

USDA Oregon Technical Advisory Committee

July 11, 2018



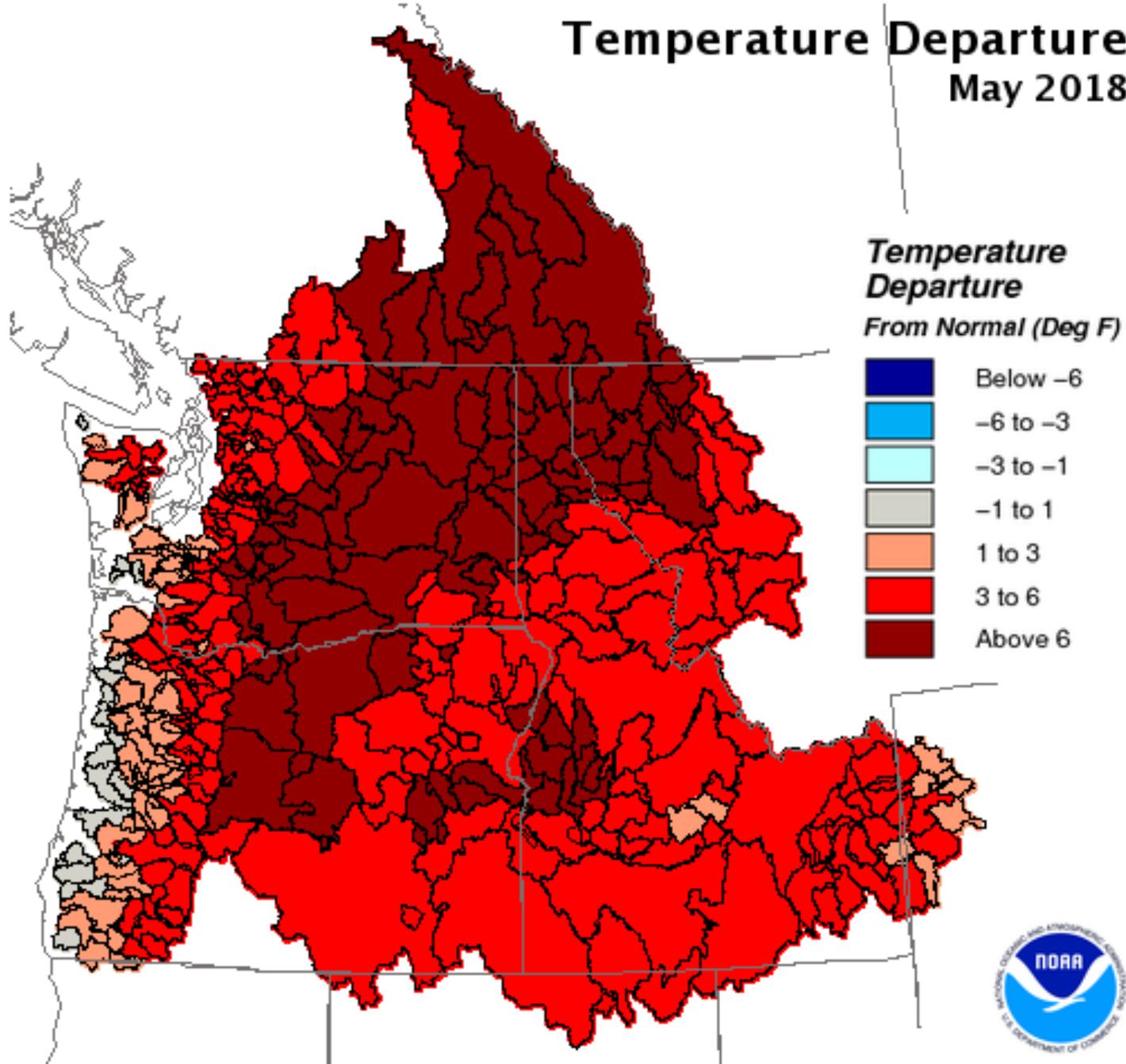
H. Scott Oviatt
Snow Survey Supervisory Hydrologist
USDA Natural Resources Conservation Service
Oregon State Office
Scott.Oviatt@or.usda.gov
503-414-3271

Snowpack

Water Year 2018 Seasonal Snowpack Observations

- **Warm and dry conditions through early February, resulting in low snowpack accumulation.**
- **Subsequent wetter/cooler trend was not sufficient to overcome the substantial early season deficit.**
- **At peak of the snow season, most Oregon snowpacks were less than 70% of normal.**
- **Lowest snowpacks were in southern Oregon, where the peak snow levels ranged from 30 to 60% of normal.**
- **Most sites melted out ahead of schedule - 1 to 2 weeks early.**
- **May snowmelt rates significantly higher than normal due to warm temperatures.**
- **Several higher elevation sites exhibited 150-250% of typical spring melt rates.**

Temperature Departure May 2018

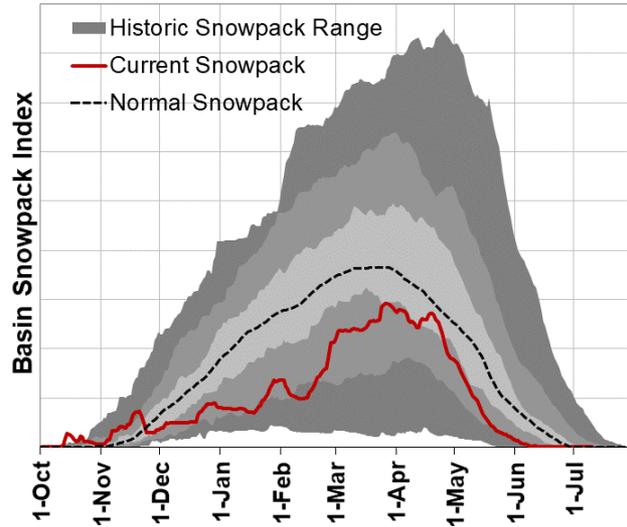


Creation Time: Friday, Jun 1, 2018

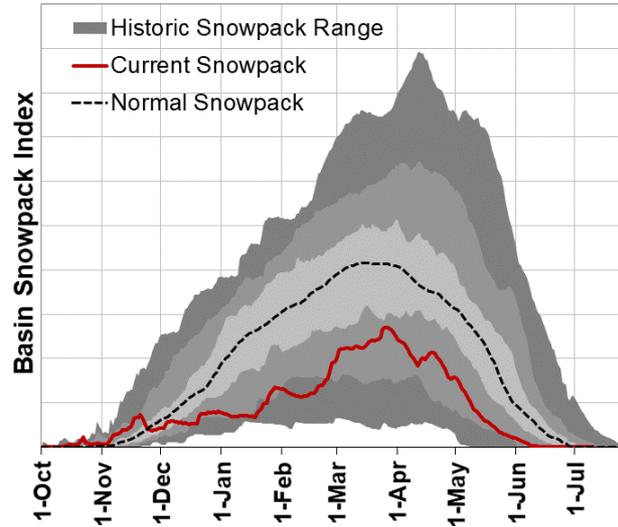
Northwest River Forecast Center

Water Year 2018

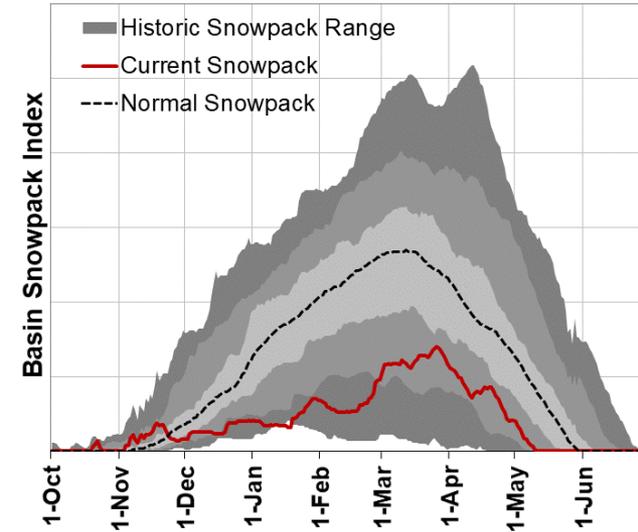
Willamette



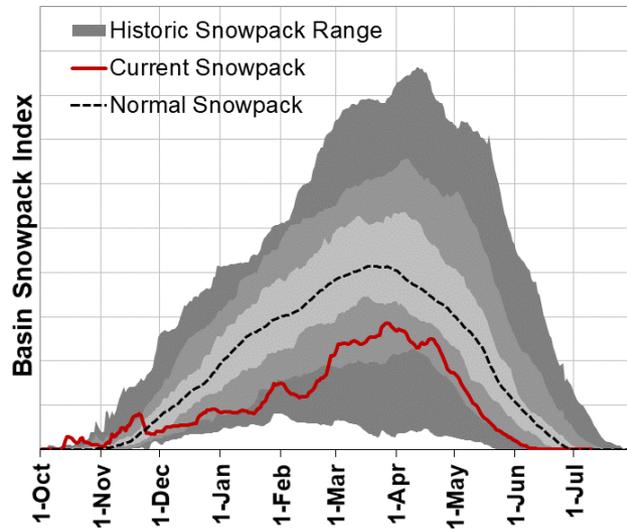
Rogue/Umpqua



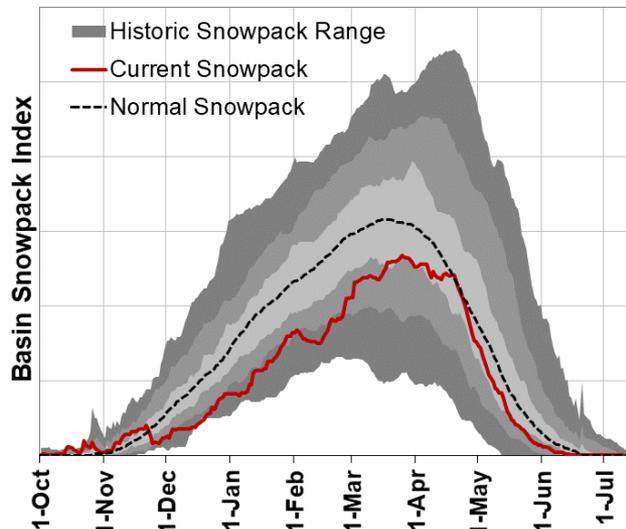
Klamath



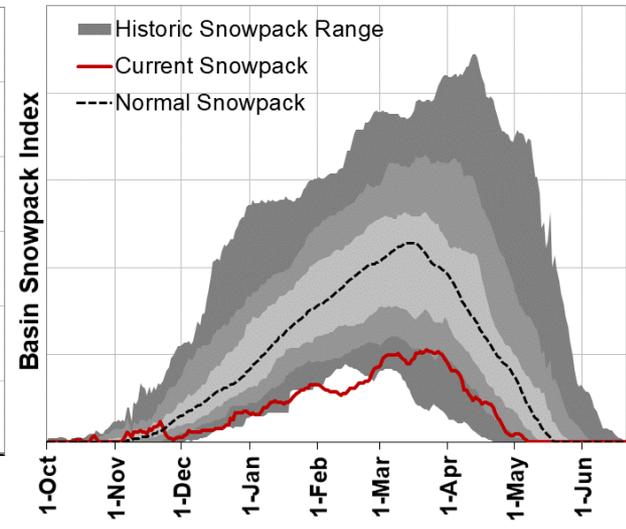
Deschutes



Grande Ronde/Powder/Burnt



Owyhee/Malheur



Precipitation

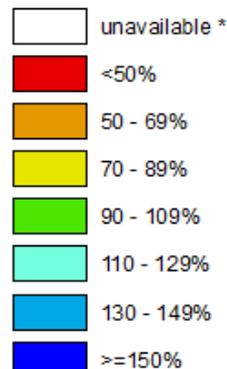
Statewide SNOTEL Precipitation is 88% of normal

Oregon SNOTEL Water Year (Oct 1) to Date Precipitation % of Normal

Jul 10, 2018

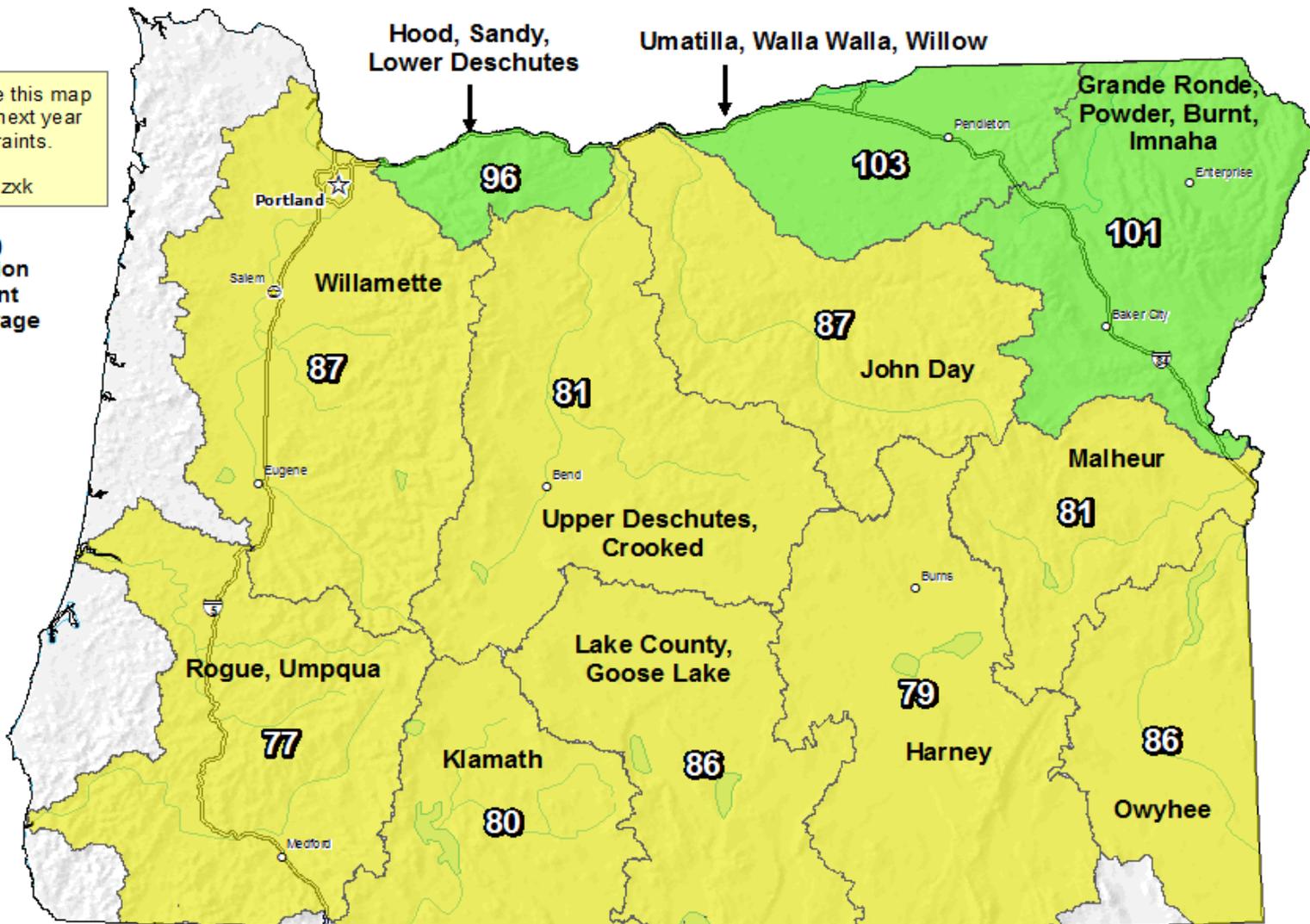
Notice: We anticipate this map will not be available next year due to staffing constraints. Alternate maps: <https://go.usa.gov/xnzxk>

Water Year (Oct 1) to Date Precipitation Basin-wide Percent of 1981-2010 Average



* Data unavailable at time of posting or measurement is not representative at this time of year

Provisional Data
Subject to Revision



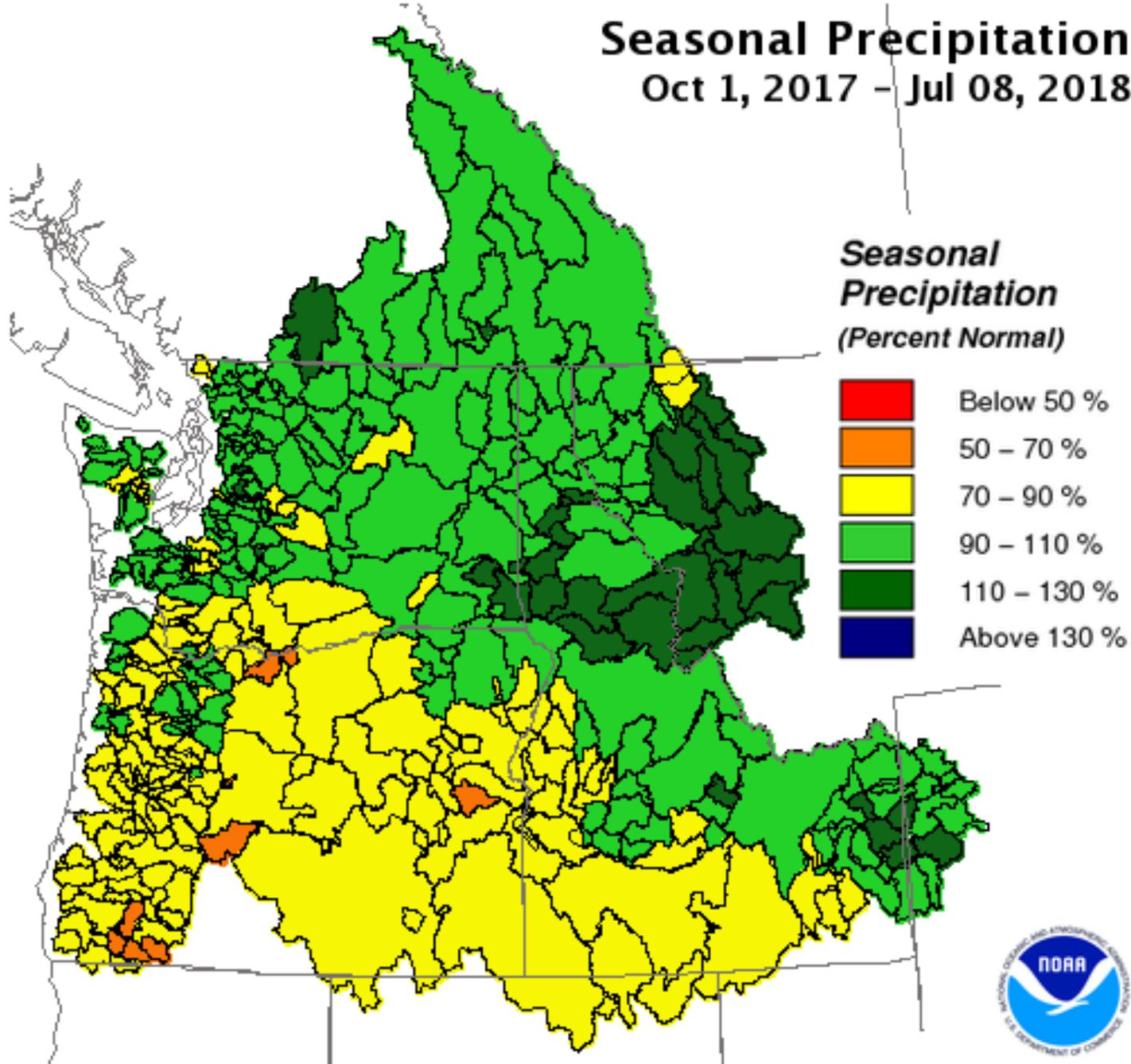
The water year to date precipitation percent of normal represents the accumulated precipitation found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).



Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

Seasonal Precipitation

Oct 1, 2017 - Jul 08, 2018



Creation Time: Monday, Jul 9, 2018

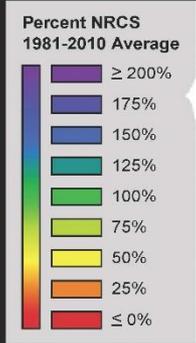
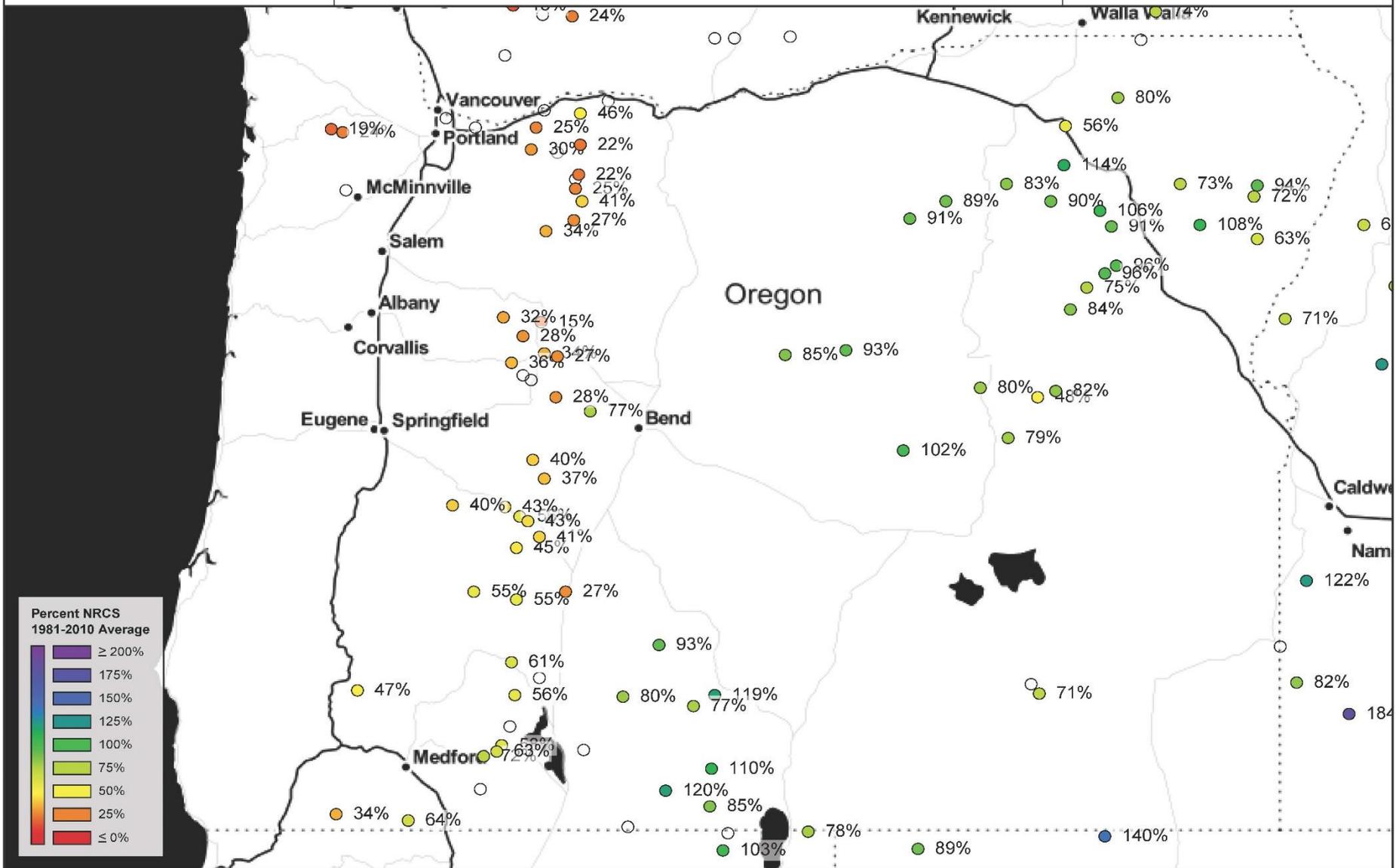
Northwest River Forecast Center



SNOTEL Precipitation May 1st – July 9th Percent of Average

70 day Precipitation

May 1, 2018 - July 9, 2018

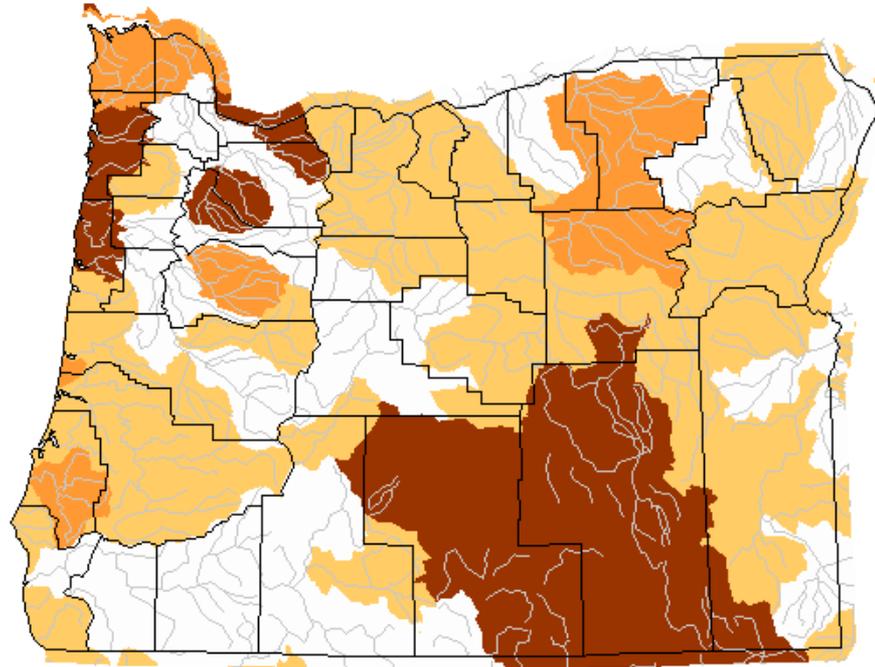


USGS Streamflow

Map of below normal 7-day average streamflow compared to historical streamflow for the day of year (Oregon)

Oregon ▼

Tuesday, July 10, 2018



Click map to obtain more detailed drought information for the state

Explanation - Percentile classes				
Low	<=5	6-9	10-24	Insufficient data for a hydrologic region
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	

Drought and Climate Outlook

U.S. Drought Monitor
Oregon
2015

July 7, 2015
(Released Thursday, Jul. 9, 2015)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	100.00	83.71	34.09	0.00
Last Week 6/30/2015	0.00	100.00	98.60	83.66	34.09	0.00
3 Months Ago 4/2/2015	14.36	85.64	82.30	47.94	33.72	0.12
Start of Calendar Year 1/2/2014	13.61	86.39	80.70	49.29	34.11	0.00
Start of Water Year 9/30/2014	1.56	98.44	76.61	56.26	35.30	0.00
One Year Ago 7/6/2014	6.09	93.91	72.78	52.00	14.72	0.00

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:
Brian Fuchs
National Drought Mitigation Center



<http://droughtmonitor.unl.edu/>

U.S. Drought Monitor
Oregon
2016

July 12, 2016
(Released Thursday, Jul. 14, 2016)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	49.75	0.00	0.00	0.00
Last Week 7/5/2016	0.00	100.00	49.75	0.00	0.00	0.00
3 Months Ago 4/2/2016	45.95	54.05	29.87	1.00	0.00	0.00
Start of Calendar Year 1/2/2015	14.52	85.48	80.45	65.33	39.55	0.00
Start of Water Year 9/29/2015	0.00	100.00	100.00	100.00	67.29	0.00
One Year Ago 7/4/2015	0.00	100.00	100.00	83.71	34.09	0.00

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 Miskus
NOAA/NWS/NCEP/CPC



<http://droughtmonitor.unl.edu/>

U.S. Drought Monitor
Oregon
2017

July 11, 2017
(Released Thursday, Jul. 13, 2017)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	100.00	0.00	0.00	0.00	0.00	0.00
Last Week 07-04-2017	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago 04-11-2017	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year 01-03-2017	65.31	34.69	5.29	0.00	0.00	0.00
Start of Water Year 09-27-2016	0.00	100.00	50.59	12.30	0.00	0.00
One Year Ago 07-12-2016	0.00	100.00	49.75	0.00	0.00	0.00

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



<http://droughtmonitor.unl.edu/>

U.S. Drought Monitor
Oregon
2018

July 3, 2018
(Released Thursday, Jul. 5, 2018)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	6.08	93.92	68.13	18.01	0.00	0.00
Last Week 06-26-2018	6.12	93.88	68.13	18.01	0.00	0.00
3 Months Ago 04-29-2018	32.44	67.56	32.89	0.00	0.00	0.00
Start of Calendar Year 01-02-2018	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year 09-26-2017	39.23	60.77	28.57	0.00	0.00	0.00
One Year Ago 07-04-2017	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:

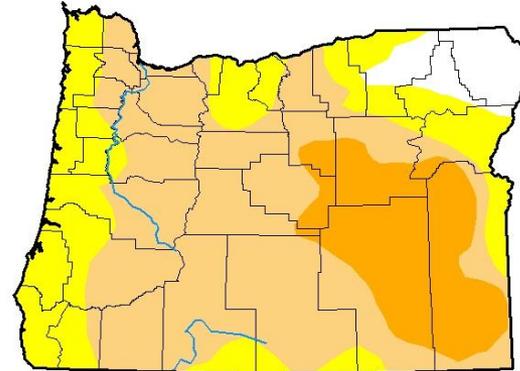
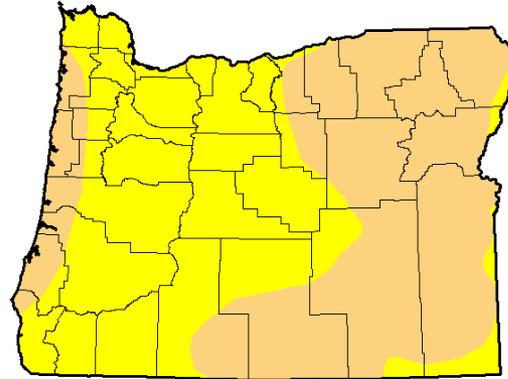
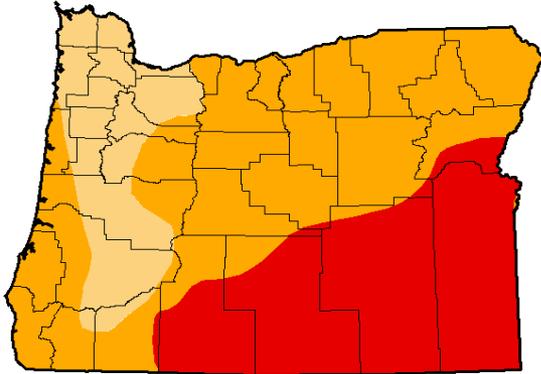
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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

Author:
Richard Tanker
CPC/NOAA/NWS/NCEP

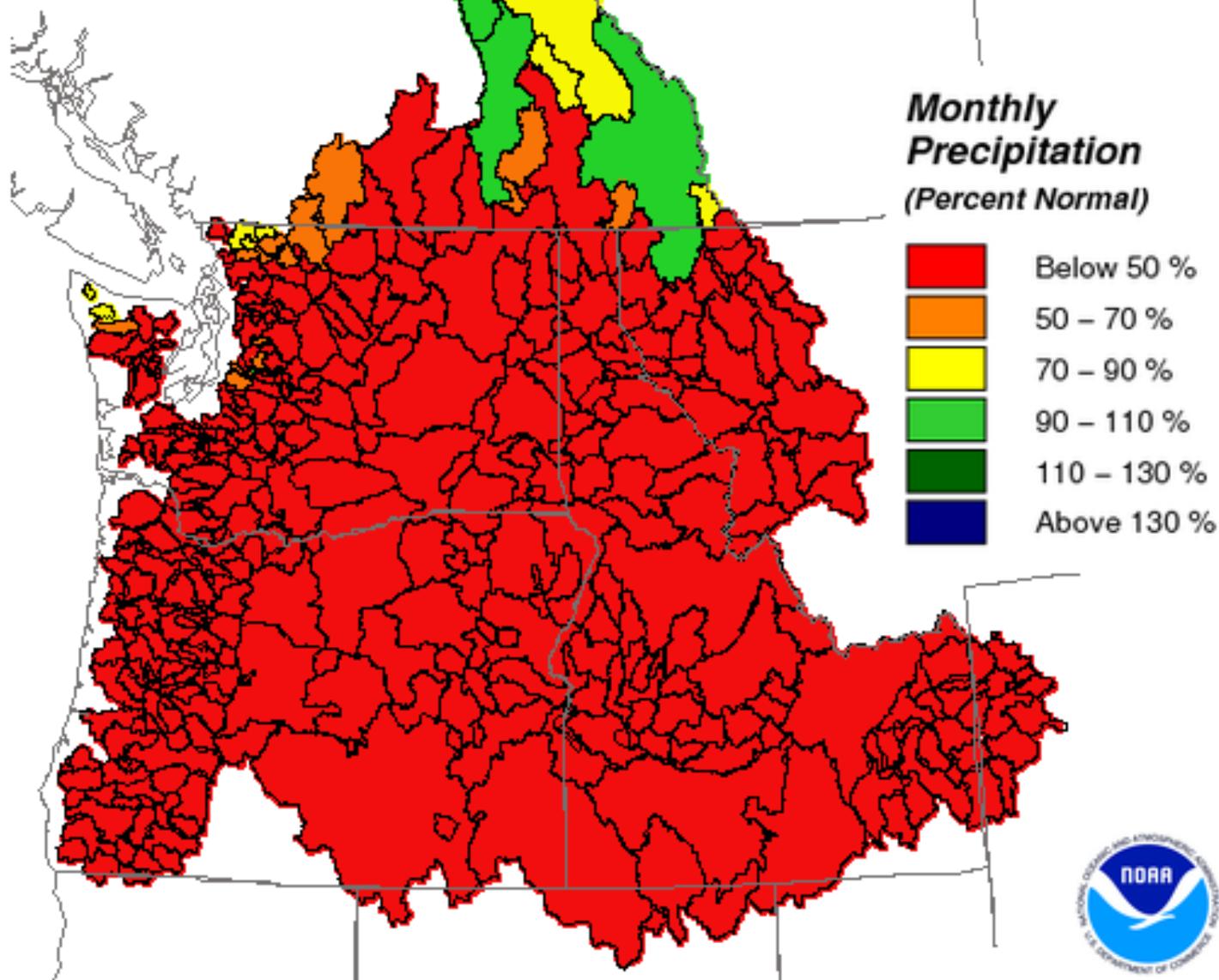


<http://droughtmonitor.unl.edu/>



Current Month Precipitation

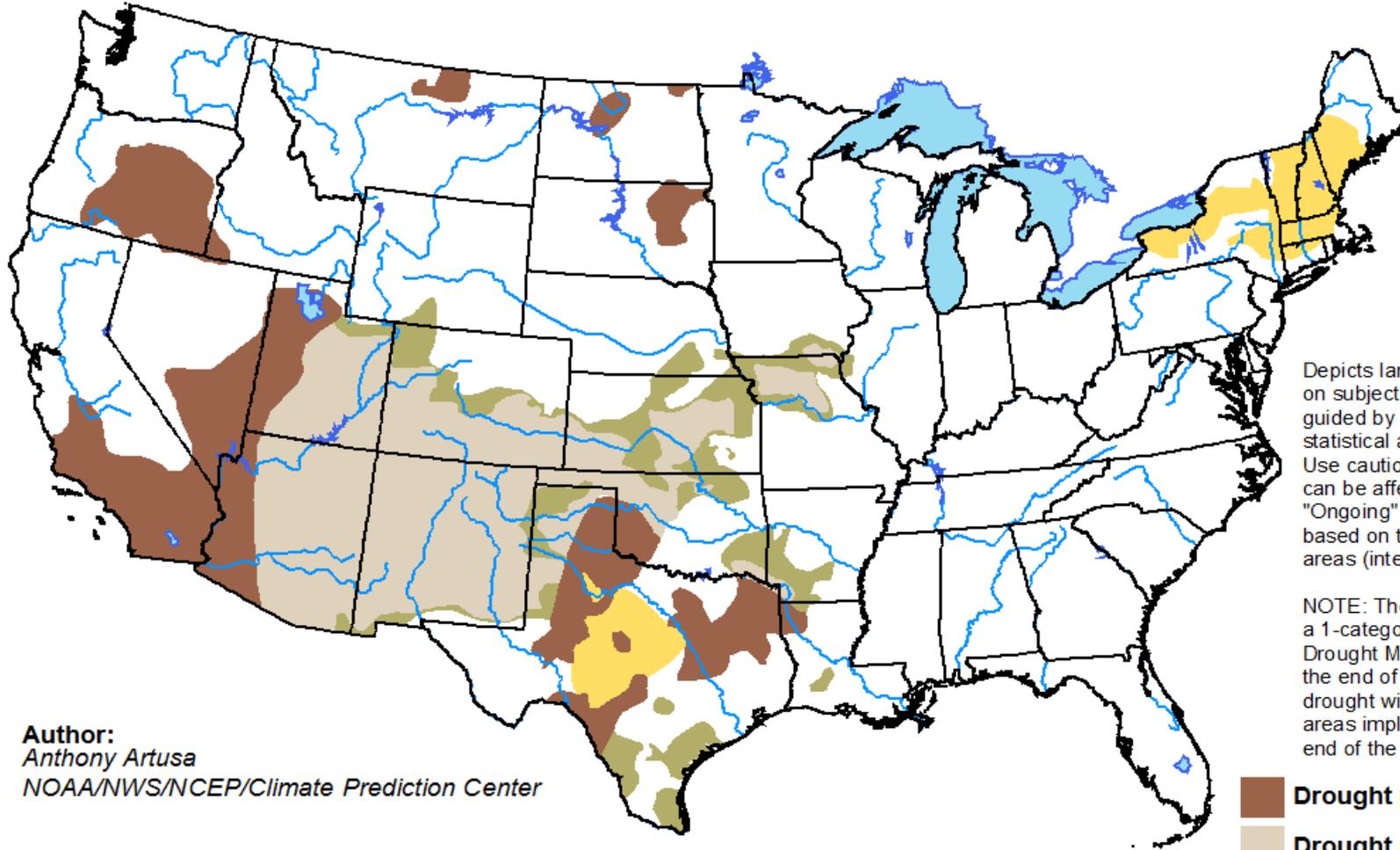
Jul 1, 2018 - Jul 09, 2018



U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for June 21 - September 30, 2018
Released June 21, 2018

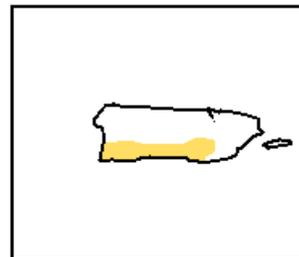
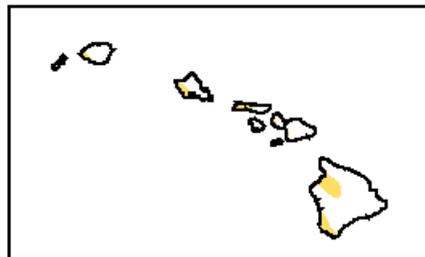
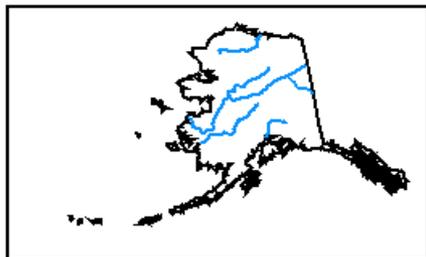


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

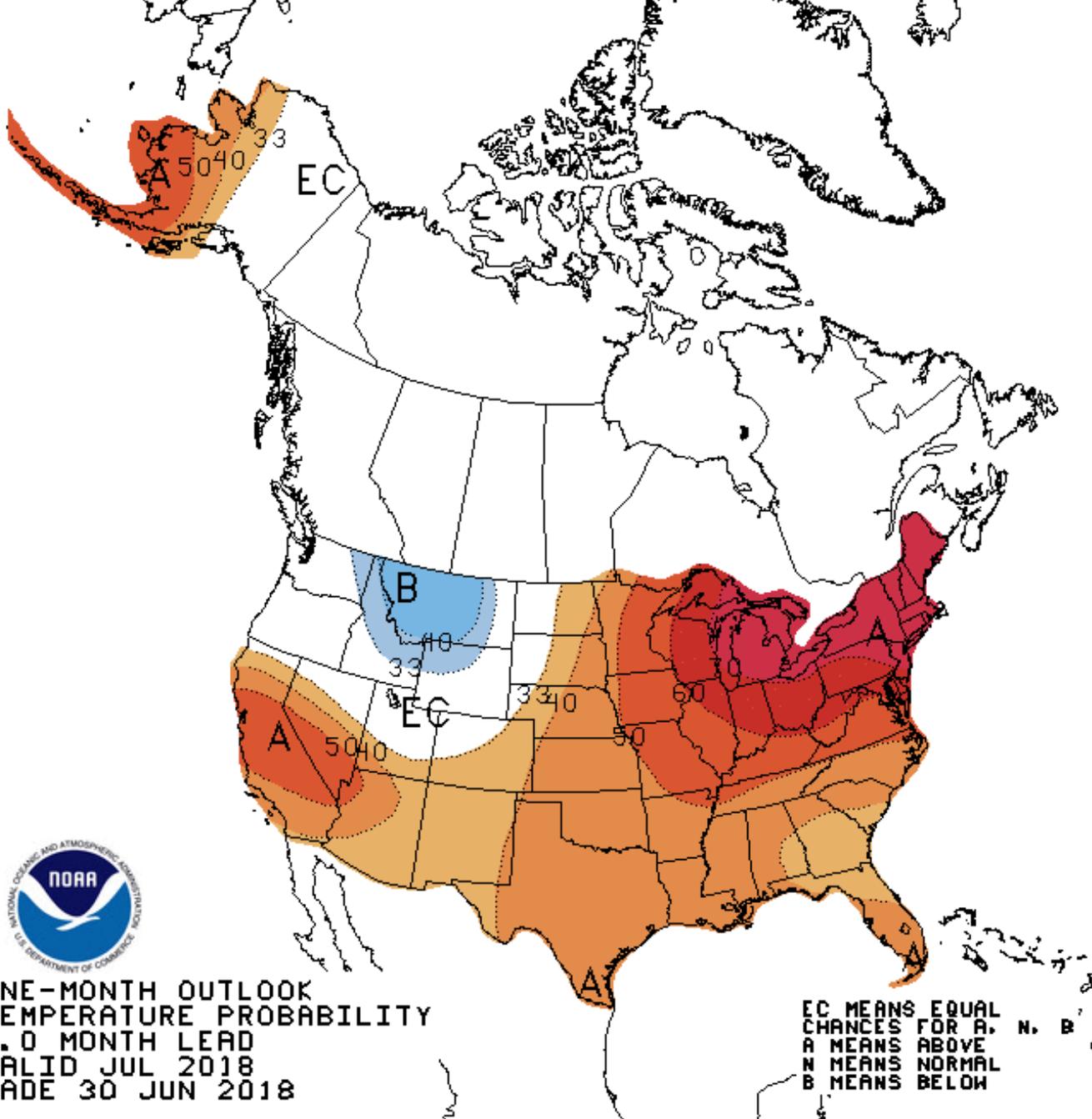
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
Anthony Artusa
NOAA/NWS/NCEP/Climate Prediction Center

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

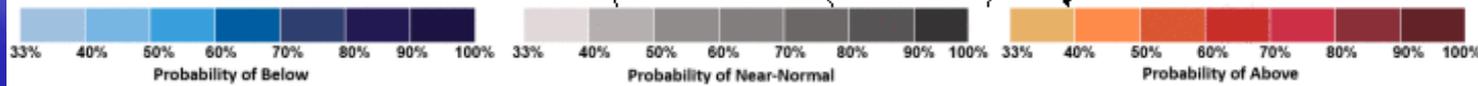


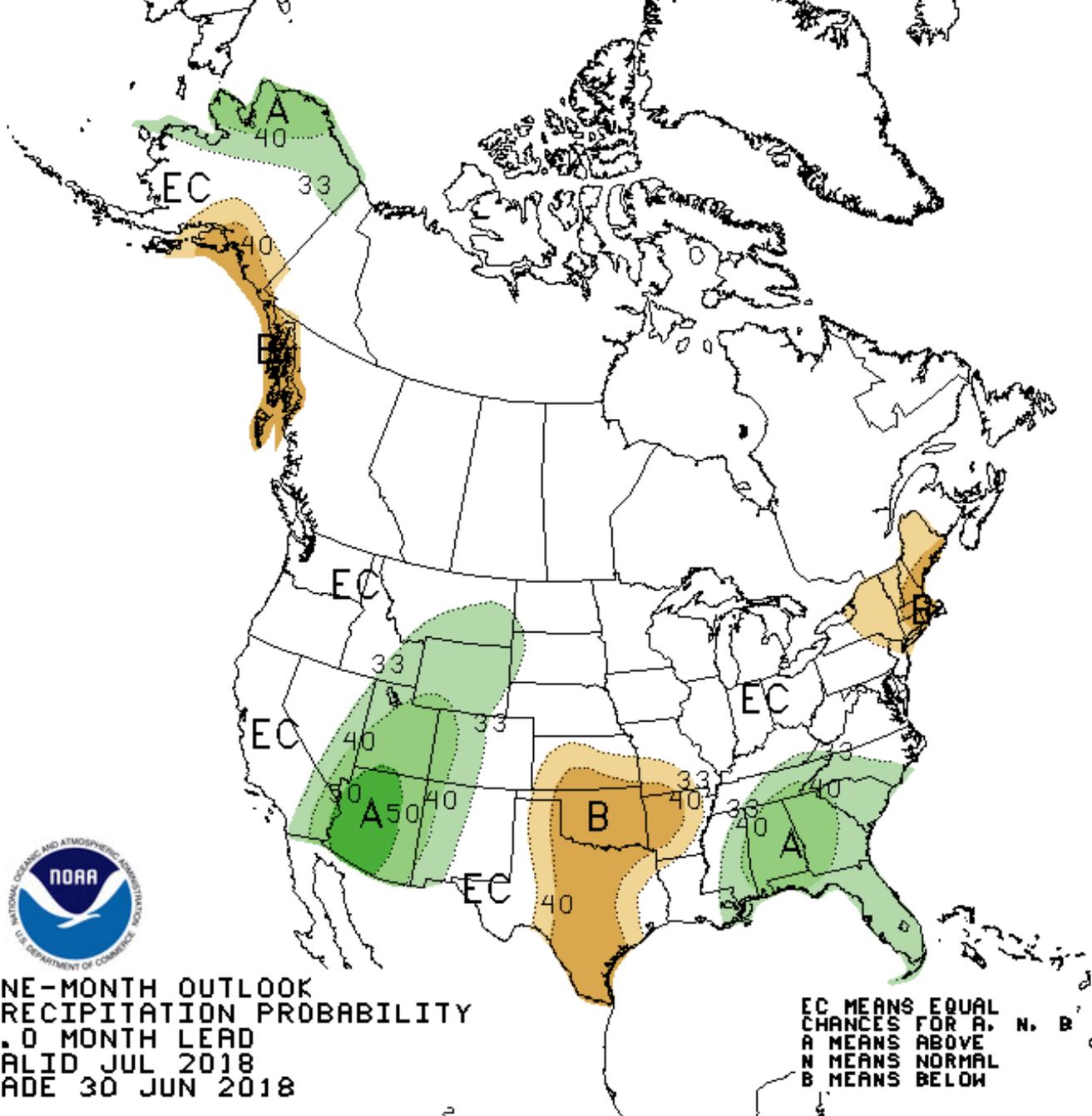
<http://go.usa.gov/3eZ73>



ONE-MONTH OUTLOOK
 TEMPERATURE PROBABILITY
 0.0 MONTH LEAD
 VALID JUL 2018
 MADE 30 JUN 2018

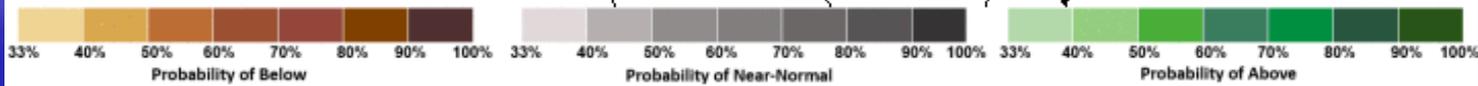
EC MEANS EQUAL
 CHANCES FOR A, N, B
 A MEANS ABOVE
 N MEANS NORMAL
 B MEANS BELOW

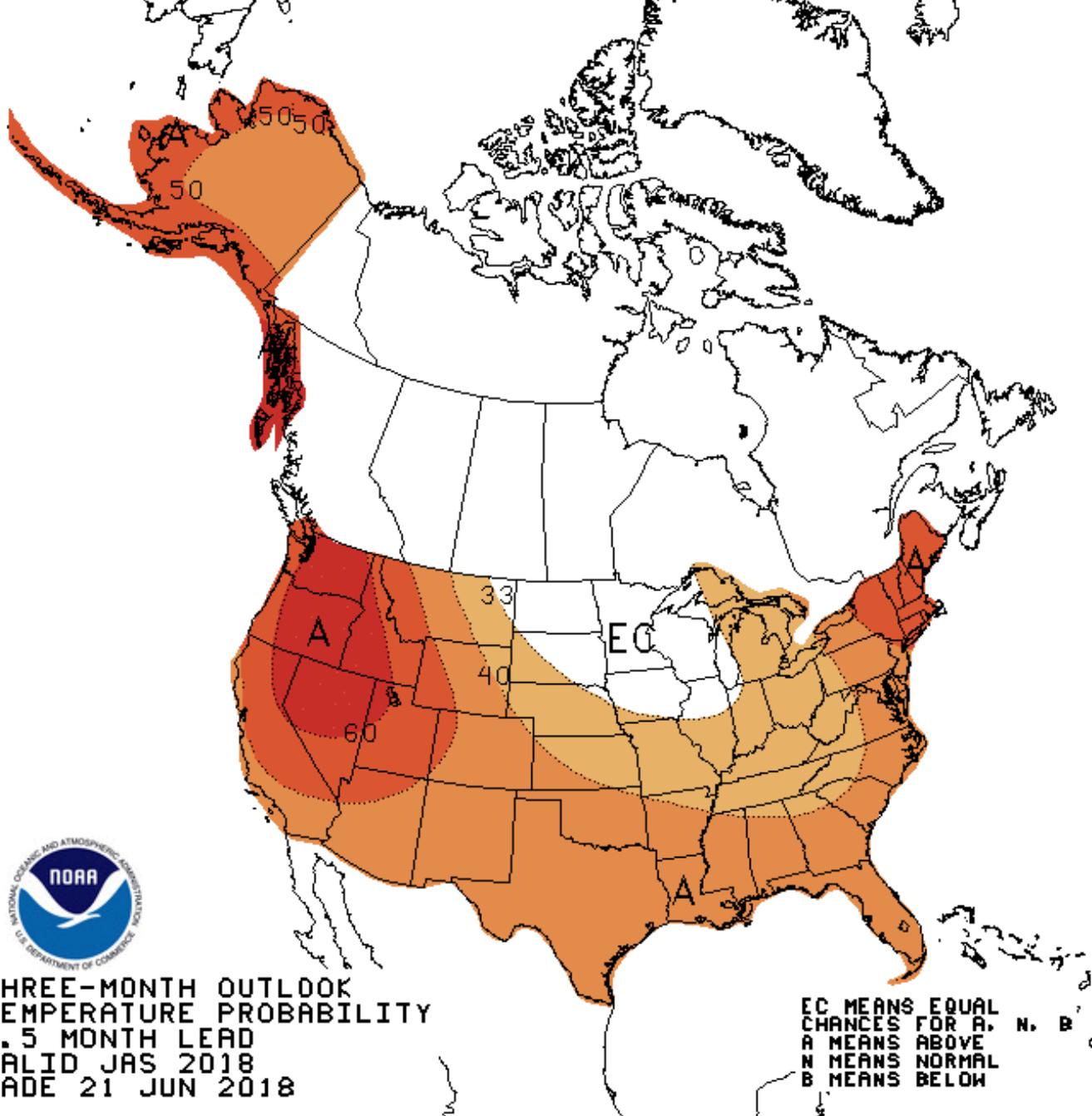




ONE-MONTH OUTLOOK
 PRECIPITATION PROBABILITY
 0.0 MONTH LEAD
 VALID JUL 2018
 MADE 30 JUN 2018

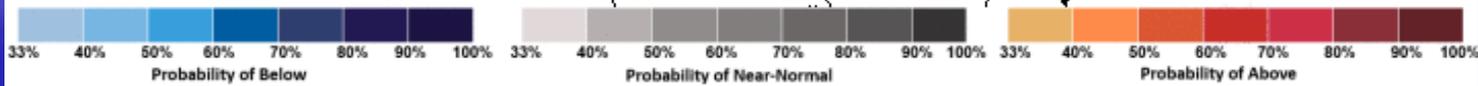
EC MEANS EQUAL
 CHANCES FOR A, N, B
 A MEANS ABOVE
 N MEANS NORMAL
 B MEANS BELOW

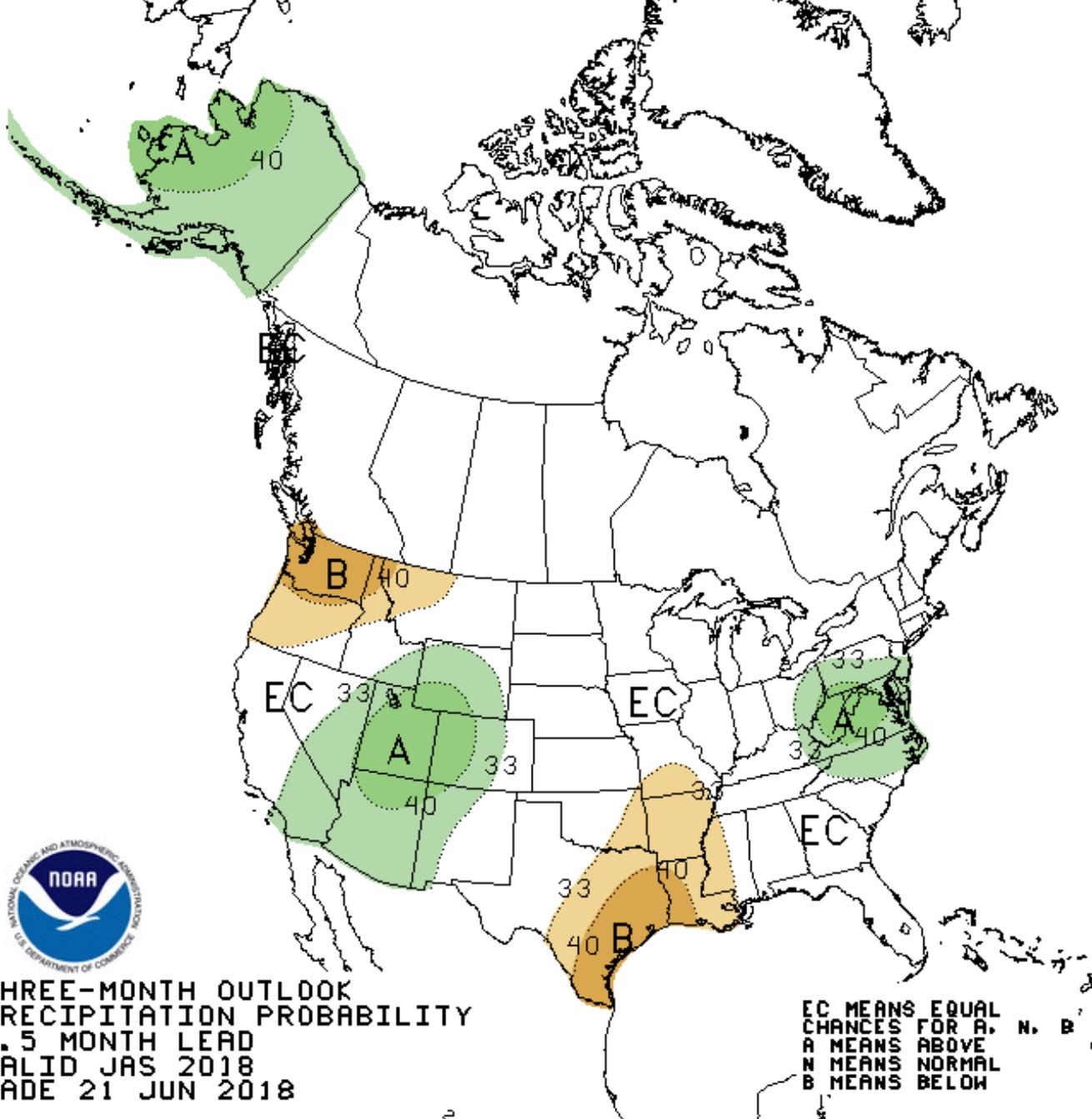




**THREE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
0.5 MONTH LEAD
VALID JAS 2018
MADE 21 JUN 2018**

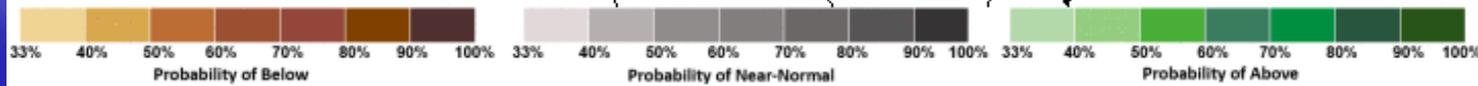
**EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW**





THREE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
0.5 MONTH LEAD
VALID JAS 2018
MADE 21 JUN 2018

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

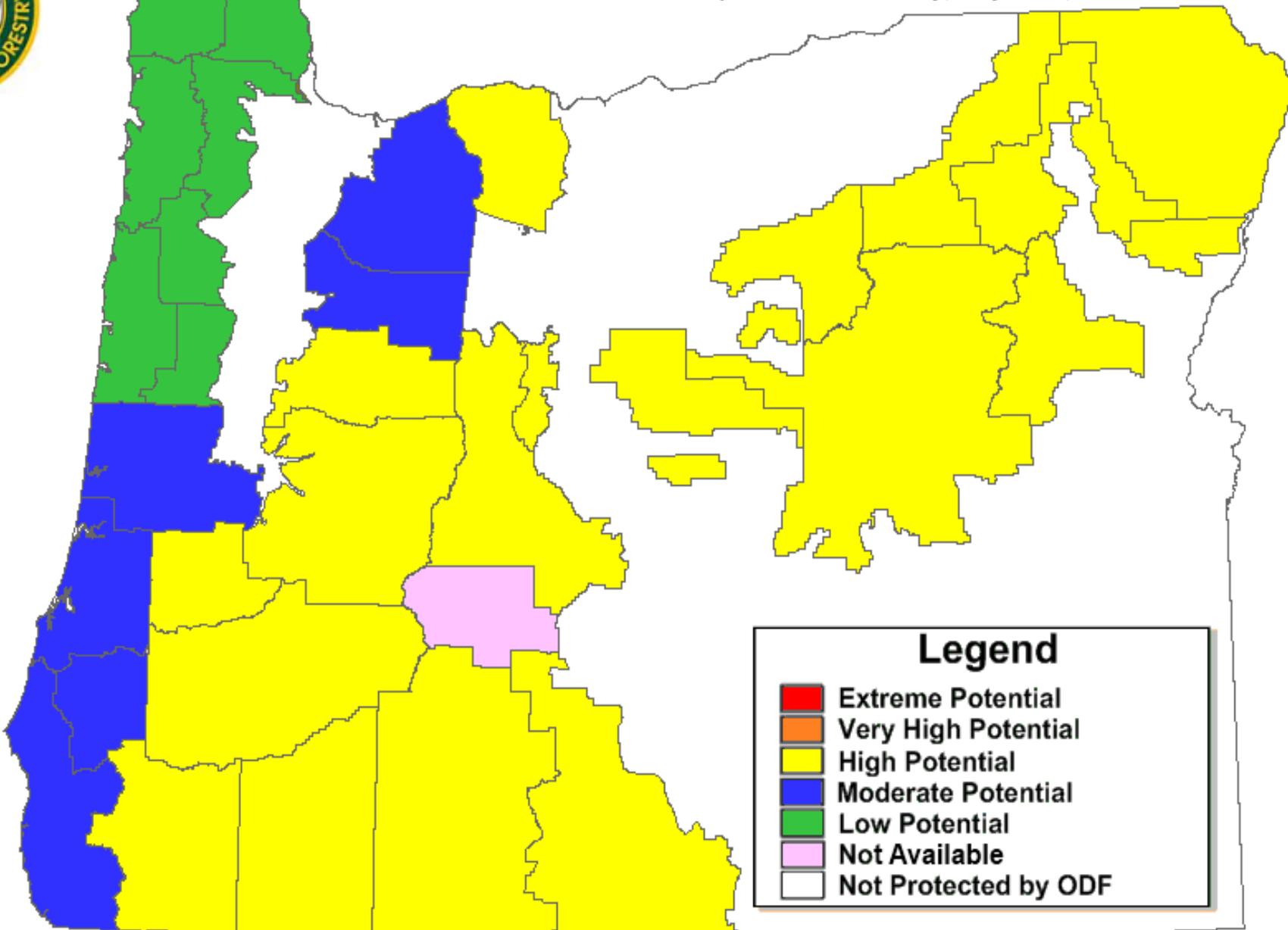


ODF Fire Conditions



ODF Significant Fire Potential

Based on NFDRS indices for 2:00 p.m. PDT Tuesday, July 10th, 2018



Legend

- Extreme Potential
- Very High Potential
- High Potential
- Moderate Potential
- Low Potential
- Not Available
- Not Protected by ODF

Updated: 5:33 p.m. PDT Tuesday, July 10th, 2018 (map does not display or represent Fire Danger or Regulated Use Restrictions).

Pacific Northwest 7 Day Significant Fire Potential



Tuesday, July 10, 2018

Predictive Service

Areas	ytd	tdy	Wed	Thu	Fri	Sat	Sun	Mon
NW01								
NW02								
NW03								
NW04								
NW05								
NW06								
NW07				⚡	⚡	⚡		
NW08								
NW09								
NW10								
NW11								
NW12						⚡		

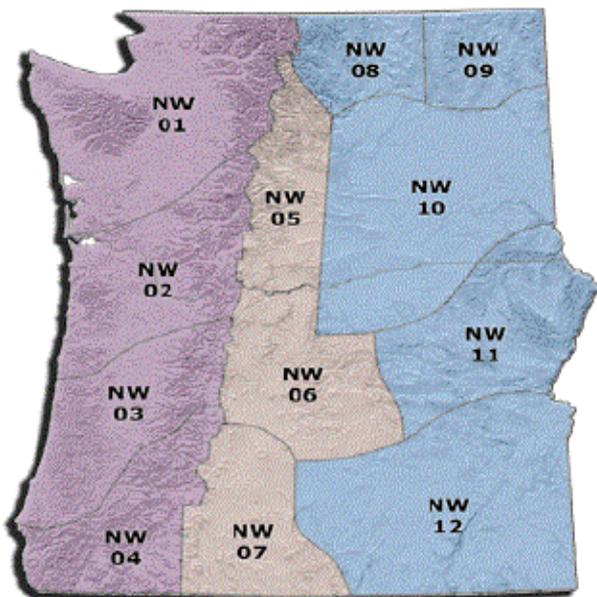
Fire Potential: A few showers and thunderstorms will linger in NE Washington today behind the frontal passage last night. High temperatures will be cooler today east of the Cascades before upper level zonal flow brings drying and warming for the rest of the work week. Temperatures will exceed 100 degrees by Thursday for some locations in southern and eastern Oregon and eastern Washington. An upper level trough will move across the region late Friday and Saturday bringing gusty winds. If monsoonal moisture moves in from the south, the system could bring thunderstorms to southern and eastern Oregon. Check the latest NWS forecast for details for your area.

While the risk of new significant fires remains low for the next couple of days, mid-week warming will elevate fire danger indices considerably. Potential for lightning late in the week after several hot, dry days brings high risk for significant fires to southern Oregon. Climate Prediction Center outlooks call for above average temperatures through the next 14 days, keeping a moderate risk for significant fire development into next week.

Preparedness Level:

Northwest: 2
National: 3

- Eric Wise



Legend

Fire Environment (FEN) 4 levels

Minimal - The Overall Fire Environment suggests a very low risk for Large fires (less than 1% chance)

Normal - The Overall Fire Environment suggests a normal risk for large fires (1 - 4% chance)

Elevated - The Overall Fire Environment suggests a moderately high risk for large fires (5 - 19% chance)

High Risk The risk for large fire(s) is very high ($\geq 20\%$)
Triggers: 1. ⚡ (Significant Lightning)
2. BEN (Critical Burn Environment)

The assessment of the overall fire environment considers multiple factors including weather, lightning amount and fuel dryness. Large Fire probabilities are derived objectively via statistical methods. High Risk levels ($\geq 20\%$ probability of a large fire) are almost always due to significant lightning as burning conditions alone rarely result in a large fire probability much above about 10%.

Thank you

In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident.

Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotape, American Sign Language, etc.) should contact the responsible Agency or USDA's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.

To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at [How to File a Program Discrimination Complaint](#) and at any USDA office or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by: (1) mail: U.S. Department of Agriculture, Office of the Assistant Secretary for Civil Rights, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410; (2) fax: (202) 690-7442; or (3) email: program.intake@usda.gov.

USDA Oregon Technical Advisory Committee

July 11, 2018



H. Scott Oviatt
Snow Survey Supervisory Hydrologist
USDA Natural Resources Conservation Service
Oregon State Office
Scott.Oviatt@or.usda.gov
503-414-3271