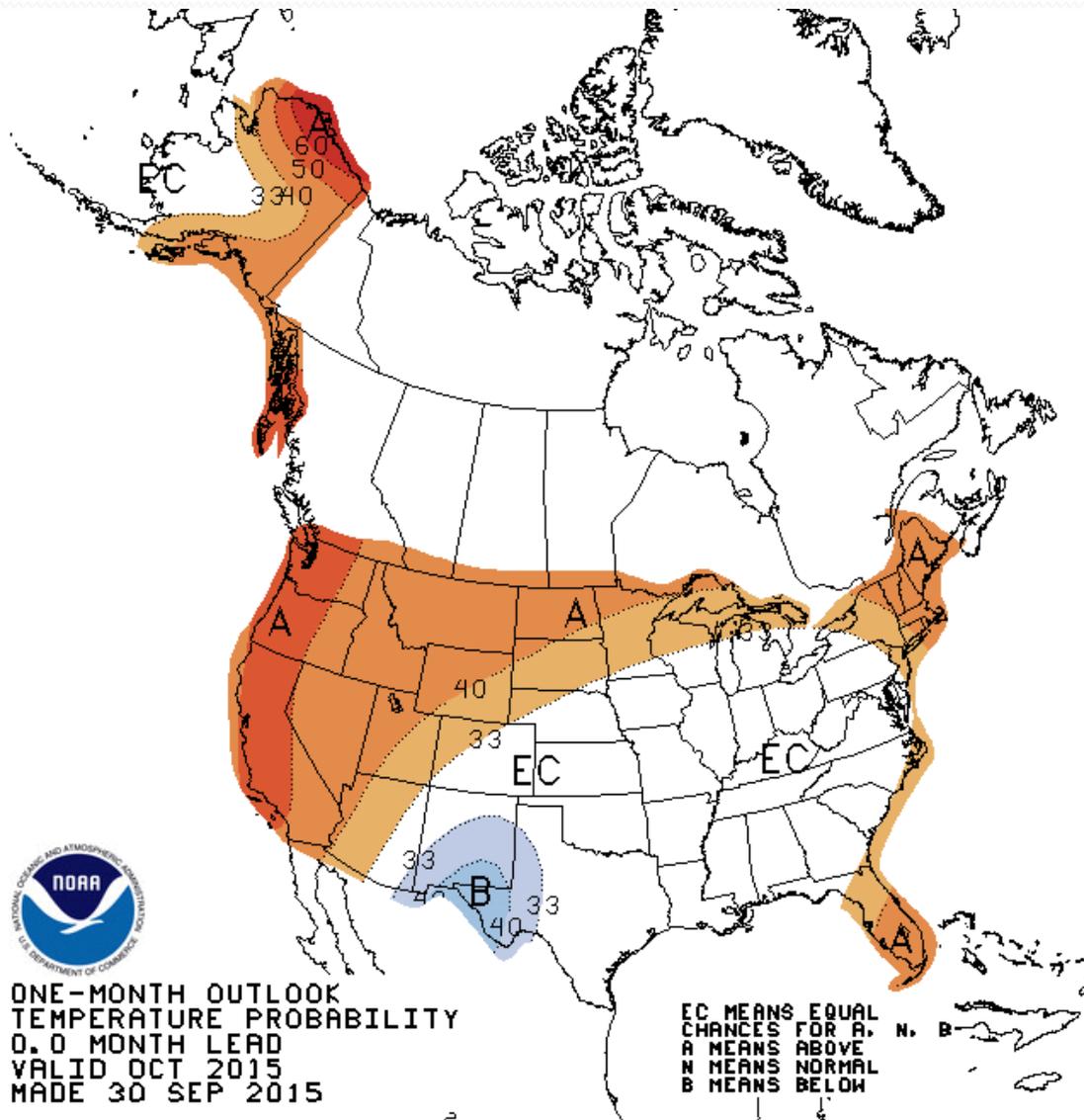


❖ The Climate Prediction Center has stated that there is approximately a 95% chance that El Niño conditions will continue through the Northern Hemisphere winter before gradually weakening heading into Spring 2016.



October Outlook

October Temperature Outlook



This graphic is issued by the Climate Prediction Center or CPC and is the Temperature Outlook for the month of October. The cool colors indicate a greater chance of below normal temperatures and the warm colors represent a greater chance of above normal temperatures. The time period for the normals runs from 1981-2010. Most of the Inland Pacific Northwest has a 40-50 percent chance for above average in the month of October.

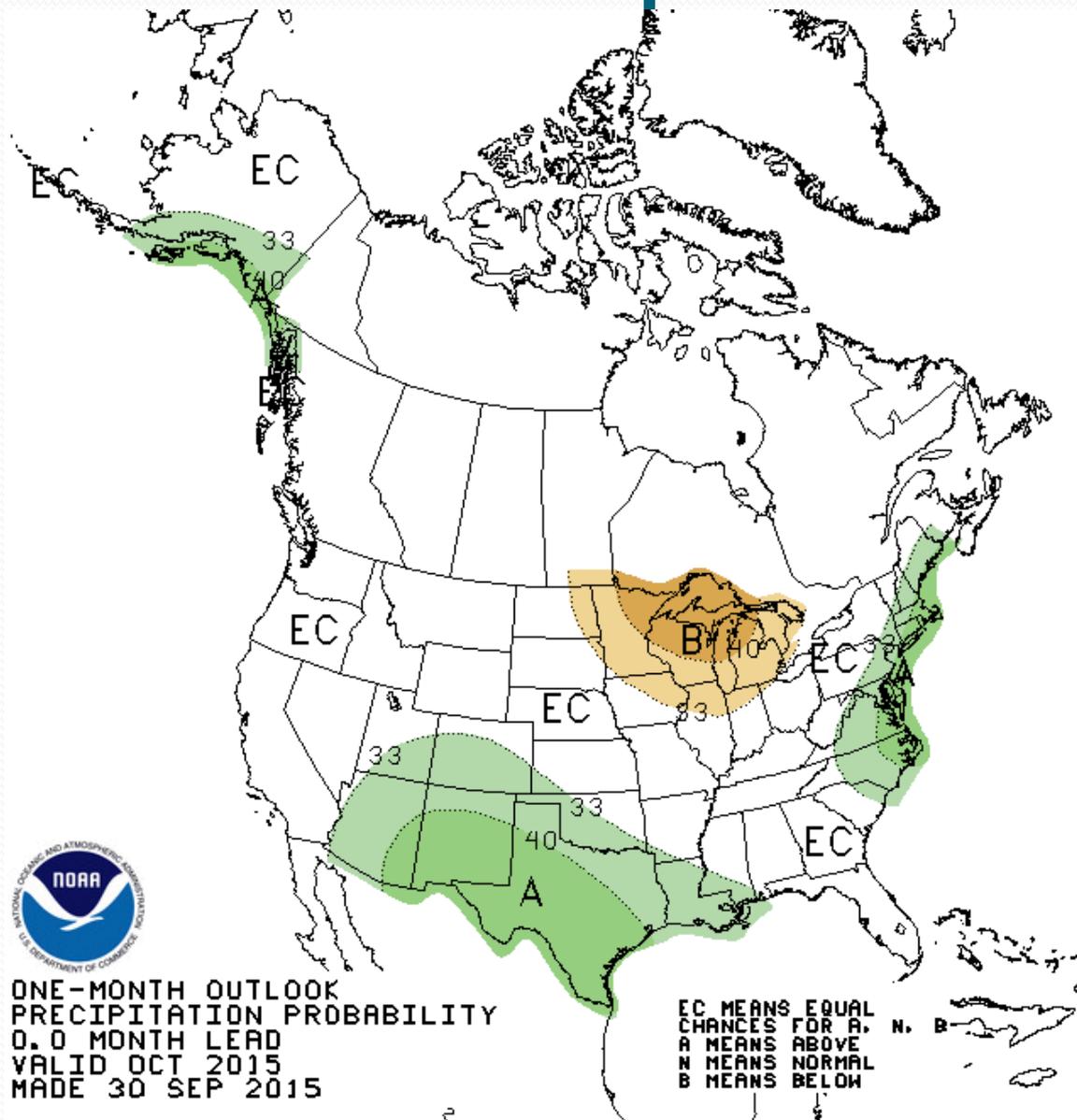


ONE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
0.0 MONTH LEAD
VALID OCT 2015
MADE 30 SEP 2015

EC MEANS EQUAL
CHANCES FOR A,
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW



October Precipitation Outlook



This graphic is CPC's Precipitation Outlook for the month of October. The green colors represent a greater chance of above normal precipitation, and the brown colors represent a greater chance of below normal precipitation. Much of the Pacific NW has an equal chance to see above, below or near normal precipitation amounts in October. Please remember that these are probabilities of averages, and that the day-to-day weather will still vary for the month .



ONE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
0, 0 MONTH LEAD
VALID OCT 2015
MADE 30 SEP 2015

EC MEANS EQUAL
CHANCES FOR A,
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW





Thank You!