

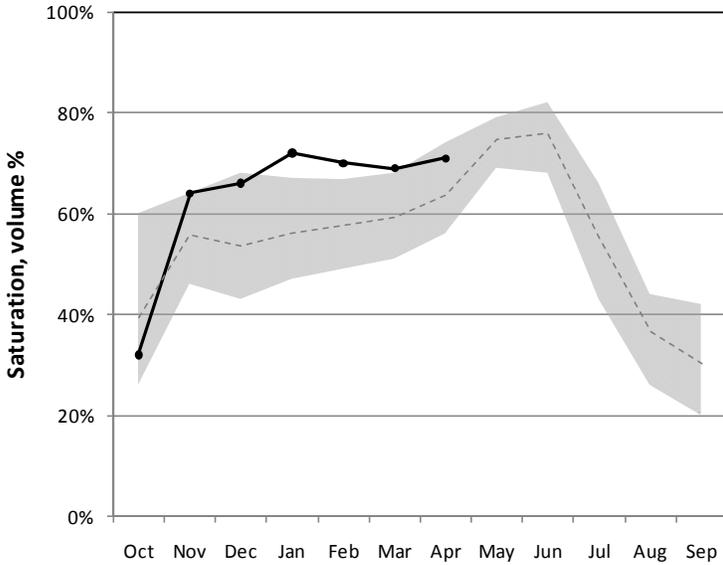
# Bear River Basin

## April 1, 2011

Snowpacks on the Bear River Basin are much above average at 138% of normal, about 215% of last year. Individual sites range from 101% of average at Upper Elkhorn to 180% at Daniels Creek. March precipitation was much above average at 149%, which brings the seasonal accumulation (Oct-Mar) to 136% of average. Soil moisture levels in runoff producing areas are at 71% of saturation in the upper 2 feet of soil compared to 56% last year. Forecast streamflows (April-July) are much above average (138%-194%) volumes for this spring and summer. Reservoir storage is low at 39% of capacity, which is 1% higher than this time last year. The Surface Water Supply Index is at 43% for the Bear River, in other words, 57% of years have had more total water available. Overall water supply conditions are average.

### Bear River Soil Moisture

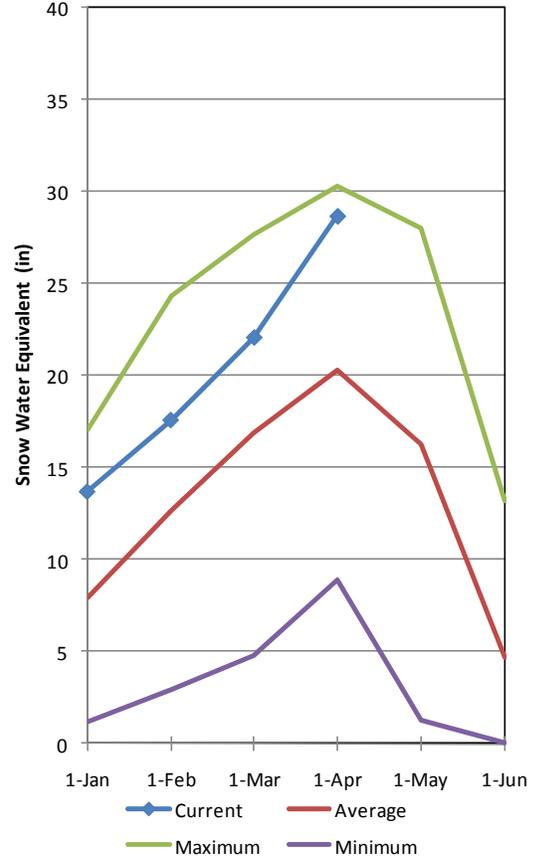
—●— WY 2011    - - - - mean



Percent saturation is calculated using the weighted average of volumetric soil moisture content at 2, 8, and 20-inch depths. Saturation is estimated as 40% volumetric water content. The gray area represents the range in saturation values since 2005.

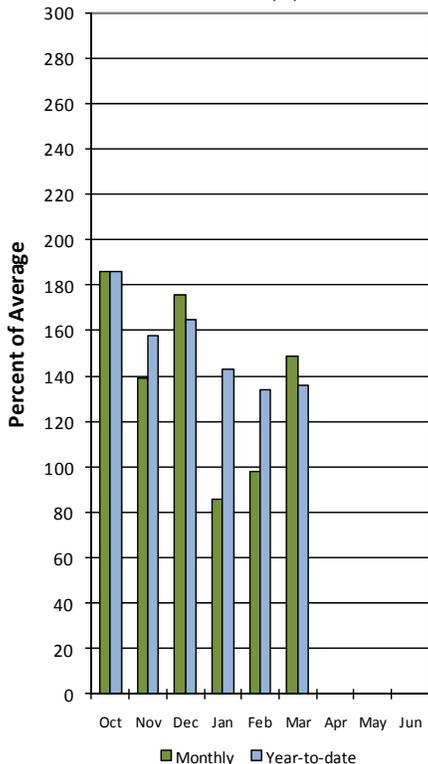
### Bear River Snowpack

4/1/2011



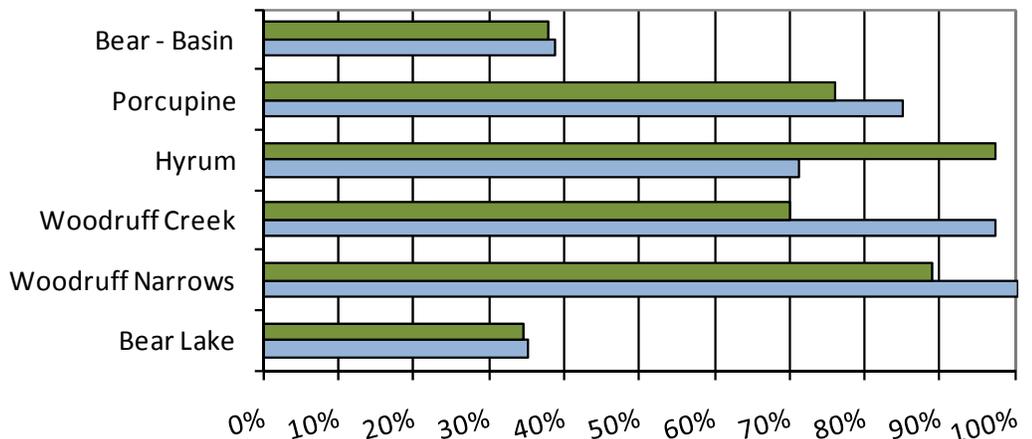
### Bear River Precipitation

4/1/2011



### April Bear River Reservoir Storage

■ Previous Yr % Capacity    ■ Current % Capacity



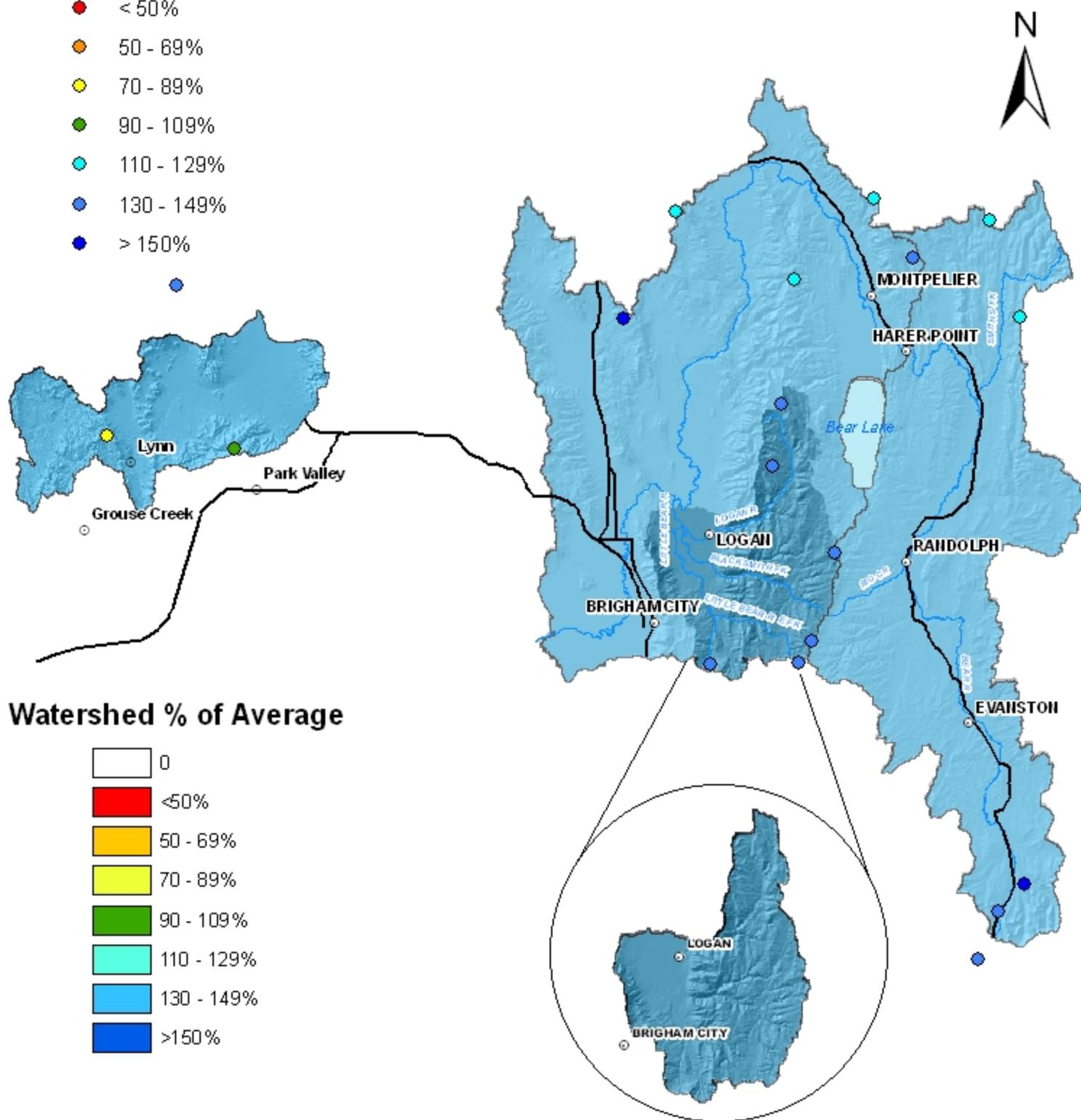
# Bear River & Raft River Basins

# Basinwide Average

Snotel % of Average

# 136%

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%



*Provisional Data  
Subject to Revision*

BEAR RIVER BASIN  
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)		
		90% (1000AF)		70% (1000AF)		Chance Of Exceeding * 50% (% AVG.)			30% (1000AF) 10% (1000AF)	
Bear R nr UT-WY State Line	APR-JUL	141	158	170	150	182	199	113		
Bear R abv Resv nr Woodruff	APR-JUL	163	188	205	151	220	245	136		
Big Ck nr Randolph	APR-JUL	6.90	8.20	9.00	184	9.80	11.10	4.90		
Smiths Fork nr Border	APR-JUL	120	133	142	138	151	164	103		
Bear R bl Stewart Dam	APR-JUL	270	335	380	162	425	490	234		
L Bear at Paradise	APR-JUL	63	74	82	178	90	101	46		
Logan R nr Logan	APR-JUL	162	179	190	151	200	220	126		
Blacksmith Fk nr Hyrum	APR-JUL	64	79	90	188	101	116	48		
Dunn Ck nr Park Valley	APR-JUL	2.80	4.10	6.00	194	7.90	9.20	3.10		

BEAR RIVER BASIN Reservoir Storage (1000 AF) - End of March					BEAR RIVER BASIN Watershed Snowpack Analysis - April 1, 2011			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BEAR LAKE	1302.0	457.8	449.4	---	BEAR RIVER, UPPER	8	222	136
HYRUM	15.3	10.9	14.9	12.2	BEAR RIVER, LOWER	9	231	136
PORCUPINE	11.3	9.6	8.6	6.7	LOGAN RIVER	4	230	143
WOODRUFF NARROWS	57.3	57.0	51.0	32.7	RAFT RIVER	1	155	138
WOODRUFF CREEK	4.0	3.9	2.8	---	BEAR RIVER BASIN	17	229	136

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

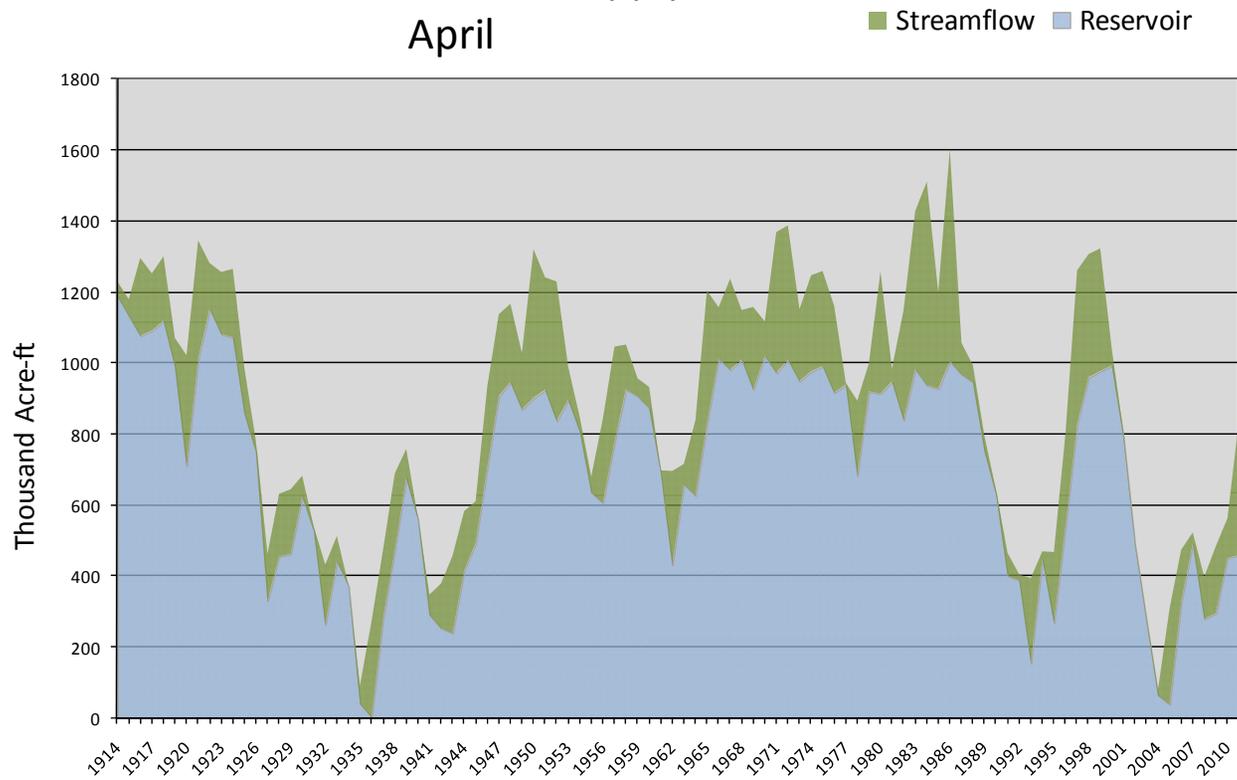
The average is computed for the 1971-2000 base period.

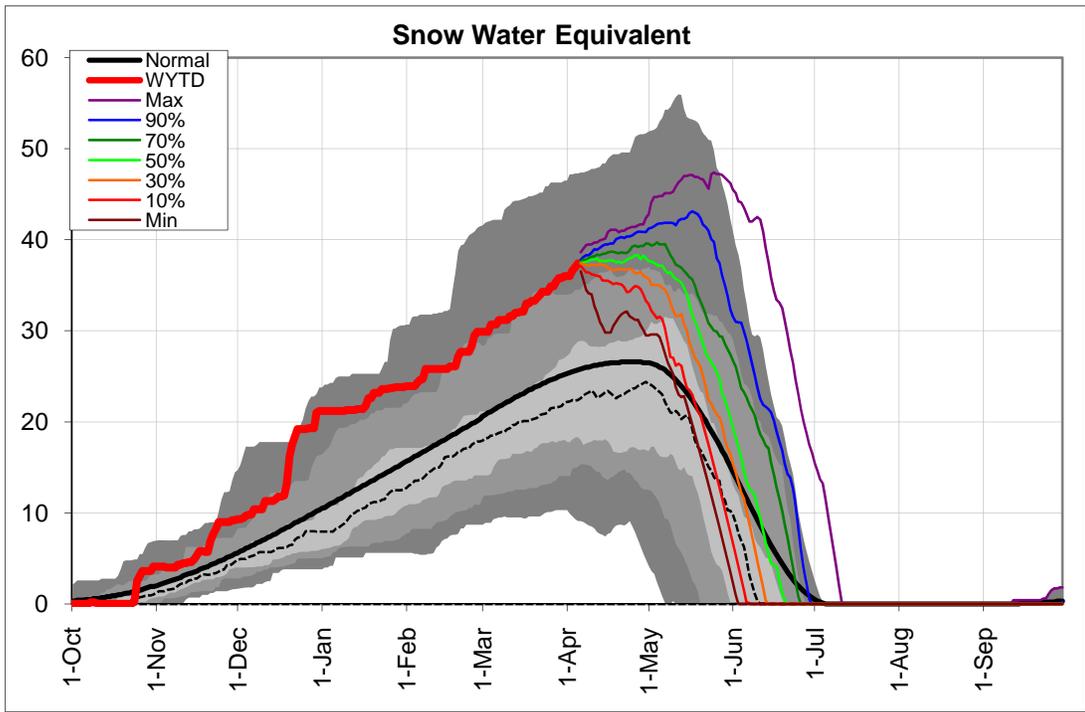
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

April 1, 2011		Surface Water Supply Index				
Basin or Region	March EOM* Bear Lake	April-July Forecast below Stewart Dam	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	KAF^	KAF	KAF		%	
<b>Bear River</b>	<b>458</b>	<b>380</b>	<b>838</b>	<b>-0.55</b>	<b>43</b>	<b>56,64,96,01</b>

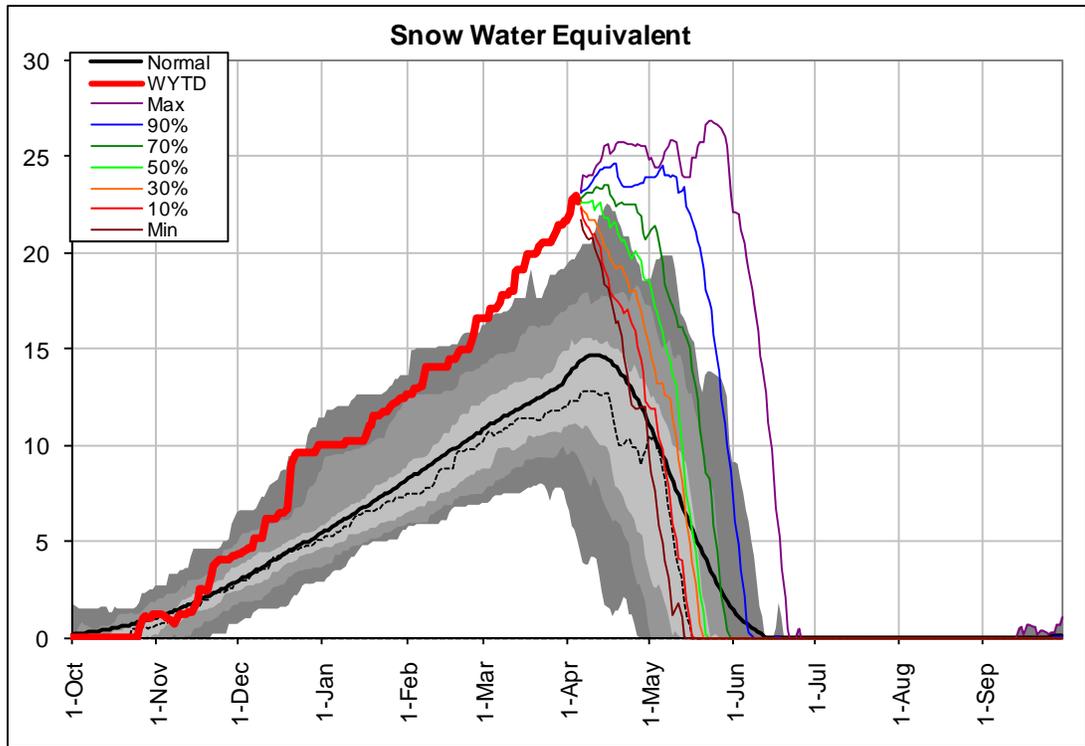
*\*EOM, end of month; # SWSI, Surface Water Supply Index; ^KAF, thousand acre-feet.*

Bear Lake Surface Water Supply Index  
April

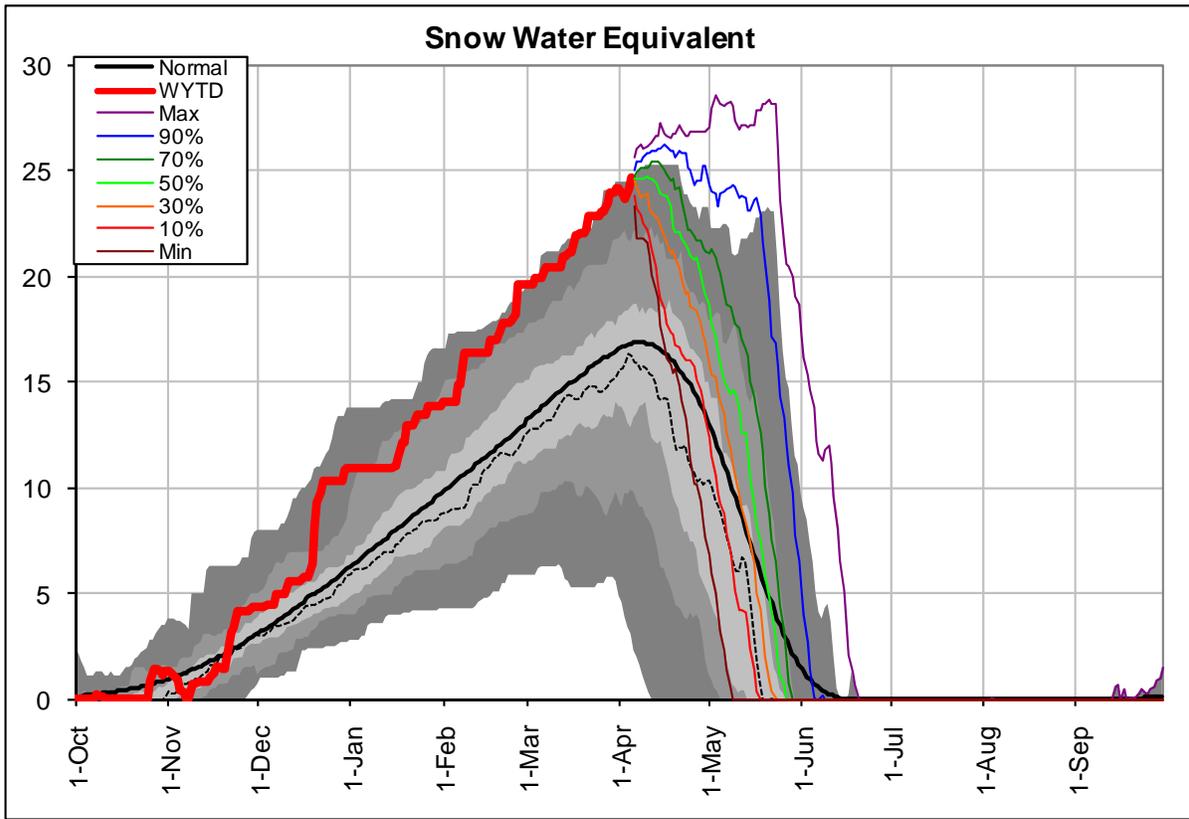




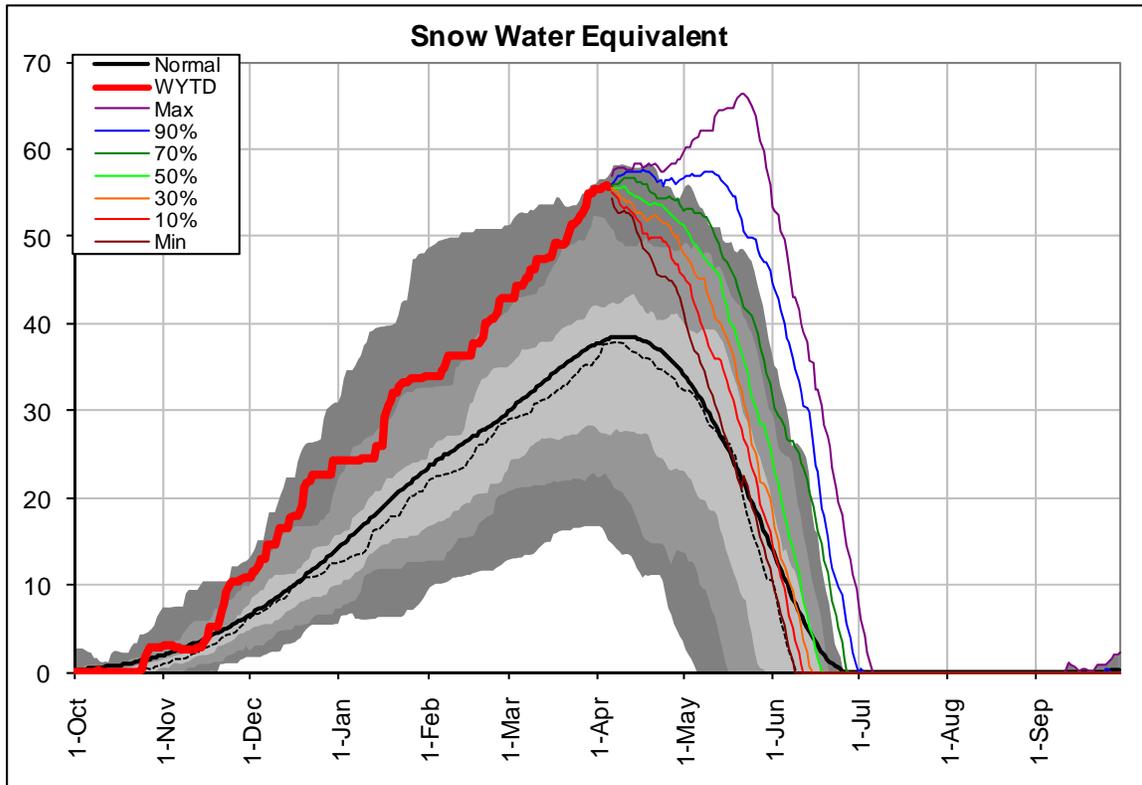
Trial Lake SNOTEL



Lily Lake SNOTEL



Hayden Fork SNOTEL



Tony Grove Lake SNOTEL