

June 2016 Washington Water Supply Status

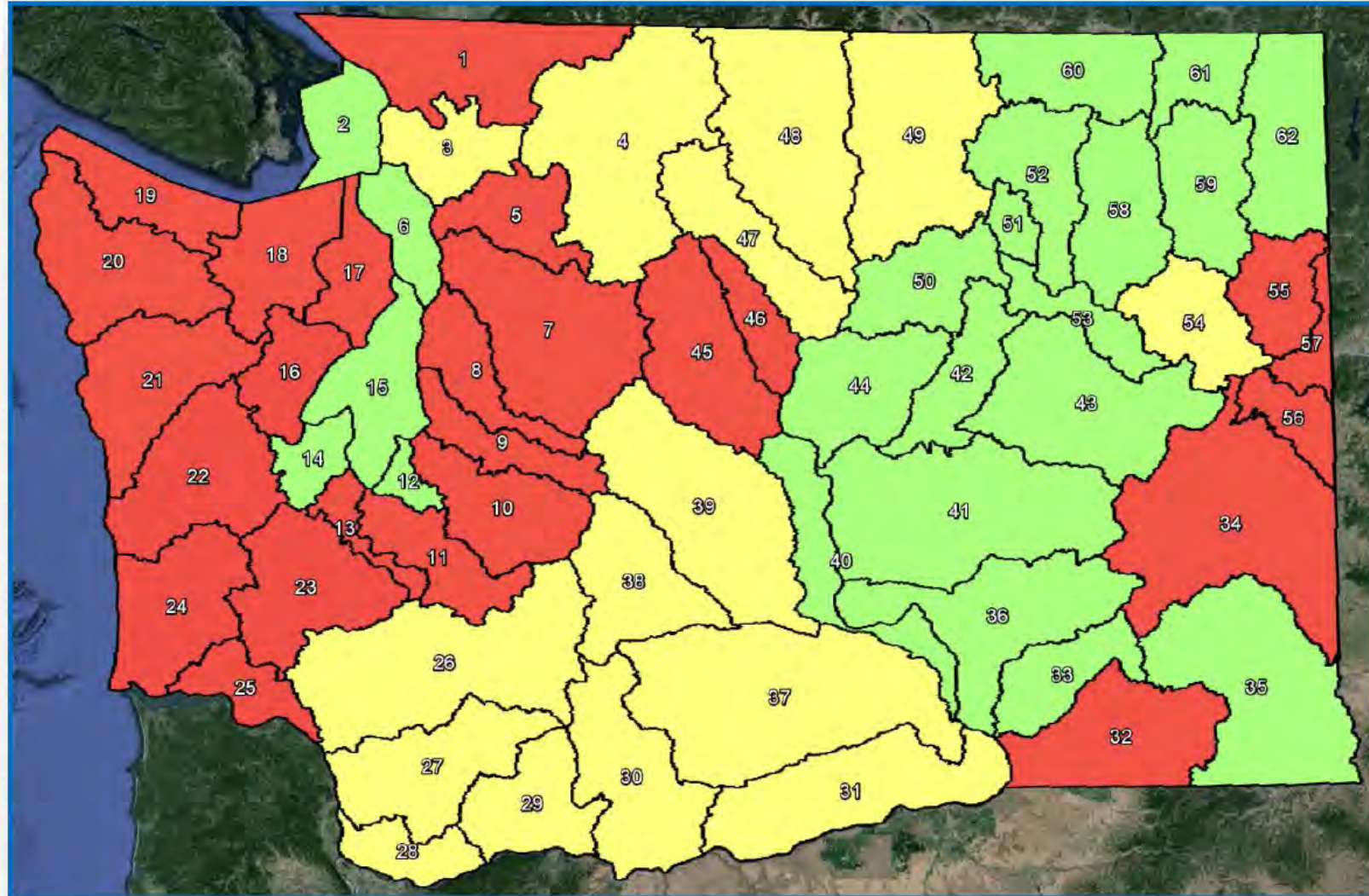
- On June 2nd, the state Water Supply Availability Committee has identified 25 watersheds as meeting the hydrologic threshold of the state drought statute (<75 percent of normal water supply)
- The Executive Water Emergency Committee will be meeting June 9th to evaluate potential for hardship and whether to recommend drought declaration for any part of the state.

Recommendations from June 2, 2016 WSAC where watersheds are likely to be below 75 percent of normal supply by WRIA

(Next step: 06/09/2016 EWEC will evaluate hardship in watersheds below 75% of normal water supply and may recommend drought declaration for some basins.)



WRIA	WRIA Name	WSAC 06/02/16
1	Nooksack	Below
2	San Juan	Above
3	Lower Skagit-Samish	Watch
4	Upper Skagit	Watch
5	Stillaguamish	Below
6	Island	Above
7	Snohomish	Below
8	Cedar-Sammamish	Below
9	Duwamish-Green	Below
10	Puyallup-White	Below
11	Nisqually	Below
12	Chambers-Clover	Above
13	Deschutes	Below
14	Kennedy-Goldsborough	Above
15	Kitsap	Above
16	Skokomish-Dosewallips	Below
17	Quilcene-Snow	Below
18	Elwha-Dungeness	Below
19	Lyre-Hoko	Below
20	Sol Duc-Hoh	Below
21	Queets-Quinalt	Below
22	Lower Chehalis	Below
23	Upper Chehalis	Below
24	Willapa	Below
25	Grays-Elokoman	Above
26	Cowlitz	Watch
27	Lewis	Watch
28	Salmon-Washougal	Watch
29	Wind-White Salmon	Watch
30	Klickitat	Watch
31	Rock-Glade	Watch



31 WRIA Number Below 75% (25) Watch (15) Above 75% (22)

Cities in WRIAs below 75% include: Bellingham, Everett, Seattle, Tacoma, Olympia, Sequim, Port Townsend, Yakima, Wenatchee, Walla Walla, Spokane

WRIA	WRIA Name	WSAC 06/02/16
32	Walla Walla	Below
33	Lower Snake	Above
34	Palouse	Below
35	Middle Snake	Above
36	Esquatzel Coulee	Above
37	Lower Yakima	Watch
38	Naches	Watch
39	Upper Yakima	Watch
40	Alkali-Squilchuck	Above
41	Lower Crab	Above
42	Grand Coulee	Above
43	Upper Crab-Wilson	Above
44	Moses Coulee	Above
45	Wenatchee	Below
46	Entiat	Below
47	Chelan	Watch
48	Methow	Watch
49	Okanogan	Watch
50	Foster	Above
51	Nespelem	Above
52	Sanpoil	Above
53	Lower Lake Roosevelt	Above
54	Lower Spokane	Watch
55	Little Spokane	Below
56	Hangman	Below
57	Middle Spokane	Below
58	Middle Lake Roosevelt	Above
59	Colville	Above
60	Kettle	Above
61	Upper Lake Roosevelt	Above
62	Pend Oreille	Above

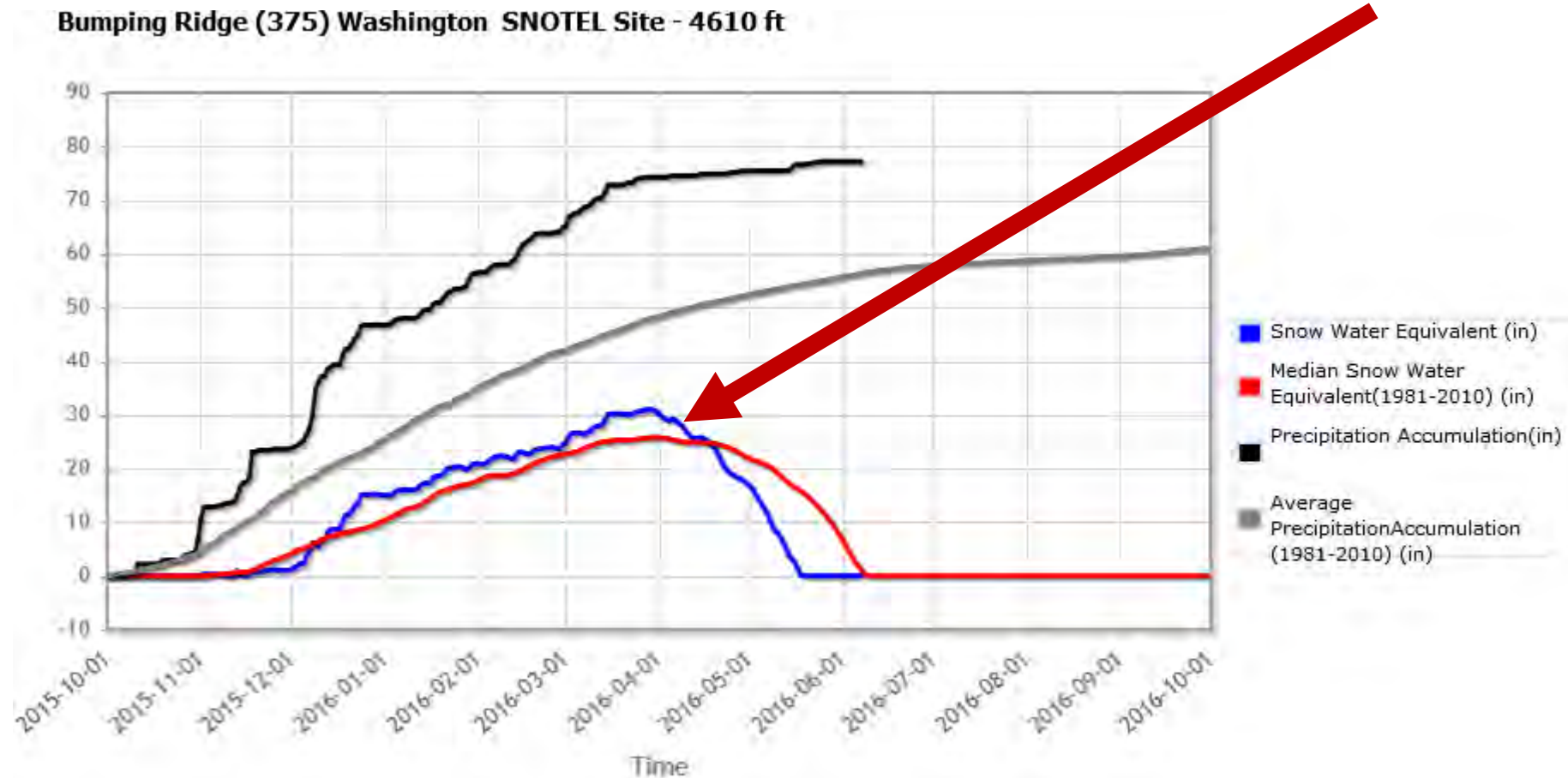
Compared to Last Year (2015)

- State Snowpack was at Zero by June 07 2015
- This year we're at about 33 percent of normal.

Melt-out

- About 75 percent of our stations have melted out by June 1.
- Typical year is 40 percent.
- Generally speaking, stations are melting out 1 to 3 weeks earlier than normal this year.

A Familiar Pattern This Year: Transitioning from Above Normal to Below Normal Snow Water Equivalent, With Early Melt-out (Bumping Ridge SNOTEL)

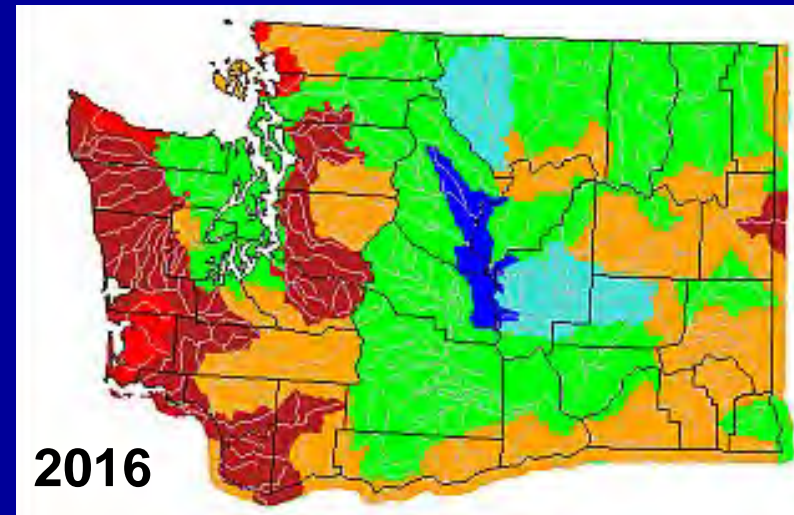
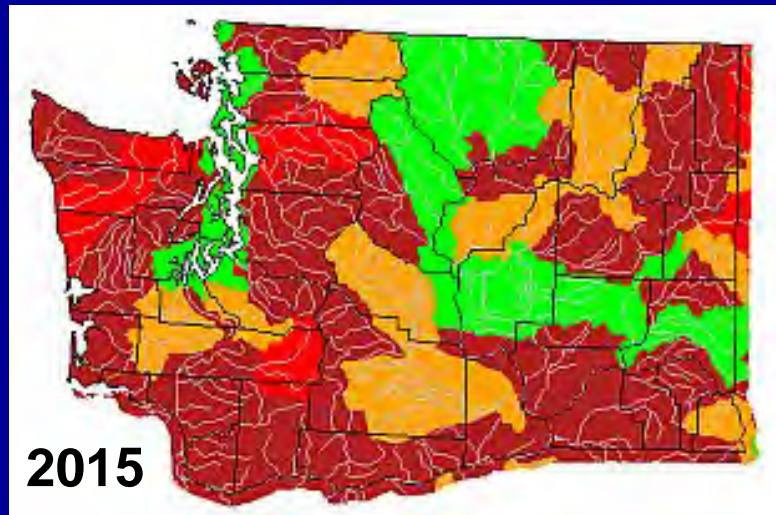
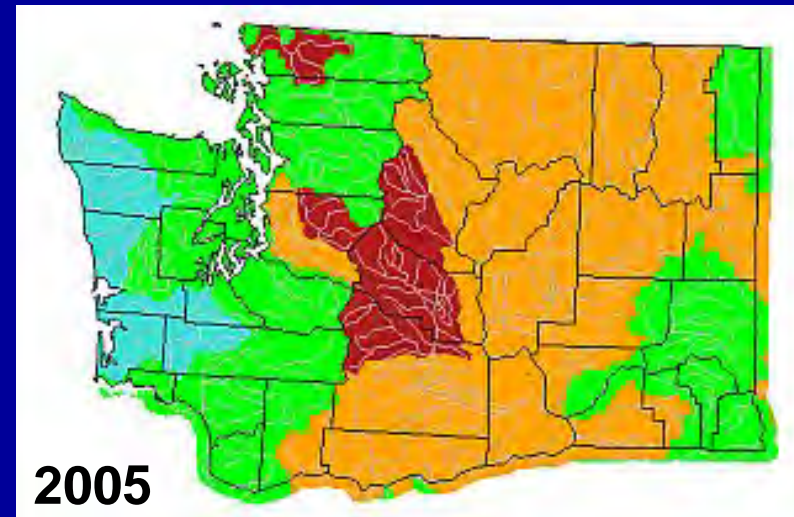
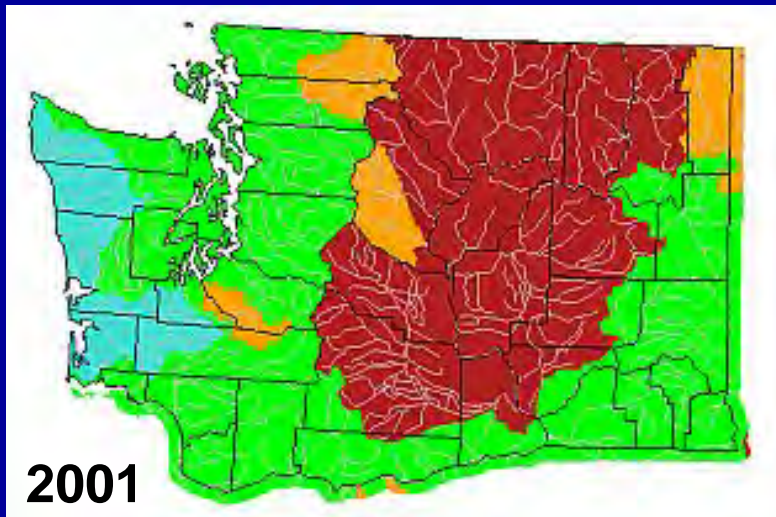








Rain vs Snow-Dominant Basins

- Westwide basins (more rain dominant) are low due to extended dry spell since early April.
- Forks is running an 8 inch precipitation deficit since April 1st (the new Palm Springs of Washington?).
- Snow-dominant basins (esp., east slope of Cascades) had good snowpack, but strong early runoff. These systems are transitioning from above-normal to below-normal conditions.
- If you captured the runoff, you are probably in good shape (Hat Tip to Chris Lynch)

Average May 2001, 05, 15 & 16 Streamflow

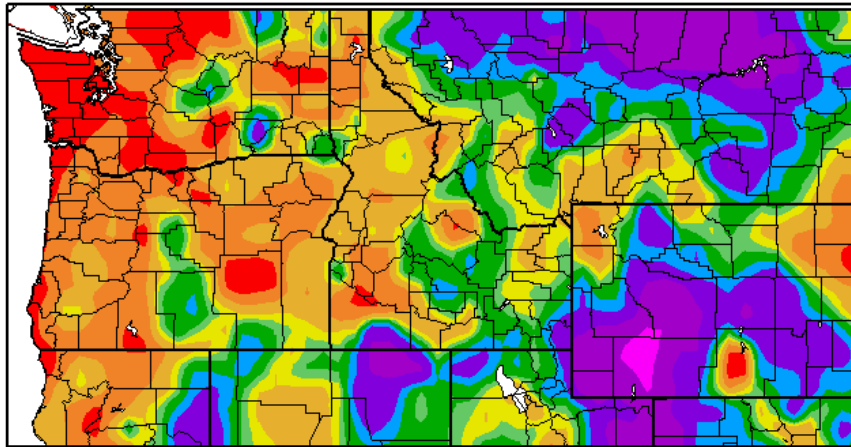
(2001, 05 & 15 were years of statewide drought in Washington)



Explanation - Percentile classes						
						
Low	<10	10-24	25-75	76-90	>90	High
	Much below normal	Below normal	Normal	Above normal	Much above normal	

1 Apr – 30 May Precipitation & Temperature

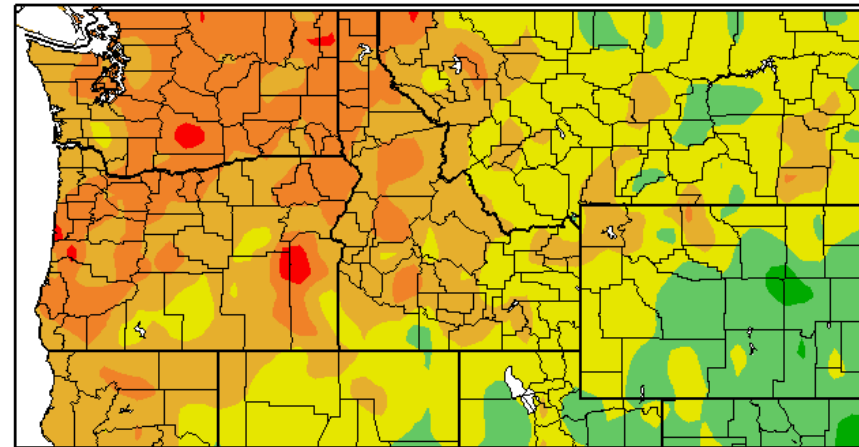
Percent of Normal Precipitation (%)
4/1/2016 – 5/30/2016



Generated 5/31/2016 at HPRCC using provisional data.

Regional Climate Centers

Departure from Normal Temperature (F)
4/1/2016 – 5/30/2016



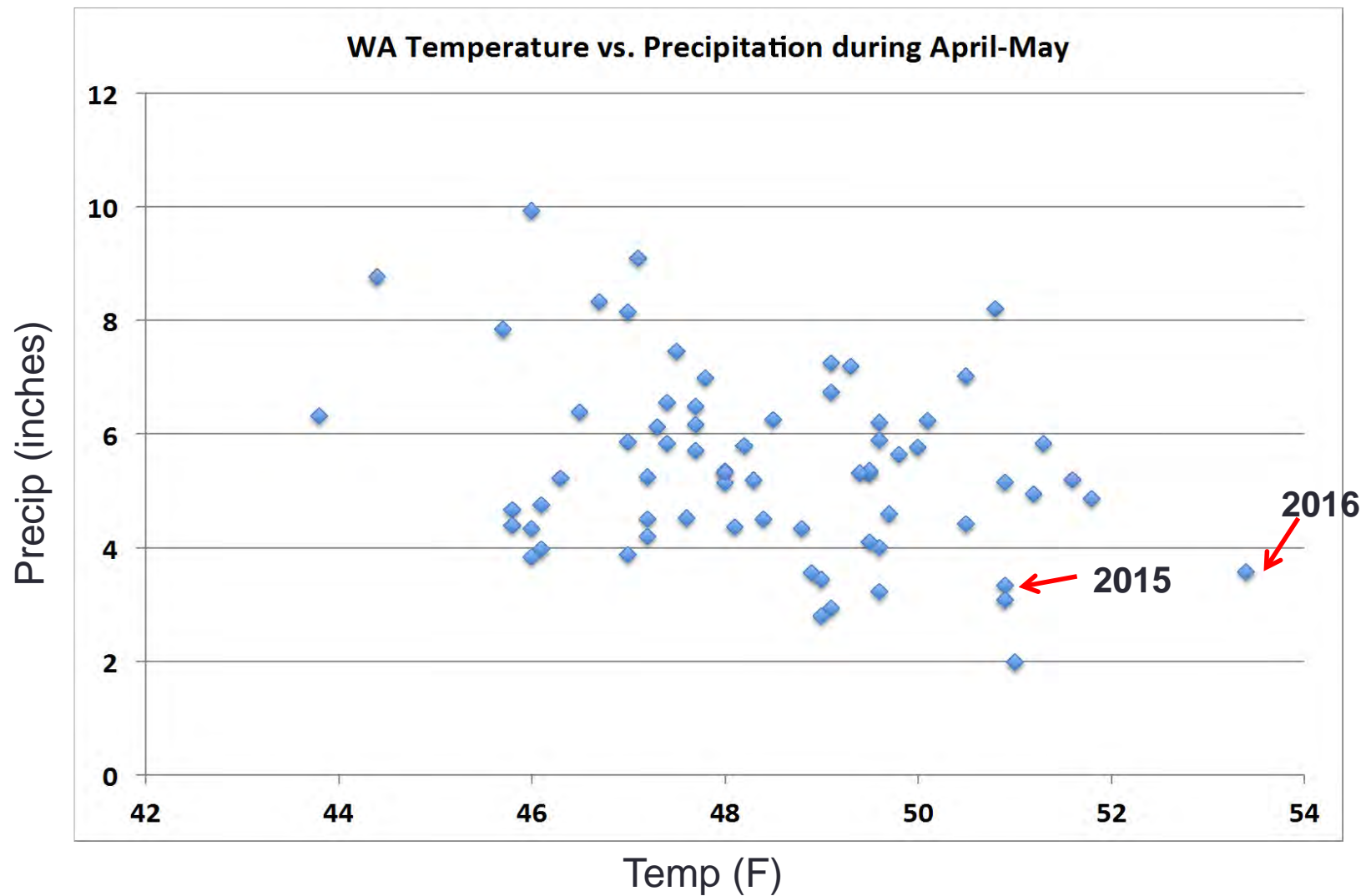
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Regional Climate Centers

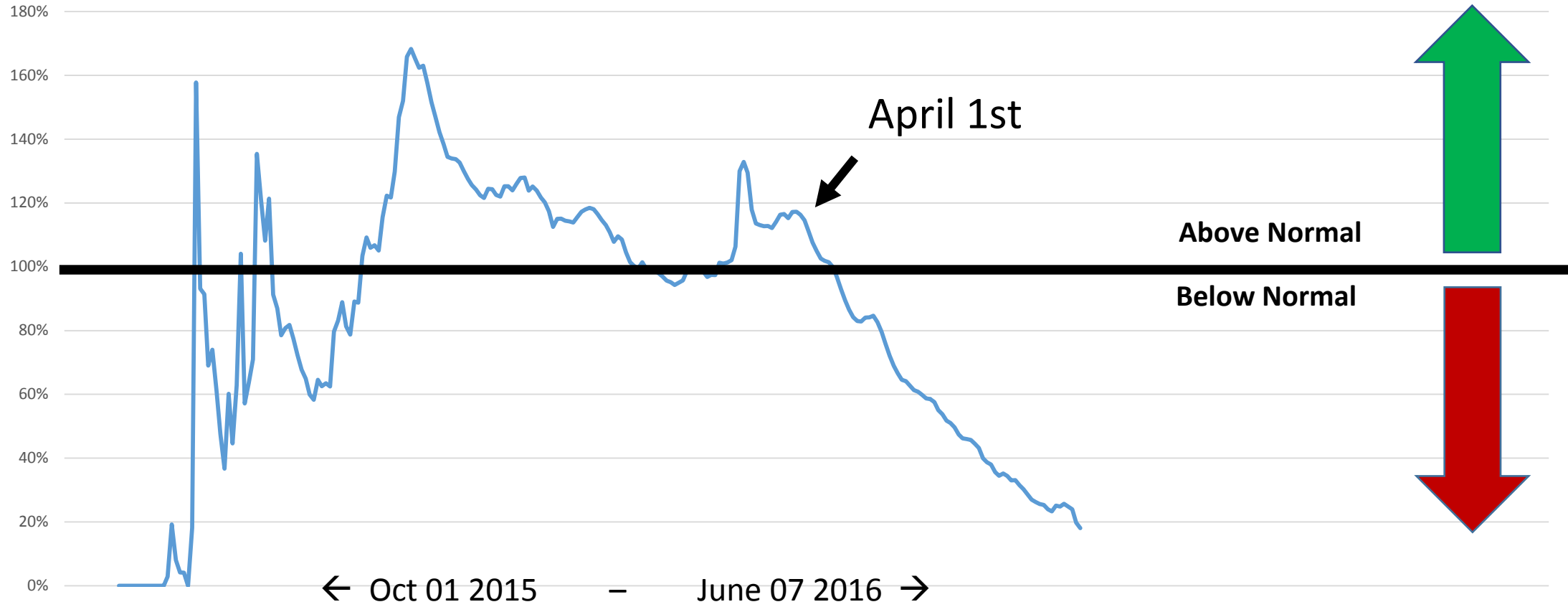
For the period of 1950-2016:

- 8th driest Apr-May statewide (~1.5" below normal)
- 1st warmest Apr-May statewide (~4.9°F above normal)

Statewide Average T and P

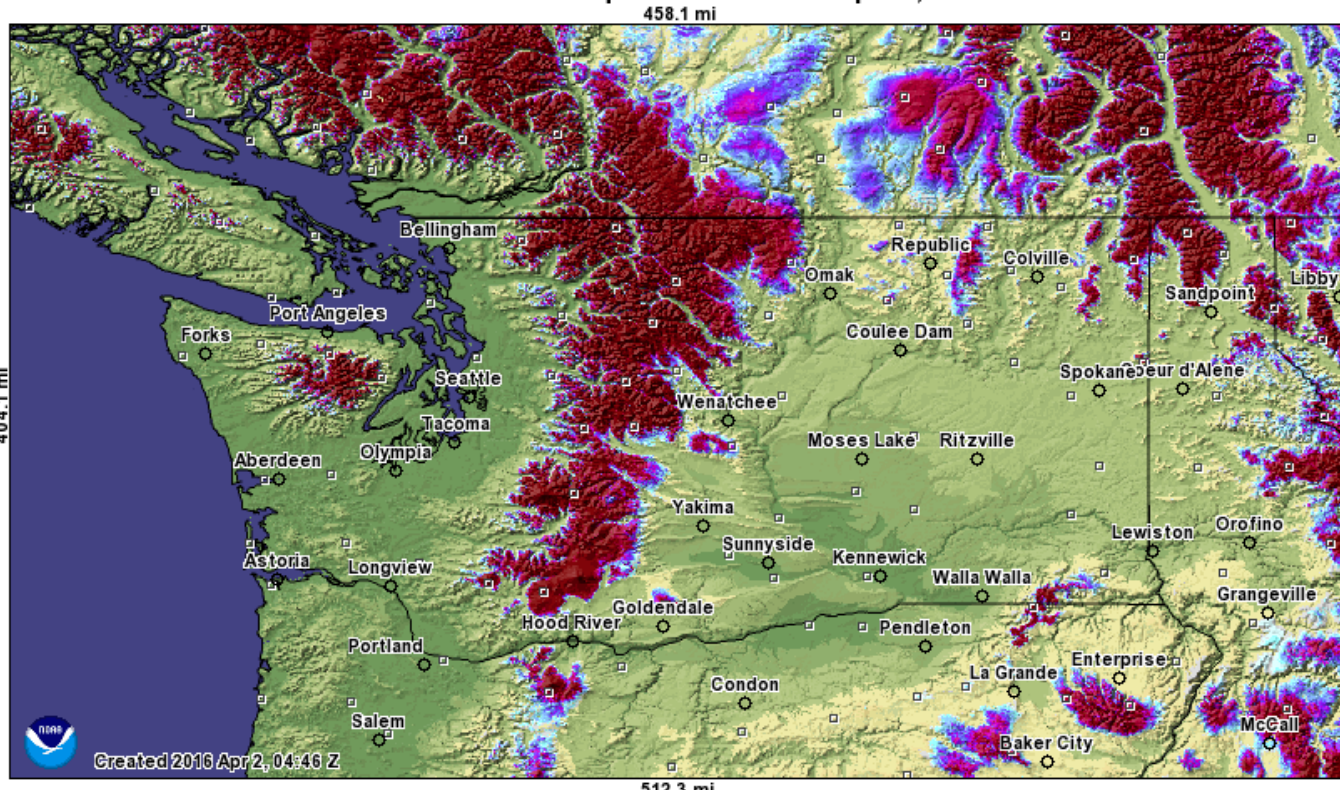


Statewide Percent of Normal Washington State SNOTEL Stations WY2016



On June 1st, 75 percent of SNOTEL stations were melted out. Typical is 40 percent.

Modeled Snow Water Equivalent for 2016 April 1, 21:00 UTC

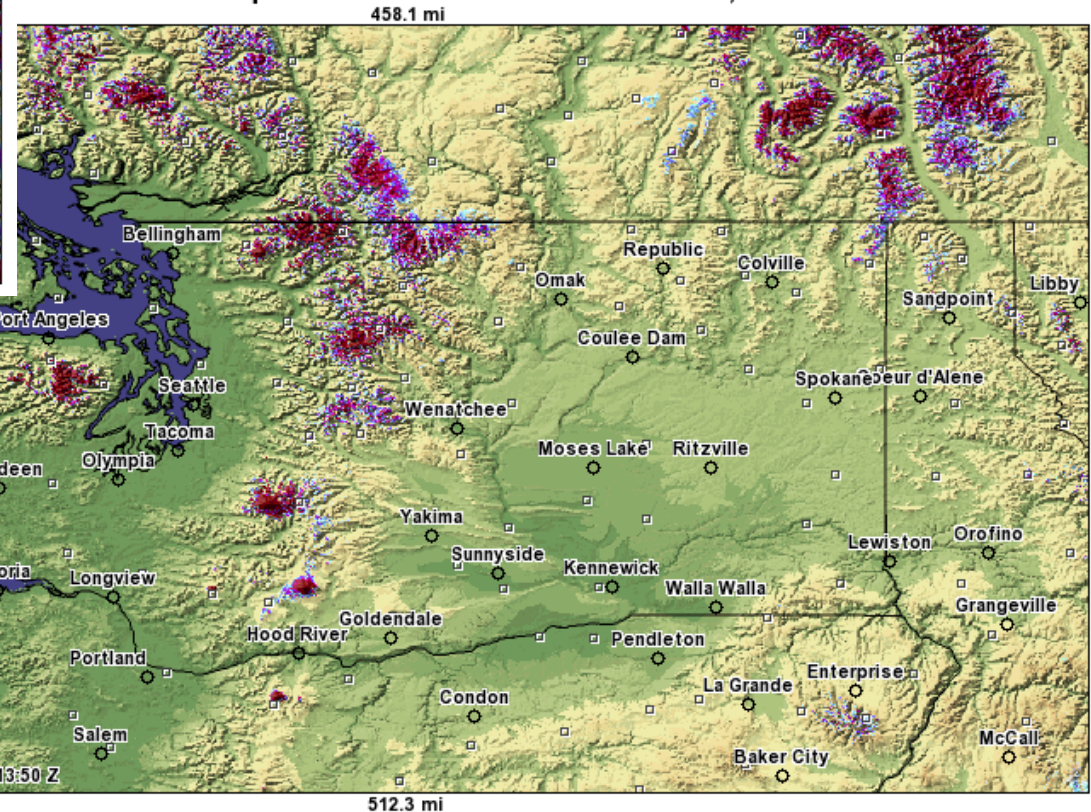


← April 1 Snowpack: 111 Percent of Normal, Statewide Average

June 7 Snowpack: 33 Percent of Normal



ed Snow Water Equivalent forecasted for 2016 June 7, 20:00 UTC



Inches of water equivalent



Forecasted Percent of Normal Runoff Apr - Sept

