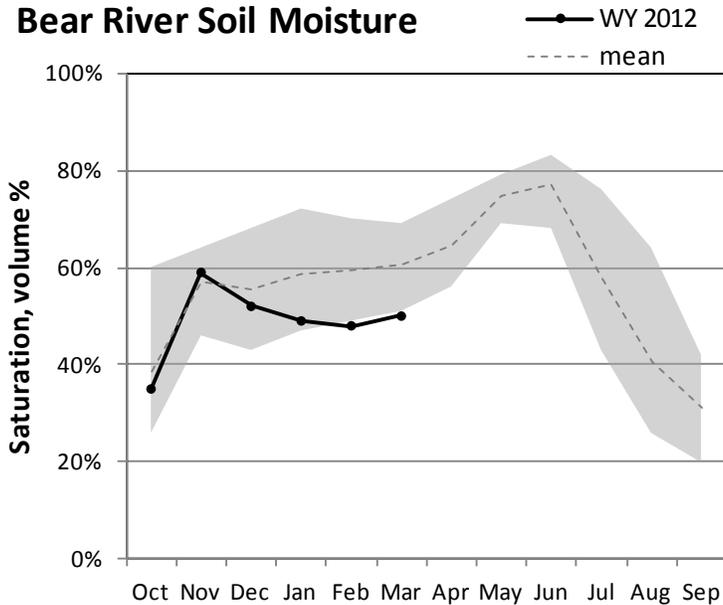


# Bear River Basin

## March 1, 2012

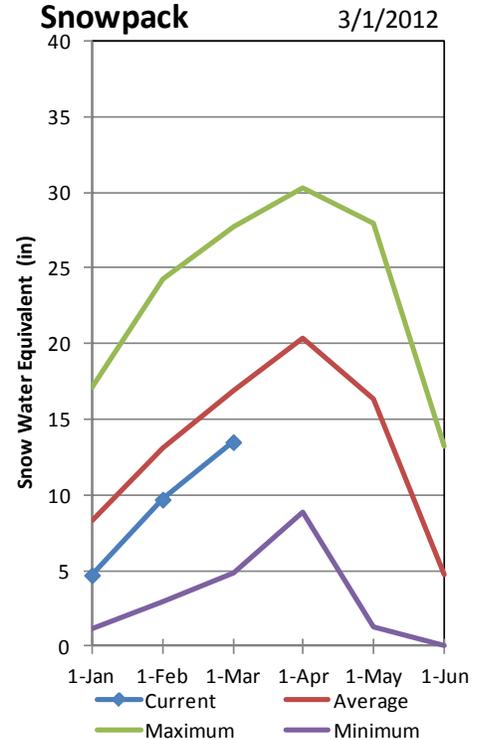
Snowpacks on the Bear River Basin are below average at 76% of normal, about 61% of last year. Individual sites range from 56% of average at Trial Lake Snow Course to 93% at Little Bear Snotel. February precipitation was below average at 83%, which brings the seasonal accumulation (Oct-Feb) to 82% of average. Soil moisture levels in runoff producing areas are at 50% of saturation in the upper 2 feet of soil compared to 69% last year. Forecast streamflows (April-July) are much below average to below average (57%-73%) volumes for this spring and summer. Reservoir storage is 77% of capacity, which is 42% higher than this time last year. The Surface Water Supply Index is at 68% for the Bear River, in other words, 32% of years have had more total water available. Overall water supply conditions are above average.

### Bear River Soil Moisture

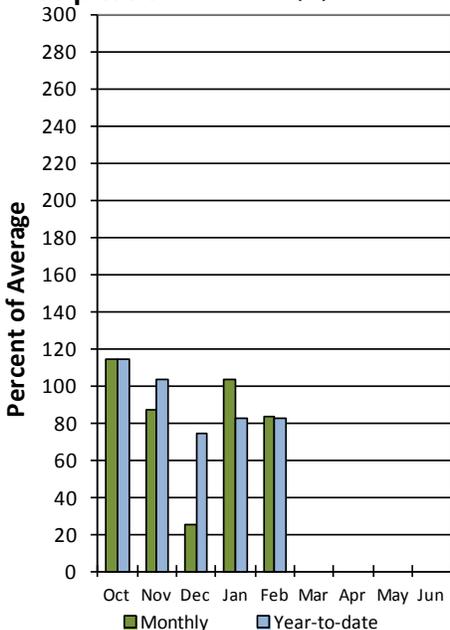


Percent saturation is calculated using the weighted average of volumetric soil moisture content at 2, 8, and 20-inch depths. Saturation is estimated as 40% volumetric water content. The gray area represents the range in saturation values since 2005.

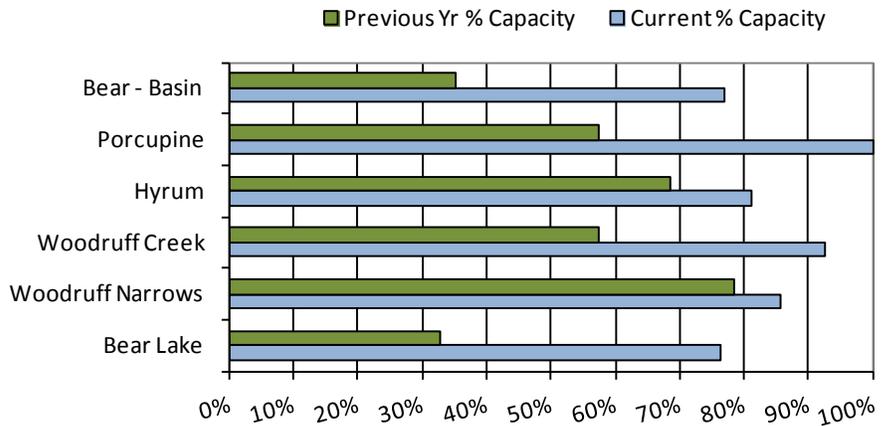
### Bear River Snowpack



### Bear River Precipitation



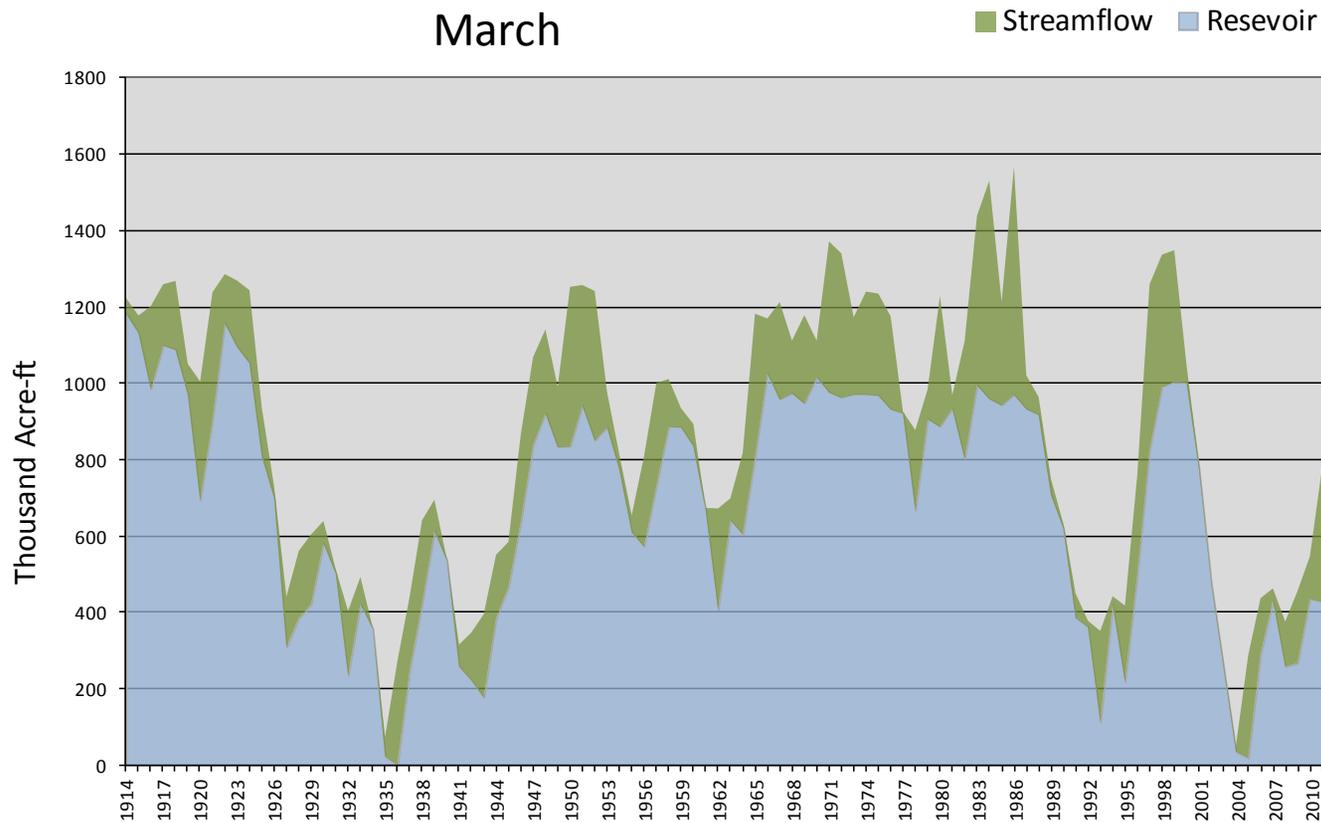
### March Bear River Reservoir Storage



March 1, 2012		Surface Water Supply Index				
Basin or Region	February EOM* Bear Lake	April-July Forecast below Stewart Dam	Reservoir + Streamflow	SWSI <sup>#</sup>	Percentile	Years with similar SWSI
	KAF <sup>^</sup>	KAF	KAF		%	
<b>Bear River</b>	<b>994</b>	<b>130</b>	<b>1124</b>	<b>1.50</b>	<b>68</b>	<b>70, 68, 48, 66</b>

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

Bear Lake - Surface Water Supply Index  
March



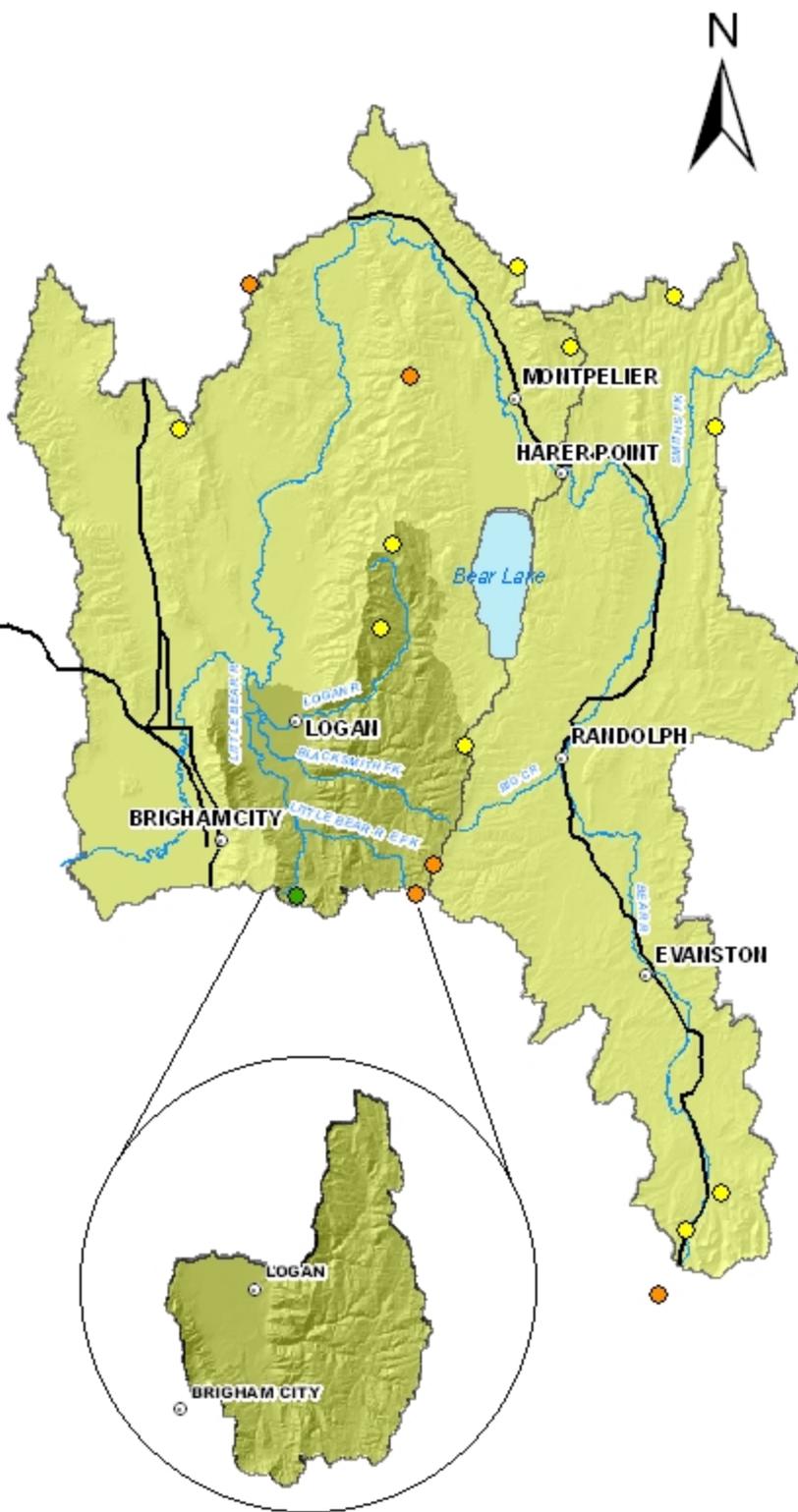
# Bear River & Raft River Basins

# Basinwide Average

Snotel % of Average

# 78 %

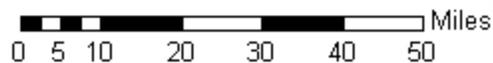
- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%



Watershed % of Average

- 0
- <50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- >150%

*Provisional Data  
Subject to Revision*



BEAR RIVER BASIN as of March 1, 2012

BEAR RIVER BASIN Streamflow Forecasts - March 1, 2012								
Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
Bear R nr UT-WY State Line	APR-JUL	50	69	82	73	95	114	113
Bear R ab Res nr Woodruff	APR-JUL	31	59	78	57	97	125	136
Big Ck nr Randolph	APR-JUL	1.25	2.40	3.20	65	4.00	5.20	4.90
Smiths Fk nr Border	APR-JUL	38	54	65	63	76	92	103
Bear R hl Stewart Dam	APR-JUL	14.0	83	130	56	177	245	234
Little Bear R at Paradise	APR-JUL	10.4	23	32	70	41	54	46
Logan R nr Logan	APR-JUL	48	67	80	64	93	112	126
Blacksmith Fork nr Hyrum	APR-JUL	5.9	20	30	63	40	54	48
Dunn Ck nr Park Valley	APR-JUL	0.58	1.48	2.0	68	2.70	3.0	3.10

BEAR RIVER BASIN Reservoir Storage (1000 AF) - End of February					BEAR RIVER BASIN Watershed Snowpack Analysis - March 1, 2012			
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	993.6	426.7	697.5	BEAR RIVER, UPPER	8	59	76
HYRUM	15.3	12.4	10.5	11.0	BEAR RIVER, LOWER	9	64	78
PORCUPINE	11.3	11.3	6.5	5.6	LOGAN RIVER	4	65	83
WOODRUFF NARROWS	57.3	49.0	45.0	27.6	RAFT RIVER	1	89	100
WOODRUFF CREEK	4.0	3.7	2.3	---	BEAR RIVER BASIN	17	63	78

\* 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.