

Water Supply Update Summer 2018

WSAC June 29, 2018

Andy Bryant

NWS Portland

Marilyn Lohmann

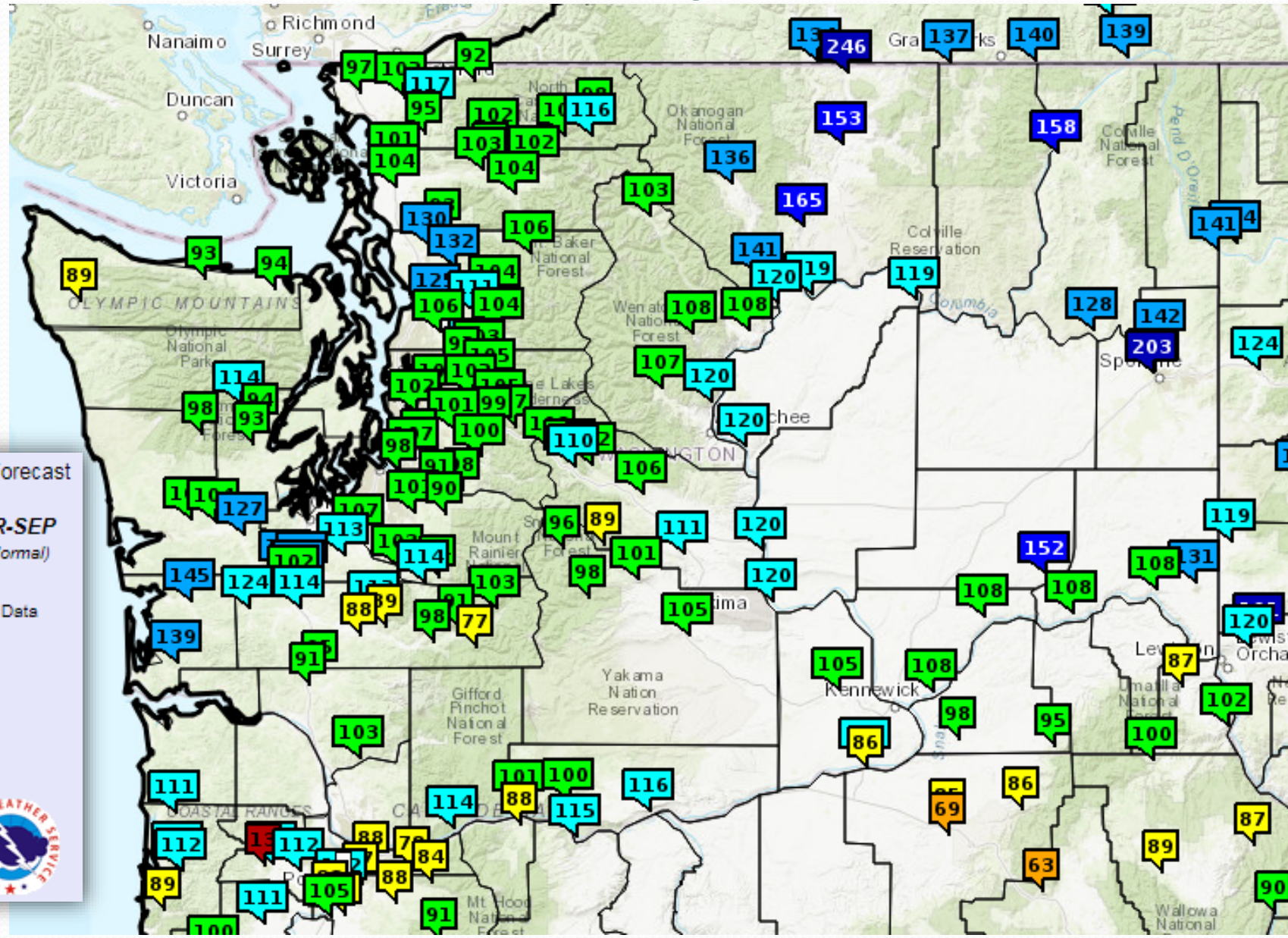
NWS Pendleton

NWS Water Supply Forecasts

- April-September runoff volume near to above-average statewide, highest in NE Washington
- Most of that seasonal volume is “front-loaded” in April and May.
- Monthly runoff volume forecasts indicate below-average summer streamflow for SE & W Washington
- Concerns about low summer streamflow?

April-September Water Supply Forecasts

www.nwrfc.noaa.gov



ESP Natural Forecast

Period: APR-SEP

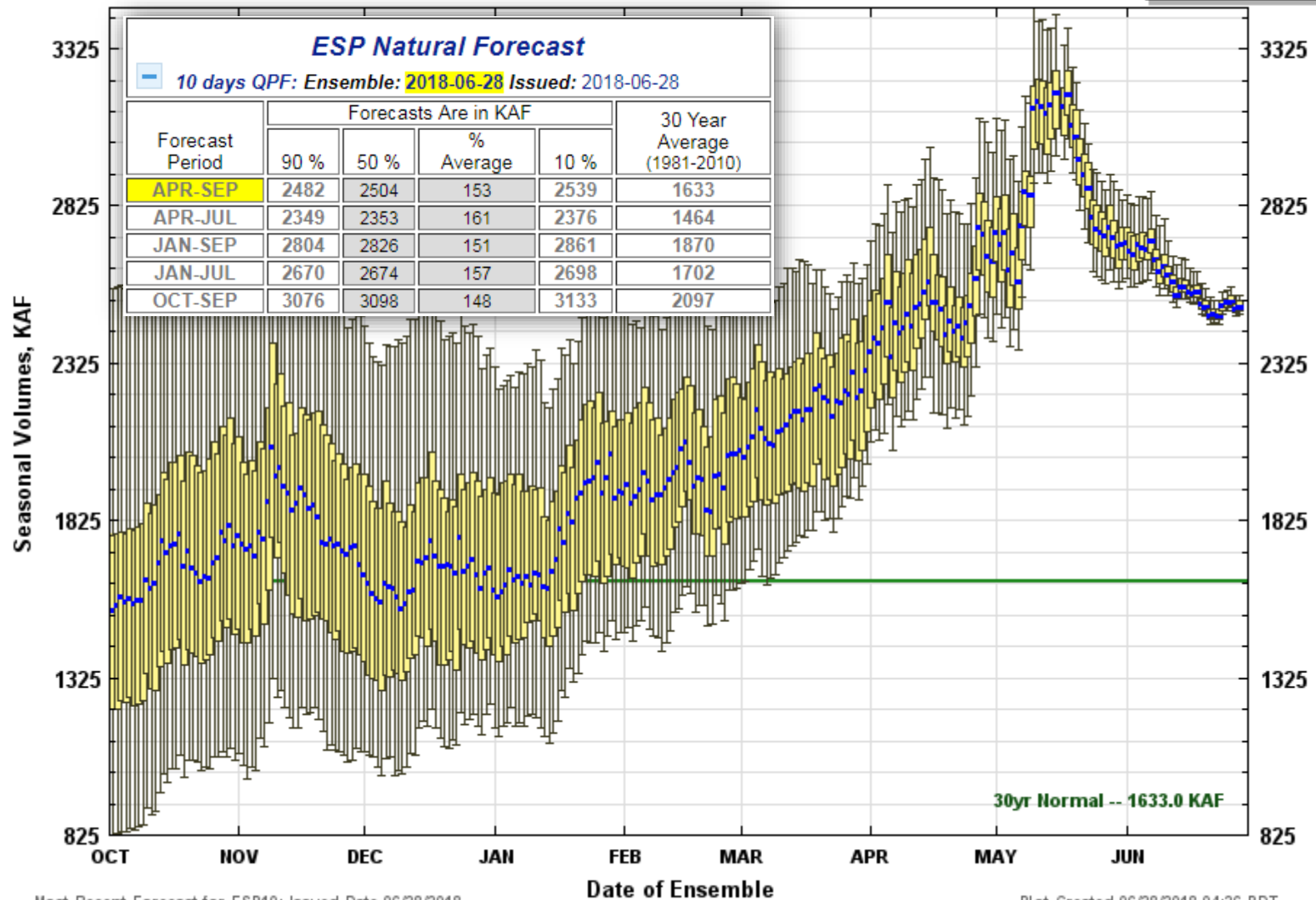
Forecast (% Normal)

- No Normal, No Data
- < 25
- 25-50
- 50-75
- 75-90
- 90-110
- 110-125
- 125-150
- 150-175
- > 175

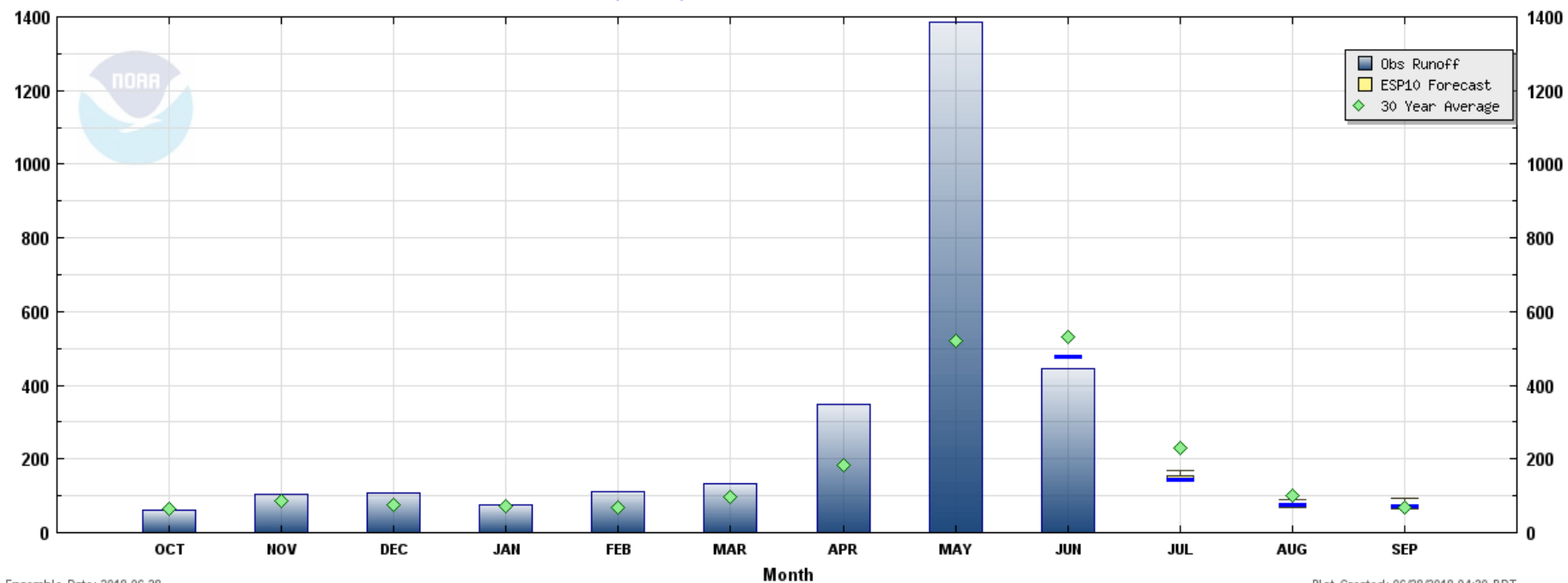


Natural Volume Forecasts OKANOGAN - NEAR TONASKET Period APR to SEP -- Water Year 2018

30yr Normal
 ESP10



Natural Volume Monthly Forecasts (ESP10) for Water Year 2018
(TONW1) OKANOGAN - NEAR TONASKET



Ensemble Date: 2018-06-28

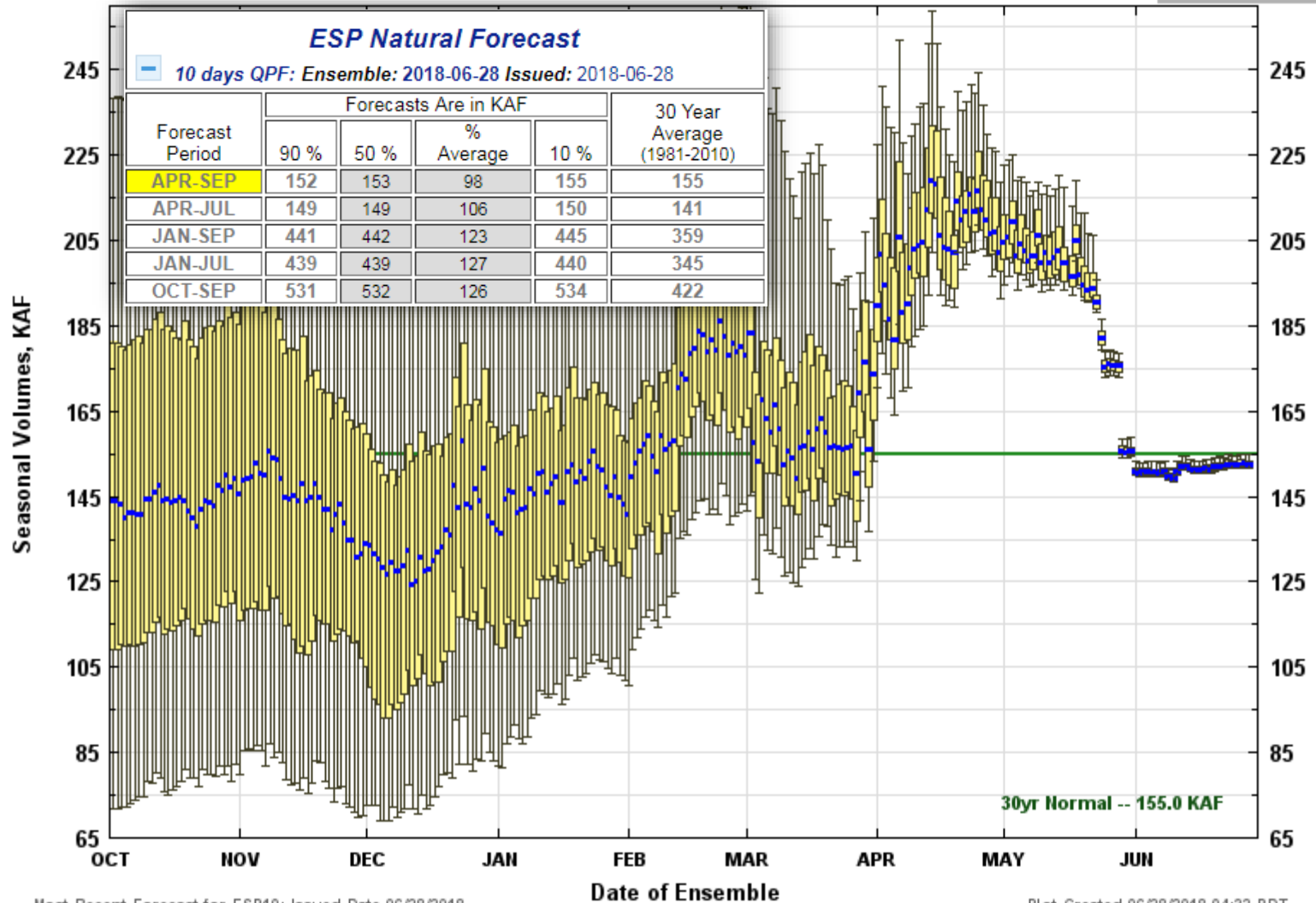
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Natural Volume Forecasts

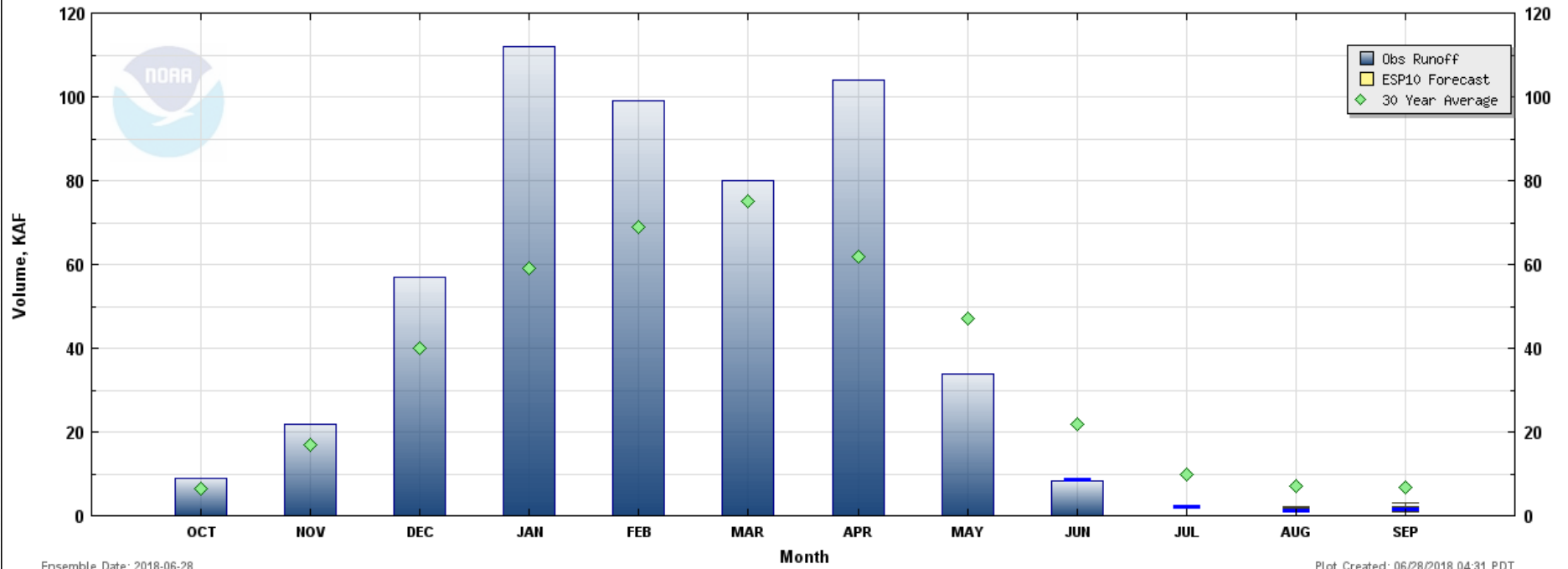
WALLA WALLA - NEAR TOUCHET

Period APR to SEP -- Water Year 2018

— 30yr Normal
 ■ ESP10



Natural Volume Monthly Forecasts (ESP10) for Water Year 2018
(TCHW1) WALLA WALLA - NEAR TOUCHET



Ensemble Date: 2018-06-28

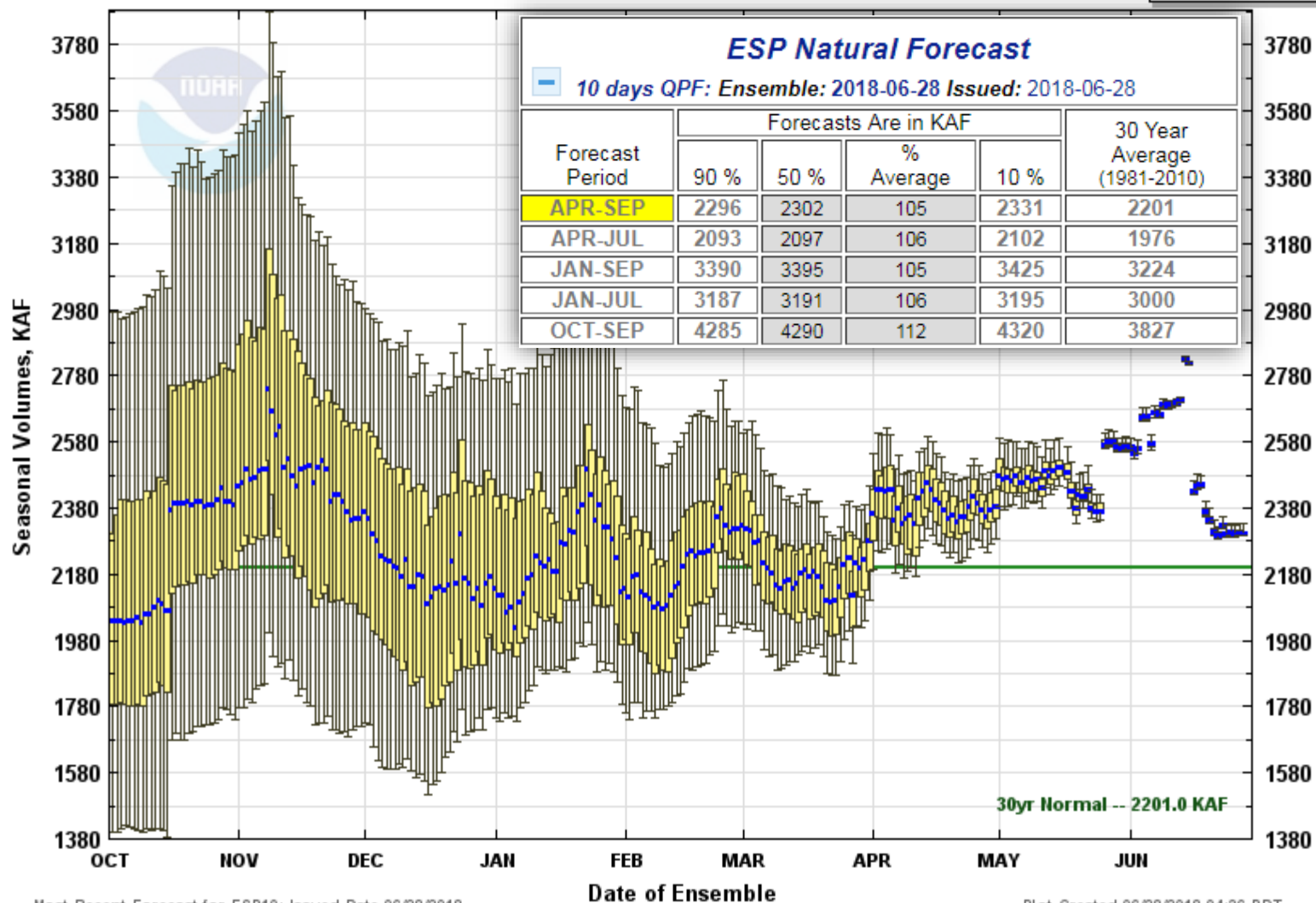
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Natural Volume Forecasts

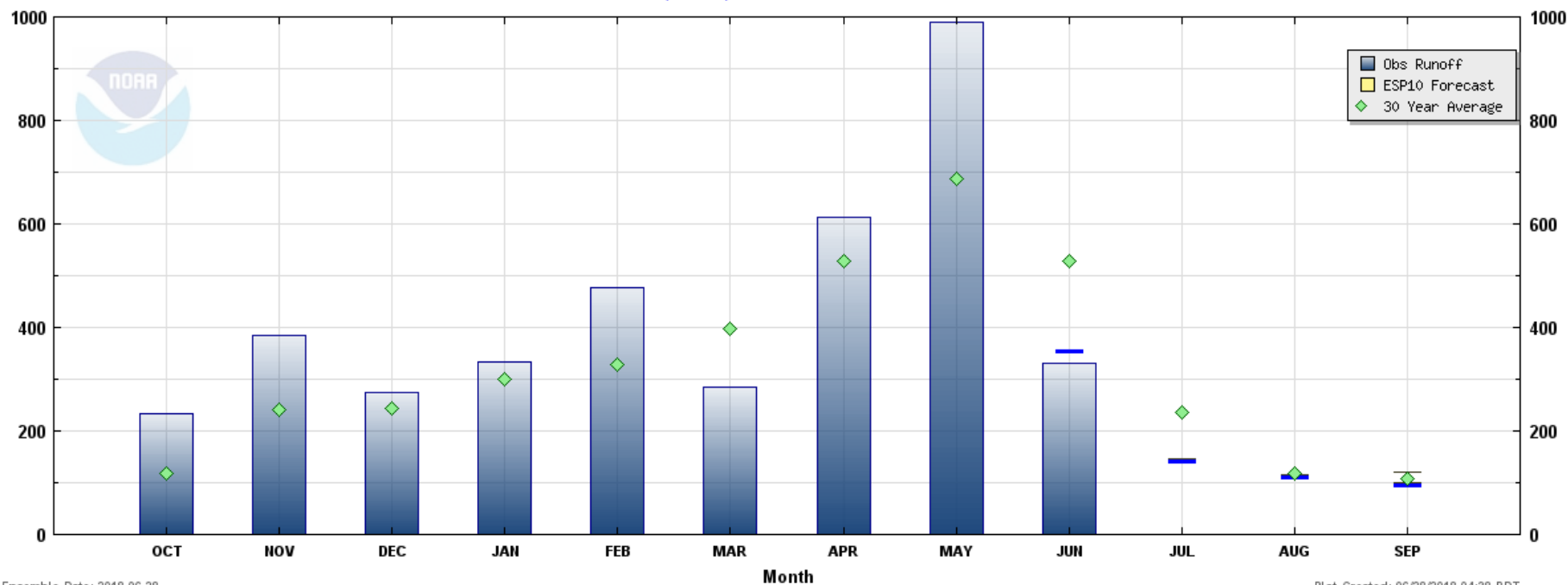
YAKIMA - AT KIONA

Period APR to SEP -- Water Year 2018

30yr Normal
ESP10



Natural Volume Monthly Forecasts (ESP10) for Water Year 2018 (KIOW1) YAKIMA - AT KIONA

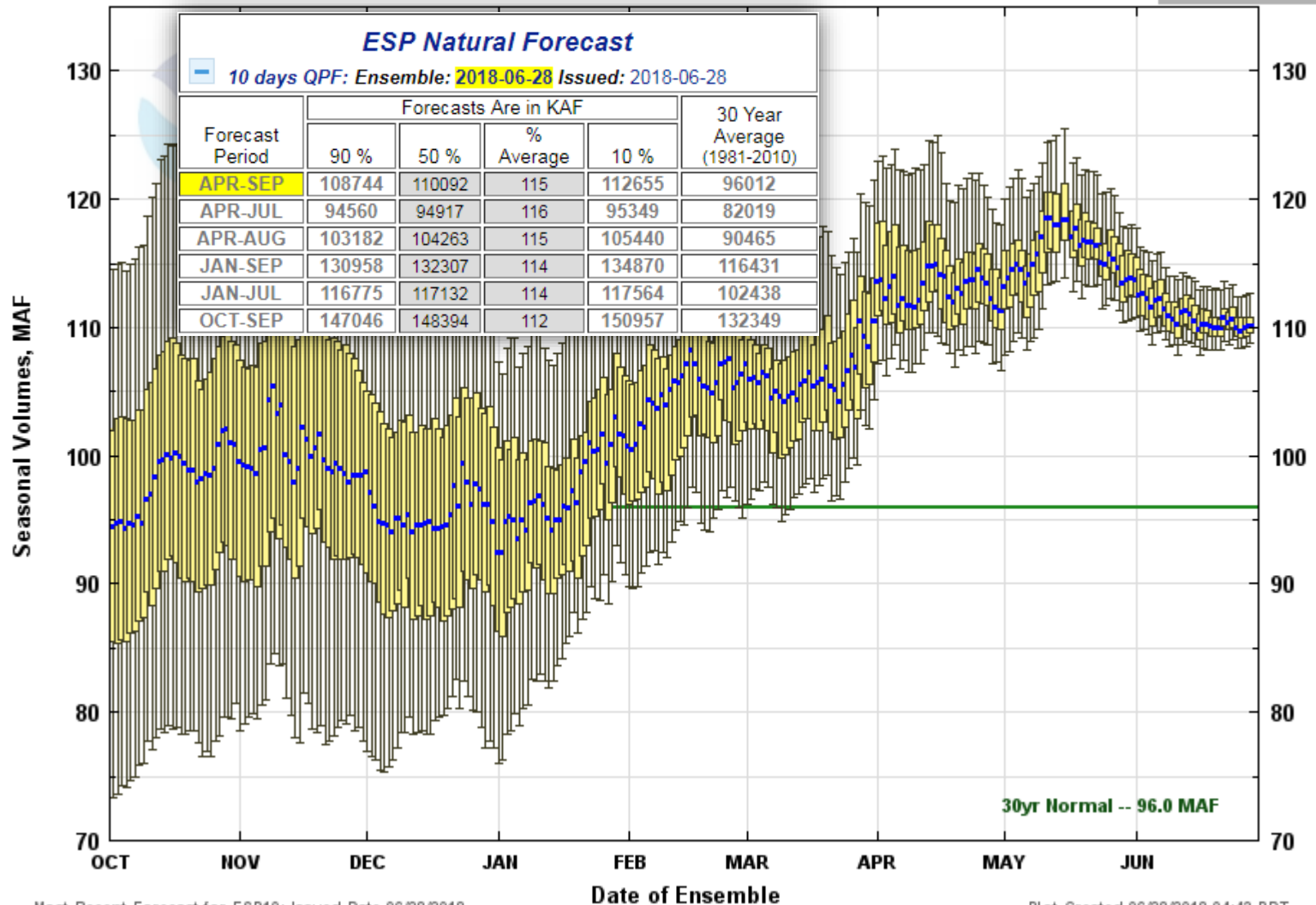


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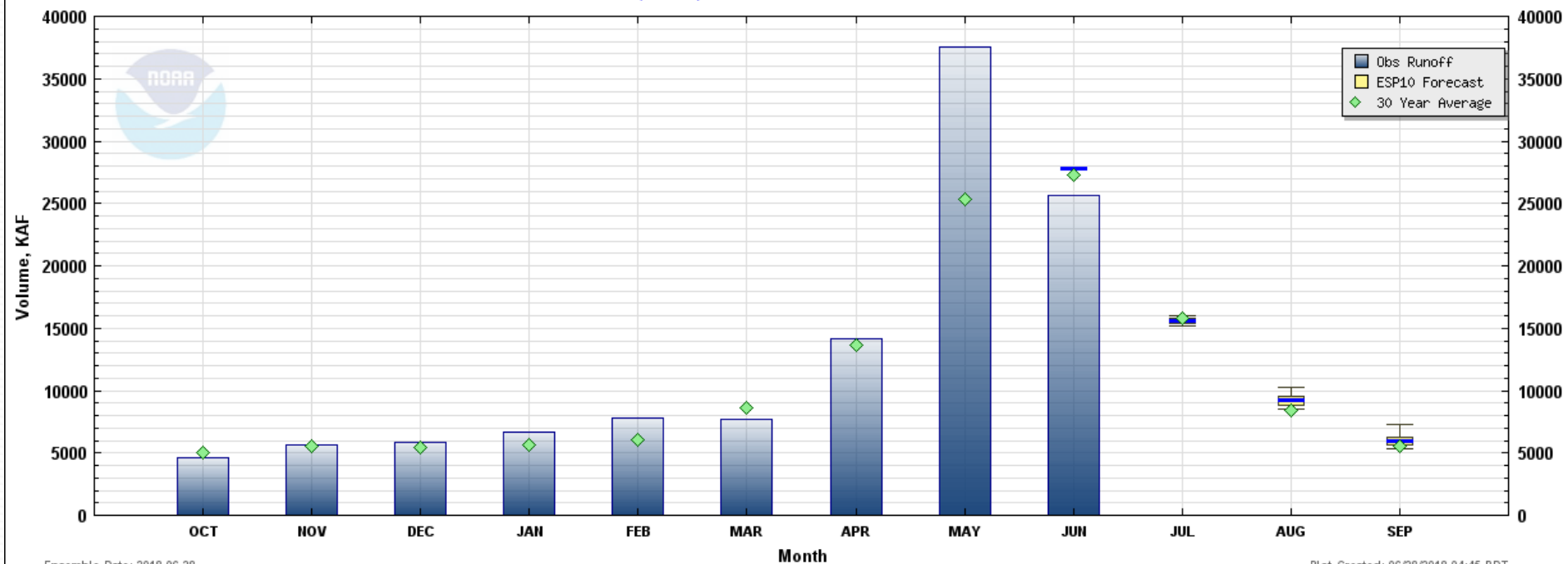
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Natural Volume Forecasts COLUMBIA - THE DALLES DAM Period APR to SEP -- Water Year 2018

30yr Normal
ESP10



Natural Volume Monthly Forecasts (ESP10) for Water Year 2018
(TDA03) COLUMBIA - THE DALLES DAM



Ensemble Date: 2018-06-28

Plot Created: 06/28/2018 04:45 PDT

Natural Volume Forecasts

SKAGIT - NEAR CONCRETE

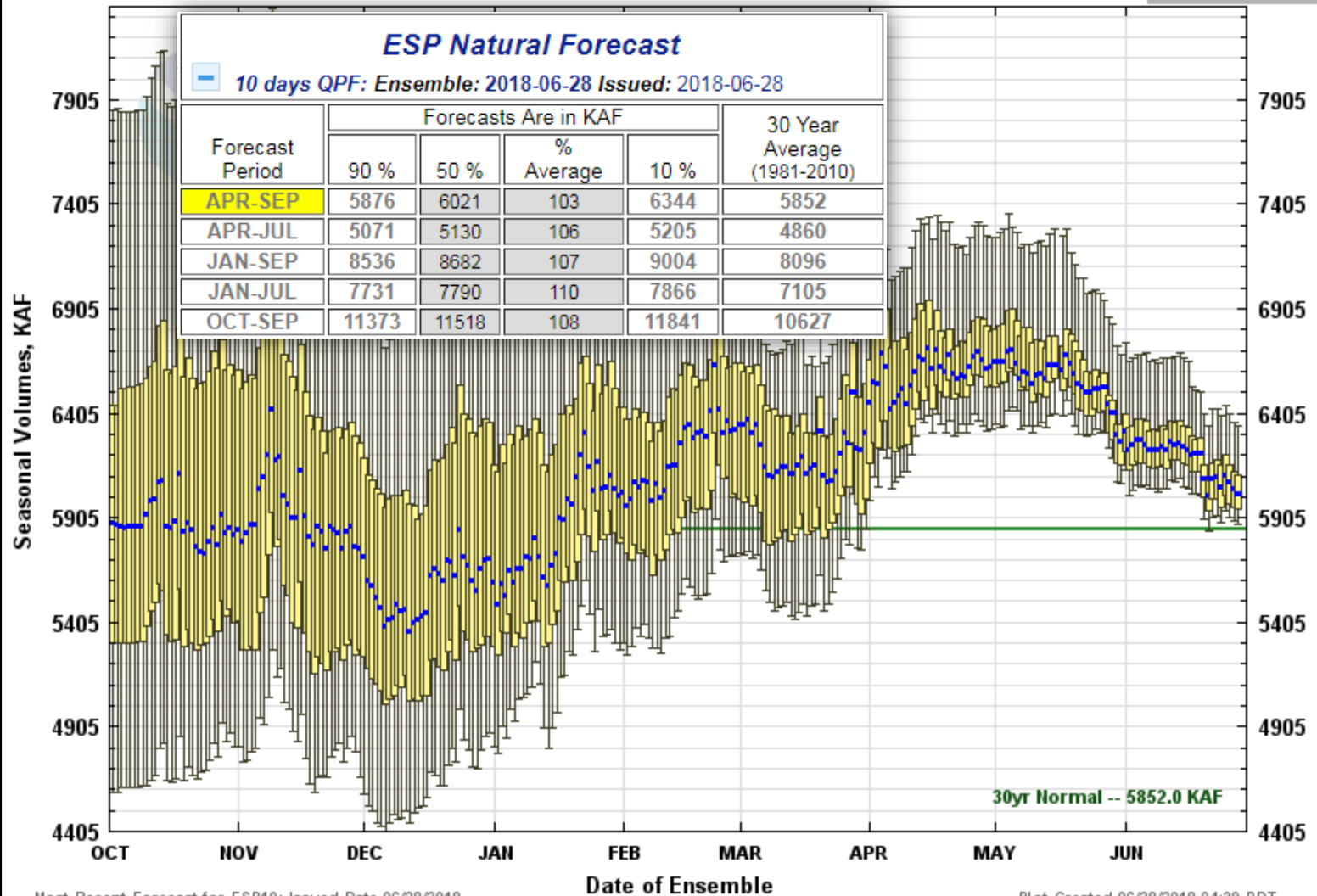
Period APR to SEP -- Water Year 2018

30yr Normal
ESP10

ESP Natural Forecast

10 days QPF: Ensemble: 2018-06-28 Issued: 2018-06-28

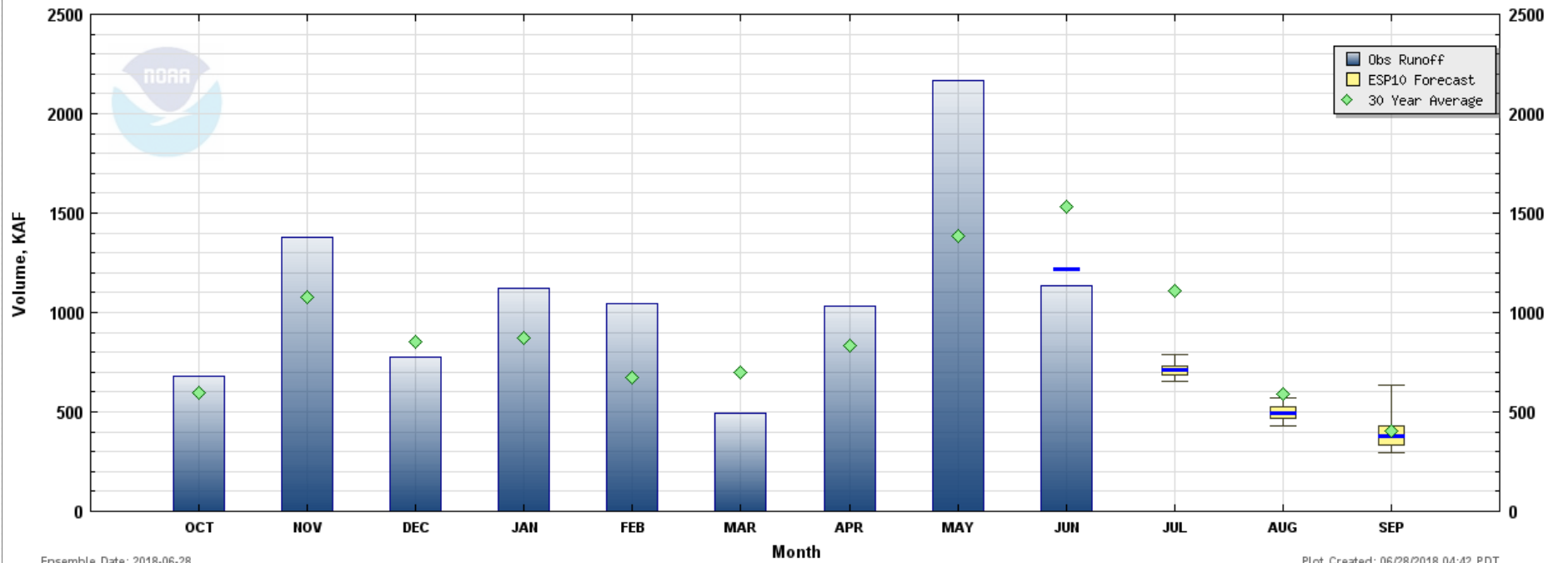
Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	5876	6021	103	6344	5852
APR-JUL	5071	5130	106	5205	4860
JAN-SEP	8536	8682	107	9004	8096
JAN-JUL	7731	7790	110	7866	7105
OCT-SEP	11373	11518	108	11841	10627



Most Recent Forecast for ESP10: Issued Date 06/28/2018

Plot Created 06/28/2018 04:39 PDT

Natural Volume Monthly Forecasts (ESP10) for Water Year 2018 (CONW1) SKAGIT - NEAR CONCRETE

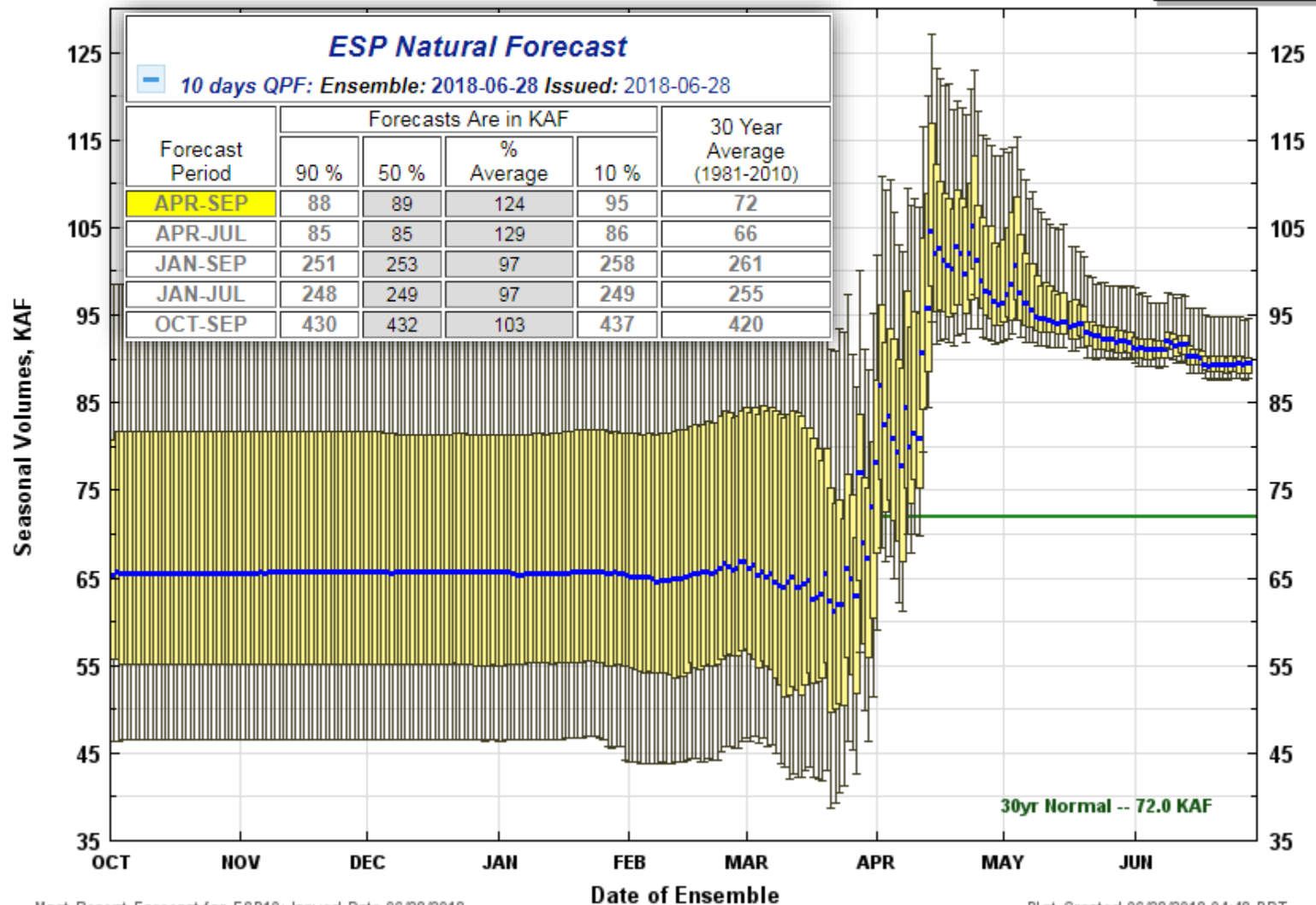


Ensemble Date: 2018-06-28

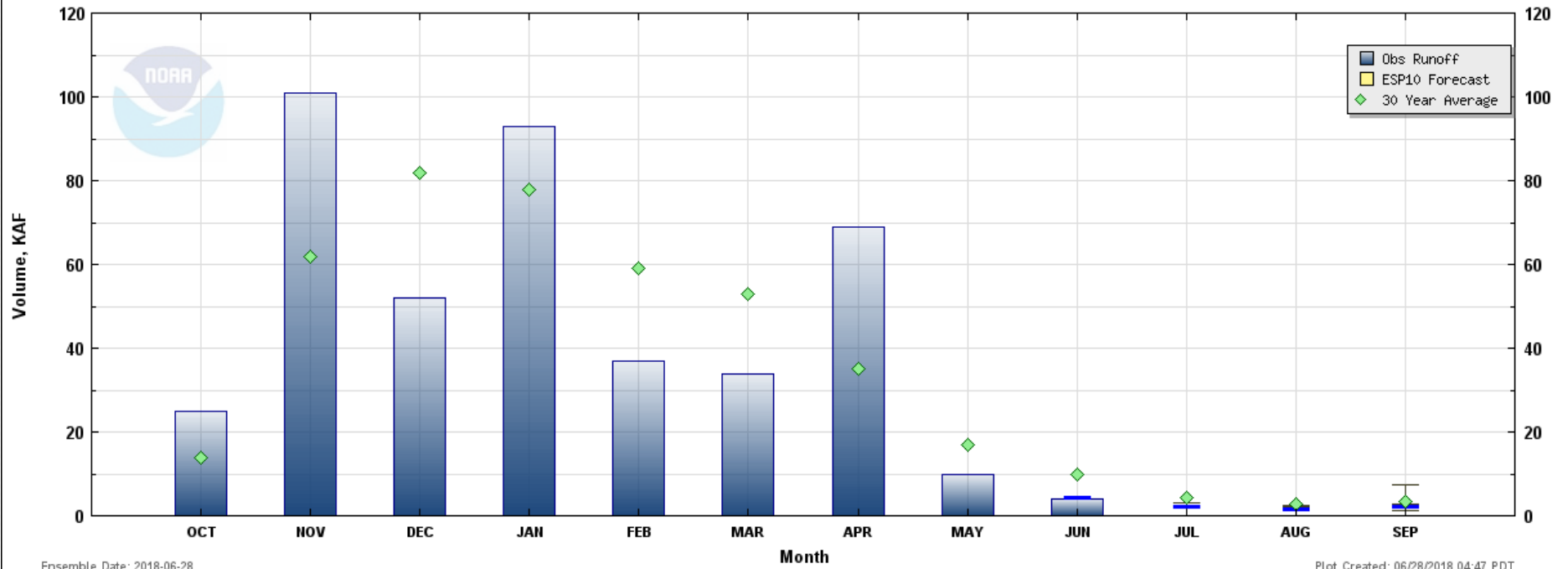
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Natural Volume Forecasts CHEHALIS - NEAR DOTY Period APR to SEP -- Water Year 2018

30yr Normal
ESP10



Natural Volume Monthly Forecasts (ESP10) for Water Year 2018
(DOTW1) CHEHALIS - NEAR DOTY



Ensemble Date: 2018-06-28

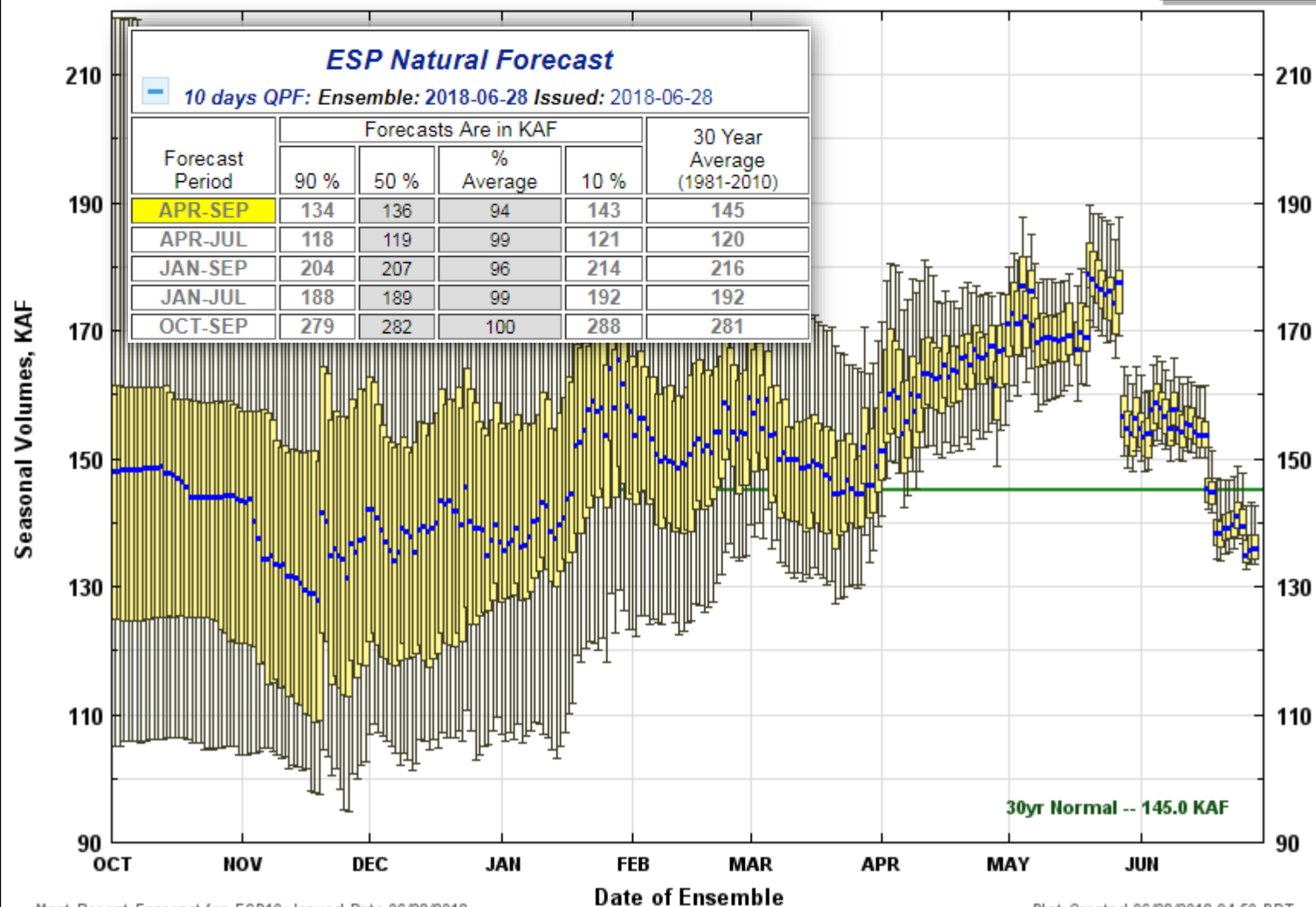
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Natural Volume Forecasts

DUNGENESS - NEAR SEQUIM

Period APR to SEP -- Water Year 2018

30yr Normal
ESP10



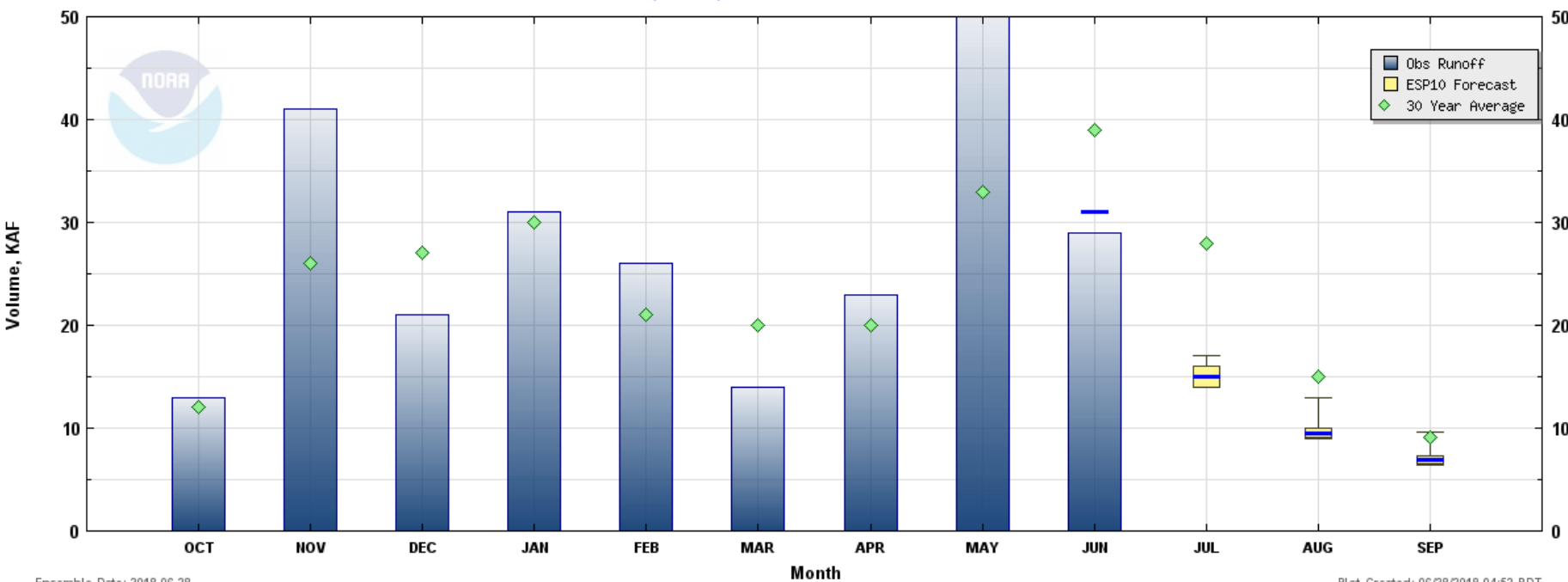
Most Recent Forecast for ESP10: Issued Date 06/28/2018

Plot Created 06/28/2018 04:50 PDT

Natural Volume Monthly Forecasts (ESP10) for Water Year 2018 (DRSW1) DUNGENESS - NEAR SEQUIM



- Obs Runoff
- ESP10 Forecast
- 30 Year Average

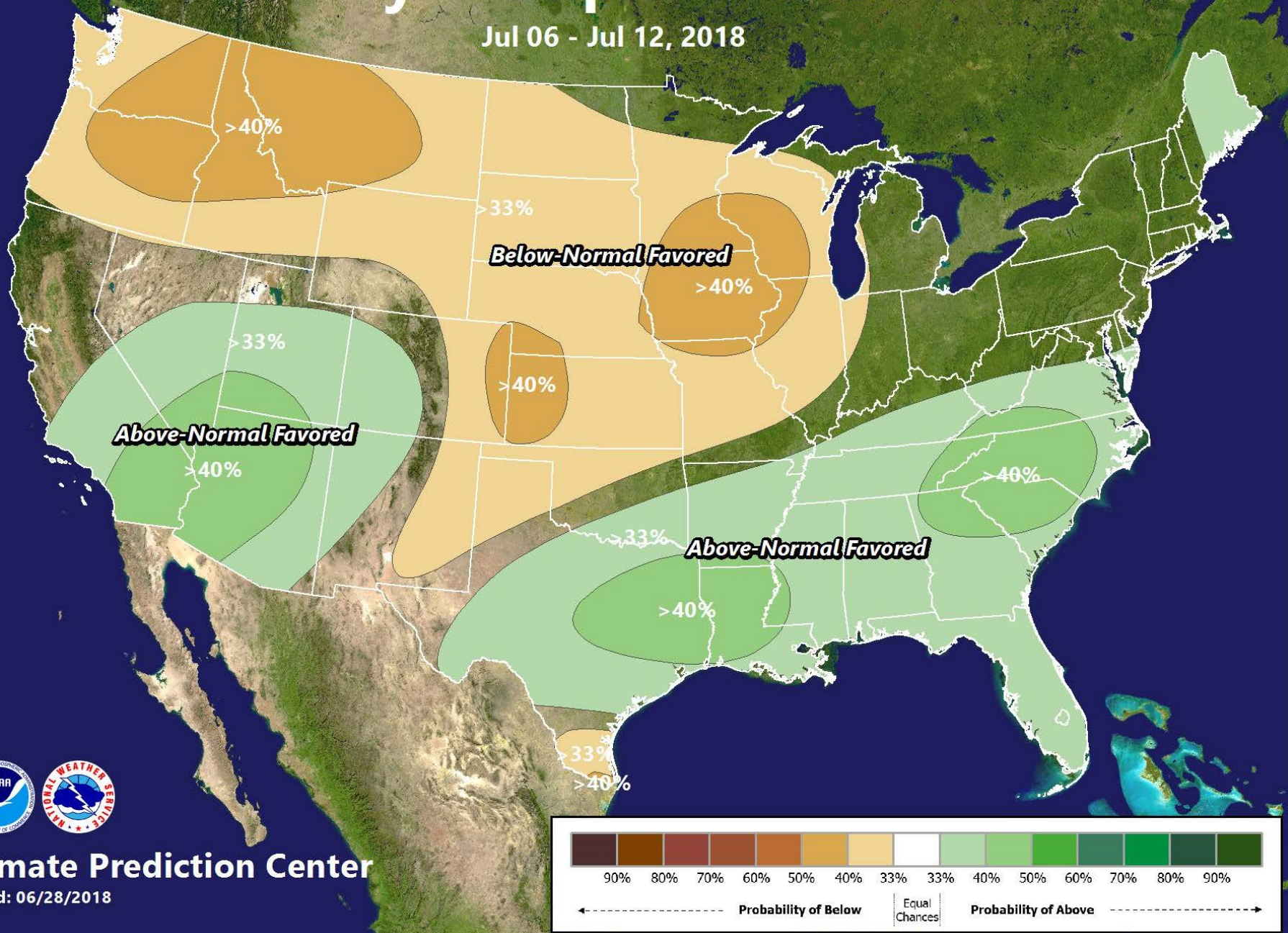


Ensemble Date: 2018-06-28

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8-14 Day Precipitation Outlook

Jul 06 - Jul 12, 2018

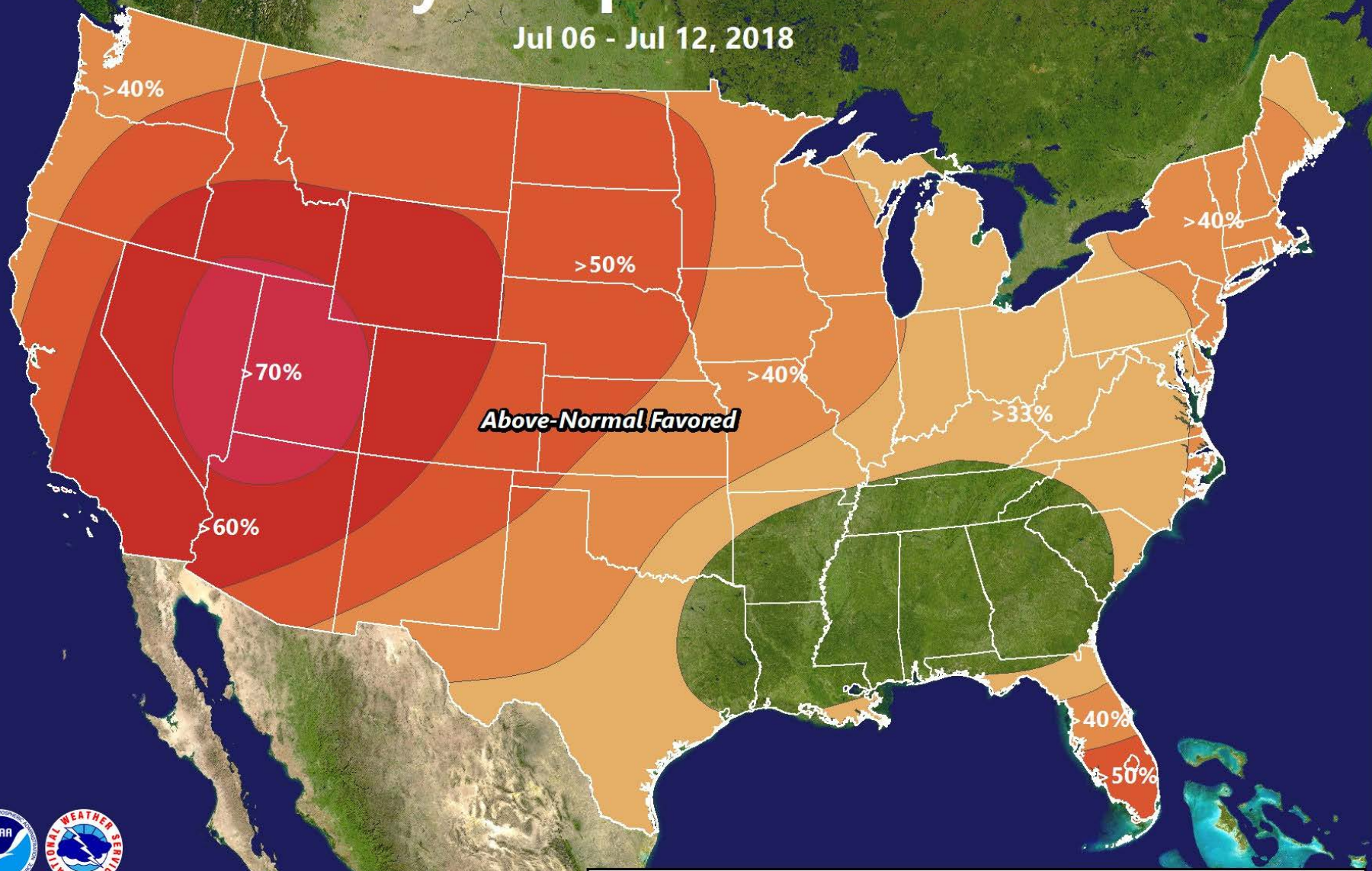


Climate Prediction Center

Issued: 06/28/2018

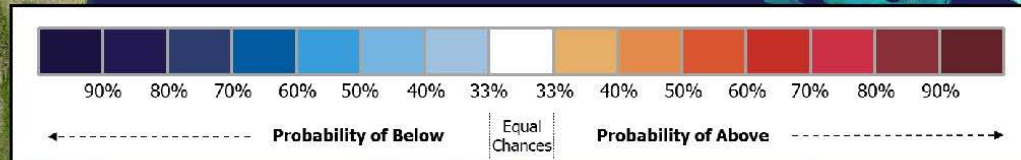
8-14 Day Temperature Outlook

Jul 06 - Jul 12, 2018



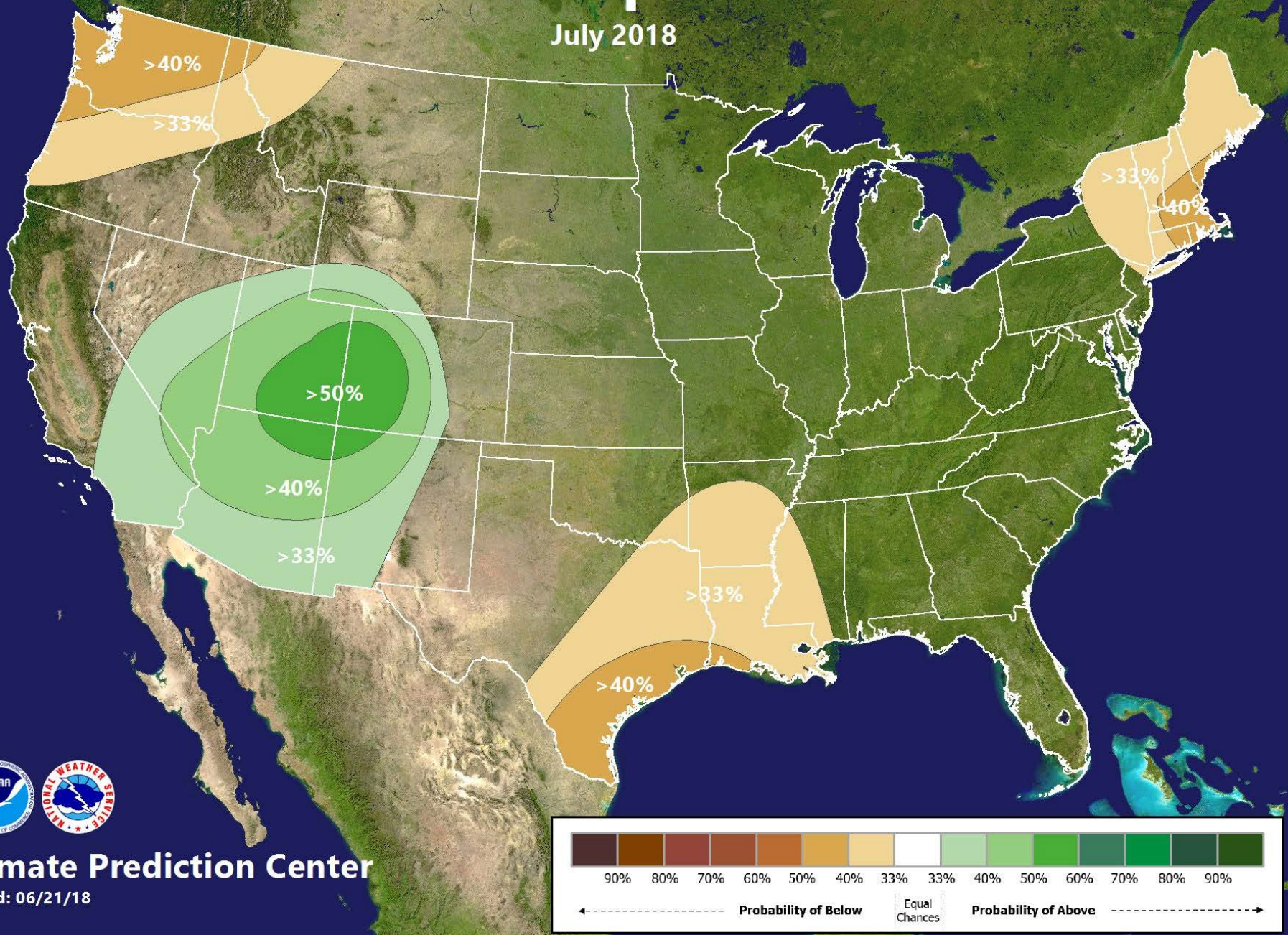
Climate Prediction Center

Issued: 06/28/2018



One-Month Precipitation Outlook

July 2018

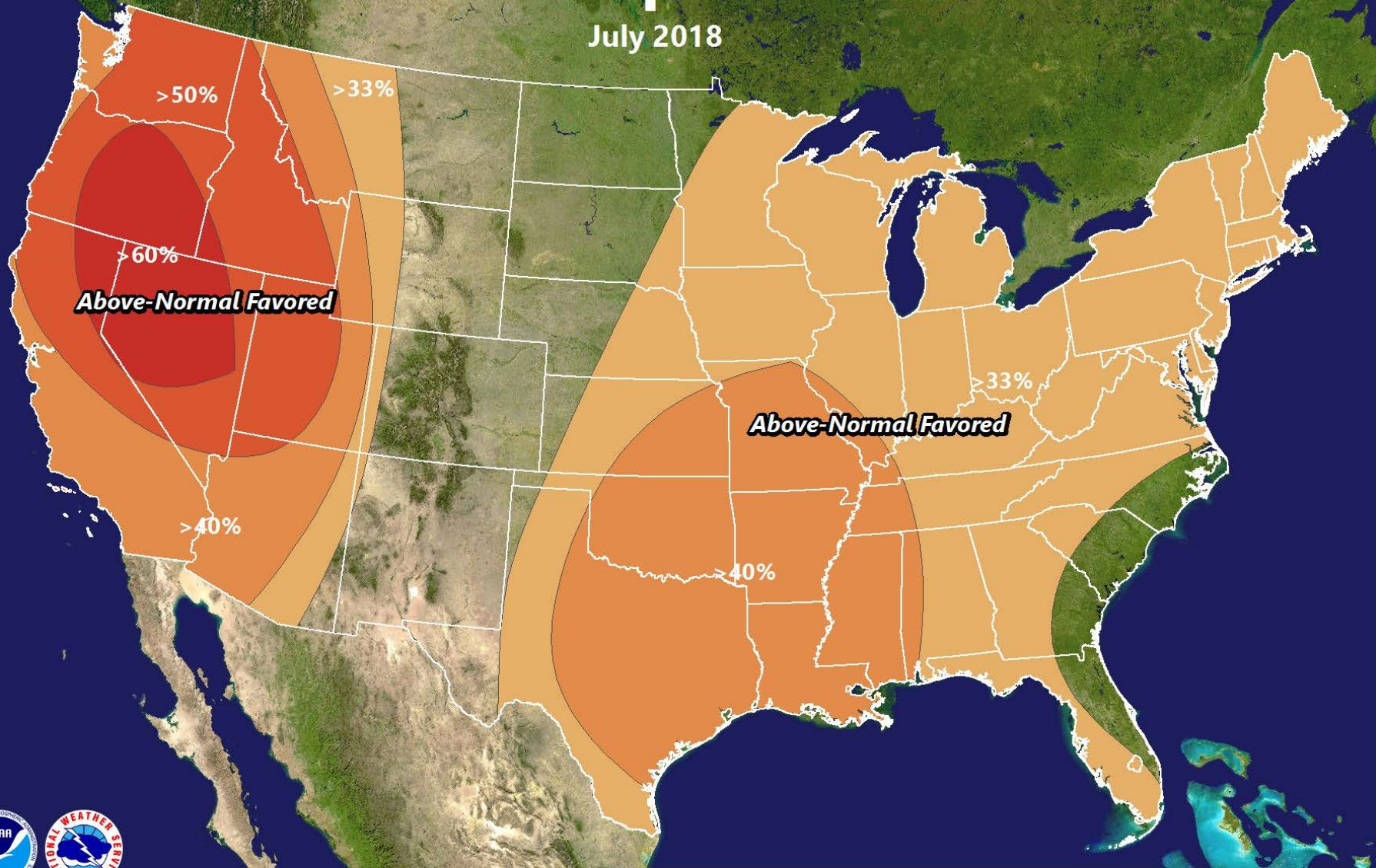


Climate Prediction Center

Issued: 06/21/18

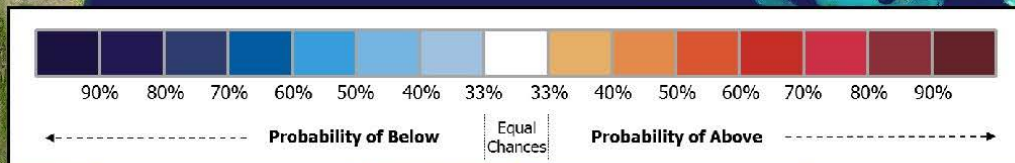
One-Month Temperature Outlook

July 2018



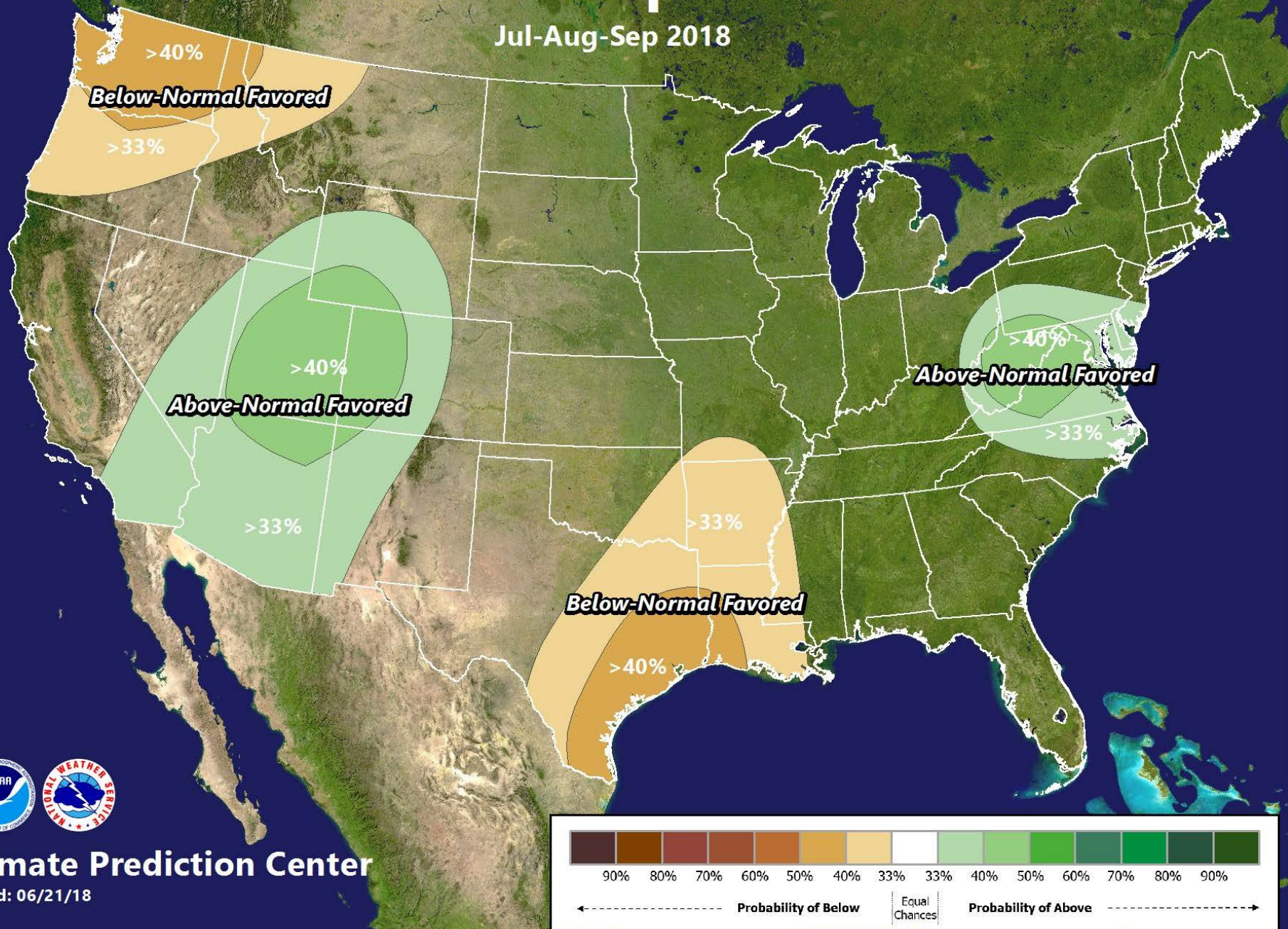
Climate Prediction Center

Issued: 06/21/18



Three-Month Precipitation Outlook

Jul-Aug-Sep 2018

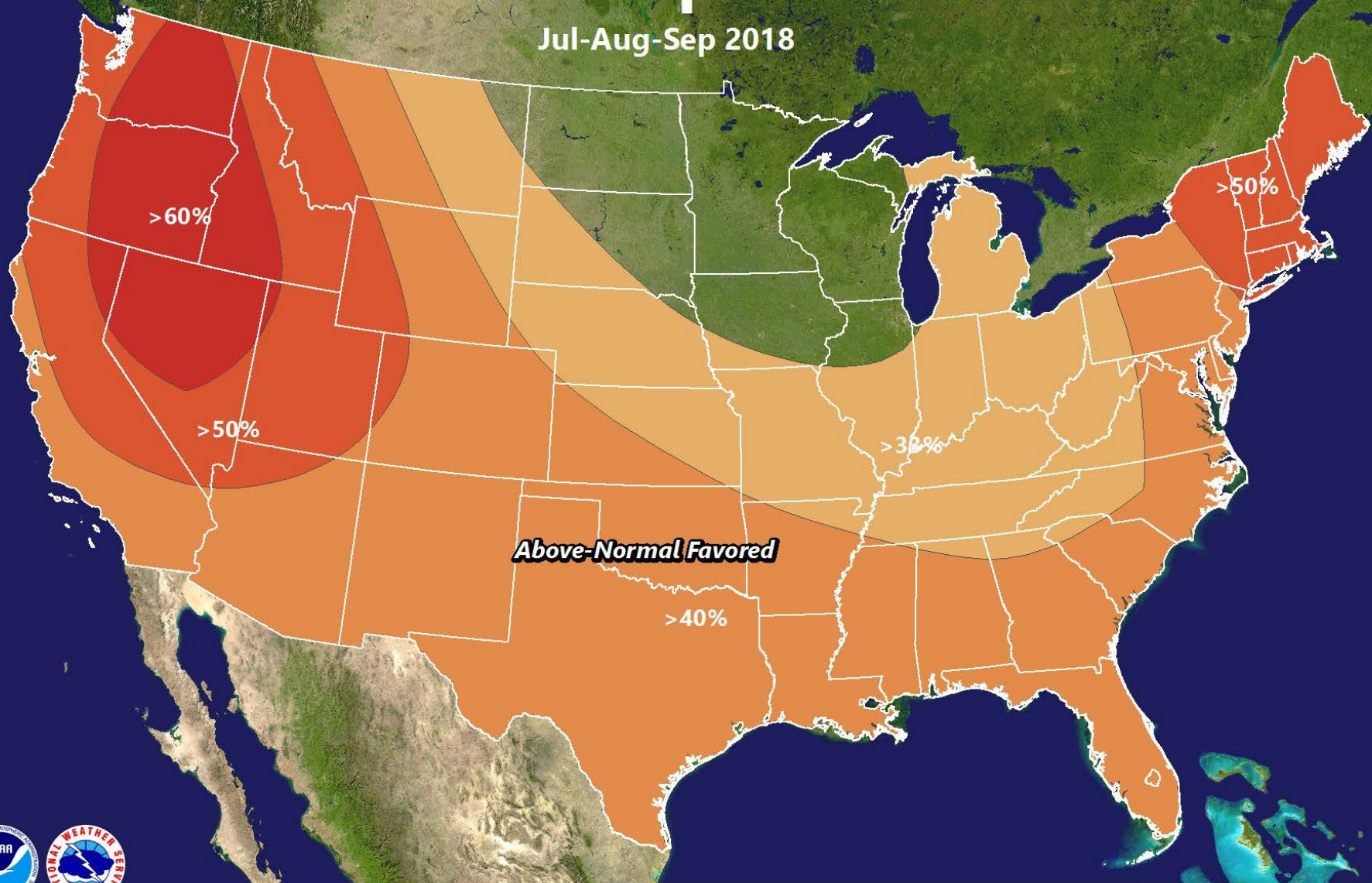


Climate Prediction Center

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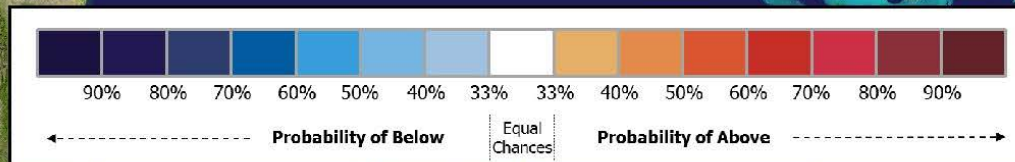
Three-Month Temperature Outlook

Jul-Aug-Sep 2018



Climate Prediction Center

Issued: 06/21/18





Thanks! Questions?

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www.cpc.ncep.noaa.gov