PNW climate & drought update

Kathie Dello Climate Impacts Research Consortium (CIRC)



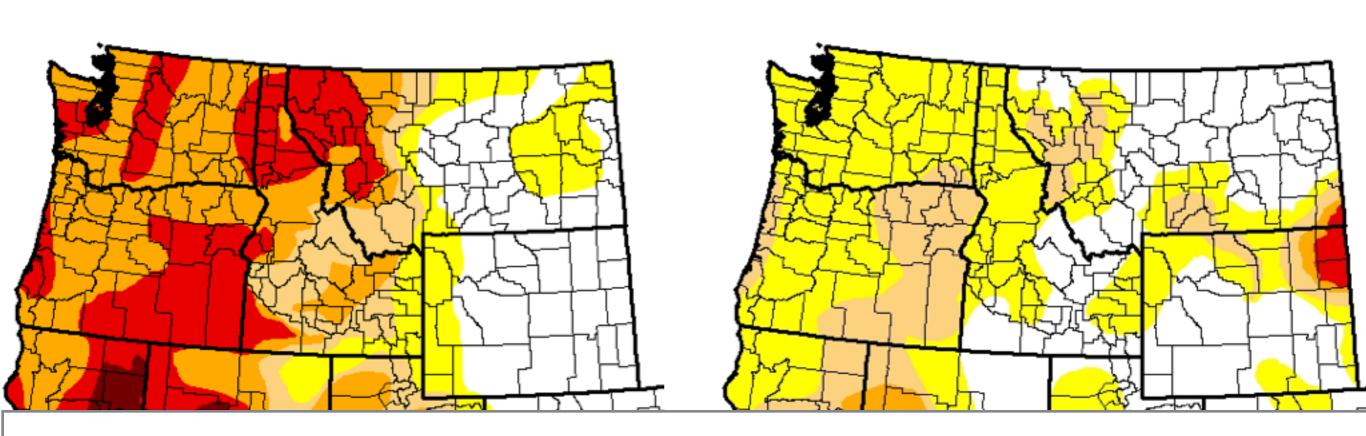


July 28, 2015

Today

U.S. Drought Monitor West

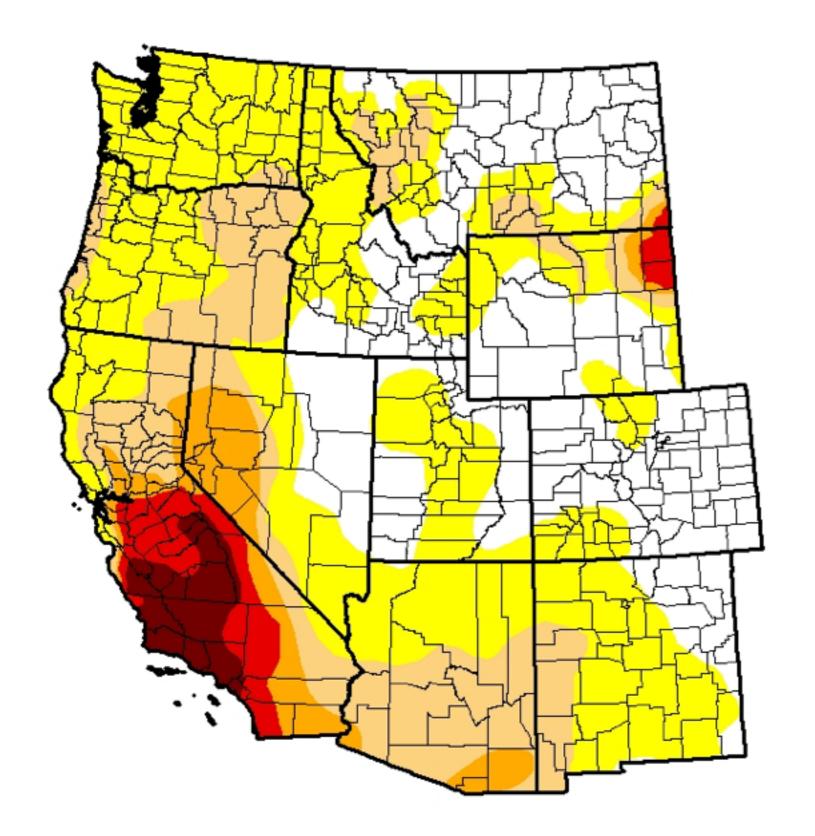
U.S. Drought Monitor West





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

U.S. Drought Monitor West



July 19, 2016

(Released Thursday, Jul. 21, 2016)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Сиптепт	31.17	68.83	29.17	11.44	6.18	2.81
Last Week 7/12/2016	34.31	65.69	28.08	11.11	5.80	2.81
3 Month's Ago 4/19/2016	40.56	59.44	34.76	14.89	8.71	2.81
Start of Calendar Year 12/29/2015	33.17	66.83	45.07	29.30	15.92	6.85
Start of Water Year 9/29/2015	22.77	77.23	57.81	42.42	26.50	7.62
One Year Ago 7/21/2015	25.49	74.51	61.04	41.92	18.87	7.17

Intensity:

D0 Abnomally Dry
D1 Moderate Drought
D2 Severe Drought

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

Author:

Chris Fenimore NCEI/NESDIS/NOAA





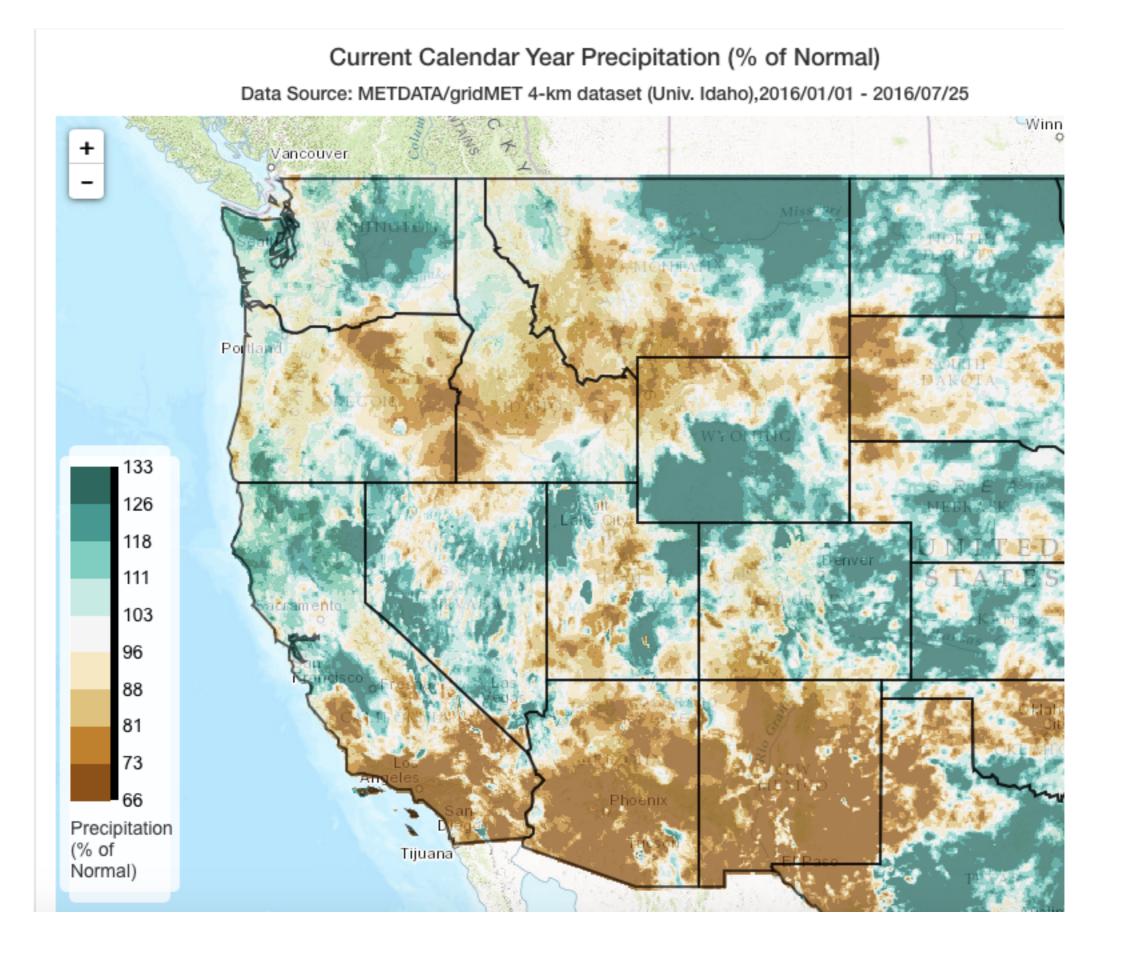




http://droughtmonitor.unl.edu/

Current Calendar Year Air Temperature (Departure from Normal, Degrees F) Data Source: METDATA/gridMET 4-km dataset (Univ. Idaho),2016/01/01 - 2016/07/25 Calgary Regina Winnipeg Vancouver MINNESO Por Denver cram ento Oklahoma Temperature Departure from Normal Phoenix (deg F)

NW Climate Toolbox



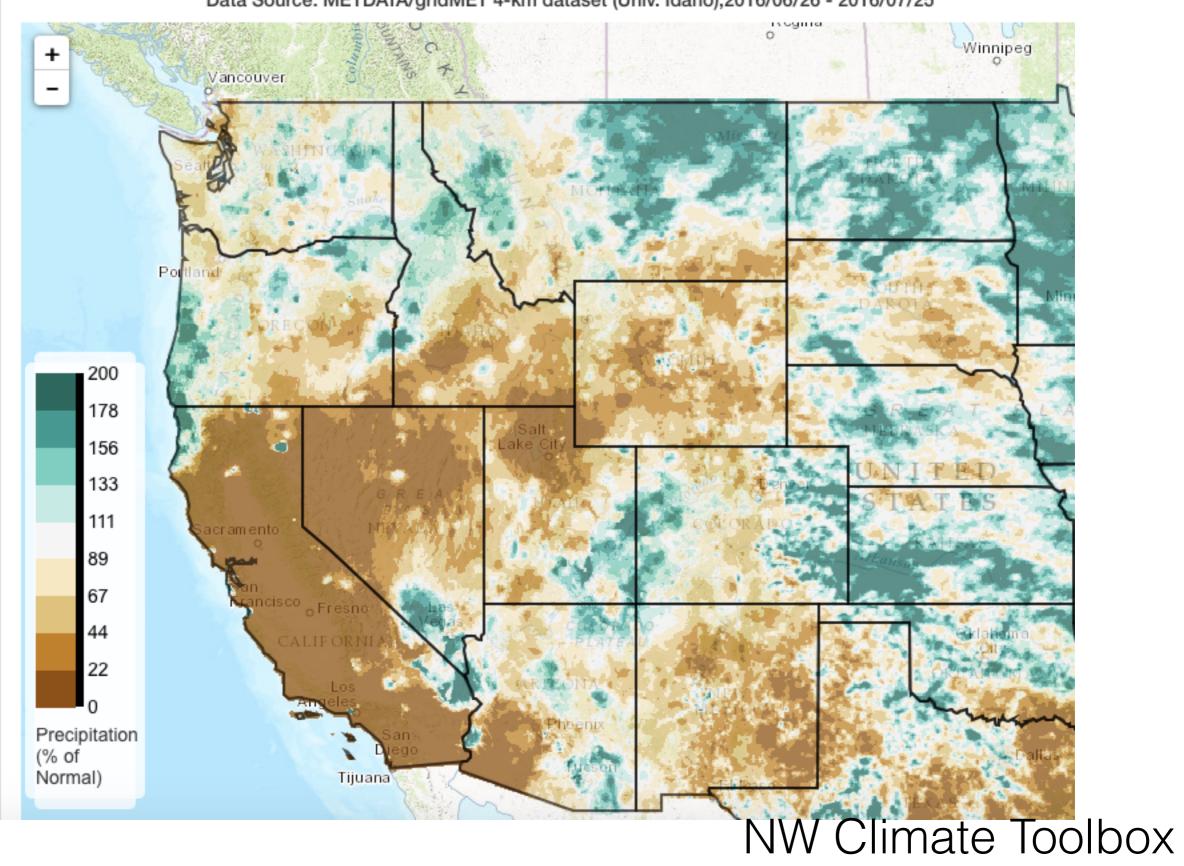
NW Climate Toolbox

Last 30 Days Air Temperature (Departure from Normal, Degrees F) Data Source: METDATA/gridMET 4-km dataset (Univ. Idaho),2016/06/26 - 2016/07/25 Calgary + Regina o Winni Vancouver NORTH DAKOTA Portland WYOMING GREAT NEBRASKA Salt Denver -2 CLORADO ... -3 -5 noisco egas Oklaho Temperature Departure ARIZONA from Normal Phoenix (deg F)

NW Climate Toolbox

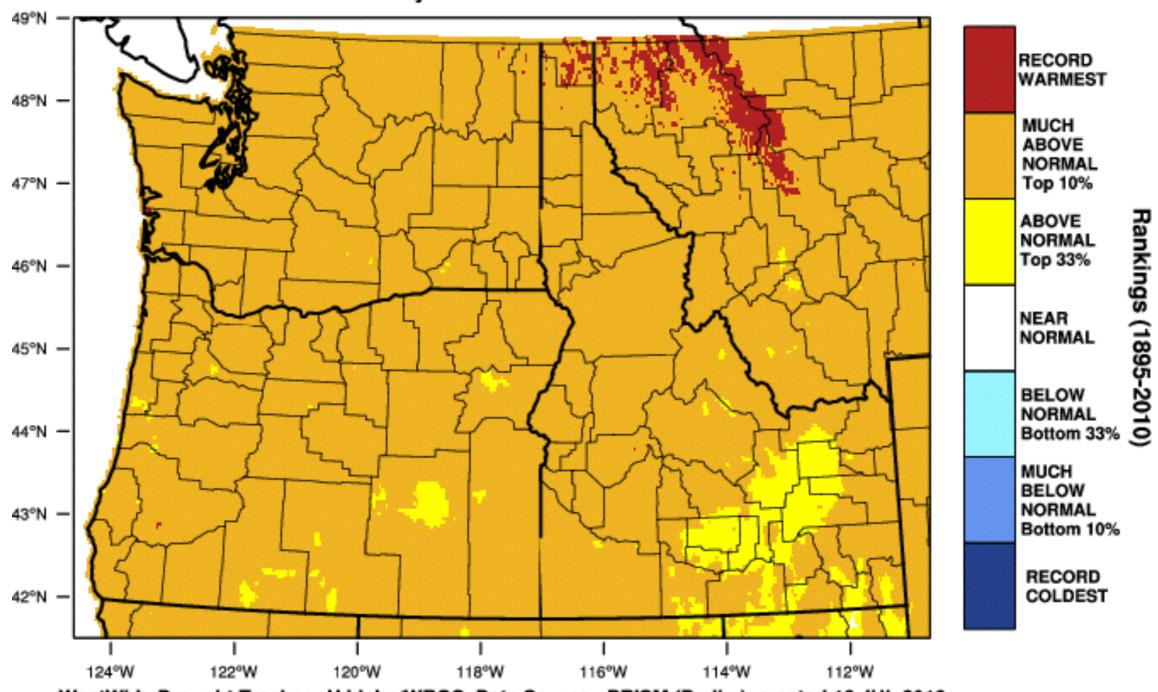
Last 30 Days Precipitation (% of Normal)

Data Source: METDATA/gridMET 4-km dataset (Univ. Idaho),2016/06/26 - 2016/07/25



Pacific Northwest - Mean Temperature

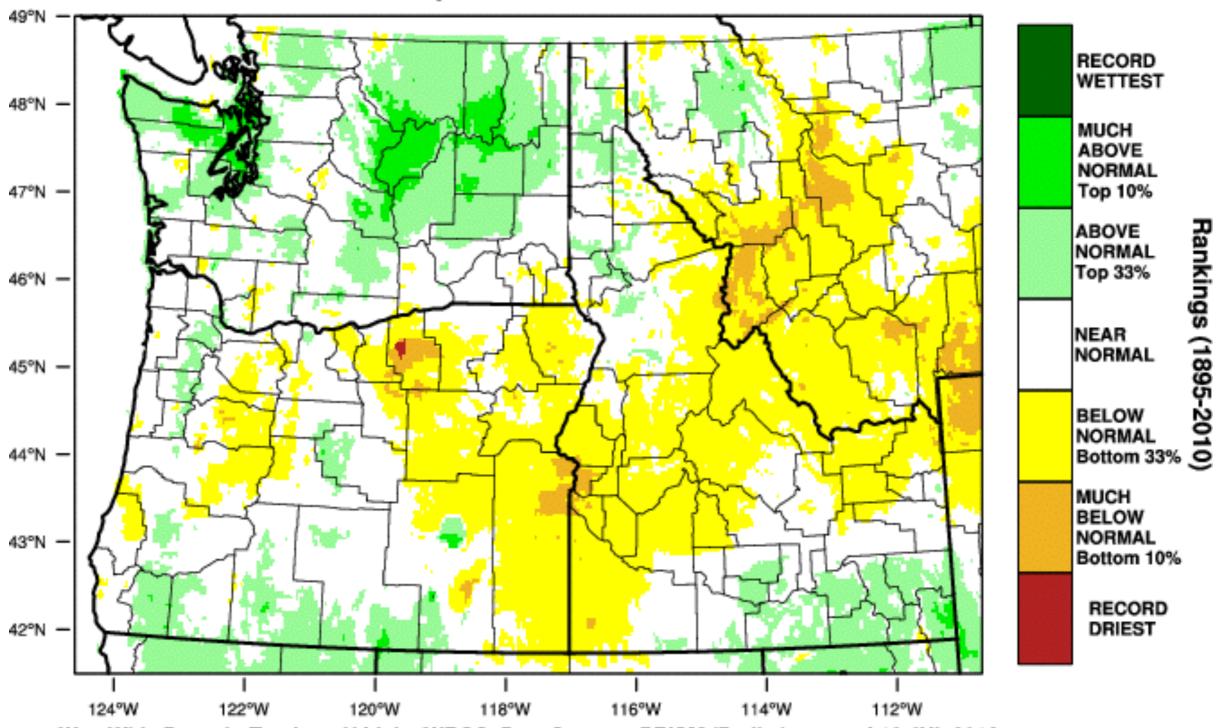
January-June 2016 Percentile



WestWide Drought Tracker - U Idaho/WRCC Data Source - PRISM (Prelim), created 16 JUL 2016

Pacific Northwest - Precipitation

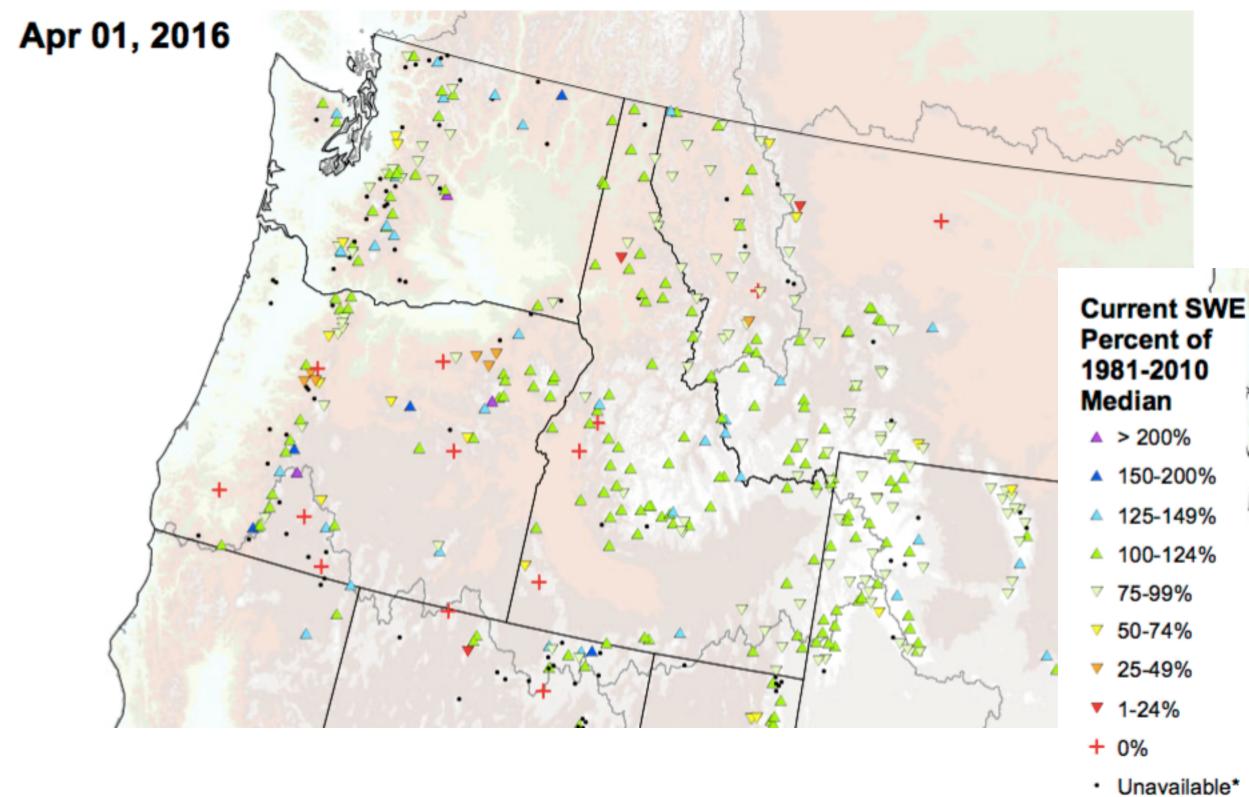
January-June 2016 Percentile



WestWide Drought Tracker - U Idaho/WRCC Data Source - PRISM (Prelim), created 16 JUL 2016

West Wide Drought Tracker

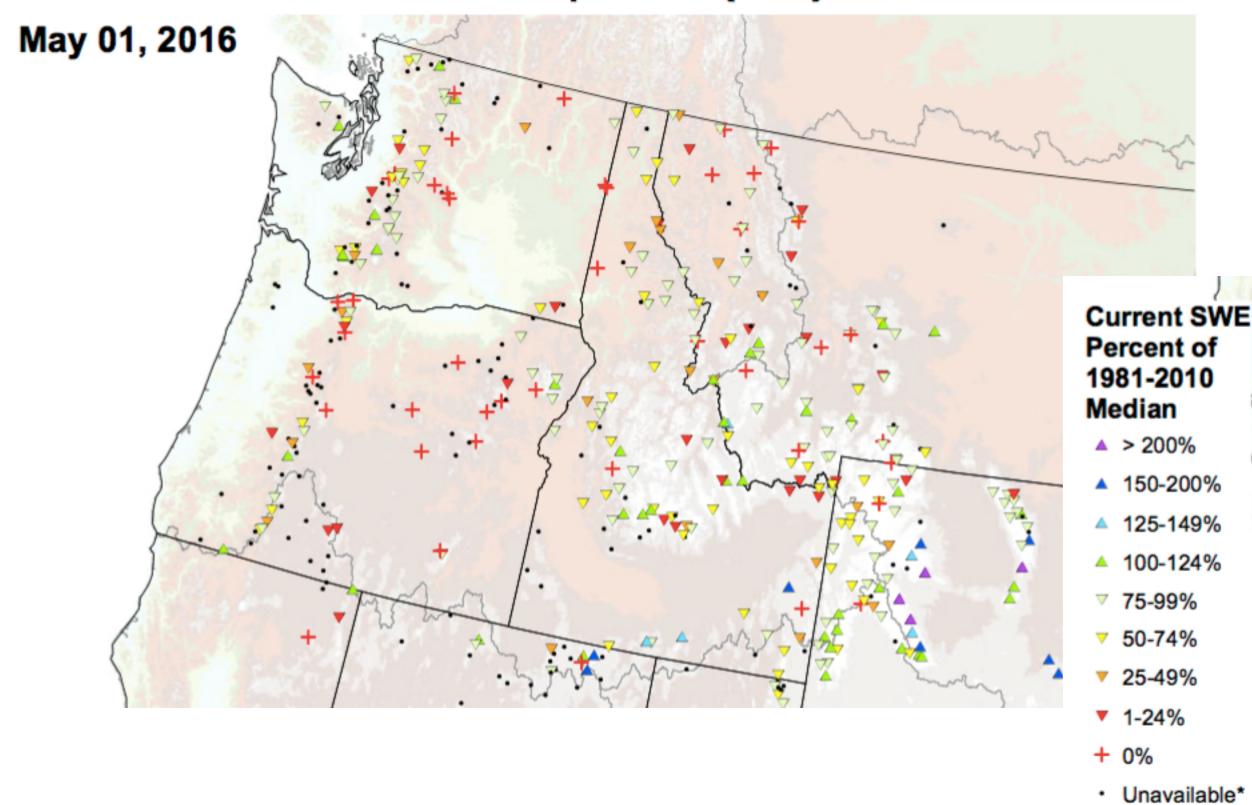
SNOTEL Current Snow Water Equivalent (SWE) Percent of Normal



NRCS

 Data unavailable at tin of posting or long-term normal not available at

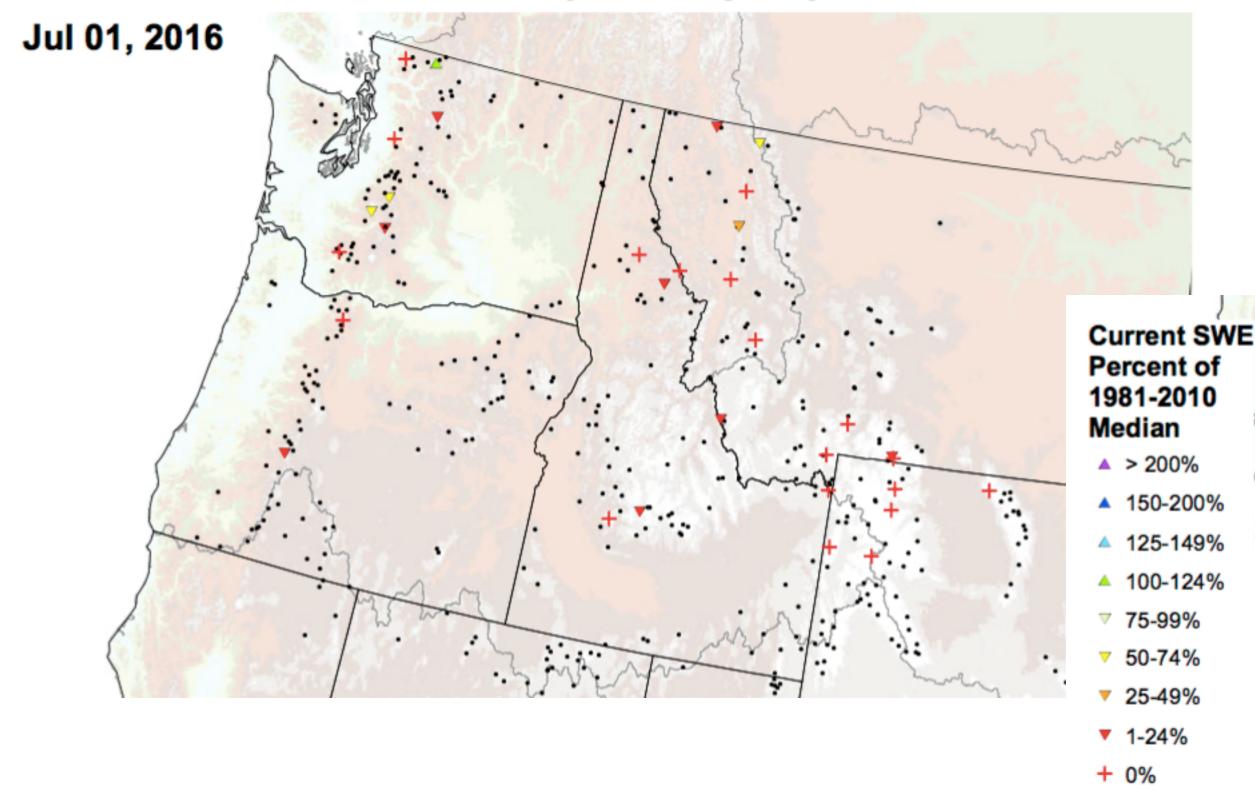
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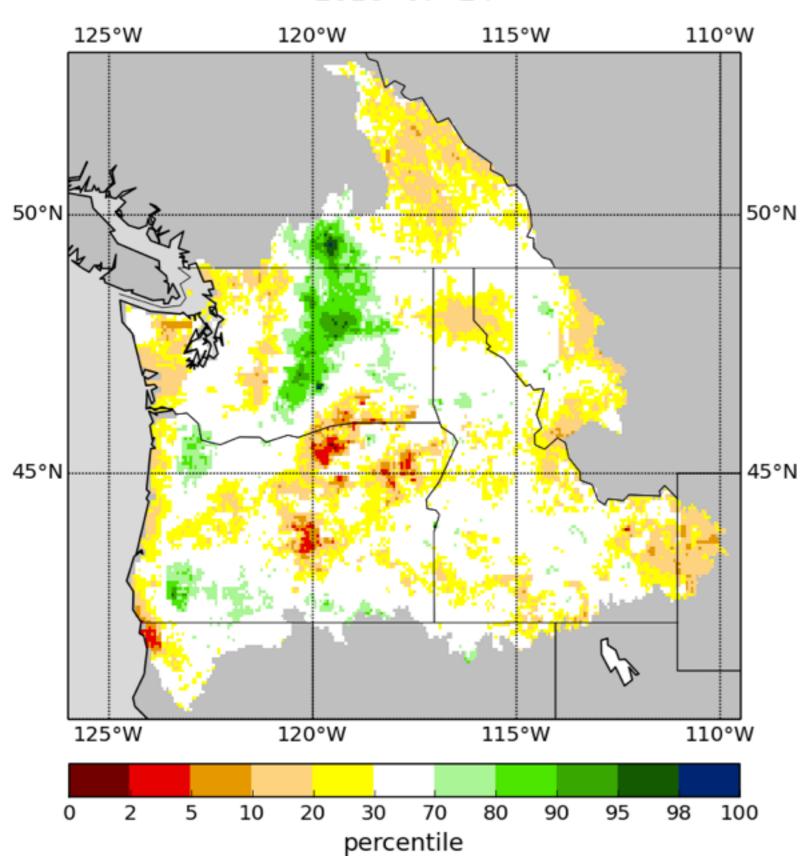
NRCS

Unavailable*

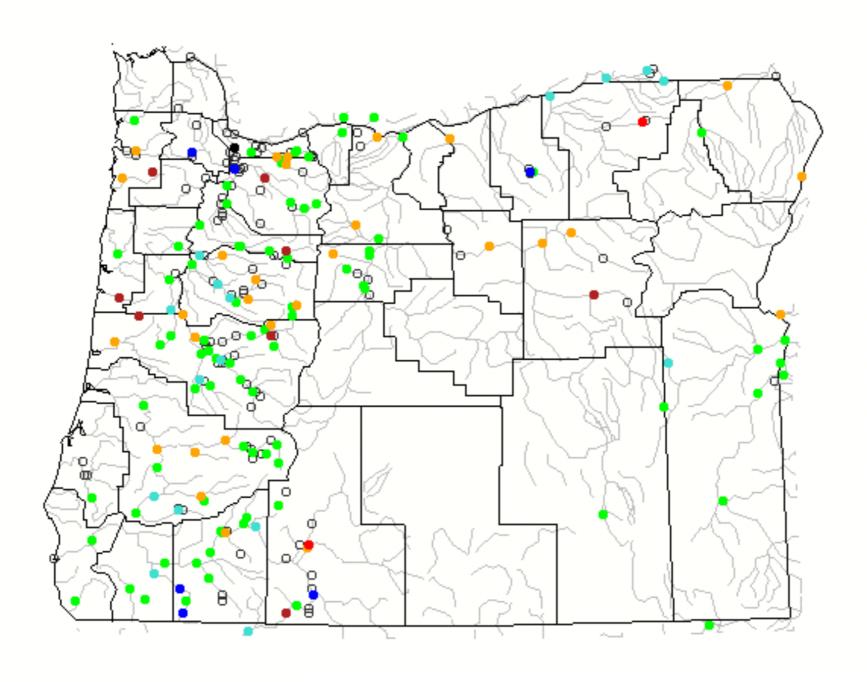
 Data unavailable at tin of posting or long-term normal not available at

Soil Moisture Percentile

2016--07--24



UW Drought Monitor





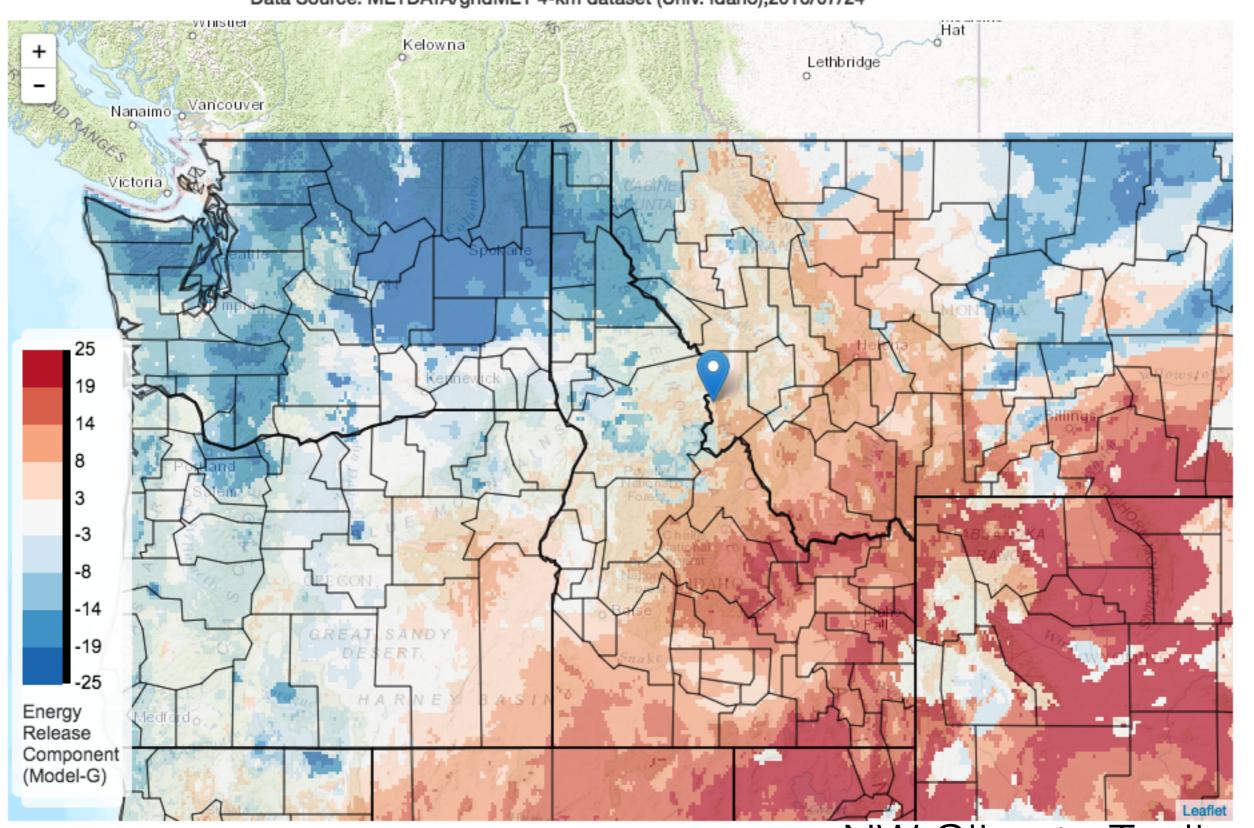
Choose a data retrieval option and select a location on the map

List of all stations • Single station • Nearest stations • Peak flow

Explanation - Percentile classes								
			•			•	0	
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked	
	Much below normal	Below normal	Normal	Above	Much above normal			

Energy Release Component (Model-G), Departure from Normal

Data Source: METDATA/gridMET 4-km dataset (Univ. Idaho),2016/07/24



NW Climate Toolbox

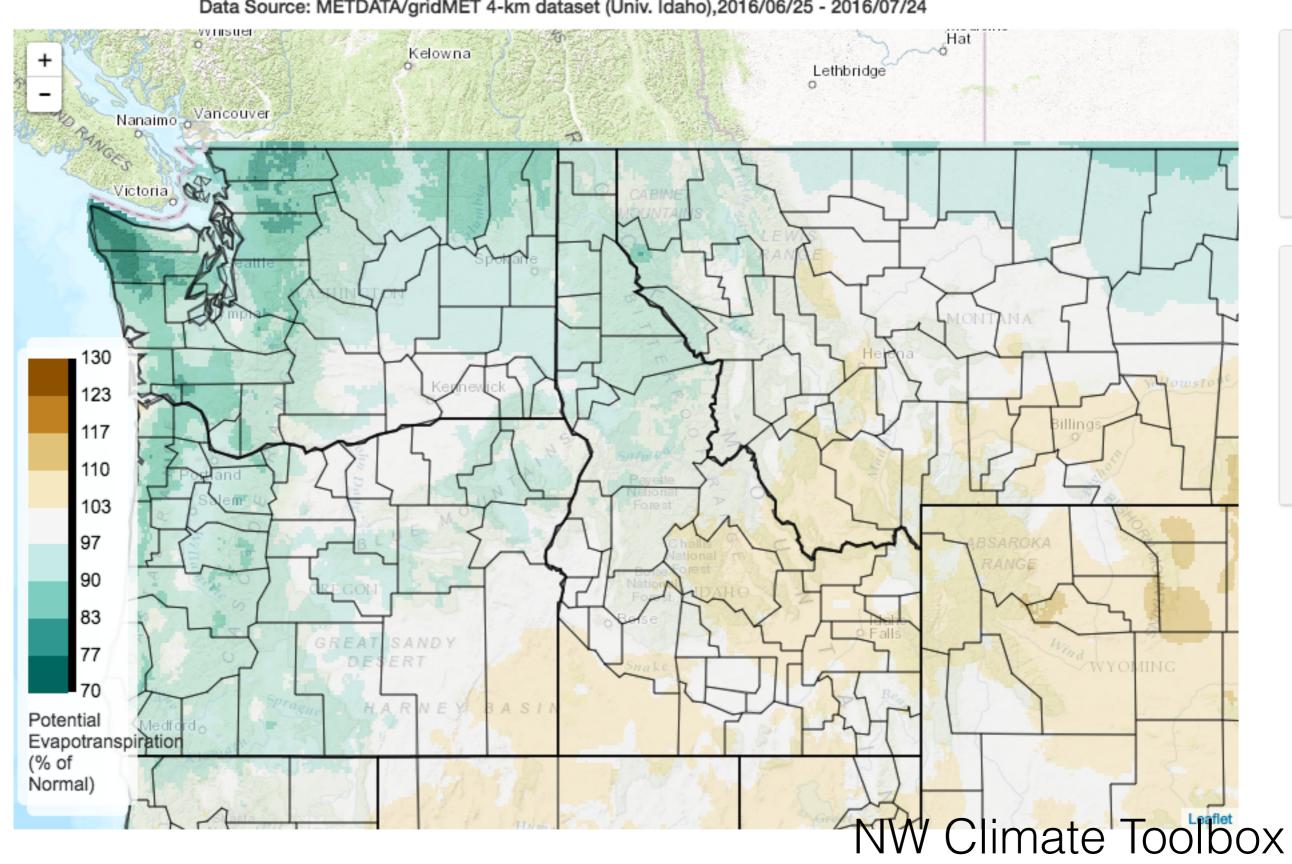
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Last 30 Days Potential Evapotranspiration (% of Normal)

Data Source: METDATA/gridMET 4-km dataset (Univ. Idaho),2016/06/25 - 2016/07/24



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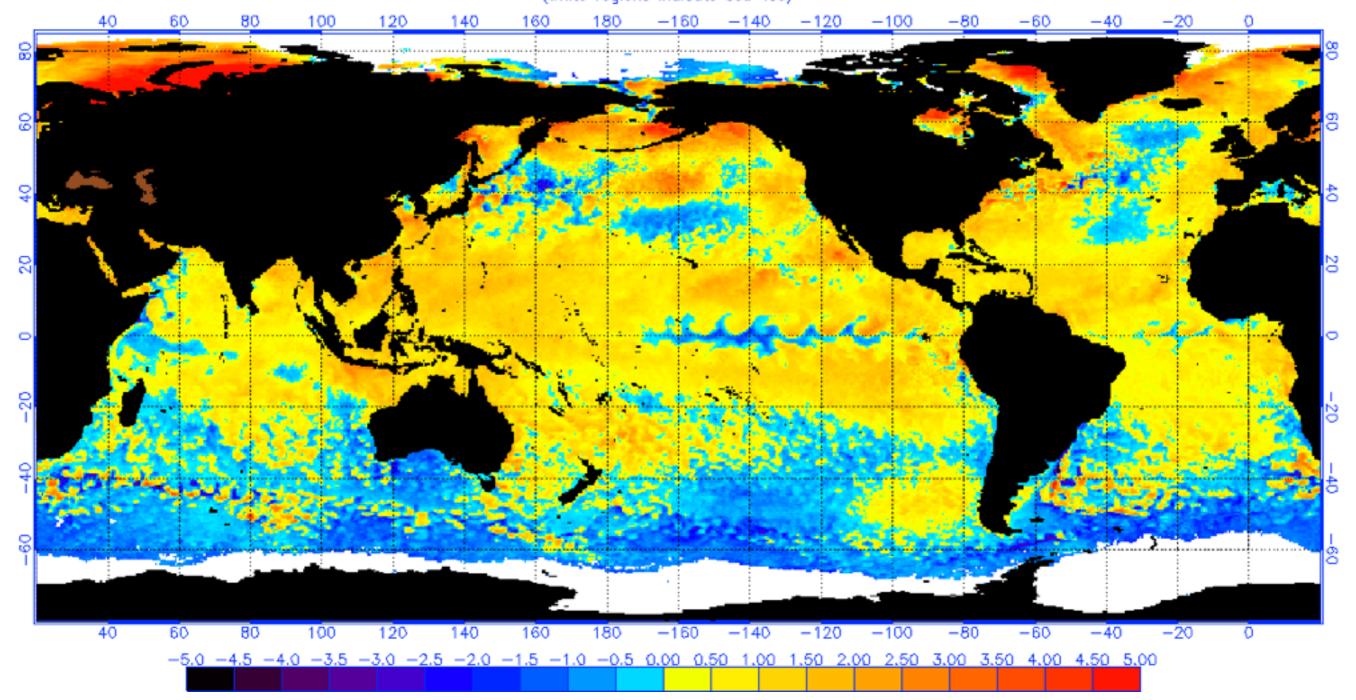
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NOAA/NESDIS 50 KM GLOBAL ANALYSIS: SST Anomaly (degrees C), 7/25/2016 (white regions indicate sea-ice)



take-away

- much better off than last year; still some areas of concern
- very warm start to calendar year, but July has been cool
- precipitation mixed around the region
- snow melted early due to warm temps
- soil moisture low in some areas
- Iull in fire season due to PET and energy release component

check us out

- NW Climate Toolbox Beta (feedback welcome!) and UW Drought Monitor
 - http://nwclimatetoolbox.weebly.com
 - http://www.hydro.washington.edu/forecast/ monitor_west/
- Send comments to Kathie Dello (kdello@coas.oregonstate.edu)