



Utah Water Supply Outlook Report

February, 2013



**Amy Burke samples snow at East Fork of Blacks Fork SNOTEL,
January, 2013**

Photo by Randall Julander, NRCS

Water Supply Outlook Reports and Federal - State - Private Cooperative Snow Surveys

For more water supply and resource management information, contact:

Snow Survey Staff, 245 N Jimmy Doolittle Rd, SLC Utah, 84041 - Phone: (801)524-5213

Travis Thomason, Area Conservationist, 340 N. 600 E., Richfield, UT 84701 - Phone: (435) 896-6441

Don Ashby, Area Conservationist, 2871 S Commerce Way, Ogden UT 84401 (801)629-0580 x15

Barry Hamilton, Area Conservationist, 540 W, Price River Dr. Price, UT 84501-2813 - Phone: (435) 637-0041

Internet Address: <http://www.ut.nrcs.usda.gov/snow/>

How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snowcourses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

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STATE OF UTAH GENERAL OUTLOOK

February 1, 2013

SUMMARY

January was exceptionally cold. Extreme cold and frequent storms do not normally match up well and this month was no exception. We had essentially 2 stormy periods, one at the beginning of the month and one at the end with nothing but bitter cold in between. As the saying goes, there was nothing protecting us from the brutally cold north arctic air but a barb wire fence and it had two wires broken. Fortunately the stormy period at the end of the month ended a free fall in snowpack percent of normal. We were not melting any snow but we should have been steadily accumulating more. Still, the change in snow pack percentages over the past month is a bit discouraging: Bear (-21%), Weber (-12%), Provo (-23%), Tooele (-10%), Northeastern Uintahs (-10%), Duchesne (-24%), Price/San Rafael (-18%), Dirty Devil (-4%), Southeastern Utah (-2%), Upper Sevier (no change), San Pitch (-5%), Lower Sevier (-3%), Beaver (-4%), Escalante (+7%) and Southwest Utah (-22%). There are two months remaining in the snow accumulation season and any outcome is still possible. The NOAA Climate Prediction Center is forecasting warmer than normal temperatures and lower than normal precipitation for February through April. Soil moisture conditions are near normal for most of Utah except the southeast where they are much below normal. Reservoir storage continues to incrementally improve as water managers are storing as much as possible. Surface Water Supply indexes are mostly below average across the state. Overall, the water supply outlook is slightly below average.

SNOWPACK

February first snow packs as measured by the NRCS SNOTEL system range from 83% of median on the Weber to 114% over the Tooele Valley. Most areas are in the 90% to 100% of median range.

PRECIPITATION

Mountain precipitation during January was 69% of average which brings the seasonal accumulation (Oct-Jan) 90% of normal.

SOIL MOISTURE

Soil Moisture is close to what it was last month, characteristic of winter trends. Very dry in southeast Utah at 21% of saturation and average to a little above in the remainder of the state.

RESERVOIRS

Storage in 46 of Utah's key irrigation reservoirs is at 65% of capacity compared to 86% last year.

STREAMFLOW

Snowmelt stream flows are forecast to be below to near normal across the state this year. Most flows are forecast to be in the 75% to 90% range.

SURFACE WATER SUPPLY INDEX

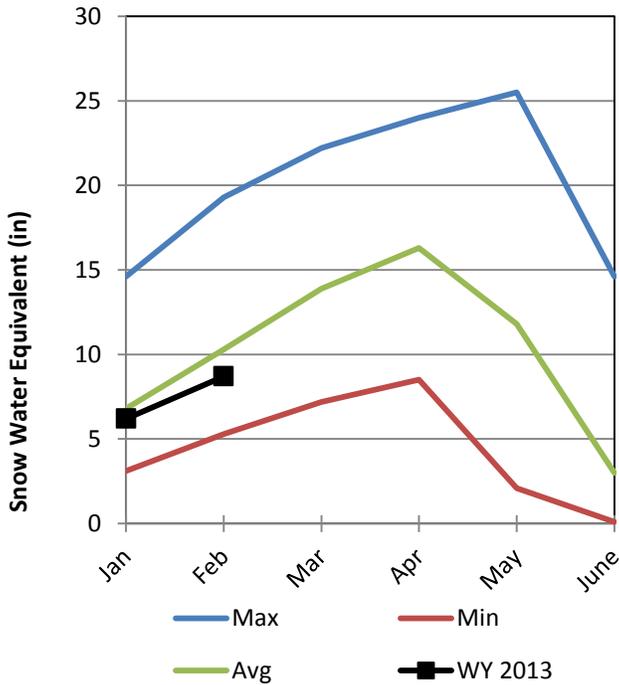
Surface Water Supply indexes range from 17% in the eastern Uintah Basin to 67% on the lower Sevier.

Statewide Utah

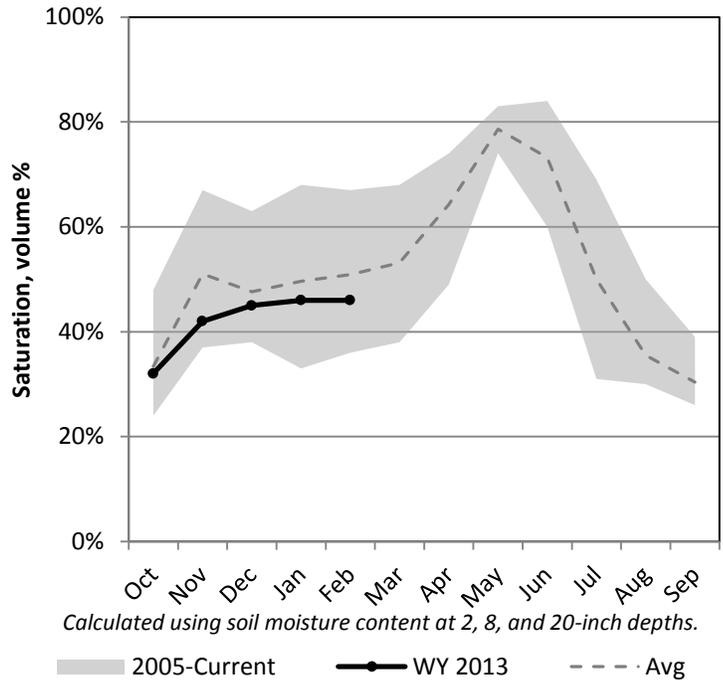
2/1/2013

Snowpack in Utah is near average at 92% of normal, compared to 79% last year. Precipitation in January was much below average at 69%, which brings the seasonal accumulation (Oct-Jan) to 90% of average. Soil moisture is at 46% compared to 46% last year. Reservoir storage is at 65% of capacity, compared to 86% last year. Forecast streamflow volumes range from 35% to 106% of average.

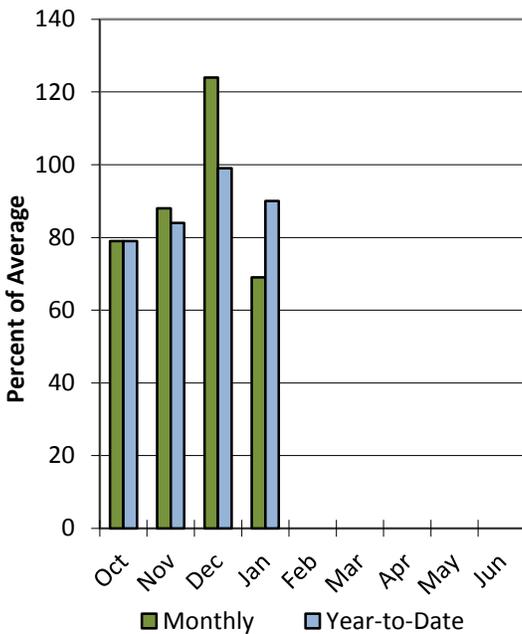
Snowpack



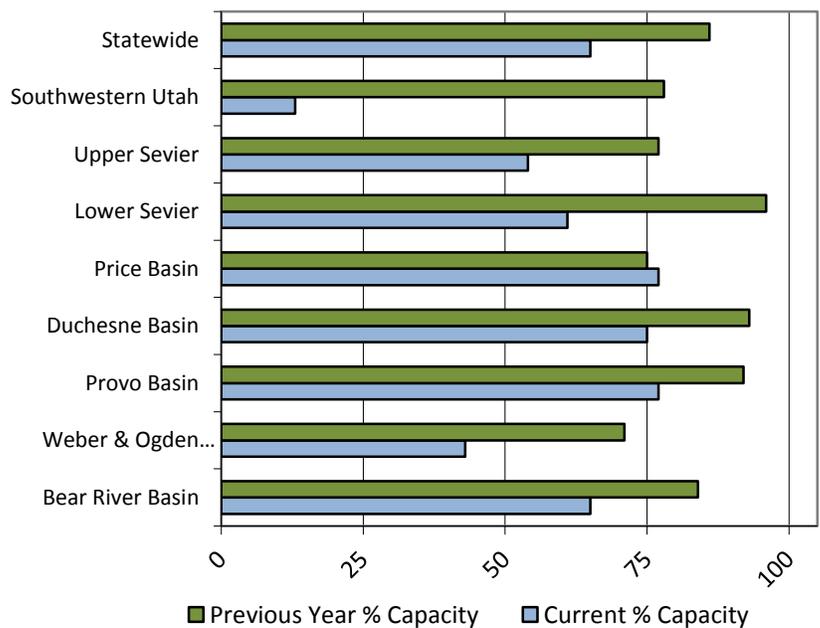
Soil Moisture



Precipitation



Reservoir Storage



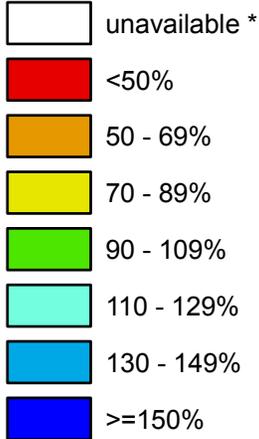
Utah

SNOTEL Water Year (Oct 1) to Date Precipitation

% of Normal

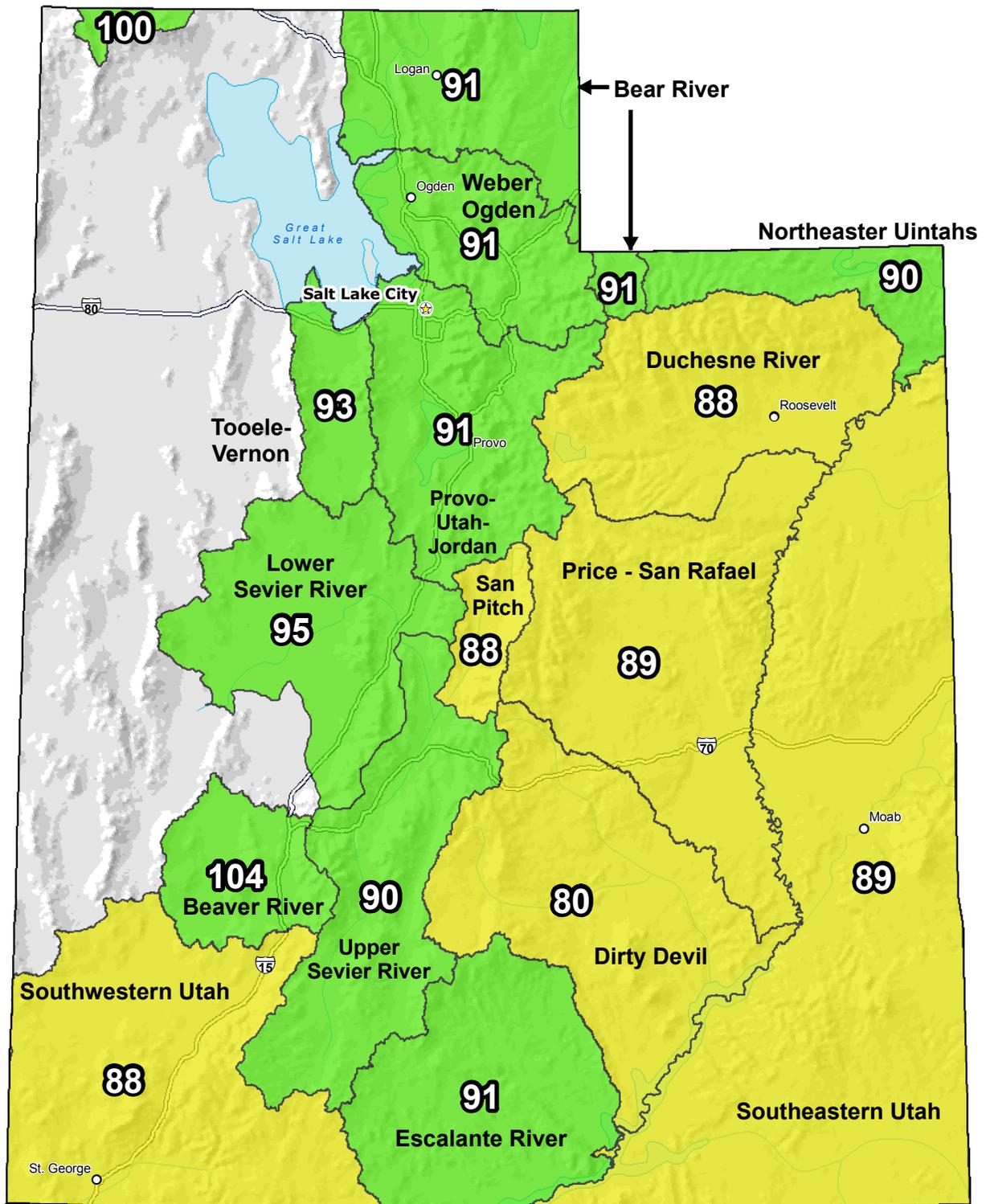
Feb 01, 2013

Water Year
(Oct 1) to Date
Precipitation
Basin-wide
Percent of
1981-2010
Average



* Data unavailable at time of posting or measurement is not representative at this time of year

**Provisional Data
Subject to Revision**



The water year to date precipitation percent of normal represents the accumulated precipitation found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

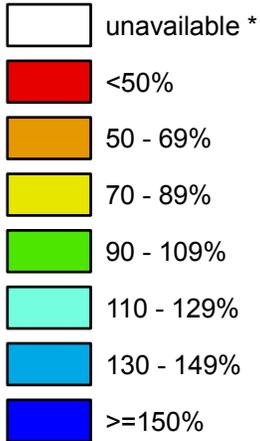
Prepared by the USDA/NRCS National Water and Climate Center
Portland, Oregon <http://www.wcc.nrcs.usda.gov/gis/>
Based on data from <http://www.wcc.nrcs.usda.gov/reports/>
Science contact: Jim.Marron@por.usda.gov 503 414 3047

Utah

SNOTEL Current Snow Water Equivalent (SWE) % of Normal

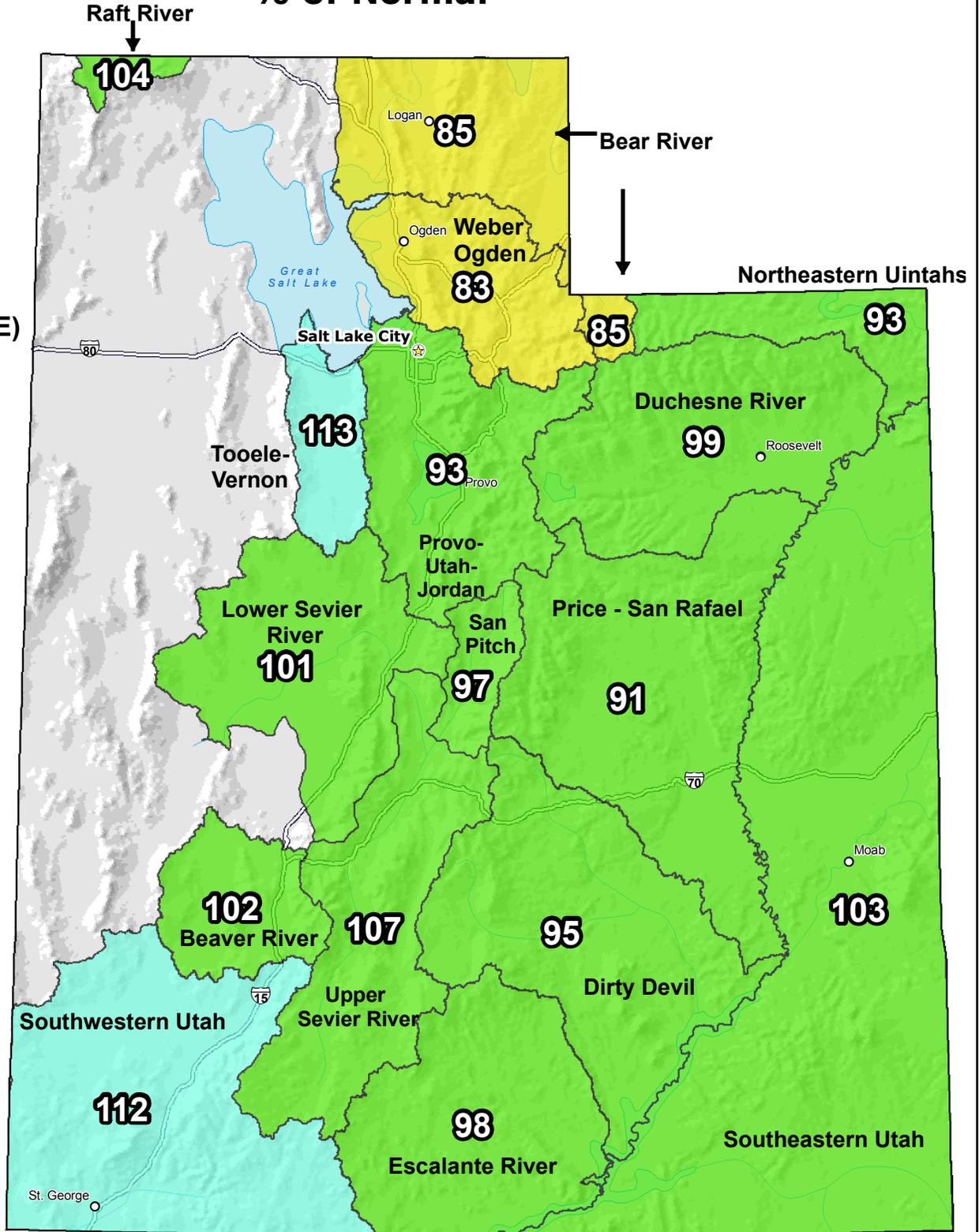
Feb 01, 2013

**Snow Water Equivalent (SWE)
Basin-wide
Percent of
1981-2010
Median**



* Data unavailable at time of posting or measurement is not representative at this time of year

**Provisional Data
Subject to Revision**



The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

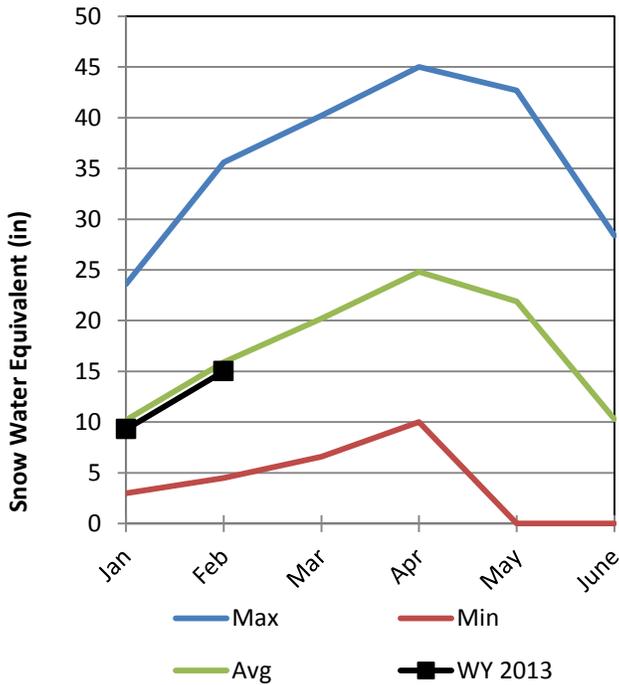
Prepared by the USDA/NRCS National Water and Climate Center
Portland, Oregon <http://www.wcc.nrcs.usda.gov/gis/>
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Raft River Basin

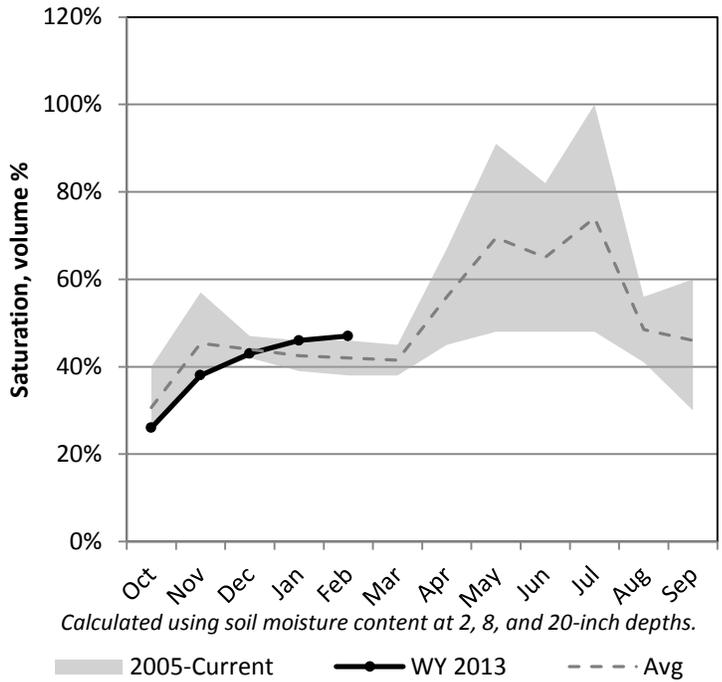
2/1/2013

Snowpack in the Raft River Basin is near average at 104% of normal, compared to 119% last year. Precipitation in January was below average at 74%, which brings the seasonal accumulation (Oct-Jan) to 100% of average. Soil moisture is at 47% compared to 38% last year. The forecast streamflow volume for Dunn Creek is 66% of average.

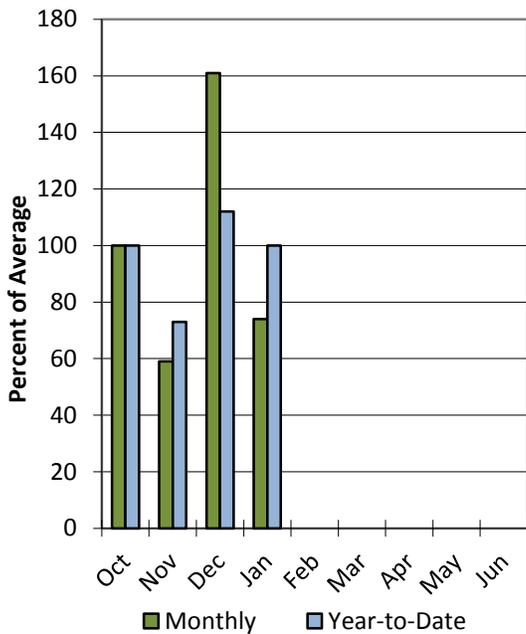
Snowpack



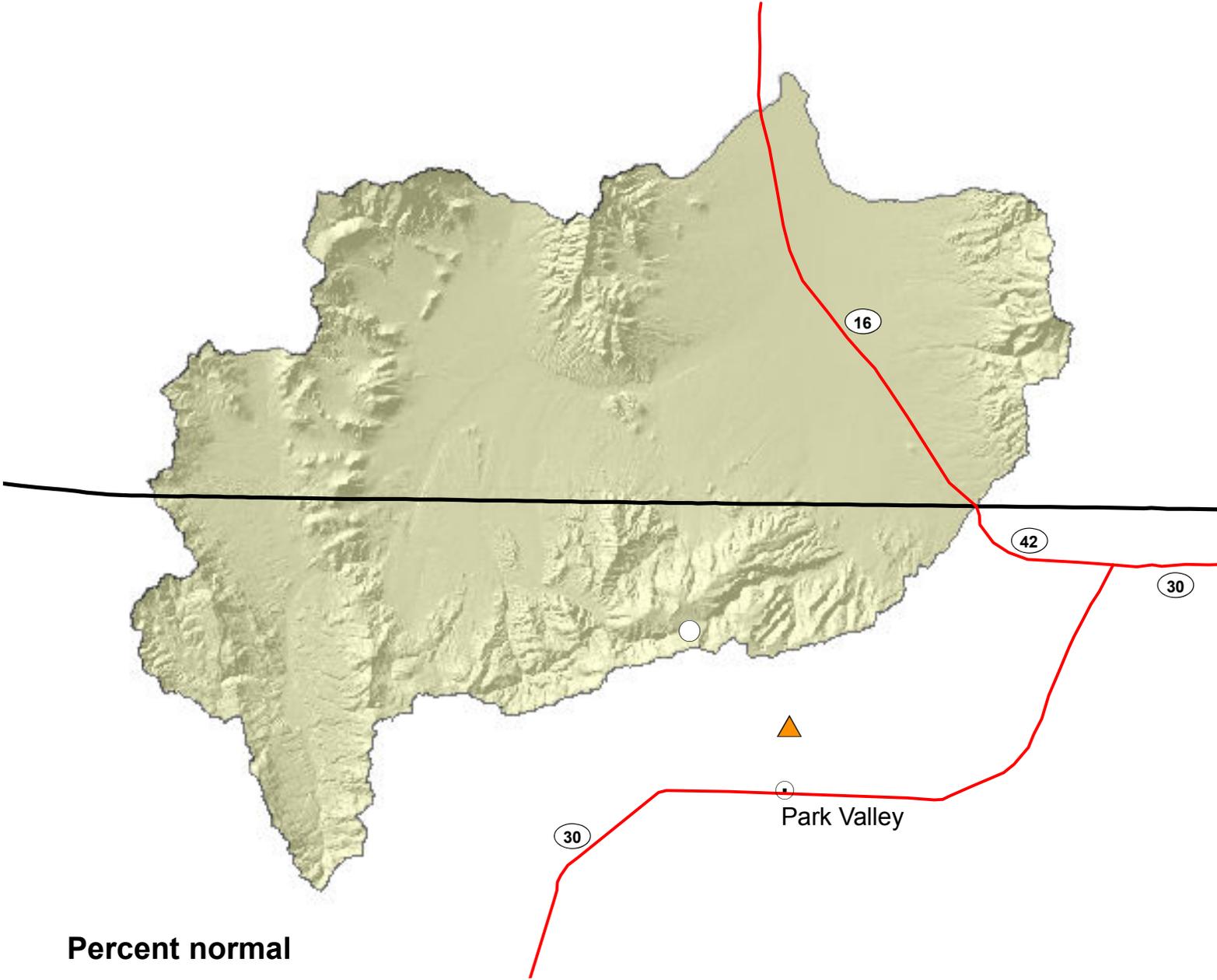
Soil Moisture



Precipitation

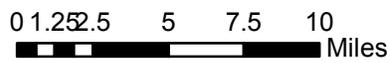
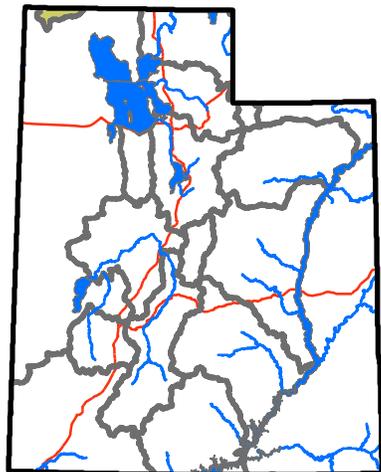


Raft basin



Percent normal

- < 50%
 - 50 - 69%
 - 70 - 89%
 - 90 - 109%
 - 110 - 129%
 - 130 - 149%
 - > 150%
 - no % avail.
- SNOTEL sites
 - Forecast points
 - Rivers
 - Highways
 - Cities



```

=====
                                RAFT RIVER BASIN
                                Streamflow Forecasts - February 1, 2013
=====
Forecast Point | <<===== Drier ===== Future Conditions ===== Wetter =====>> |
Forecast      | ===== Chance Of Exceeding * ===== |
Period        | 90%      70%      50%      30%      10%      30-Yr Avg. |
               | (1000AF) (1000AF) | (1000AF) (% AVG.) | (1000AF) (1000AF) | (1000AF) |
=====
Dunn Ck nr Park Valley | APR-JUL 0.06 0.75 | 1.90 66 | 2.90 4.00 | 2.90 |
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* 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 1981-2010 base period.

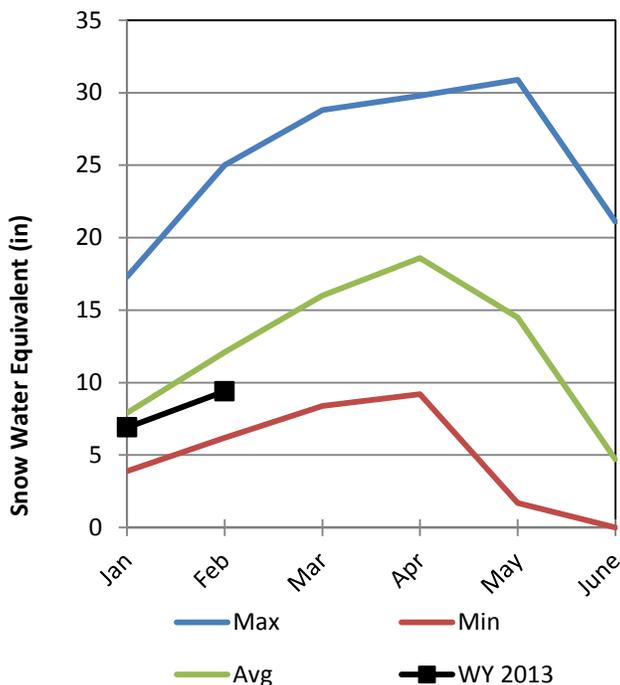
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

Bear River Basin

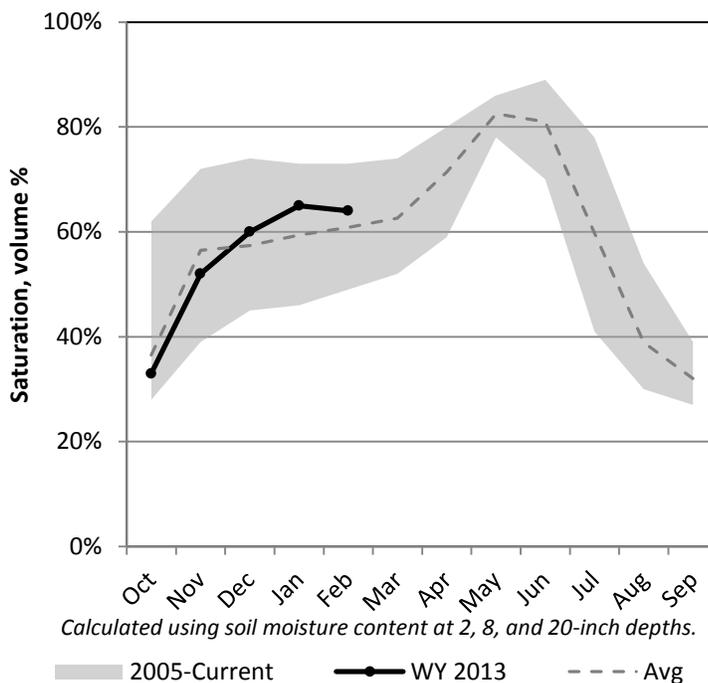
2/1/2013

Snowpack in the Bear River Basin is below average at 85% of normal, compared to 88% last year. Precipitation in January was much below average at 59%, which brings the seasonal accumulation (Oct-Jan) to 92% of average. Soil moisture is at 64% compared to 52% last year. Reservoir storage is at 65% of capacity, compared to 84% last year. Forecast streamflow volumes range from 35% to 86% of average. The surface water supply index is 46% for the Bear River.

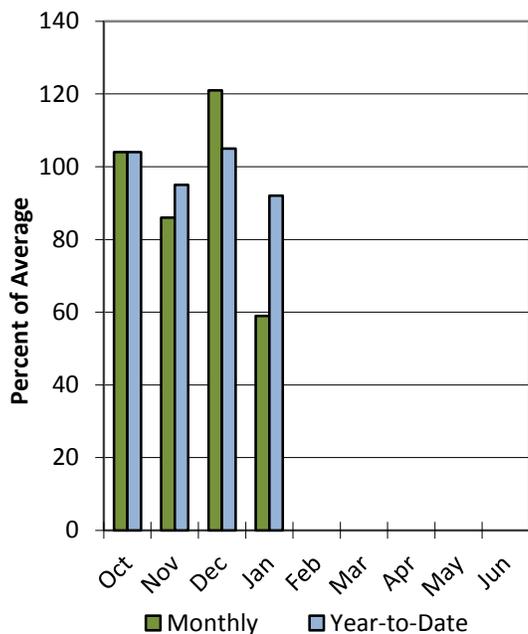
Snowpack



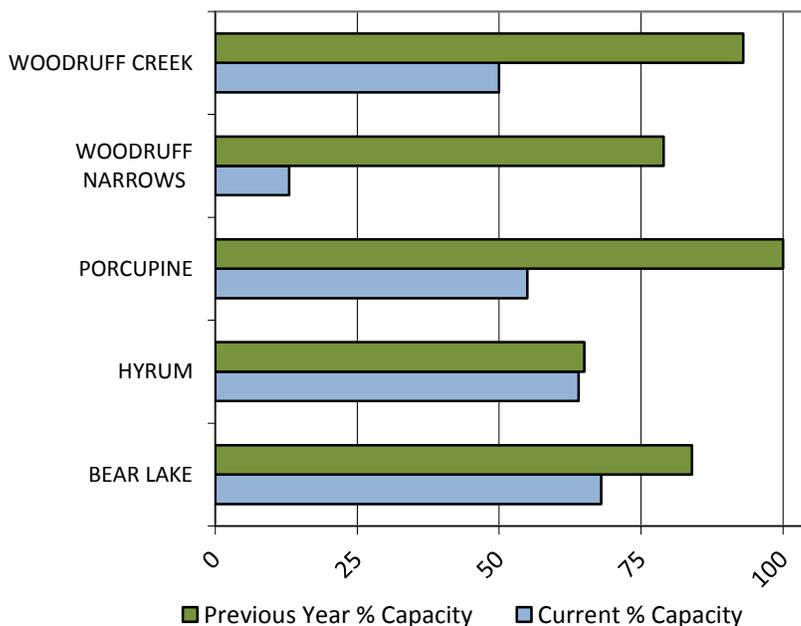
Soil Moisture



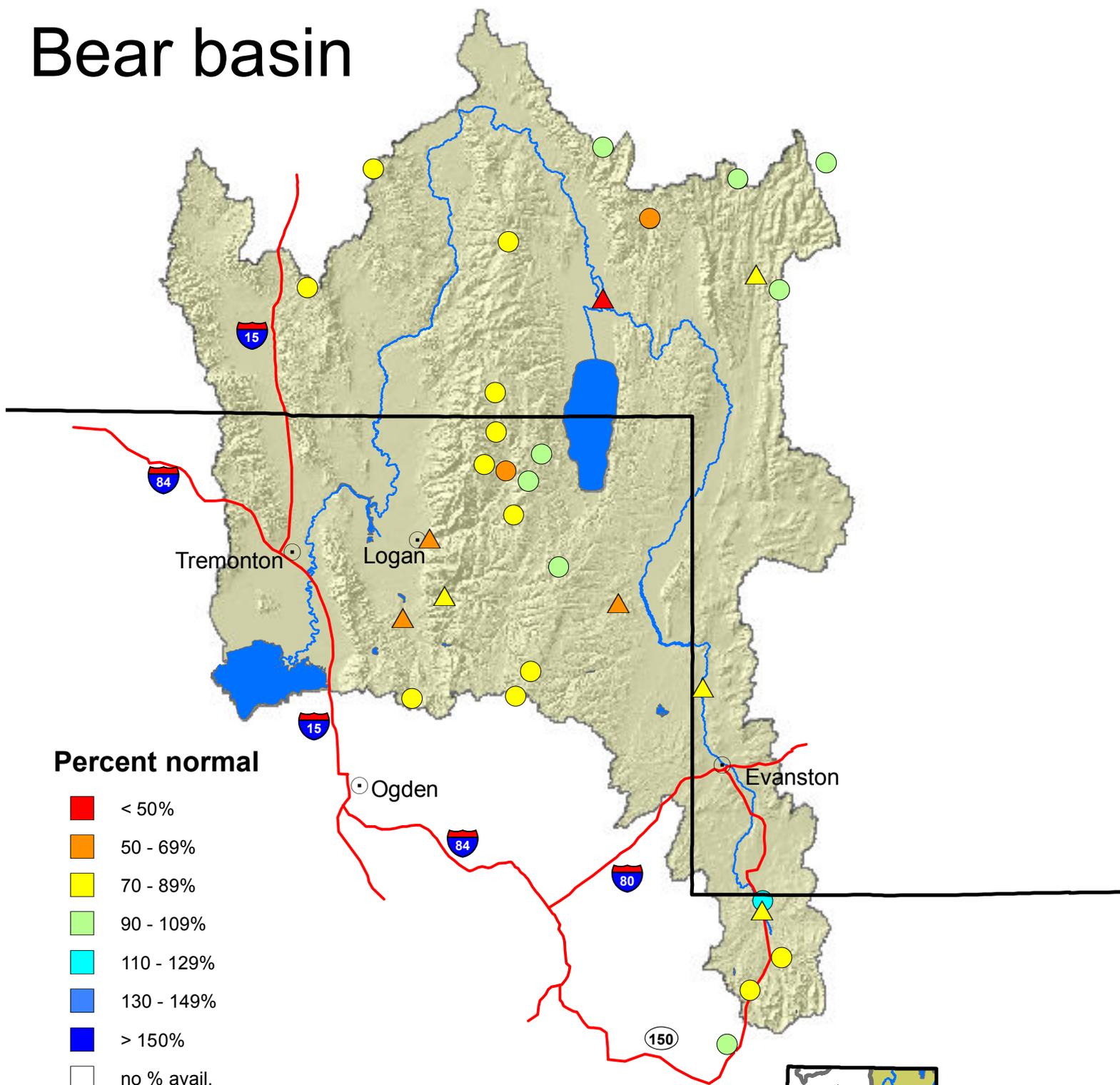
Precipitation



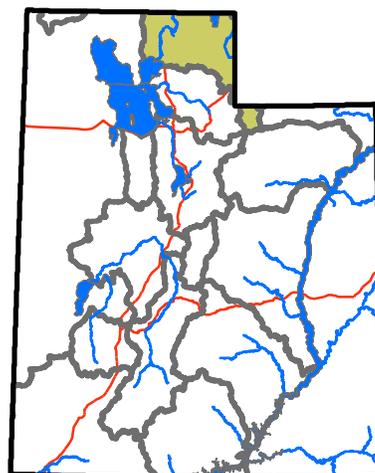
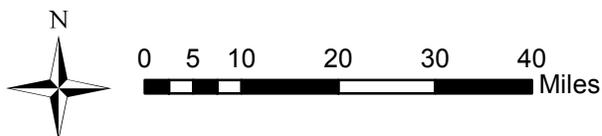
Reservoir Storage



Bear basin



- SNOTEL sites
- △ Forecast points
- Rivers
- Highways
- Cities



BEAR RIVER BASIN								
Streamflow Forecasts - February 1, 2013								
Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
Bear R nr UT-WY State Line	APR-JUL	42	66	82	73	99	123	112
Bear R ab Res nr Woodruff	APR-JUL	5.0	53	91	75	129	185	121
Big Ck nr Randolph	APR-JUL	0.41	1.70	2.60	68	3.40	4.70	3.80
Smiths Fk nr Border	APR-JUL	33	54	68	76	83	104	89
Bear R bl Stewart Dam	APR-JUL	2.0	20	64	35	119	201	183
Little Bear R at Paradise	APR-JUL	1.2	11.8	22	54	32	47	41
Logan R nr Logan	APR-JUL	19.0	49	69	62	89	119	111
Blacksmith Fork nr Hyrum	APR-JUL	12.7	27	37	86	47	61	43

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

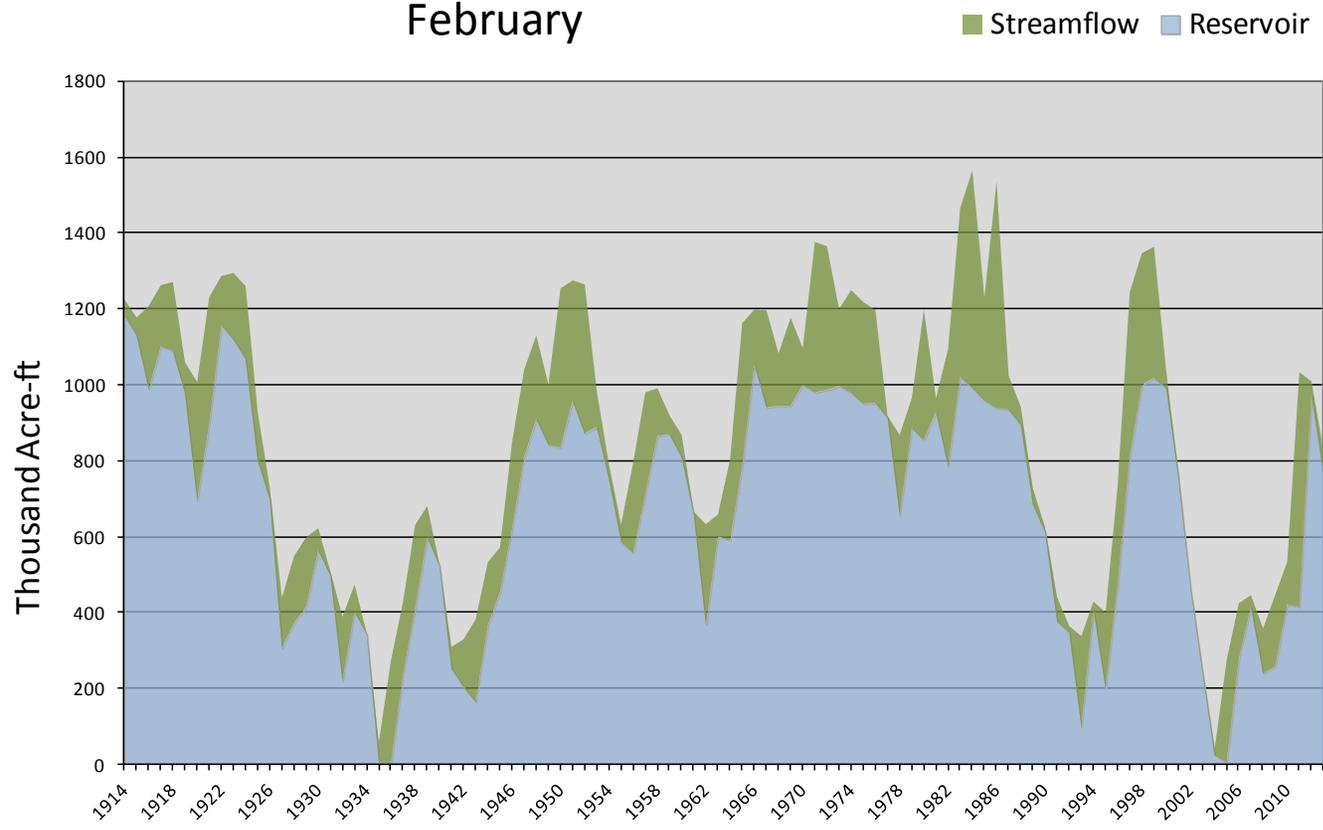
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- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

<i>February 1, 2013</i>	Surface Water Supply Index					
Basin or Region	January EOM* Bear Lake	April-July Forecast below Stewart Dam	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Bear River	761	64	825	-0.37	46	56,64,46,60

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

**Bear Lake - Surface Water Supply Index
February**

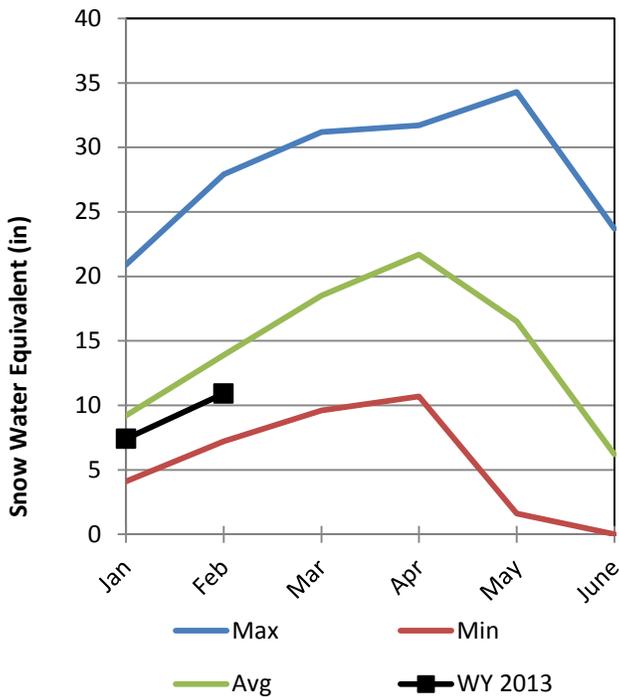


Weber & Ogden River Basins

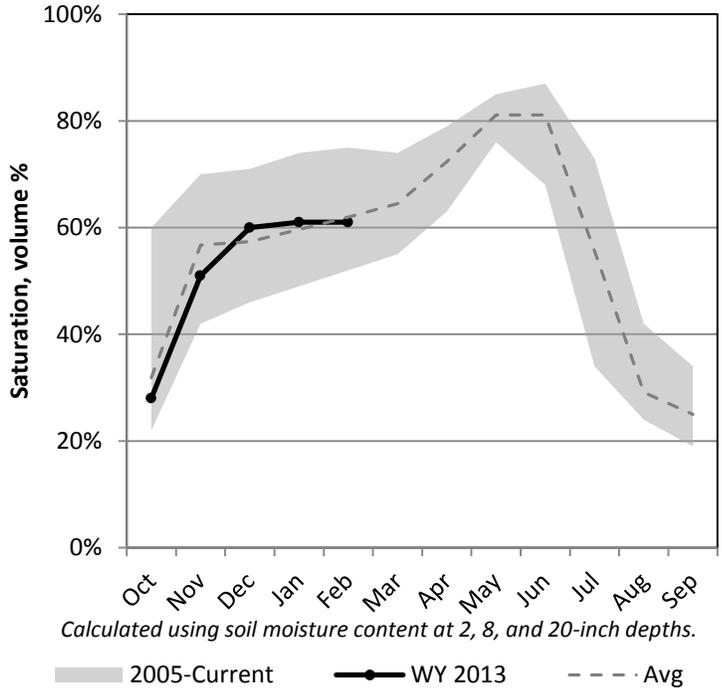
2/1/2013

Snowpack in the Weber & Ogden River Basins is below average at 83% of normal, compared to 77% last year. Precipitation in January was below average at 72%, which brings the seasonal accumulation (Oct-Jan) to 91% of average. Soil moisture is at 61% compared to 54% last year. Reservoir storage is at 43% of capacity, compared to 71% last year. Forecast streamflow volumes range from 63% to 91% of average. The surface water supply index is 24% for the Ogden River, 38% for the Weber River.

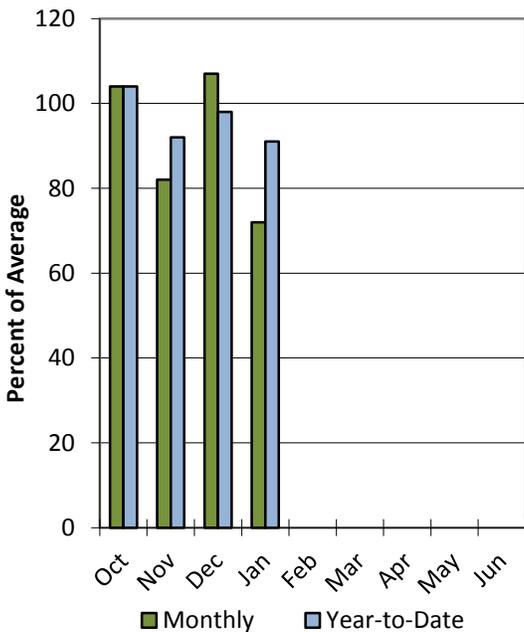
Snowpack



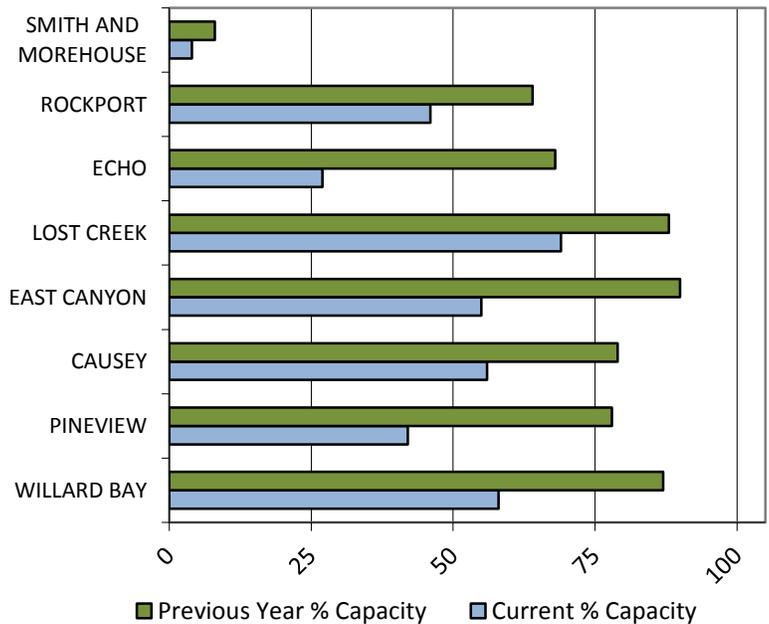
Soil Moisture



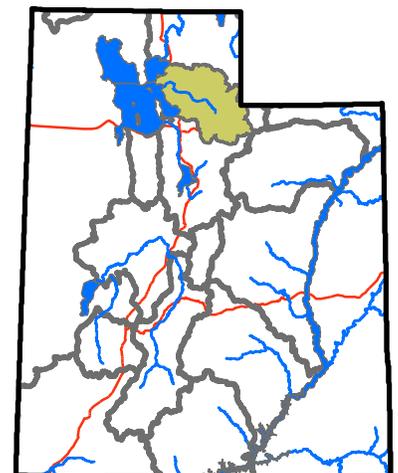
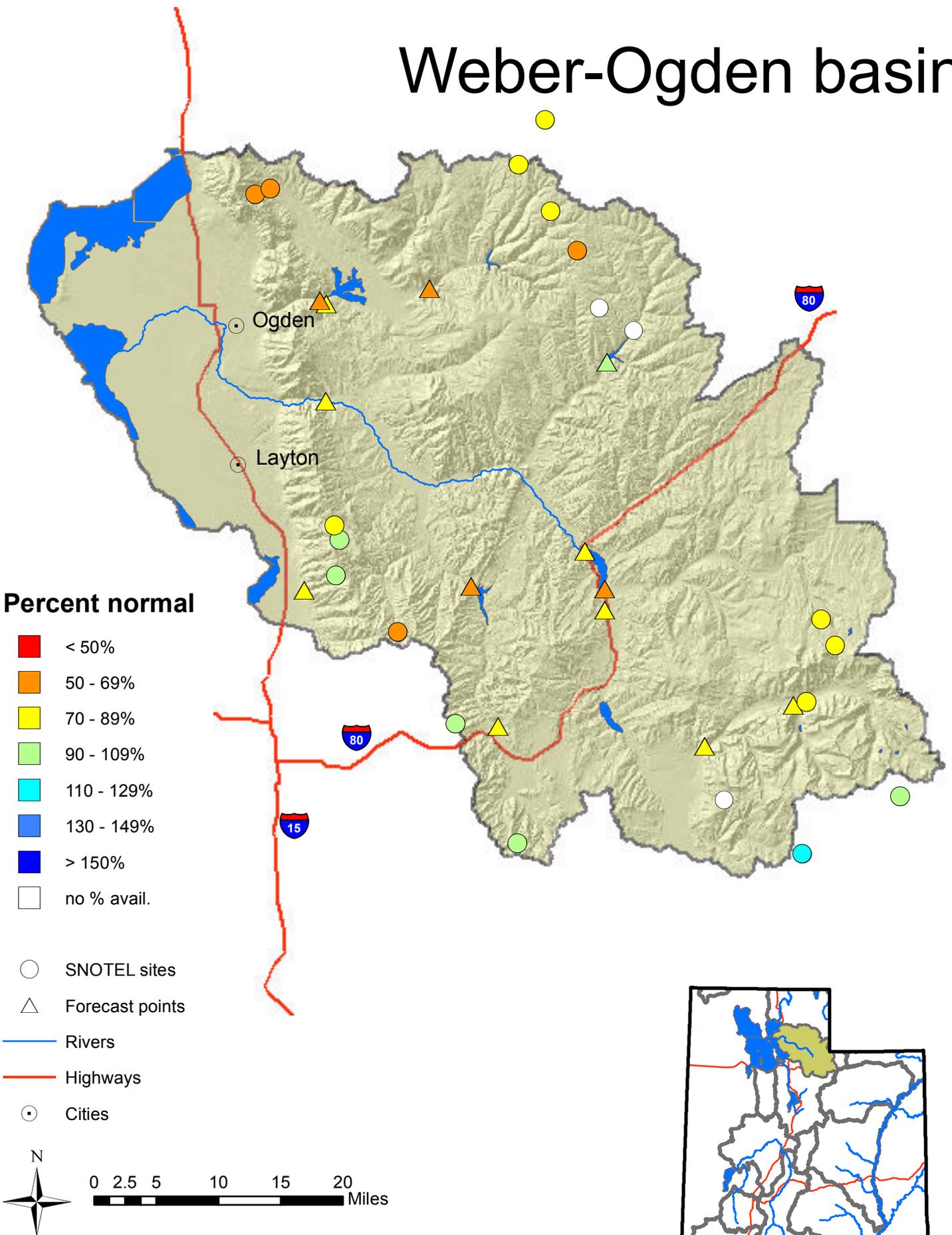
Precipitation



Reservoir Storage



Weber-Ogden basin



WEBER & OGDEN WATERSHEDS in Utah as of February 1, 2013

WEBER & OGDEN WATERSHEDS in Utah
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>		Chance Of Exceeding *				30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
Smith & Morehouse Res Inflow	APR-JUL	15.5	21	24	71	28	33	34
Weber R nr Oakley	APR-JUL	43	69	86	74	104	130	117
Rockport Res	APR-JUL	34	71	96	78	120	157	123
Weber R nr Coalville	APR-JUL	34	71	96	76	121	157	126
Chalk Ck at Coalville	APR-JUL	0.1	16.1	27	66	38	54	41
Echo Res Inflow	APR-JUL	16.0	76	117	71	158	218	166
Lost Ck Resv Inflow	APR-JUL	1.3	7.1	11.0	91	14.9	21	12.1
East Canyon Ck nr Jeremy Ranch	APR-JUL	104	111	11.0	72	120	127	15.2
East Canyon Ck nr Morgan	APR-JUL	2.2	12.2	19.0	68	26	36	28
Weber R at Gateway	APR-JUL	19.0	160	255	81	350	490	315
SF Ogden R nr Huntsville	APR-JUL	4.3	24	38	68	52	72	56
Pineview Res Inflow	APR-JUL	4.3	30	60	70	90	133	86
Wheeler Ck nr Huntsville	APR-JUL	0.64	2.60	4.00	64	5.40	7.40	6.30
Centerville Ck	APR-JUL	0.46	0.78	1.00	74	1.22	1.54	1.35

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

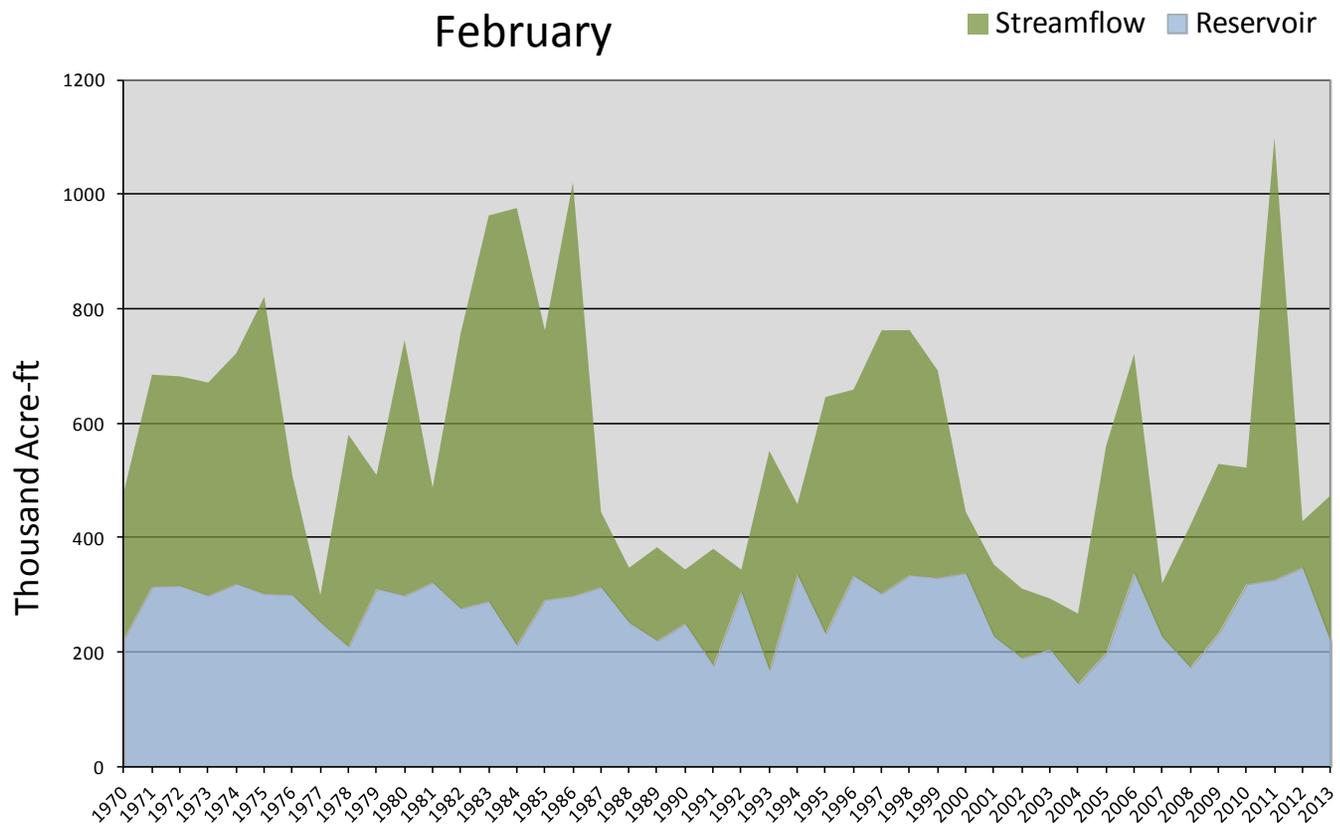
The average is computed for the 1981-2010 base period.

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- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

February 1, 2013		Surface Water Supply Index				
Basin or Region	January EOM* Reservoirs	April-July Forecast Weber River at Gateway	Reservoirs + Streamflow	SWSI#	Percentile	Years with similar SWSI
	KAF^	KAF	KAF		%	
Weber River	218	255	473	-1.02	38	87, 94, 70, 81

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

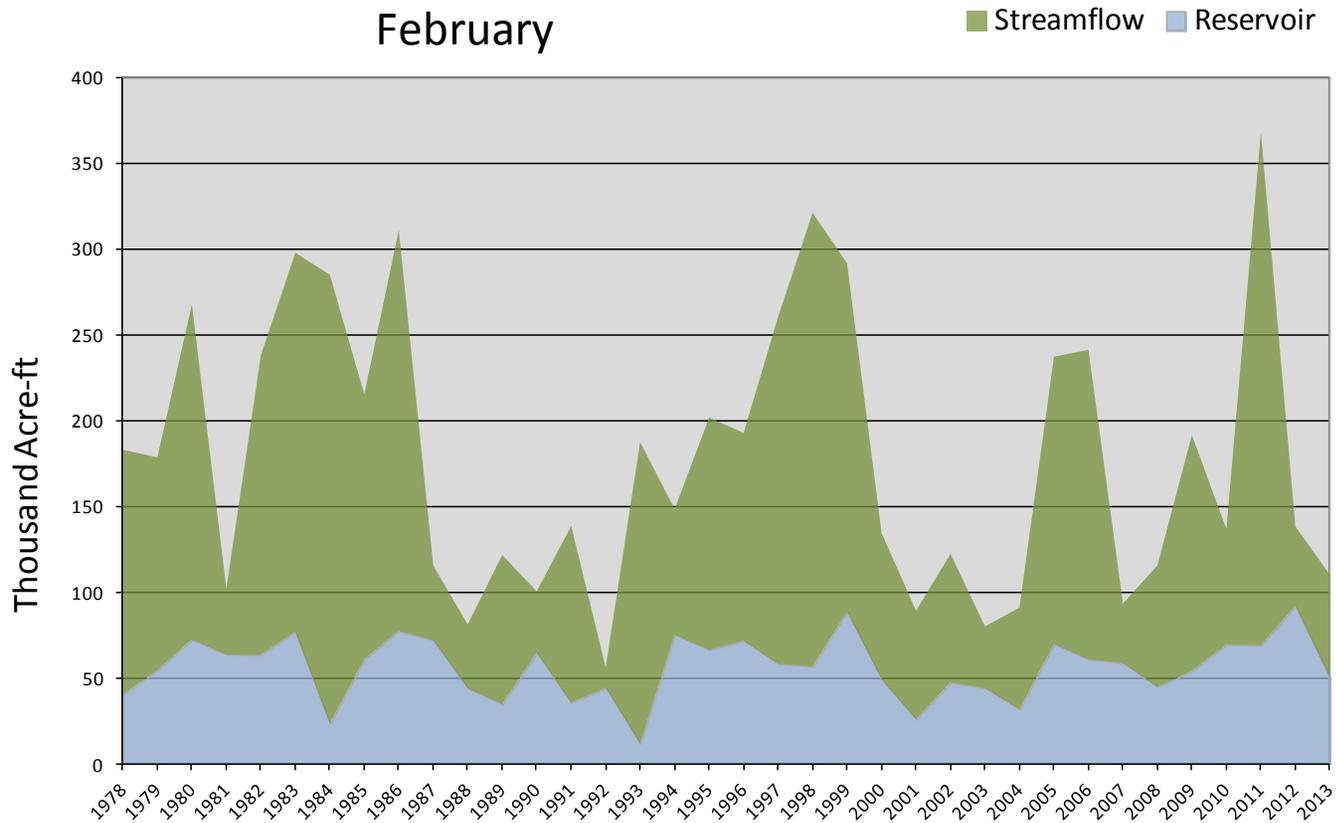
Weber River - Surface Water Supply Index
February



February 1, 2013		Surface Water Supply Index				
Basin or Region	January EOM* Pine View & Causey	April-July Forecast Pineview Reservoir Inflow	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	KAF^	KAF	KAF		%	
Ogden River	49.9	60.0	110	-2.14	24	90, 81, 87, 08

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

Ogden - Surface Water Supply Index
February

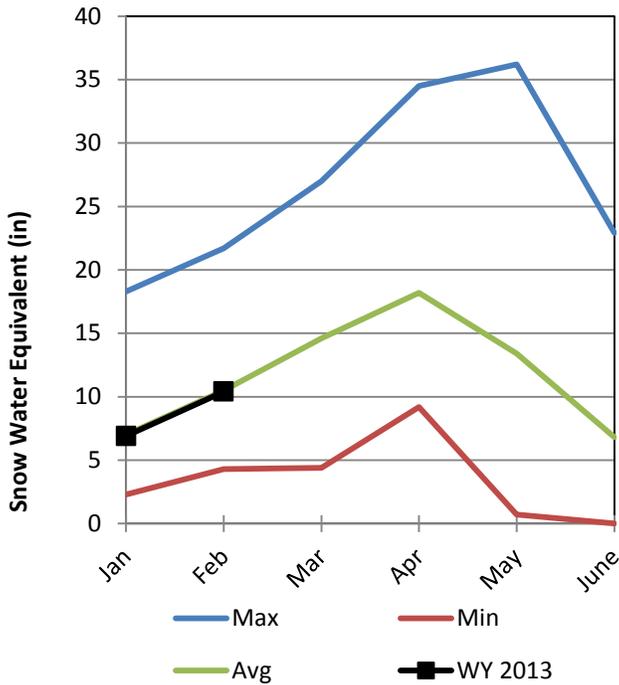


Tooele & Vernon Creek Basins

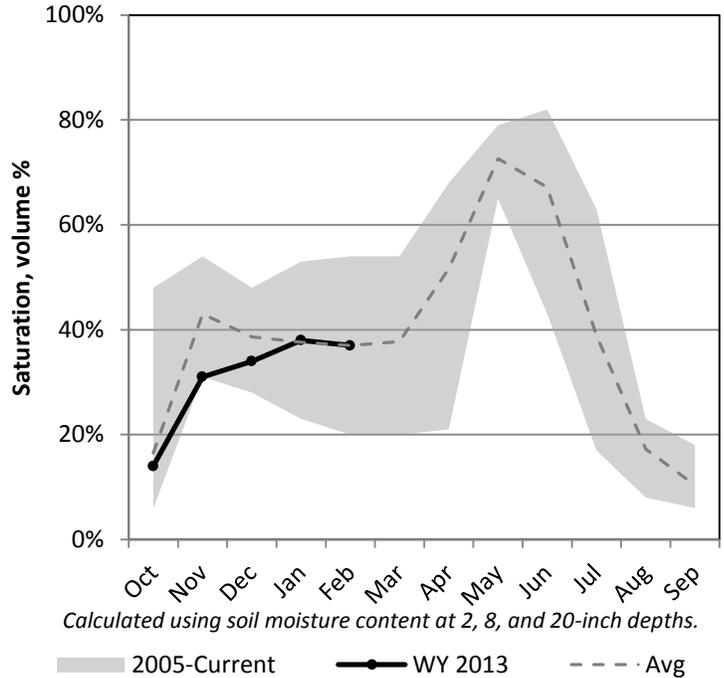
2/1/2013

Snowpack in the Tooele & Vernon Creek Basins is above average at 114% of normal, compared to 71% last year. Precipitation in January was below average at 79%, which brings the seasonal accumulation (Oct-Jan) to 93% of average. Soil moisture is at 37% compared to 24% last year. Reservoir storage is at 27% of capacity, compared to 76% last year. Forecast streamflow volumes range from 86% to 106% of average.

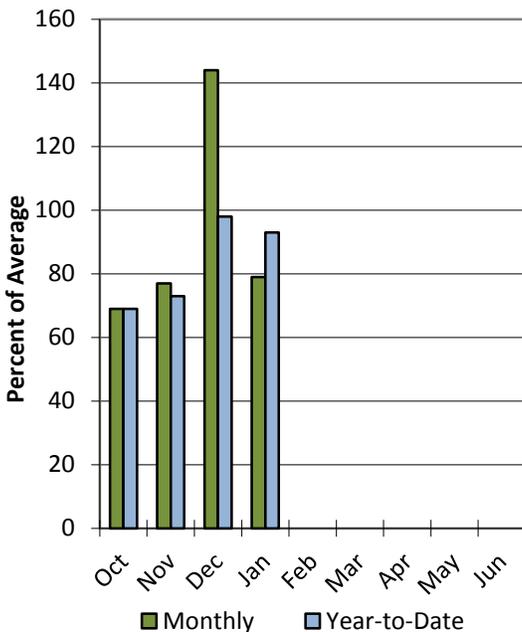
Snowpack



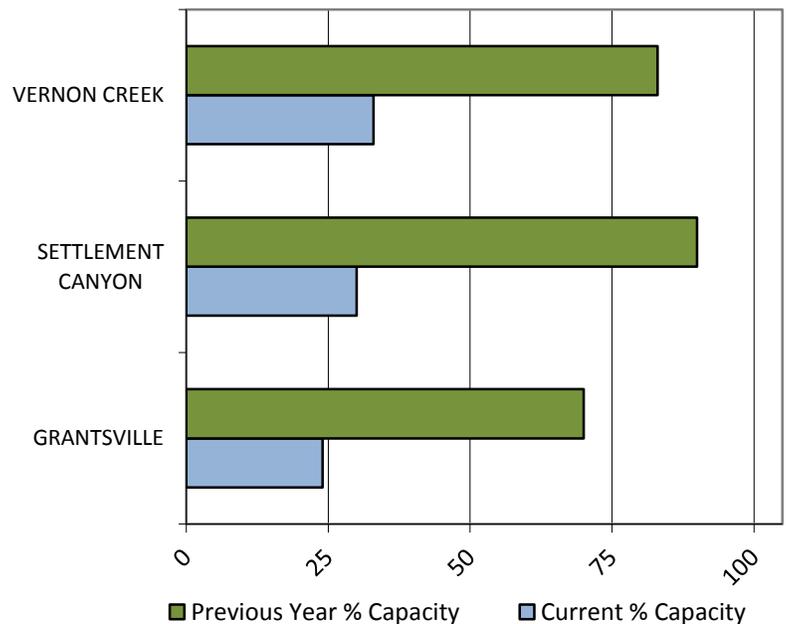
Soil Moisture



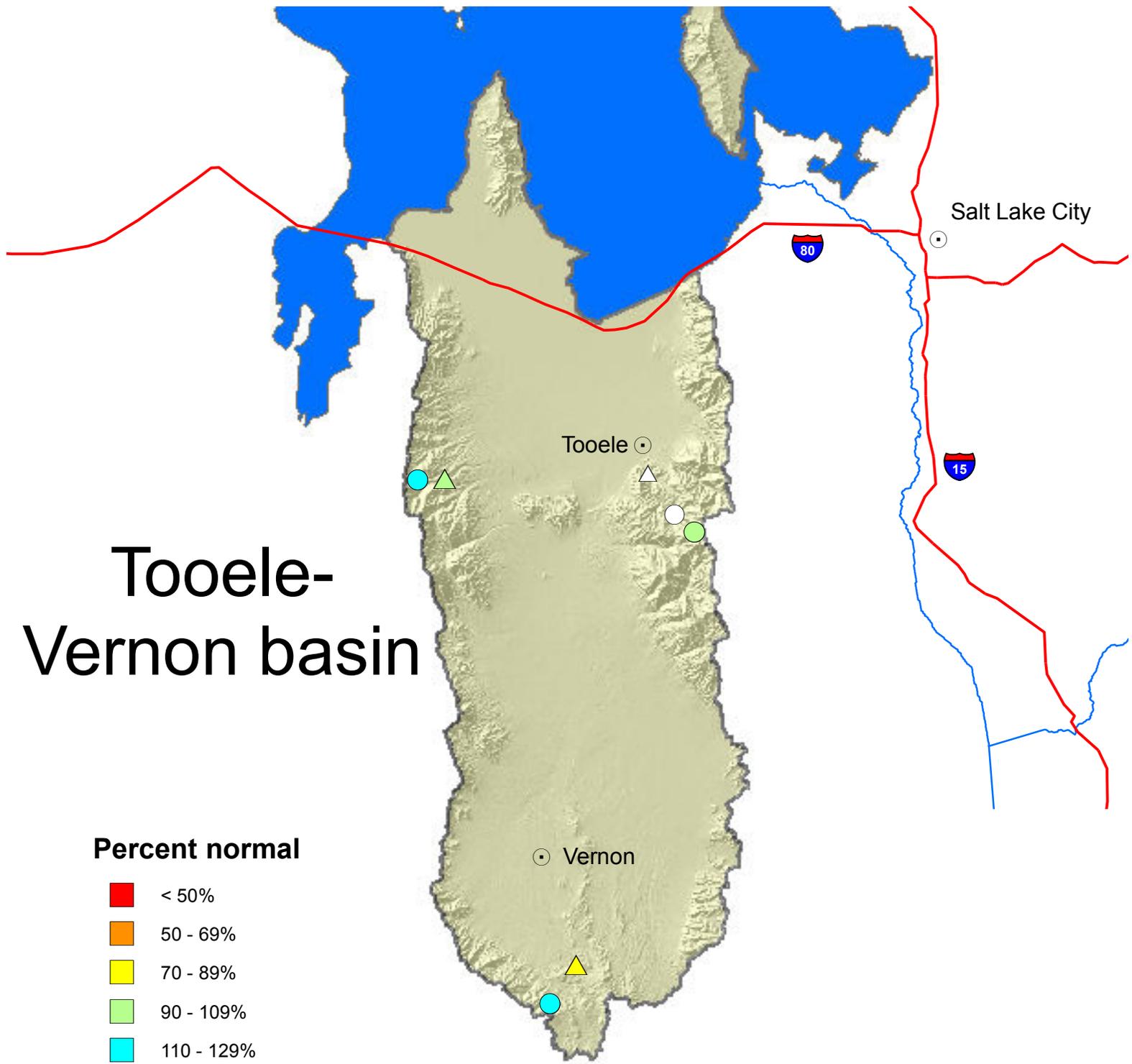
Precipitation



Reservoir Storage



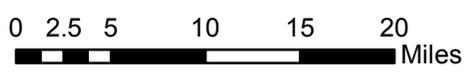
Tooele- Vernon basin



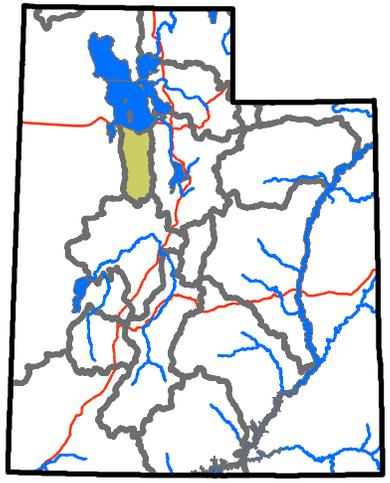
Percent normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%
- no % avail.

- SNOTEL sites
- Forecast points
- Rivers
- Highways
- Cities



United States Department of Agriculture
 Natural Resources Conservation Service



TOOELE VALLEY								
Streamflow Forecasts - February 1, 2013								
Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						
		90% (1000AF)		70% (1000AF)		50% (1000AF) (% AVG.)		30% (1000AF) 10% (1000AF)
Vernon Ck nr Vernon	APR-JUL	0.04	0.57	1.20	86	1.70	2.50	1.39
S Willow Ck nr Grantsville	APR-JUL	1.46	2.60	3.30	107	4.00	5.10	3.10
W Canyon Ck nr Cedar Fort	APR-JUL	0.39	1.17	1.70	97	2.20	3.00	1.76

* 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 1981-2010 base period.

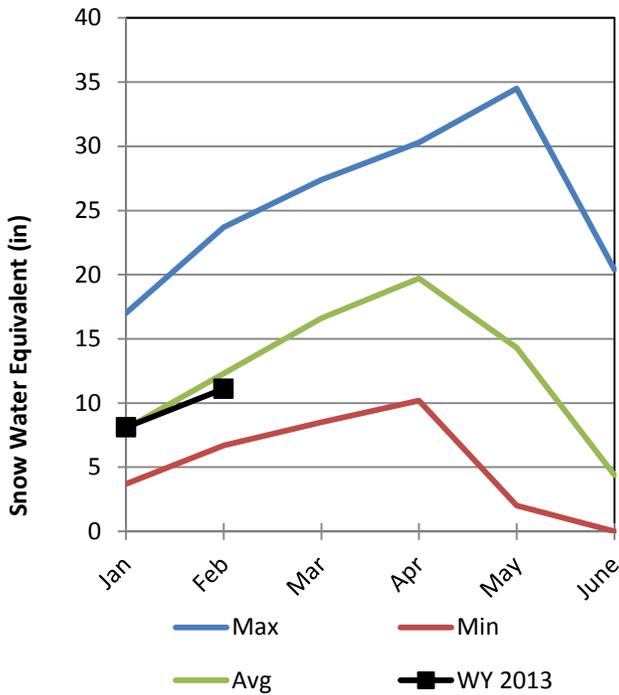
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

Provo & Jordan River Basins

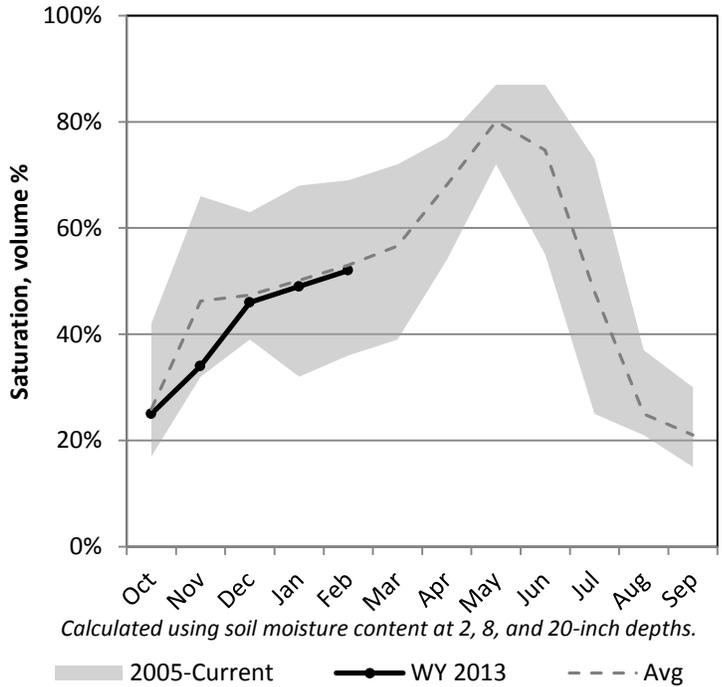
2/1/2013

Snowpack in the Provo & Jordan River Basins is near average at 93% of normal, compared to 71% last year. Precipitation in January was below average at 71%, which brings the seasonal accumulation (Oct-Jan) to 91% of average. Soil moisture is at 52% compared to 39% last year. Reservoir storage is at 77% of capacity, compared to 93% last year. Forecast streamflow volumes range from 55% to 94% of average. The surface water supply index is 17% for the Provo River.

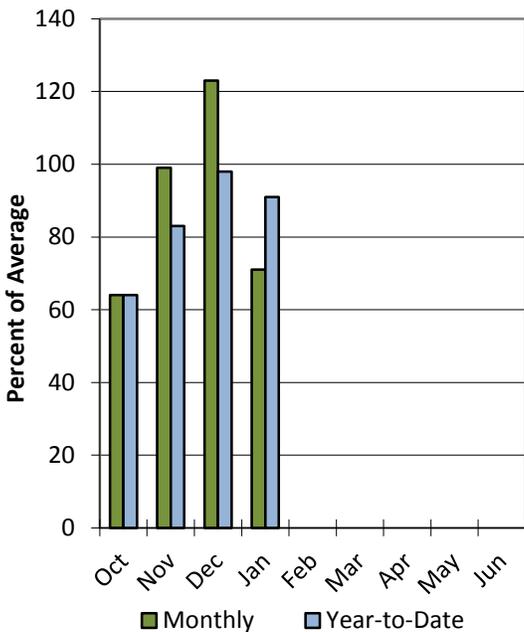
Snowpack



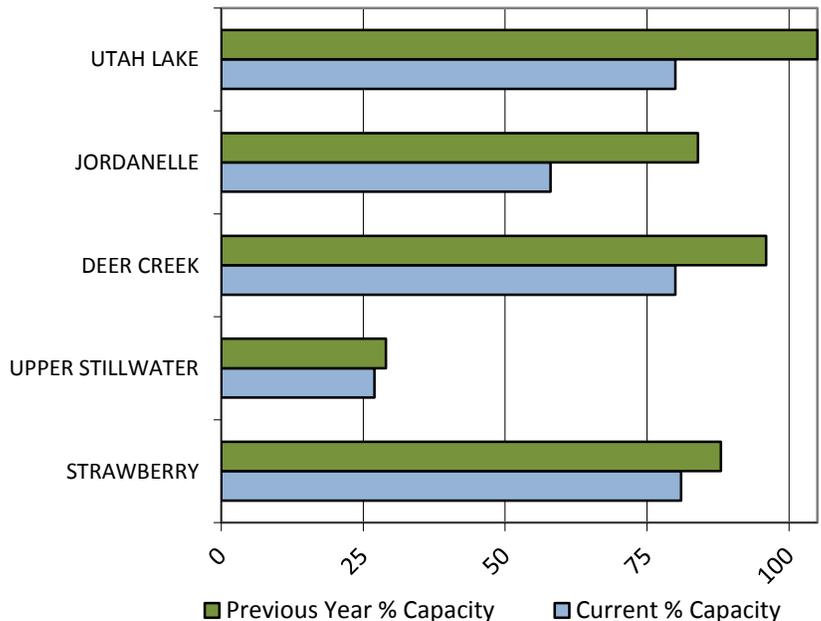
Soil Moisture



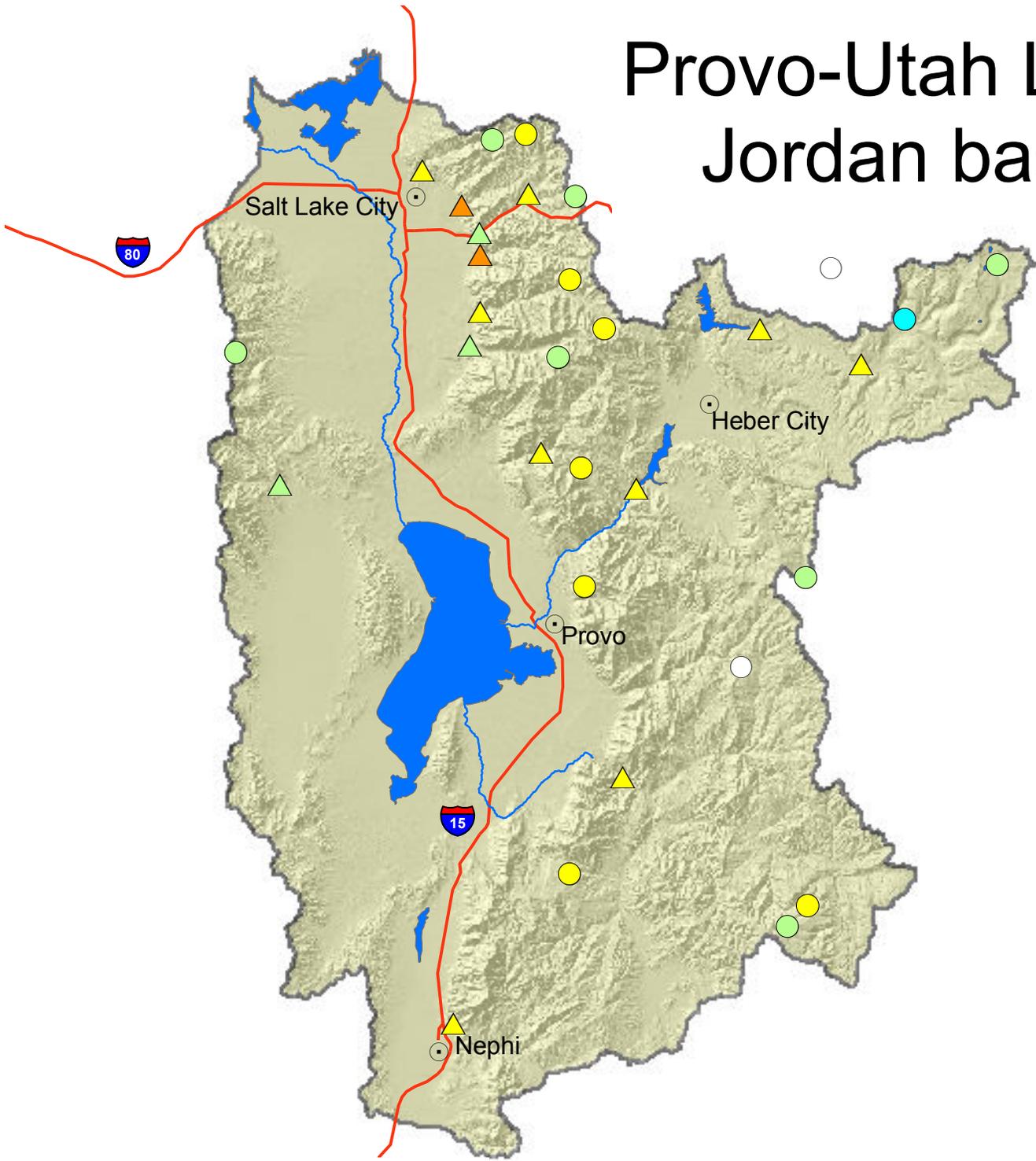
Precipitation



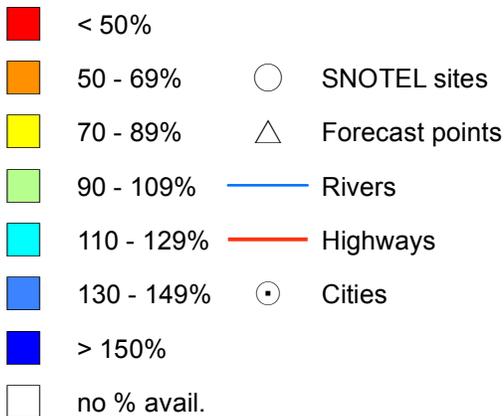
Reservoir Storage



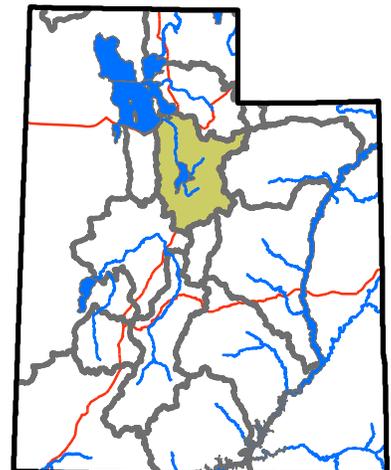
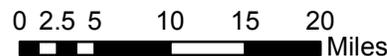
Provo-Utah Lake-Jordan basin



Percent normal



United States Department of Agriculture
 Natural Resources Conservation Service



UTAH LAKE, JORDAN RIVER as of February 1, 2013

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>		Chance Of Exceeding *				30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
Salt Ck at Nephi	APR-JUL	0.19	3.40	7.50	79	10.60	15.80	9.50
Spanish Fk at Castilla	APR-JUL	2.1	35	60	87	106	159	69
Provo R nr Woodland	APR-JUL	47	67	84	84	102	131	100
Provo R nr Hailstone	APR-JUL	47	68	85	79	104	135	108
Provo R bl Deer Ck Dam	APR-JUL	48	74	92	79	110	136	116
American Fk ab Upper Powerplant	APR-JUL	8.2	17.6	24	75	30	40	32
Utah Lake Inflow	APR-JUL	3.0	82	250	94	448	869	265
L Cottonwood Ck nr SLC	APR-JUL	24	30	35	92	40	48	38
Big Cottonwood Ck nr SLC	APR-JUL	14.0	22	27	75	32	40	36
Mill Ck nr SLC	APR-JUL	0.13	1.95	3.50	55	5.00	7.30	6.40
Parley's Ck nr SLC	APR-JUL	3.5	9.2	13.0	92	16.8	22	14.2
Dell Fk nr SLC	APR-JUL	0.14	2.50	5.00	73	7.50	11.30	6.90
Emigration Ck nr SLC	APR-JUL	0.12	1.16	2.60	65	4.00	6.20	4.00
City Ck nr SLC	APR-JUL	2.20	5.00	6.80	88	8.80	11.60	7.70

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

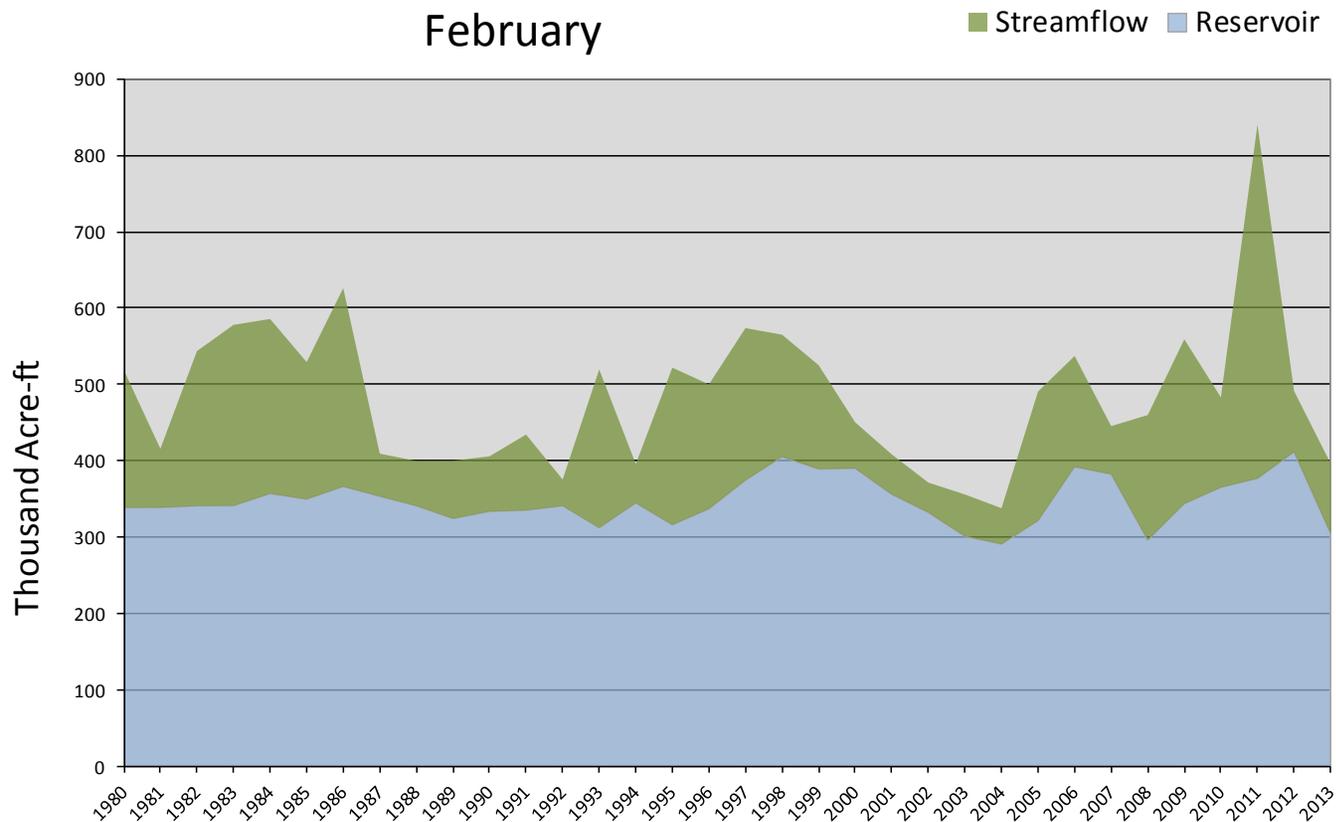
The average is computed for the 1981-2010 base period.

- (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.

February 1, 2013		Surface Water Supply Index				
Basin or Region	January EOM* Deer Creek, Jordanelle	April - July Forecast Provo River below Deer Creek	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	KAF^	KAF	KAF		%	
Provo River	305	92	397	-2.74	17	89,88,94,92

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

Provo River - Surface Water Supply Index
February

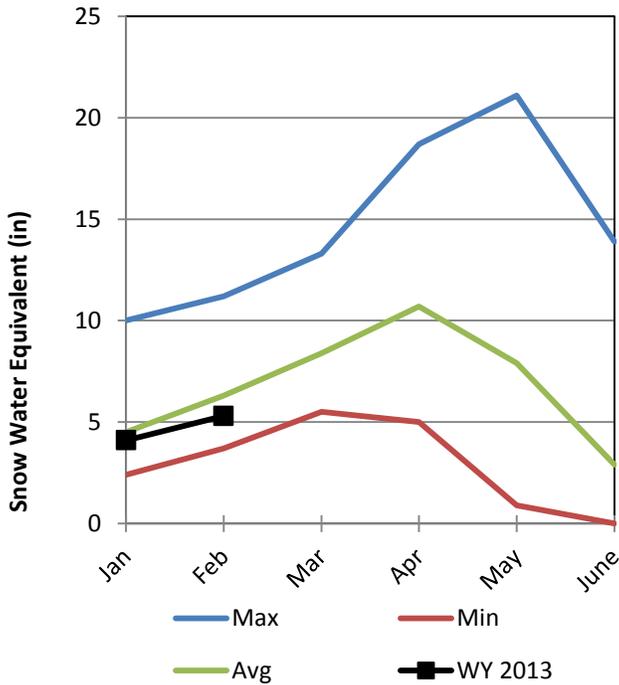


Northeastern Uintah Basin

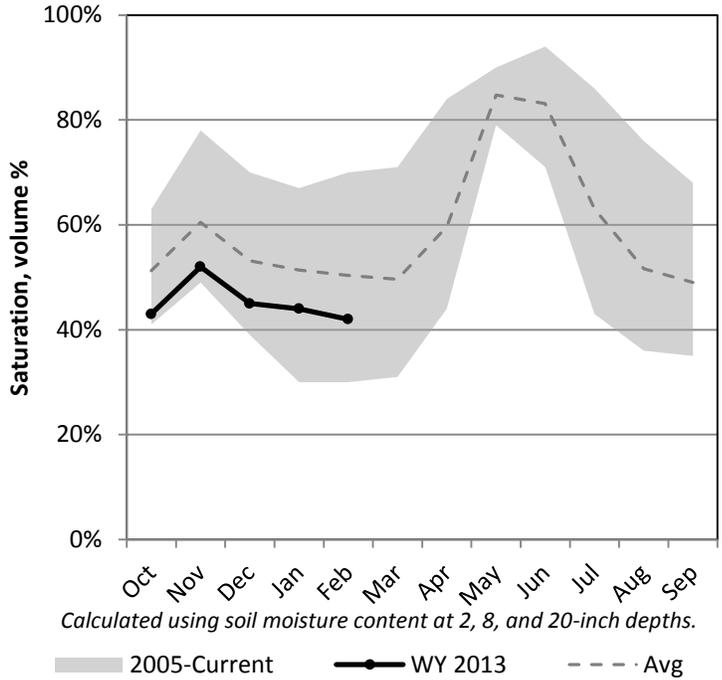
2/1/2013

Snowpack in the Northeastern Uintah Basin is near average at 94% of normal, compared to 91% last year. Precipitation in January was below average at 70%, which brings the seasonal accumulation (Oct-Jan) to 90% of average. Soil moisture is at 42% compared to 61% last year. Reservoir storage is at 79% of capacity, compared to 89% last year. Forecast streamflow volumes range from 68% to 75% of average.

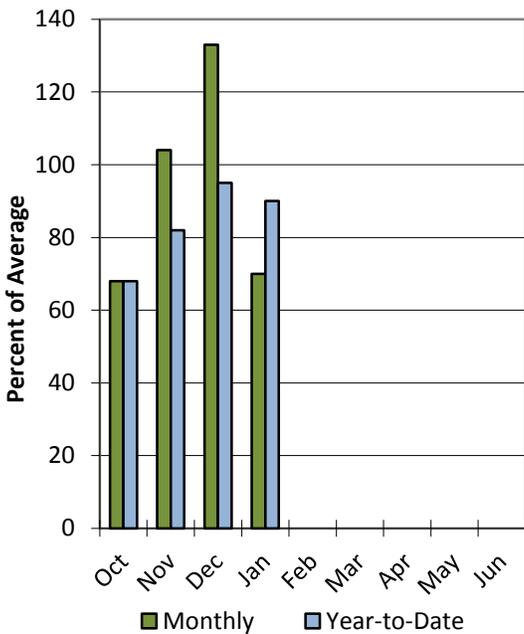
Snowpack



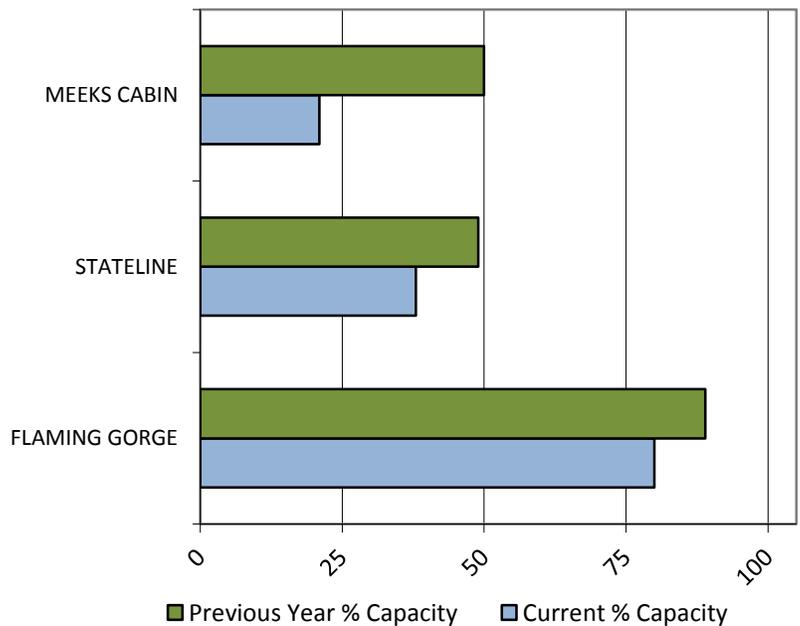
Soil Moisture



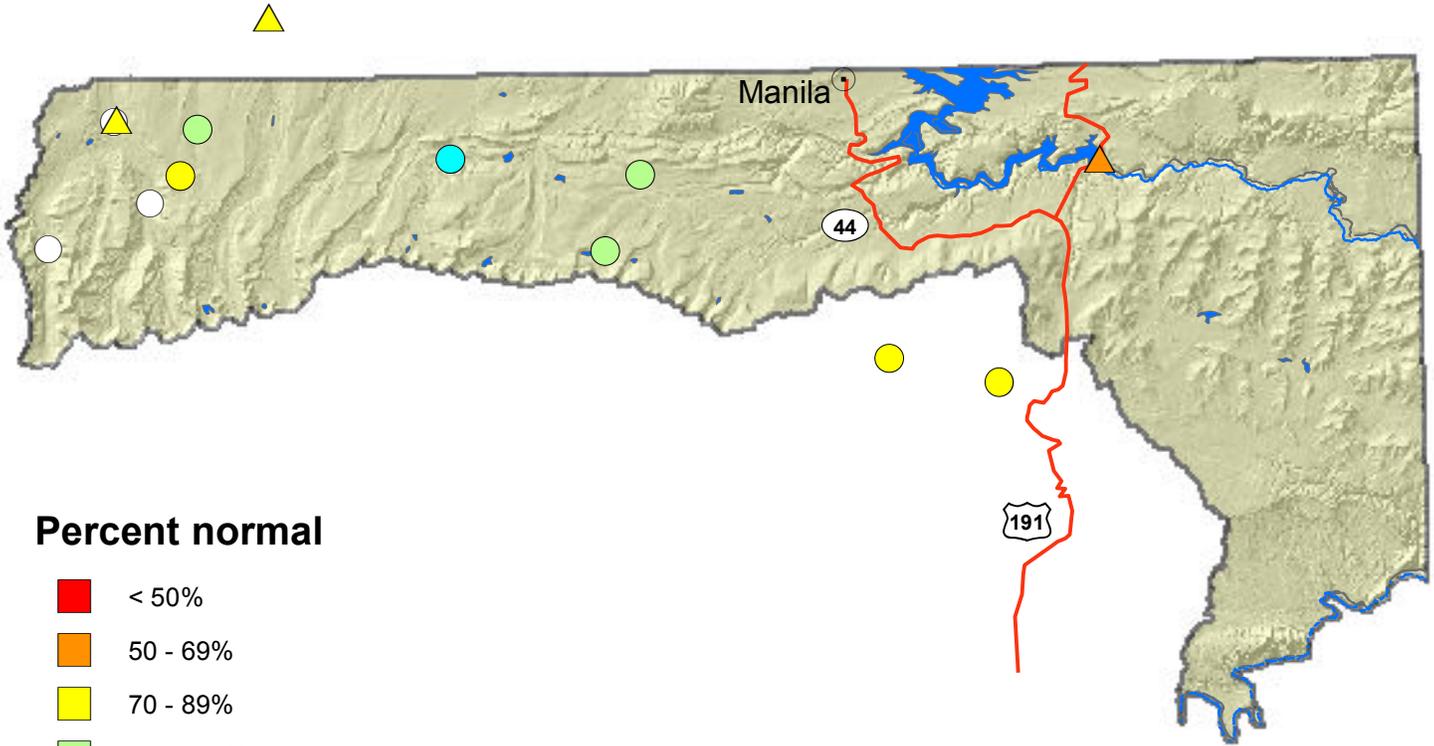
Precipitation



Reservoir Storage



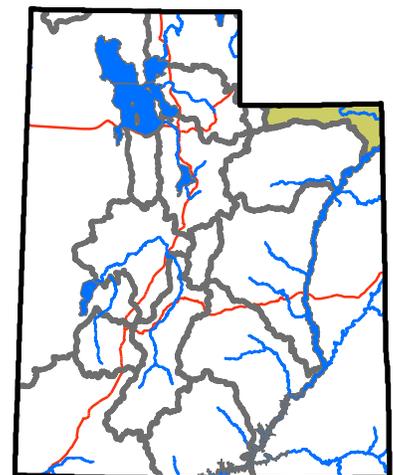
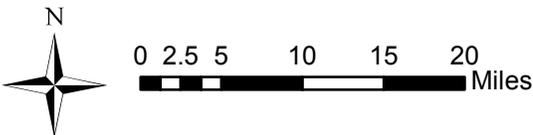
Northeastern Utah



Percent normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%
- no % avail.

- SNOTEL sites
- △ Forecast points
- Rivers
- Highways
- Cities



NORTHEASTERN UTAH								
Streamflow Forecasts - February 1, 2013								
Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
Blacks Fk nr Robertson	APR-JUL	39	54	66	74	79	99	89
EF of Smiths Fork nr Robertson (2)	APR-JUL	11.4	15.9	19.5	75	23	30	26
Flaming Gorge Reservoir Inflow (2)	APR-JUL	295	500	670	68	865	1190	980

* 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 1981-2010 base period.

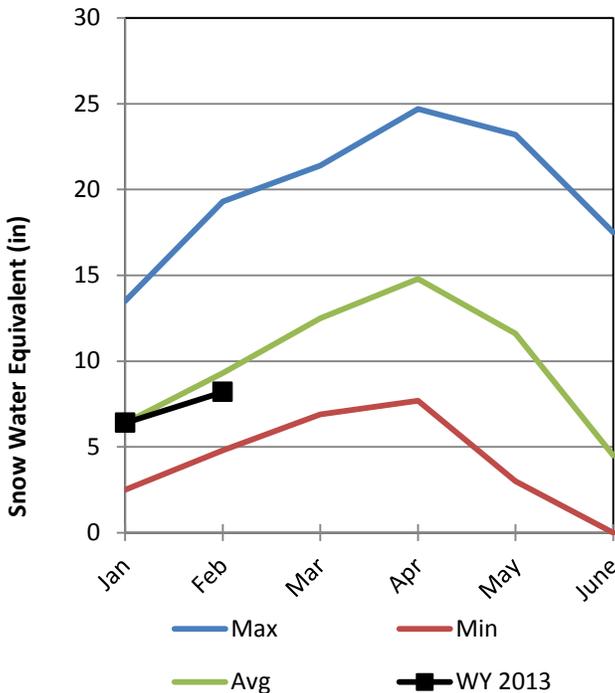
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
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- (3) - Median value used in place of average.

Duchesne River Basin

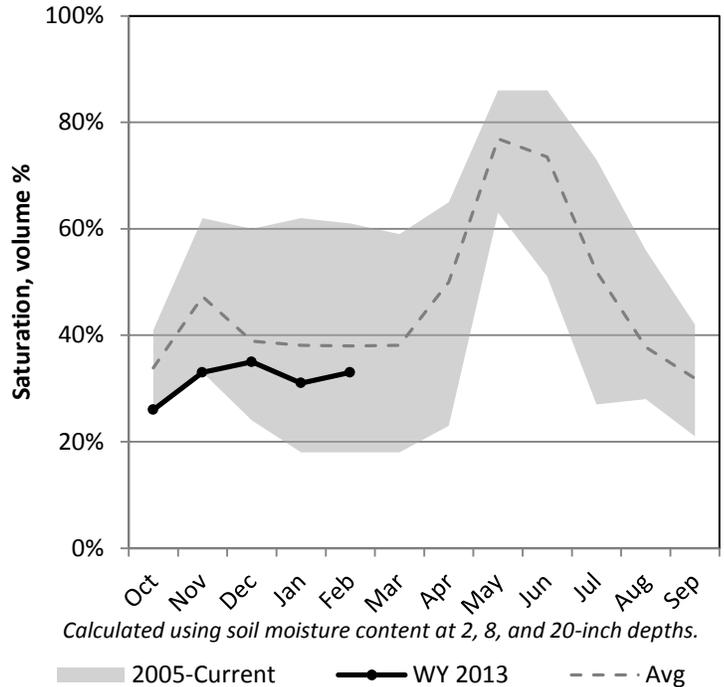
2/1/2013

Snowpack in the Duchesne River Basin is near average at 99% of normal, compared to 73% last year. Precipitation in January was much below average at 58%, which brings the seasonal accumulation (Oct-Jan) to 89% of average. Soil moisture is at 33% compared to 30% last year. Reservoir storage is at 76% of capacity, compared to 87% last year. Forecast streamflow volumes range from 64% to 79% of average. The surface water supply index is 34% for the Western Uintahs, 6% for the Eastern Uintahs.

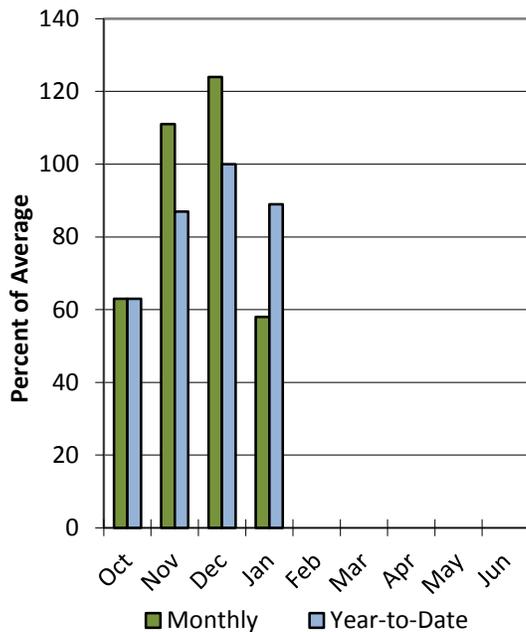
Snowpack



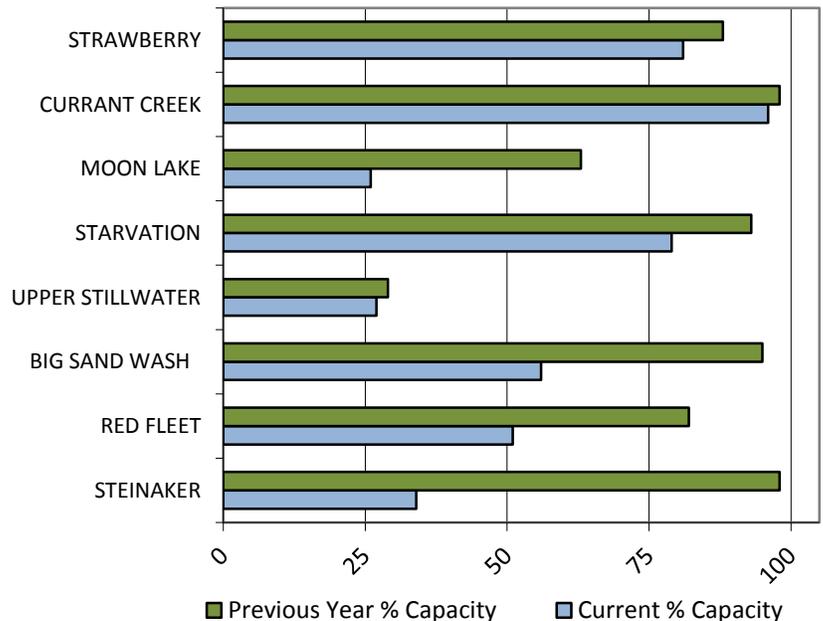
Soil Moisture



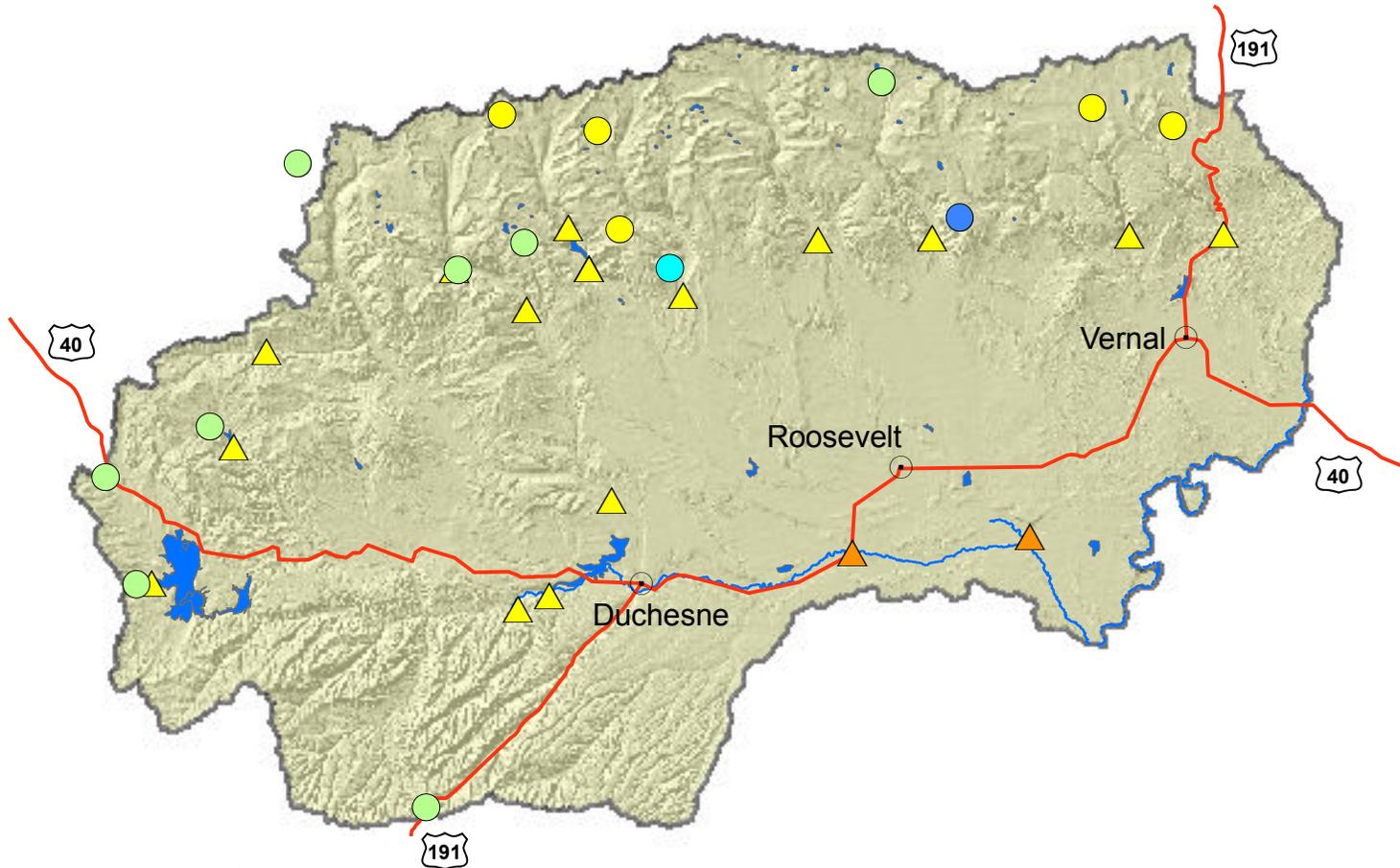
Precipitation



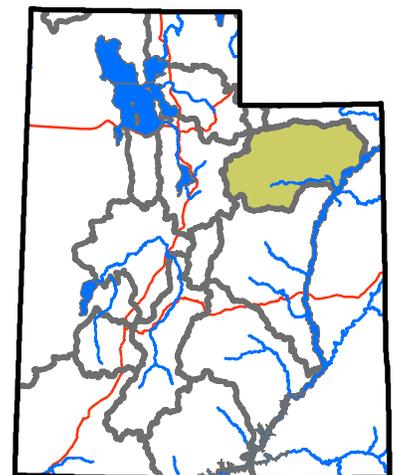
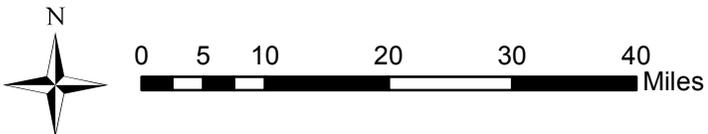
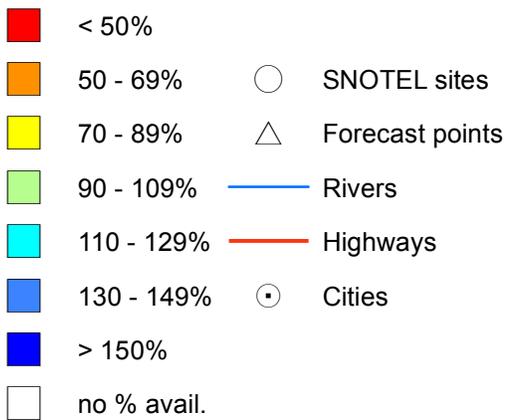
Reservoir Storage



Duchesne basin



Percent normal



UINTAH BASIN
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>		Chance Of Exceeding *				30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
Big Brush Ck ab Red Fleet Reservoir	APR-JUL	9.3	13.1	16.0	76	19.2	24	21
Ashley Ck nr Vernal	APR-JUL	21	30	38	76	47	61	50
WF Duchesne R at VAT Diversion	APR-JUL	8.1	11.2	13.5	73	16.1	20	18.6
Duchesne R nr Tabiona (2)	APR-JUL	52	70	84	78	99	124	108
Upper Stillwater Reservoir Inflow (2)	APR-JUL	37	48	57	77	66	81	74
Rock Ck nr Mountain Home (2)	APR-JUL	44	56	66	75	76	93	88
Duchesne R ab Knight Diversion (2)	APR-JUL	93	124	147	75	172	215	195
Strawberry R nr Soldier Springs (2)	APR-JUL	13.1	27	40	73	55	82	55
Currant Ck Reservoir Inflow (2)	APR-JUL	7.4	11.6	15.0	75	18.8	25	20
Strawberry R nr Duchesne (2)	APR-JUL	35	60	81	72	105	145	112
Lake Fork R ab Moon Lake Reservoir	APR-JUL	28	39	48	79	58	74	61
Lake Fork R bl Moon Lake Reservoir (APR-JUL	31	42	50	76	59	73	66
Yellowstone R nr Altonah	APR-JUL	29	40	48	79	57	72	61
Duchesne R at Myton (2)	APR-JUL	106	169	220	67	280	375	330
Uinta R bl Powerplant Diversion nr N	APR-JUL	24	41	55	74	71	98	74
Whiterocks R nr Whiterocks	APR-JUL	22	33	42	78	52	69	54
Duchesne R nr Randlett (2)	APR-JUL	83	169	245	64	335	490	385

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

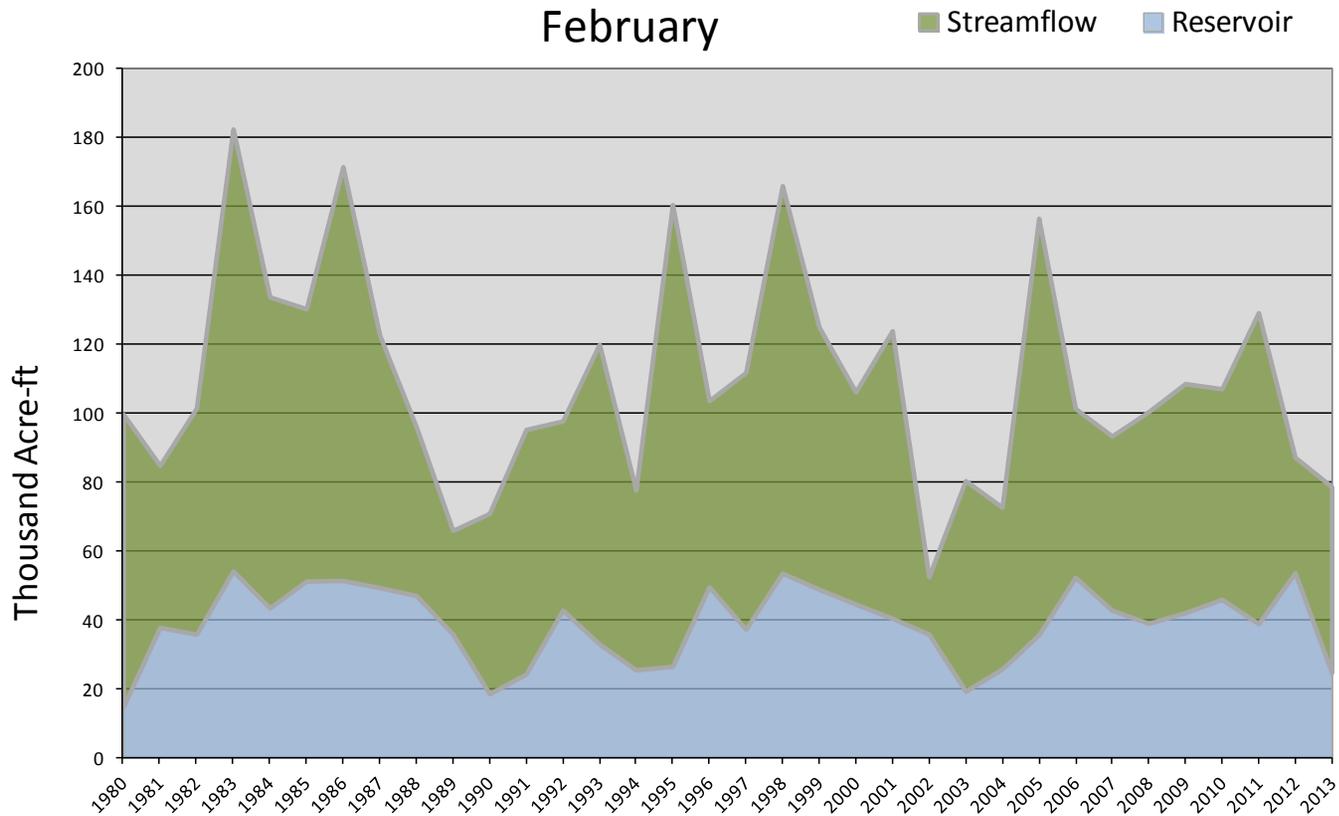
The average is computed for the 1981-2010 base period.

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- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

February 1, 2013	Surface Water Supply Index					
Basin or Region	January EOM* Red Fleet & Steinaker	April-July Forecast Big Brush & Ashley Creek	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	KAF^	KAF	KAF		%	
Eastern Uintah	24.7	54.0	78.7	-2.74	17	04, 94, 03, 83

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

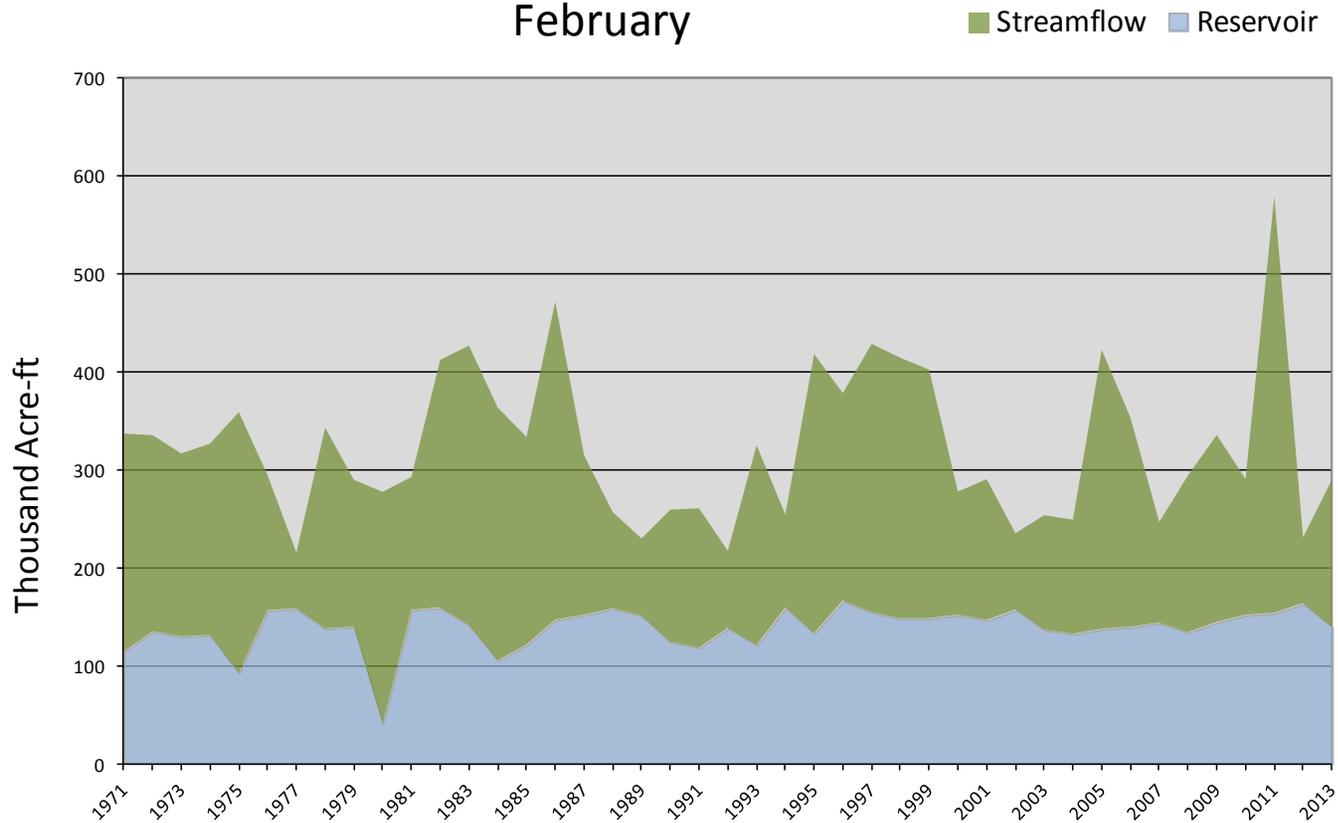
Eastern Uintah Basin - Surface Water Supply Index
February



February 1, 2013		Surface Water Supply Index				
Basin or Region	January EOM* Starvation & Upper Stillwater	April-July Forecast Rock Creek & Duchesne River	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Western Uintah	140	150	290	-1.33	34	80, 00, 79, 01

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

Western Uintah Basin - Surface Water Supply Index
February

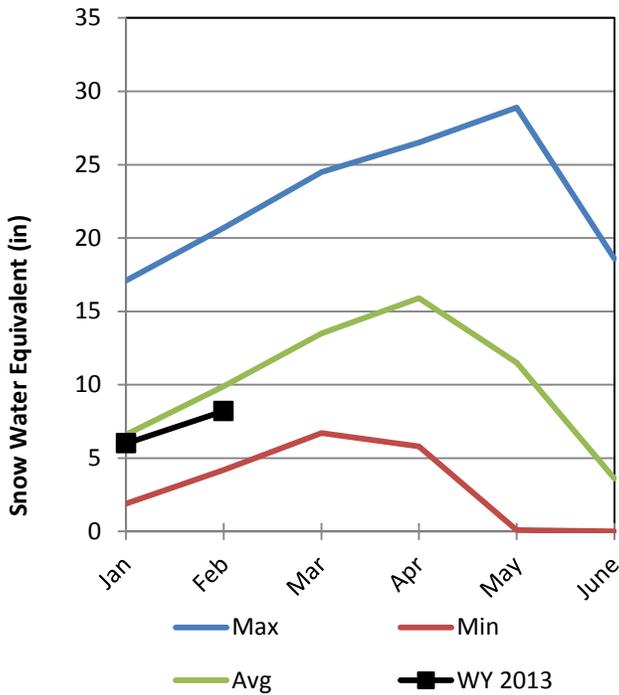


Price & San Rafael Basins

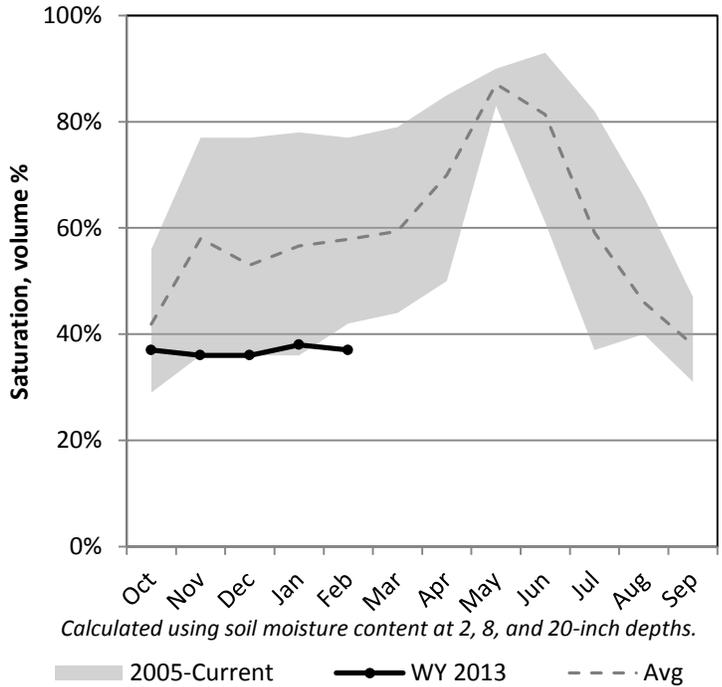
2/1/2013

Snowpack in the Price & San Rafael Basins is near average at 91% of normal, compared to 60% last year. Precipitation in January was much below average at 69%, which brings the seasonal accumulation (Oct-Jan) to 90% of average. Soil moisture is at 37% compared to 53% last year. Reservoir storage is at 49% of capacity, compared to 77% last year. Forecast streamflow volumes range from 62% to 80% of average. The surface water supply index is 33% for the Price River, 31% for Joe's Valley, 26% for Ferron Creek.

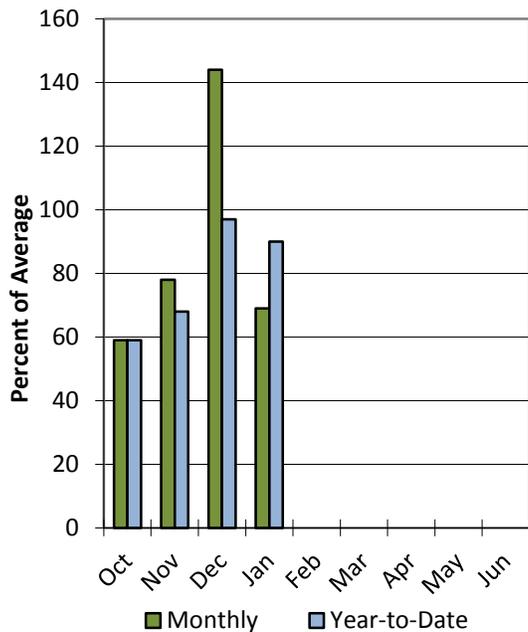
Snowpack



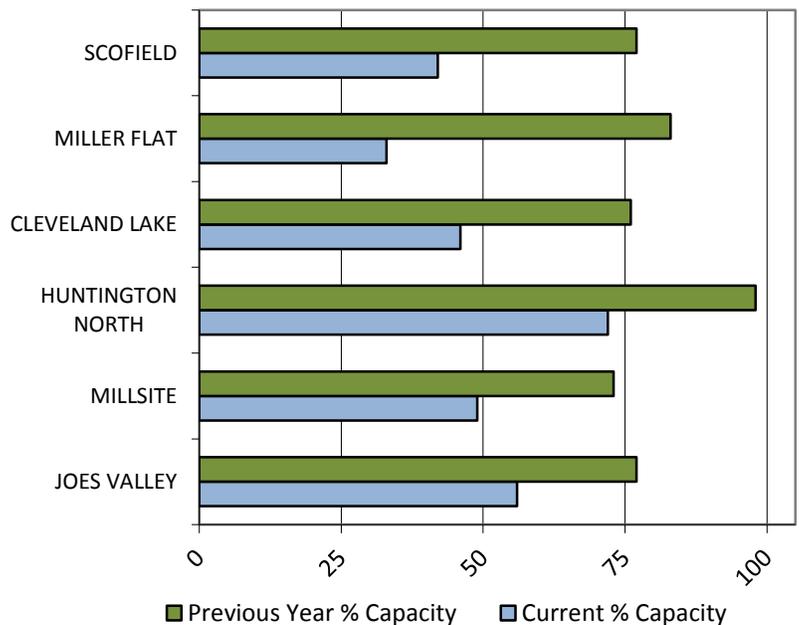
Soil Moisture



Precipitation



Reservoir Storage



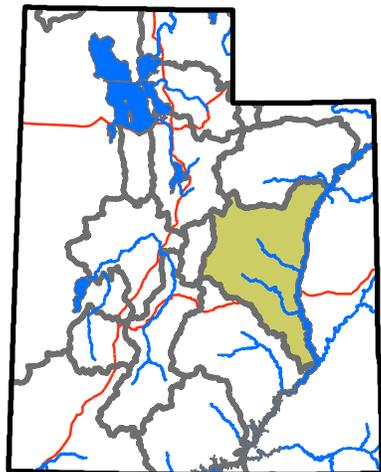
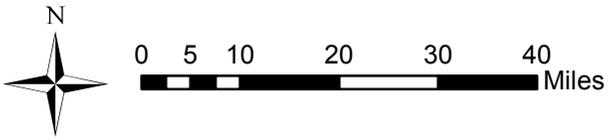
Price-San Rafael basin



Percent normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%
- no % avail.

- SNOTEL sites
- Forecast points
- Rivers
- Highways
- Cities



PRICE-SAN RAFAEL BASINS as of February 1, 2013

PRICE - SAN RAFAEL								
Streamflow Forecasts - February 1, 2013								
Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>		Chance Of Exceeding *				30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
Fish Ck ab Reservoir nr Scofield	APR-JUL	13.4	19.3	24	80	29	38	30
Price R nr Scofield Reservoir (2)	APR-JUL	15.2	24	31	76	39	52	41
White R bl Tabbyune Ck	APR-JUL	5.7	8.9	11.5	74	14.4	19.3	15.5
Green R at Green River, UT (2)	APR-JUL	959	1444	1830	62	2261	2979	2960
Electric Lake Inflow (2)	APR-JUL	5.0	7.7	10.0	75	12.5	16.8	13.3
Huntington Ck nr Huntington (2)	APR-JUL	16.9	24	30	75	36	47	40
Joe's Valley Reservoir Inflow (2)	APR-JUL	23	32	39	70	47	59	56
Ferron Ck (Upper Station) nr Ferron	APR-JUL	17.6	23	27	71	31	38	38

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

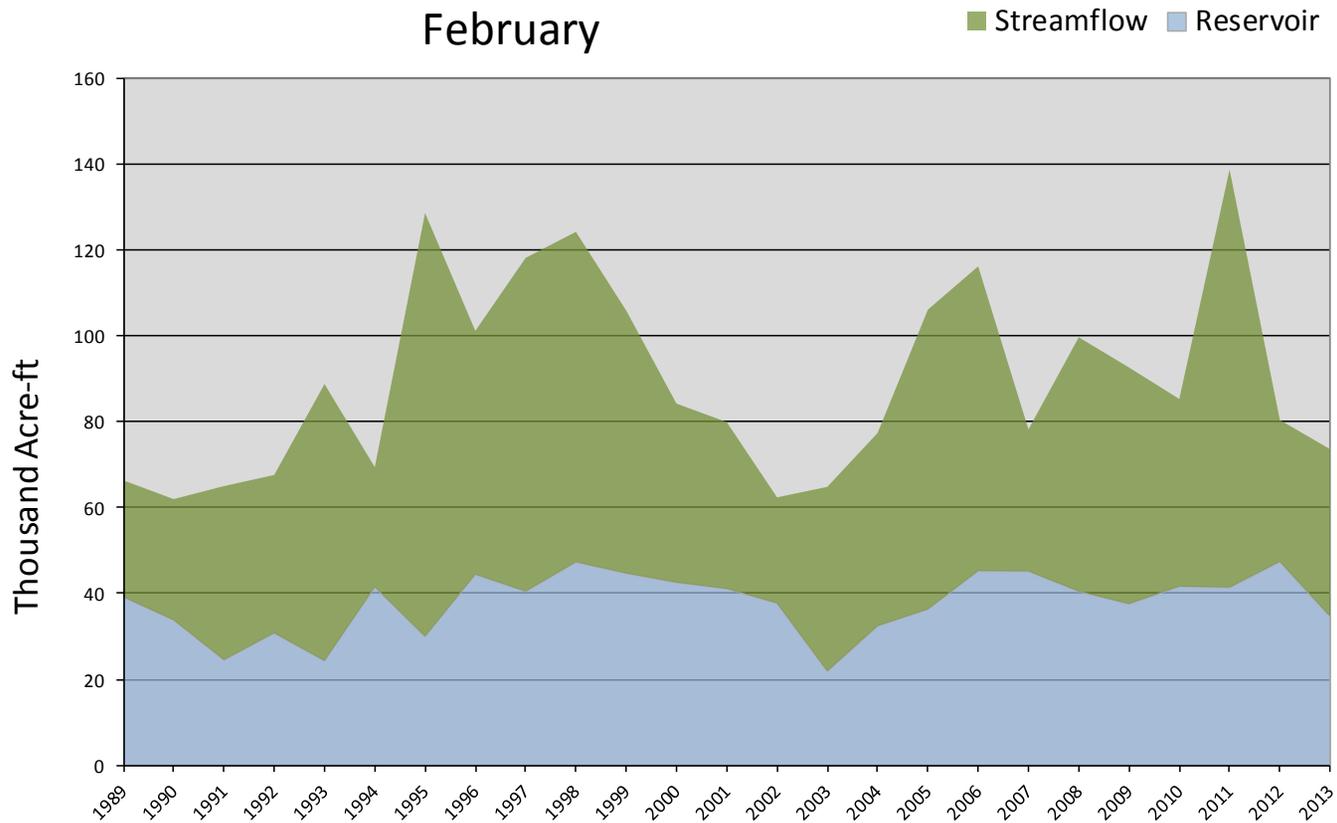
The average is computed for the 1981-2010 base period.

- (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.

February 1, 2013		Surface Water Supply Index				
Basin or Region	January EOM* Joe's Valley	April-July Forecast Inflow to Joe's Valley	Reservoir + Streamflow	SWSI [#]	Percentile	Years with similar SWSI
	KAF [^]	KAF	KAF		%	
Joe's Valley	34.6	39.0	73.6	-1.60	31	92, 94, 04, 07

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

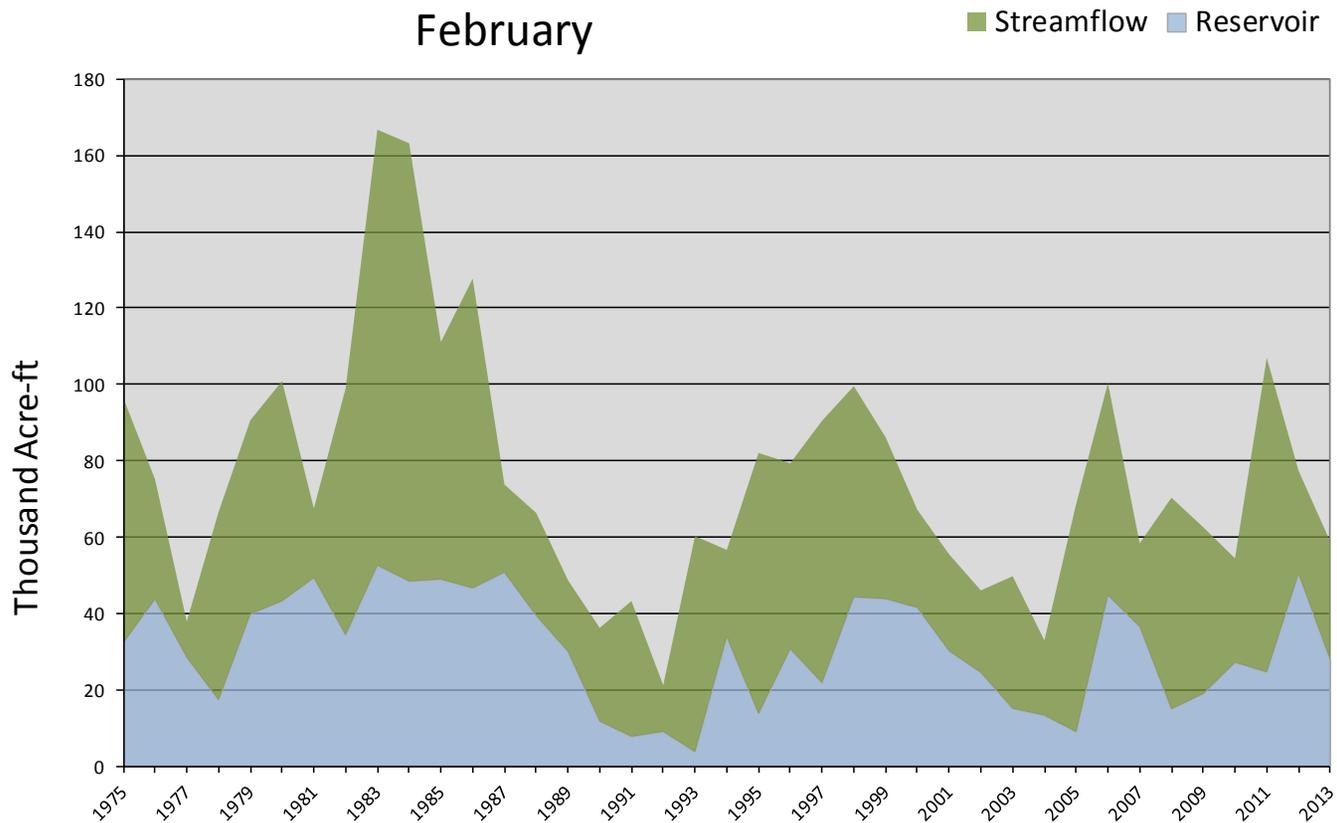
Joe's Valley - Surface Water Supply Index
February



February 1, 2013	Surface Water Supply Index					
Basin or Region	January EOM* Scofield Reservoir	April-July Forecast @ Scofield	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Price River	27.8	31.0	58.8	-1.46	33	94, 07, 93, 09

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

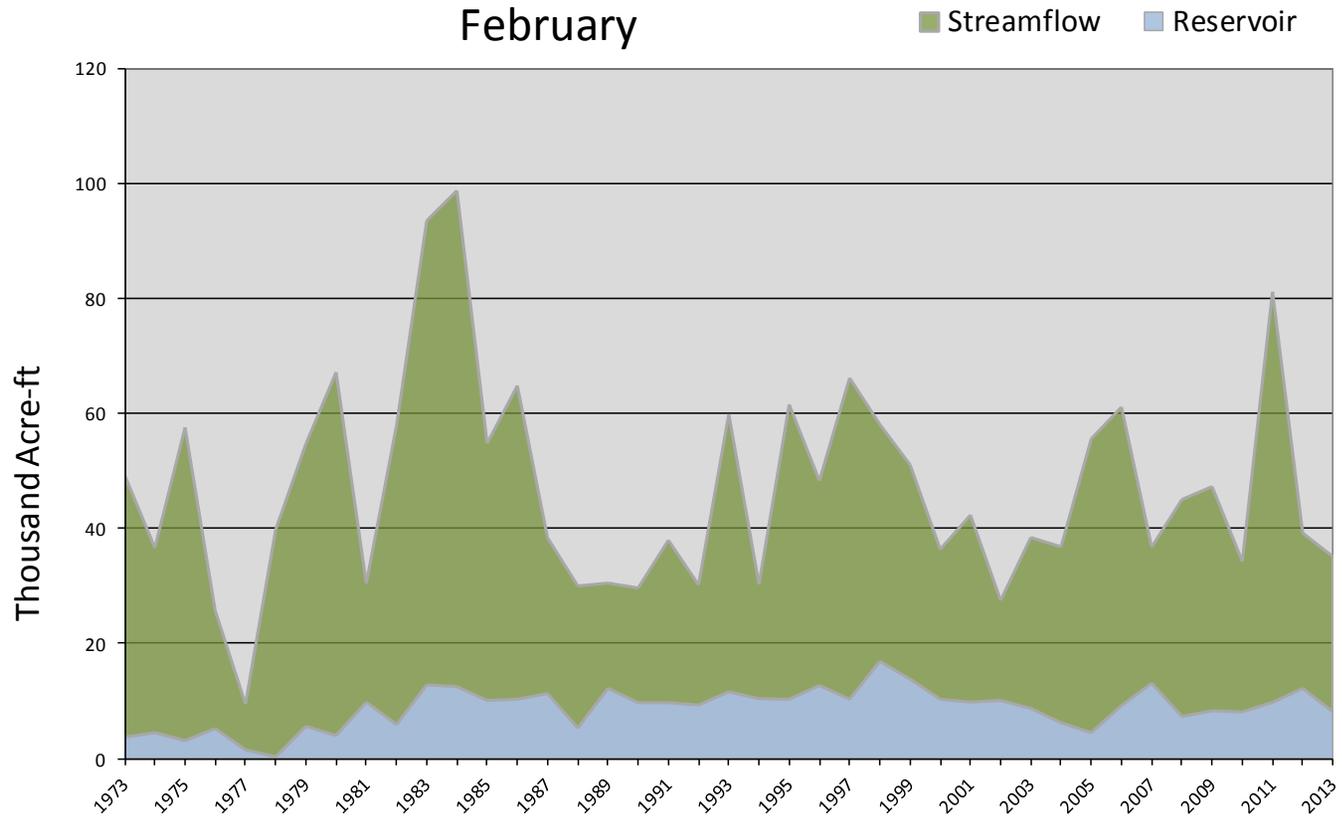
Price River - Surface Water Supply Index
February



February 1, 2013	Surface Water Supply Index					
Basin or Region	January EOM* Millsite Reservoir	April-July Forecast Ferron creek	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Ferron Creek	8.1	27.0	35.1	-1.98	26	89, 10, 00, 74

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

Ferron Creek - Surface Water Supply Index
February

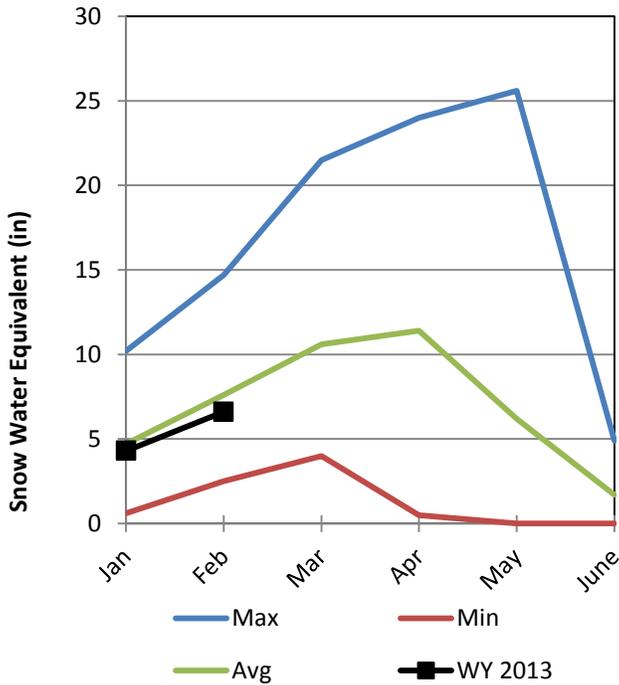


Southeastern Utah Basin

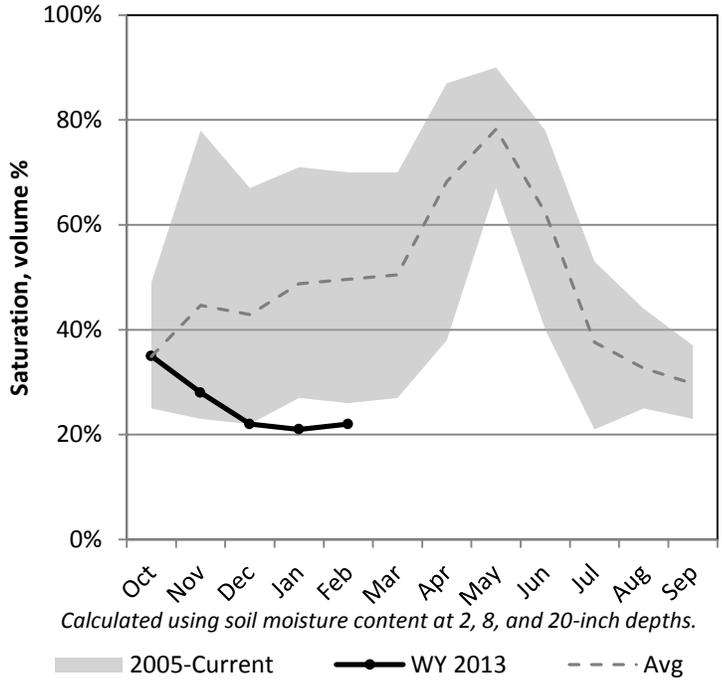
2/1/2013

Snowpack in the Southeastern Utah Basin is near average at 103% of normal, compared to 90% last year. Precipitation in January was below average at 84%, which brings the seasonal accumulation (Oct-Jan) to 89% of average. Soil moisture is at 22% compared to 51% last year. Reservoir storage is at 13% of capacity, compared to 78% last year. Forecast streamflow volumes range from 38% to 93% of average. The surface water supply index is 37% for Moab.

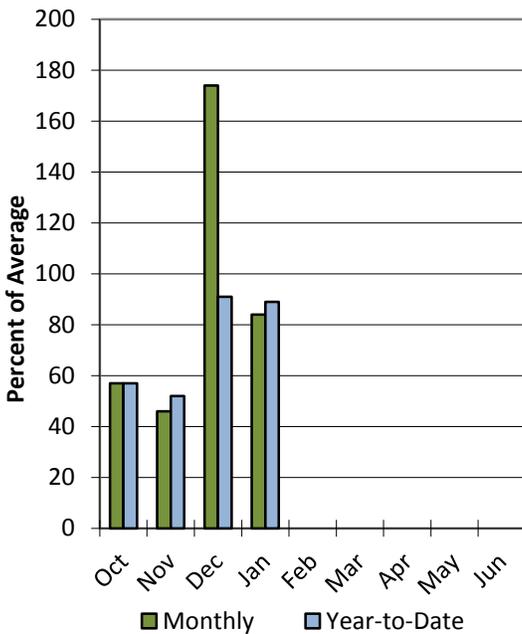
Snowpack



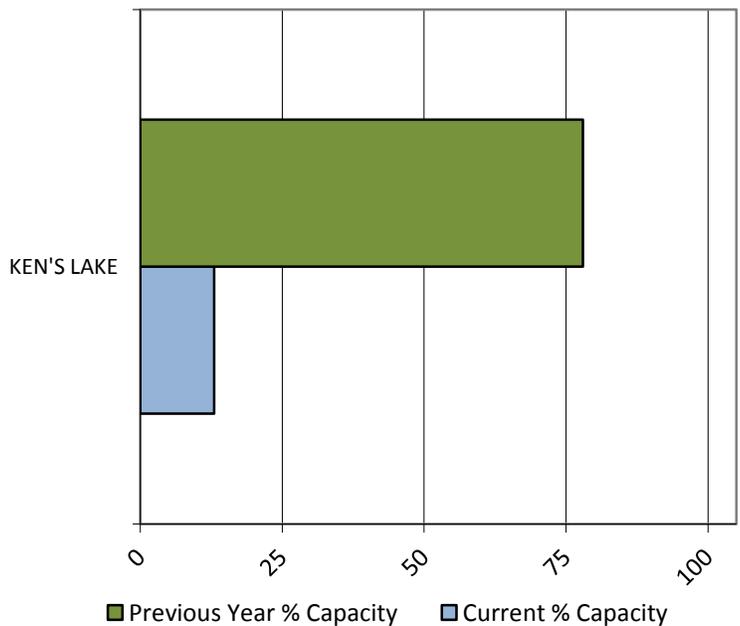
Soil Moisture



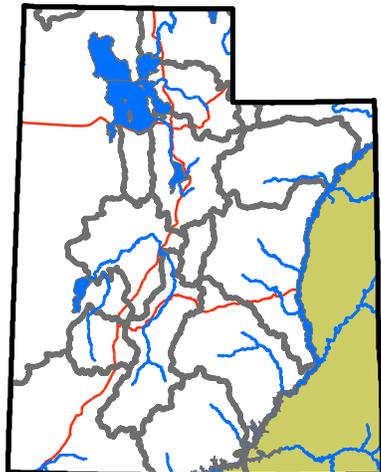
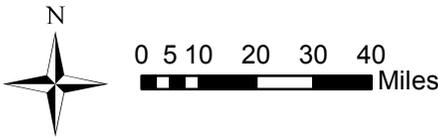
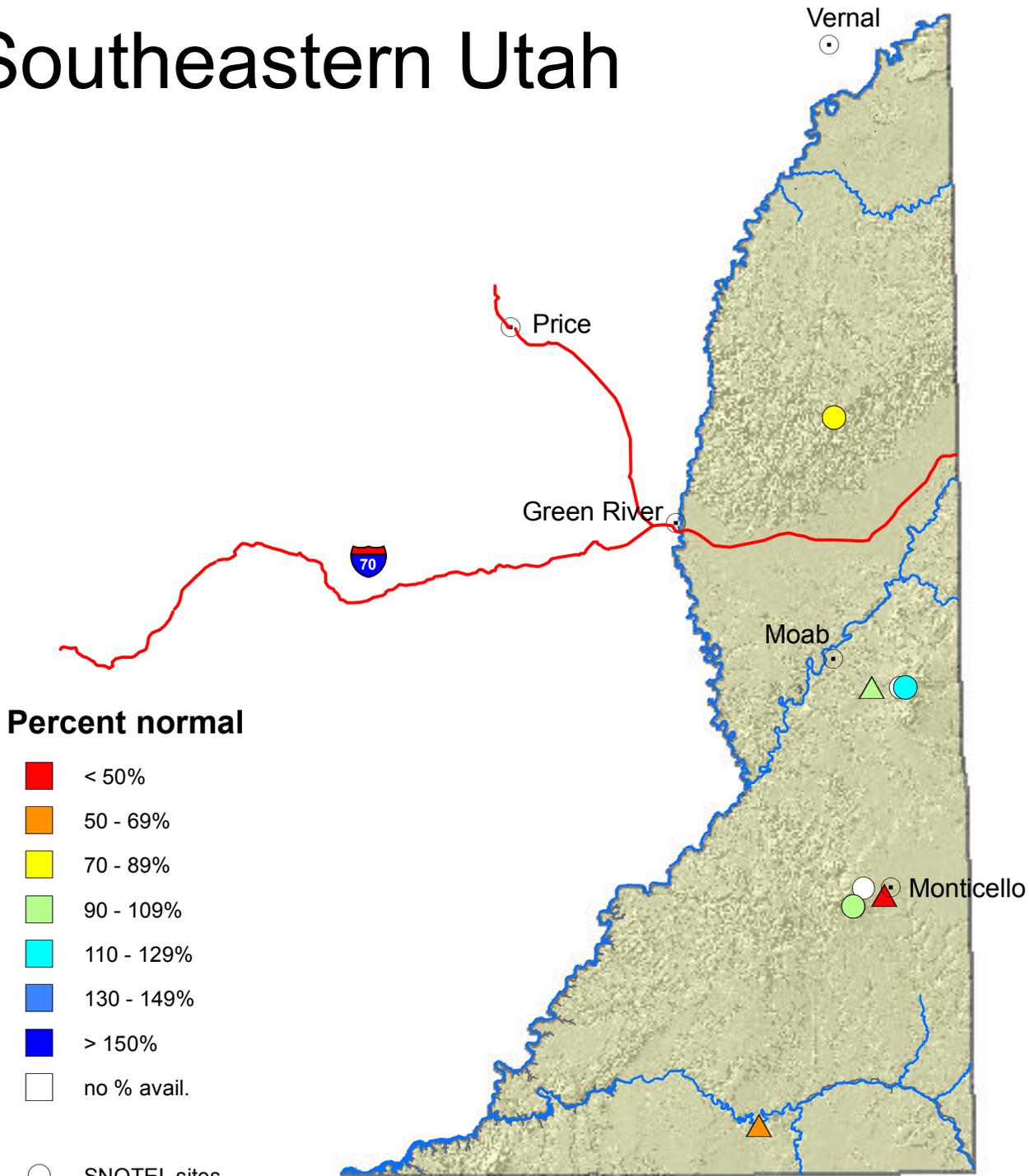
Precipitation



Reservoir Storage



Southeastern Utah



SOUTHEASTERN UTAH.								
Streamflow Forecasts - February 1, 2013								
Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
Colorado R nr Cisco (2)	APR-JUL	1330	1956	2450	57	3000	3910	4280
Mill Ck at Sheley Tunnel nr Moab	APR-JUL	2.10	3.20	4.00	93	4.90	6.50	4.30
South Ck ab Lloyd's Reservoir nr Mon	MAR-JUL	0.13	0.31	0.50	38	0.76	1.27	1.31
San Juan R nr Bluff (2)	APR-JUL	370	545	685	62	840	1100	1100

* 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 1981-2010 base period.

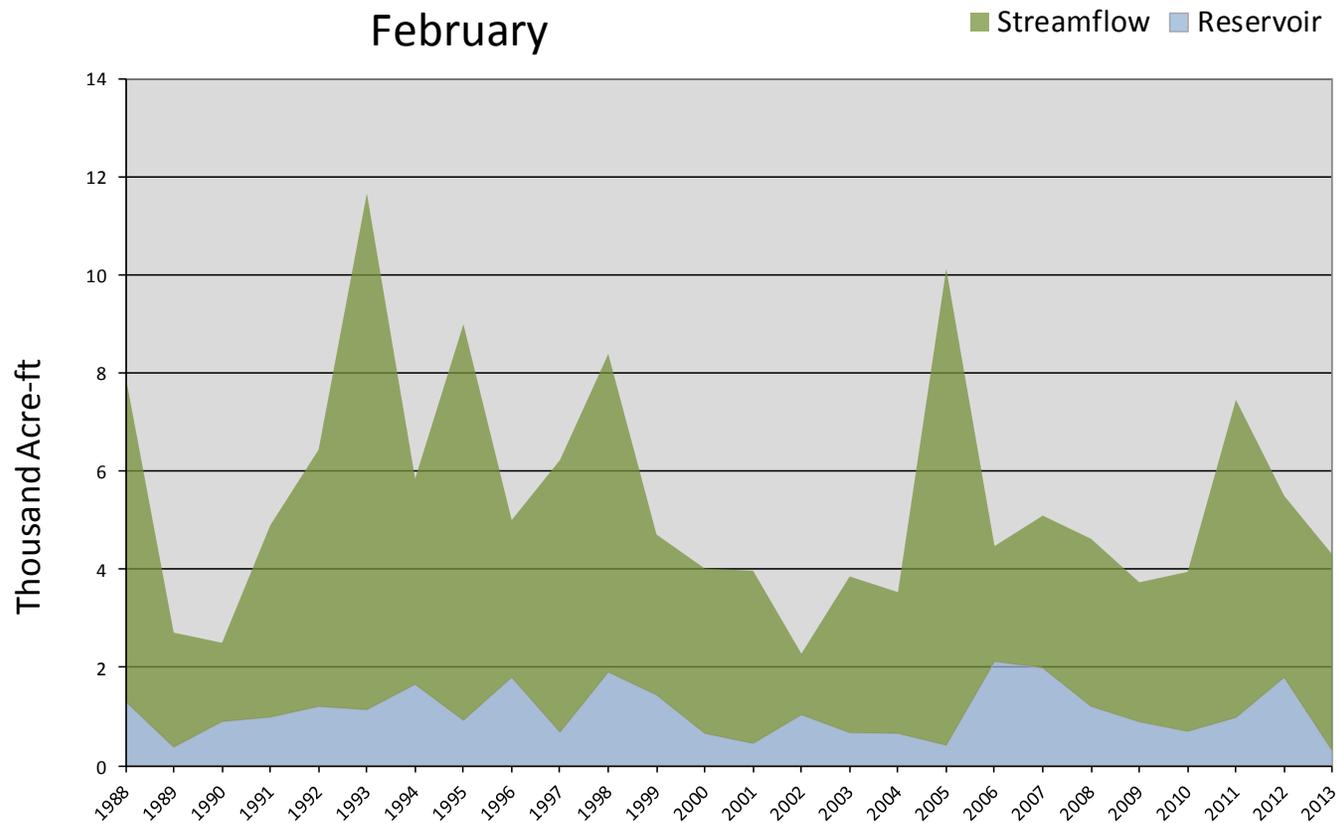
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

<i>February 1, 2013</i>	Surface Water Supply Index					
Basin or Region	January EOM* Ken's Lake Reservoir	April-July Forecast Mill Creek at Sheley	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Moab	0.3	4.0	4.3	-1.08	37	01, 00, 06, 08

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

Moab - Surface Water Supply Index

February

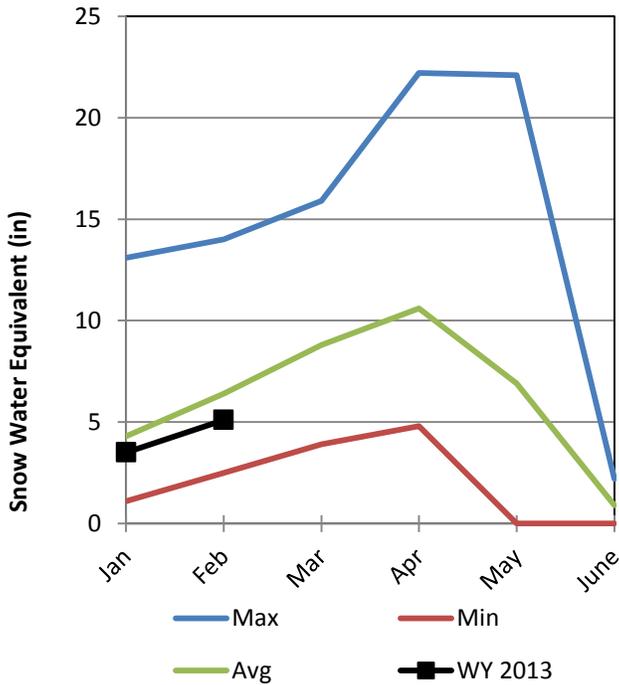


Dirty Devil Basin

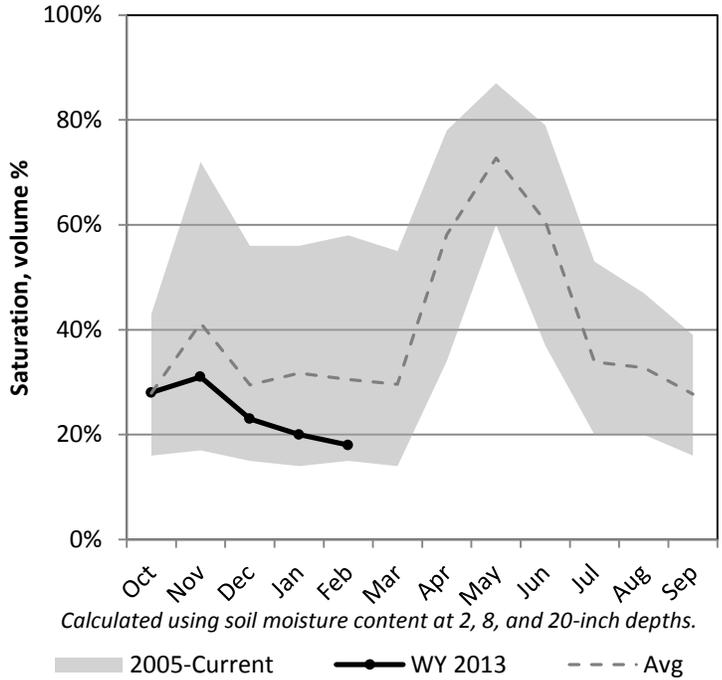
2/1/2013

Snowpack in the Dirty Devil Basin is near average at 97% of normal, compared to 91% last year. Precipitation in January was below average at 78%, which brings the seasonal accumulation (Oct-Jan) to 81% of average. Soil moisture is at 18% compared to 20% last year. Forecast streamflow volumes range from 70% to 71% of average.

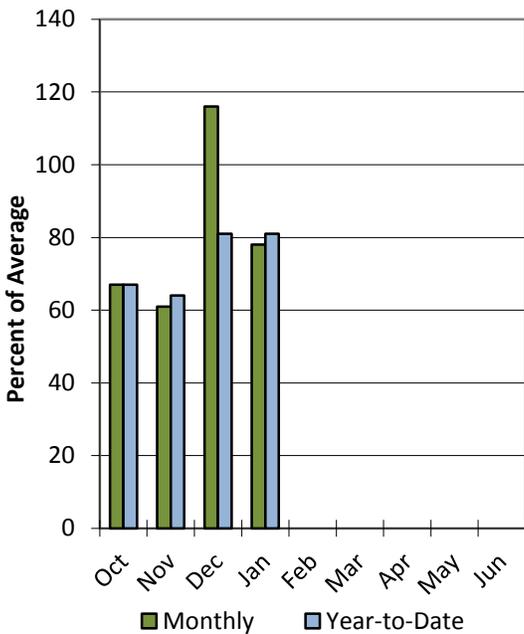
Snowpack



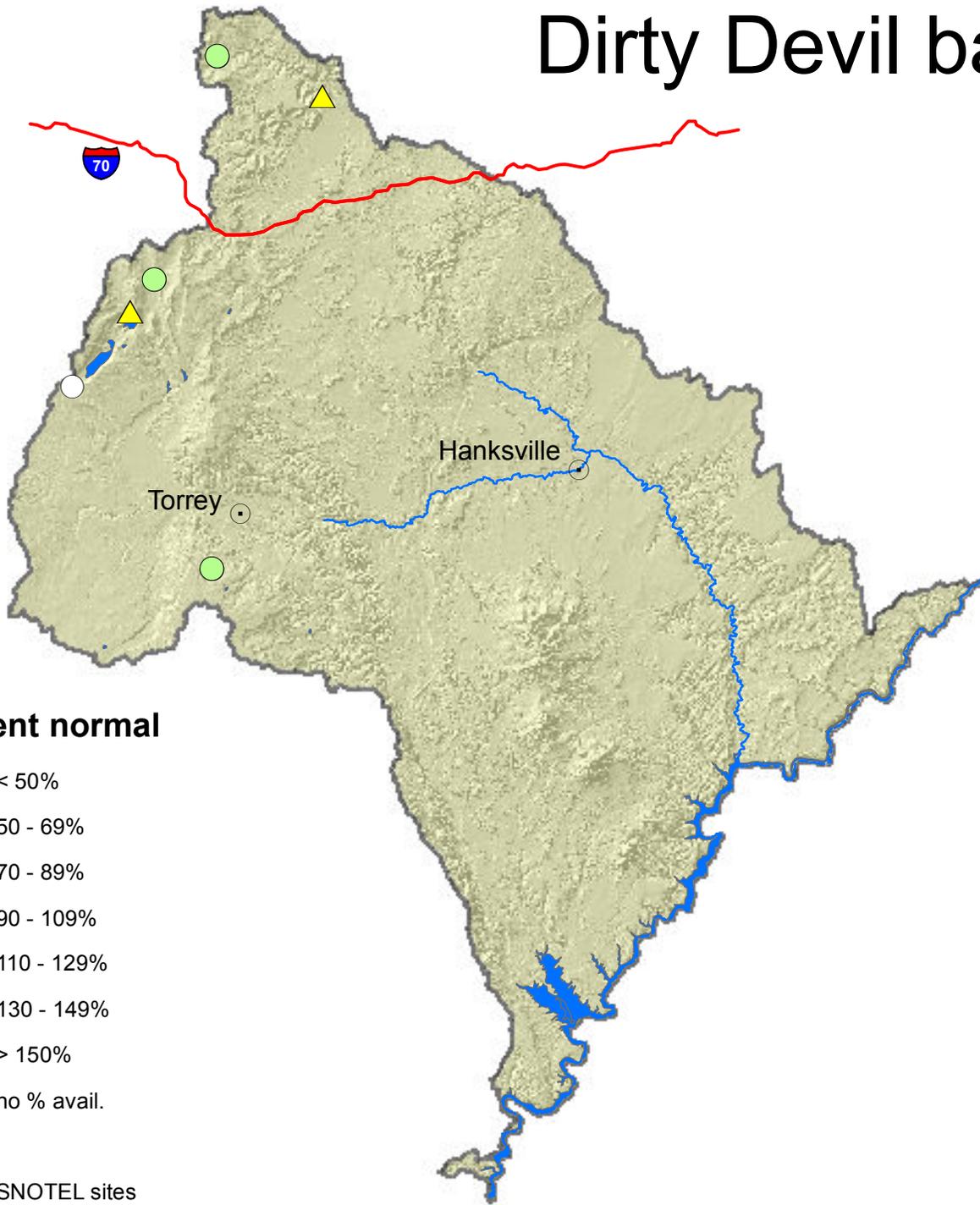
Soil Moisture



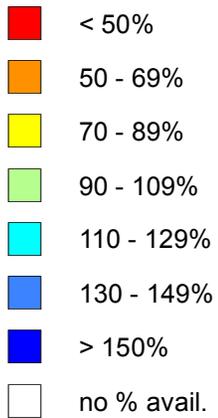
Precipitation



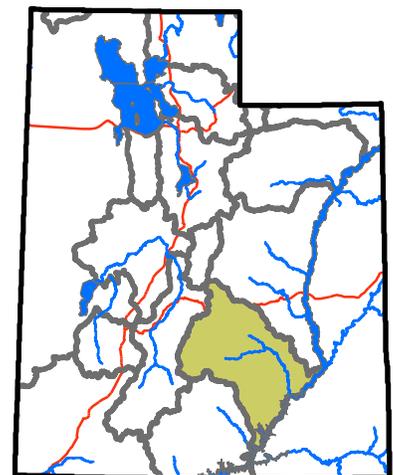
Dirty Devil basin



Percent normal



- SNOTEL sites
- Forecast points
- Rivers
- Highways
- Cities



DIRTY DEVIL Streamflow Forecasts - February 1, 2013									
Forecast Point	Forecast Period	Future Conditions					Wetter		30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)		
Seven Mile Ck nr Fish Lake	APR-JUL	2.70	4.10	5.20	71	6.40	8.50	7.30	
Muddy Ck nr Emery	APR-JUL	7.6	11.2	14.0	70	17.1	22	19.9	

* 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 1981-2010 base period.

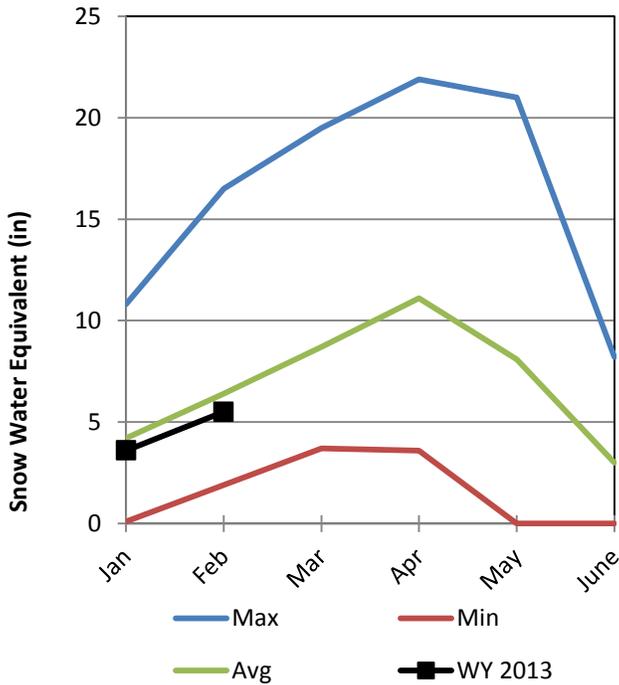
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

Escalante River Basin

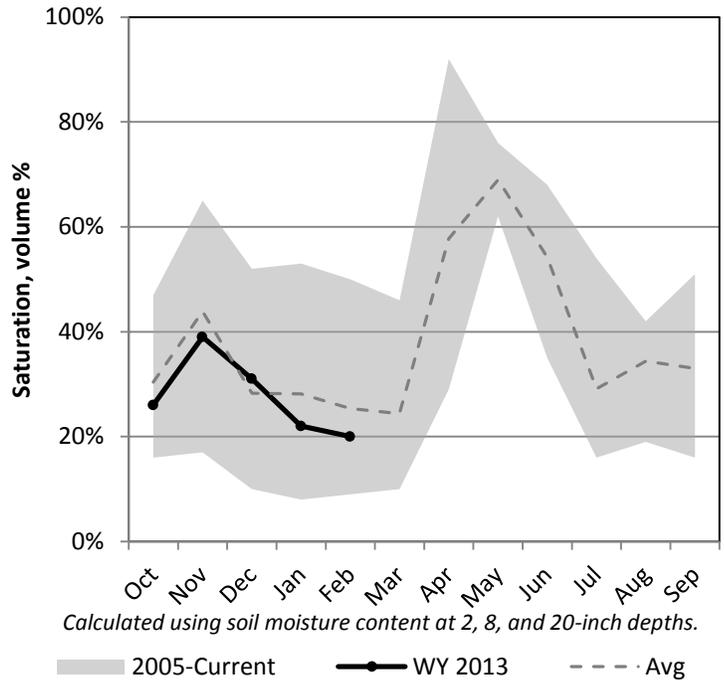
2/1/2013

Snowpack in the Escalante River Basin is near average at 98% of normal, compared to 99% last year. Precipitation in January was below average at 89%, which brings the seasonal accumulation (Oct-Jan) to 91% of average. Soil moisture is at 20% compared to 31% last year. The forecast streamflow volume for Pine Creek is 88% of average.

Snowpack

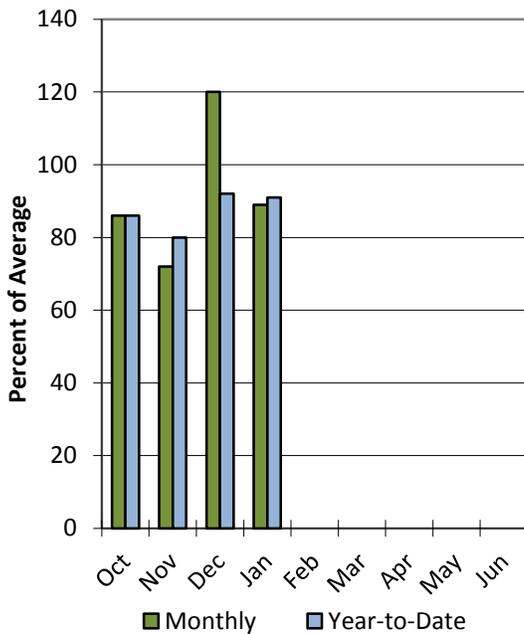


Soil Moisture



Calculated using soil moisture content at 2, 8, and 20-inch depths.

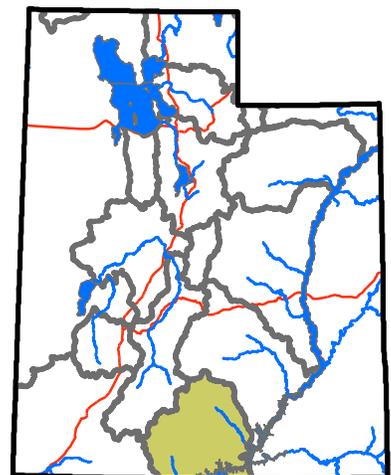
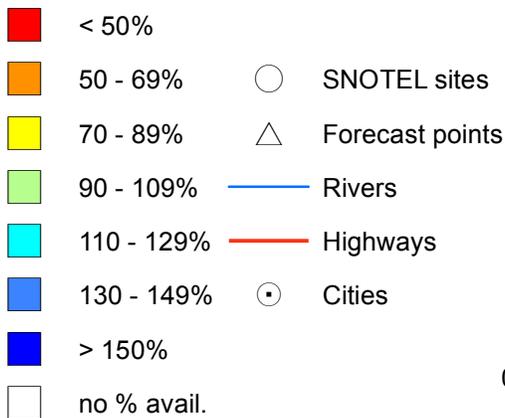
Precipitation



Escalante basin



Percent normal



ESCALANTE RIVER BASIN as of February 1, 2013

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=====
                        ESCALANTE RIVER BASIN.
                        Streamflow Forecasts - February 1, 2013
=====
Forecast Point          Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> |
                        |===== Chance Of Exceeding * =====|
                        | 90%      70%      | 50%      | 30%      10%      | 30-Yr Avg. |
                        |(1000AF) (1000AF) | (1000AF) (% AVG.) | (1000AF) (1000AF) | (1000AF)  |
=====
Pine Ck nr Escalante   APR-JUL      | 0.81    1.51    | 2.10    88    | 2.80    4.00    | 2.40
=====

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* 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 1981-2010 base period.

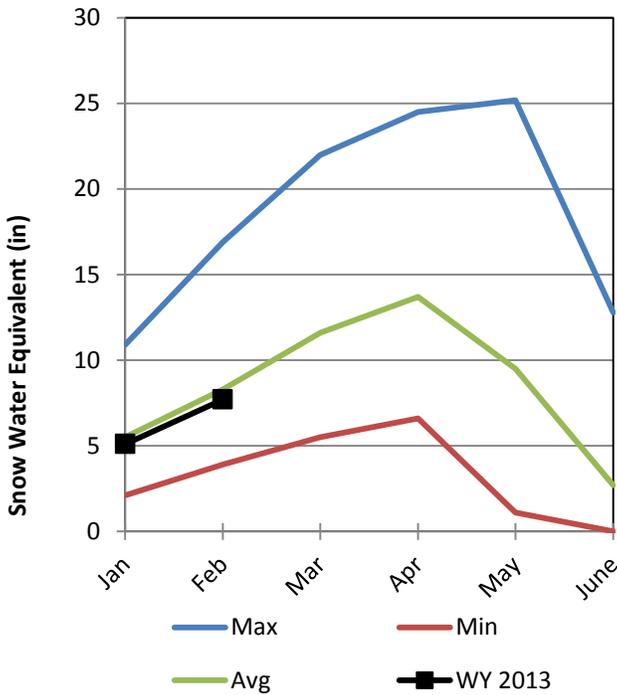
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

Upper Sevier River Basin

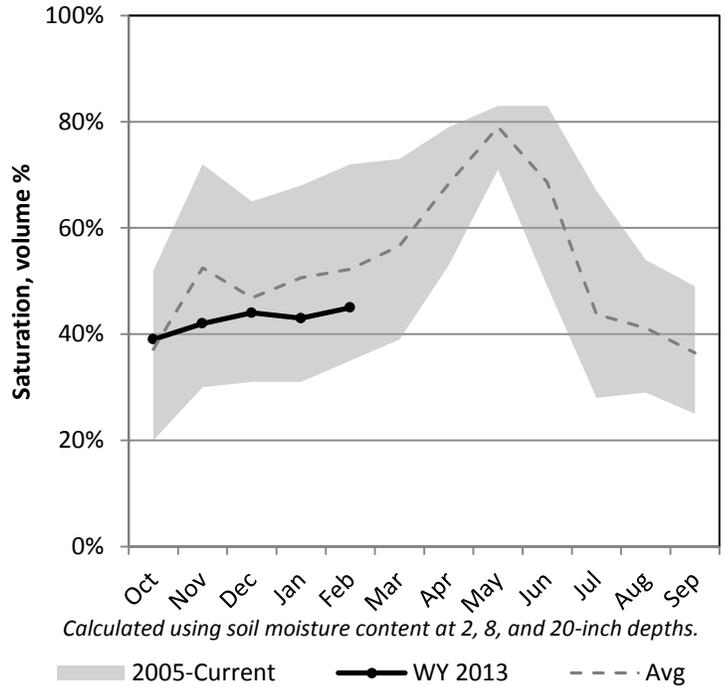
2/1/2013

Snowpack in the Upper Sevier River Basin is near average at 107% of normal, compared to 83% last year. Precipitation in January was below average at 85%, which brings the seasonal accumulation (Oct-Jan) to 90% of average. Soil moisture is at 45% compared to 50% last year. Reservoir storage is at 54% of capacity, compared to 77% last year. Forecast streamflow volumes range from 89% to 104% of average. The surface water supply index is 37% for the Upper Sevier.

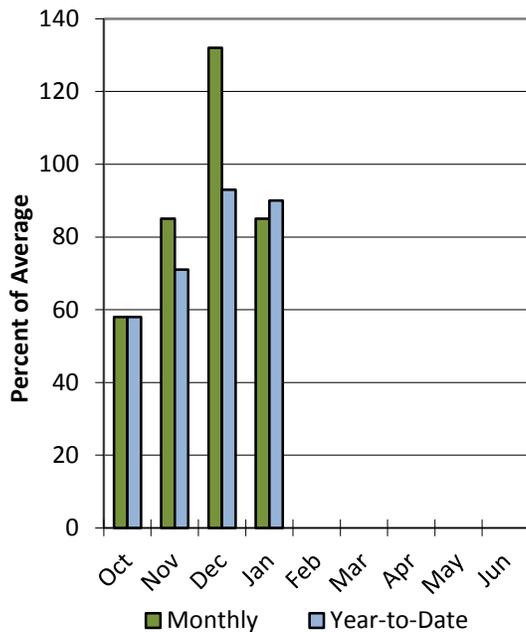
Snowpack



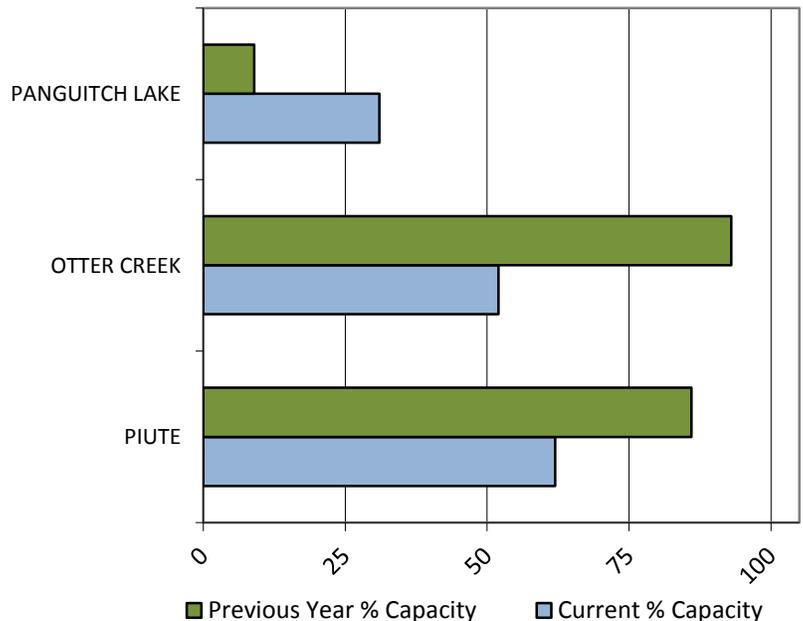
Soil Moisture



Precipitation

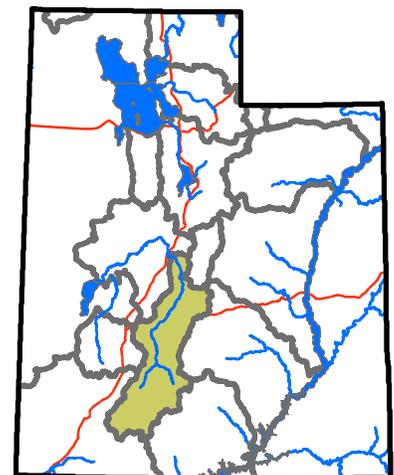
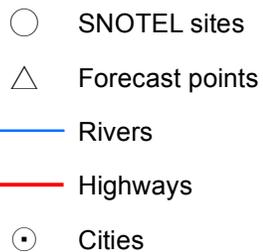
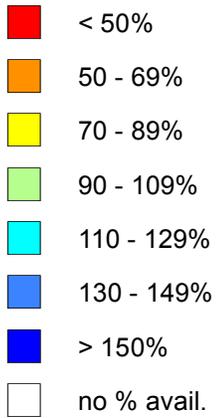


Reservoir Storage



Upper Sevier basin

Percent normal



UPPER SEVIER BASIN as of February 1, 2013

UPPER SEVIER RIVER BASIN Streamflow Forecasts - February 1, 2013								
Forecast Point	Forecast Period	Future Conditions					30-Yr Avg.	
		<<==== Drier =====		==== Wetter =====>>				
		90%	70%	Chance Of Exceeding *		30%	10%	30-Yr Avg.
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
Mammoth Ck nr Hatch	APR-JUL	0.8	10.5	27	100	39	56	27
Sevier R at Hatch	APR-JUL	25	40	50	104	60	74	48
Sevier R nr Kingston	APR-JUL	1.0	18.7	33	100	47	68	33
EF Sevier R nr Kingston	APR-JUL	13.6	27	36	103	45	58	35
Sevier R bl Piute Dam	APR-JUL	13.9	46	68	103	90	122	66
Clear Ck ab Diversions nr Sevier	APR-JUL	7.2	14.4	19.3	92	24	31	21
Salina Ck nr Emery	APR-JUL	0.72	4.40	7.00	89	9.50	13.20	7.90
Salina Ck at Salina	APR-JUL	1.9	8.2	15.0	76	24	40	19.7

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

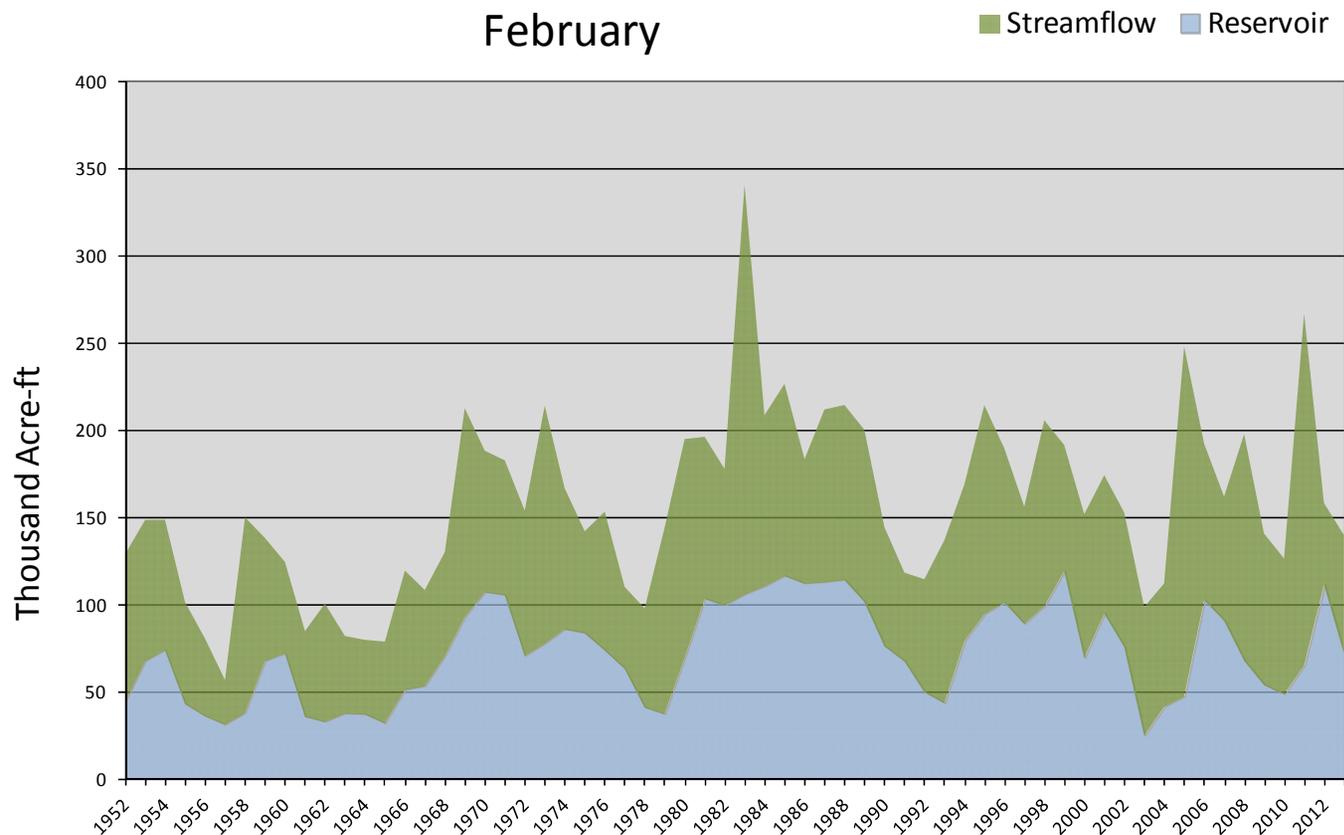
The average is computed for the 1981-2010 base period.

- (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.

February 1, 2013		Surface Water Supply Index				
Basin or Region	January EOM* Piute & Otter Creek Reservoir	April-July Forecast Inflow to Piute Reservoir	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Upper Sevier	71.9	68	140	-1.12	37	93,59,09,75

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

Upper Sevier River Surface Water Supply Index February

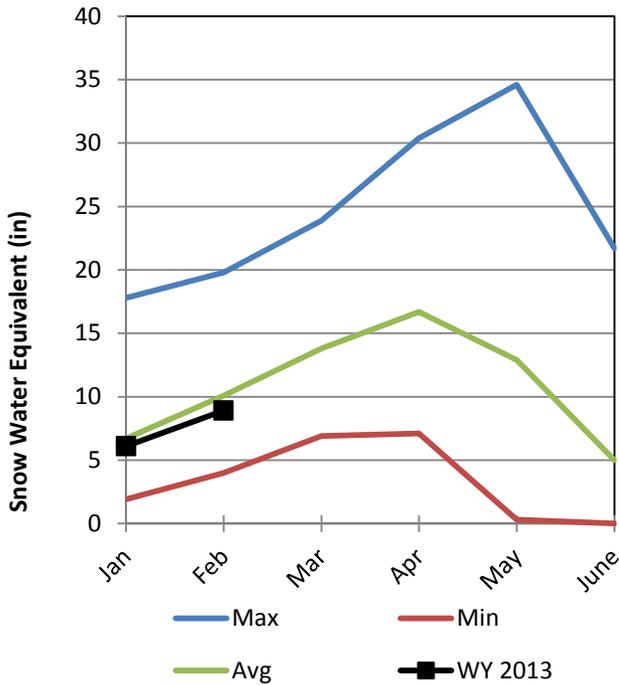


San Pitch River Basin

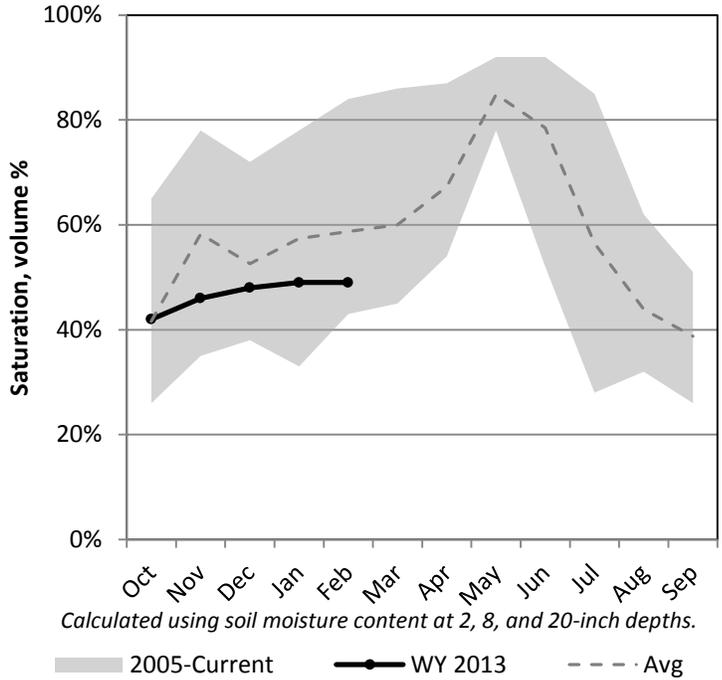
2/1/2013

Snowpack in the San Pitch River Basin is near average at 94% of normal, compared to 57% last year. Precipitation in January was below average at 76%, which brings the seasonal accumulation (Oct-Jan) to 87% of average. Soil moisture is at 49% compared to 54% last year. Reservoir storage is at 2% of capacity, compared to 92% last year. The forecast streamflow volume for Manti Creek is 90% of average.

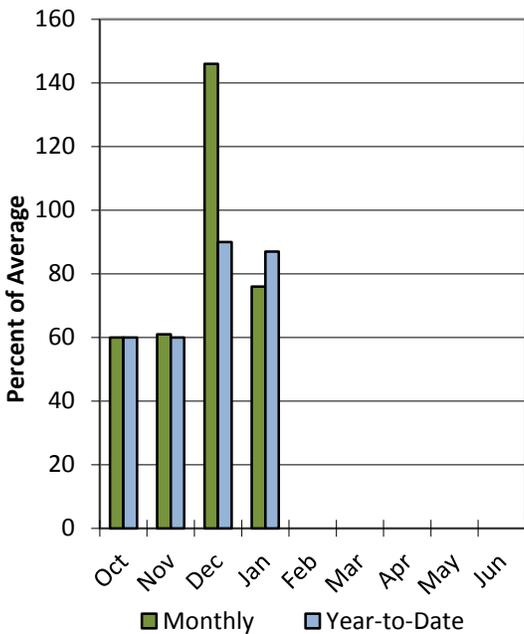
Snowpack



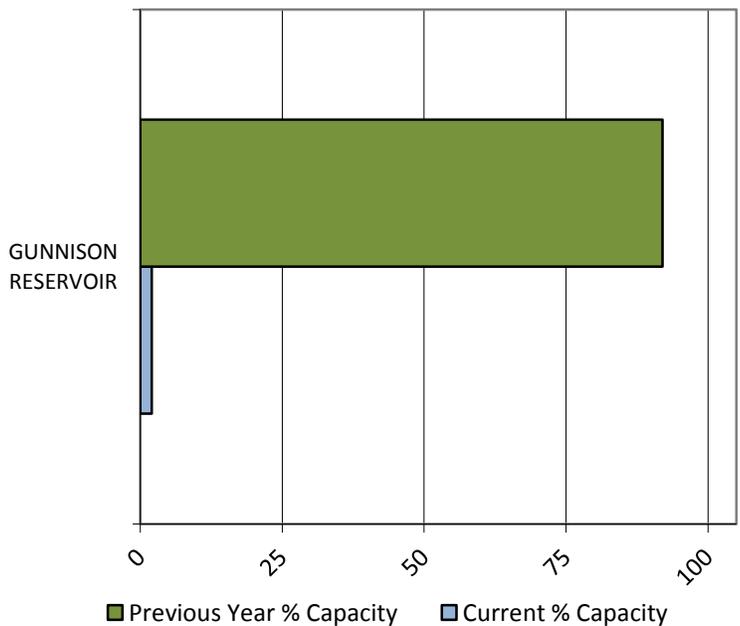
Soil Moisture



Precipitation

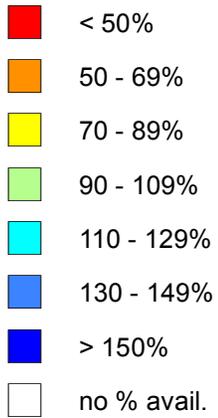


Reservoir Storage

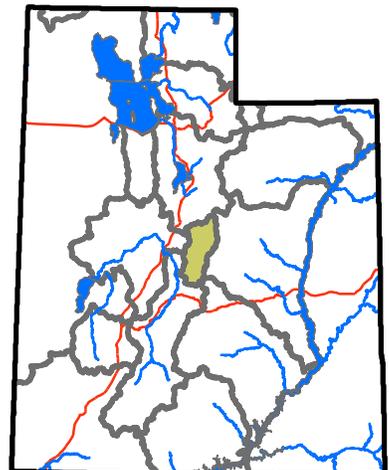


San Pitch basin

Percent normal



- SNOTEL sites
- △ Forecast points
- Rivers
- Highways
- ⊙ Cities



SAN FITCH RIVER BASIN as of February 1, 2013

SAN FITCH RIVER BASIN								
Streamflow Forecasts - February 1, 2013								
Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>					30-Yr Avg. (1000AF)	
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (1000AF) (% AVG.)		30% (1000AF)		10% (1000AF)
Manti Ck Blw Dugway Ck Nr Manti	APR-JUL	8.6	12.2	15.0	90	18.1	23	16.7

* 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 1981-2010 base period.

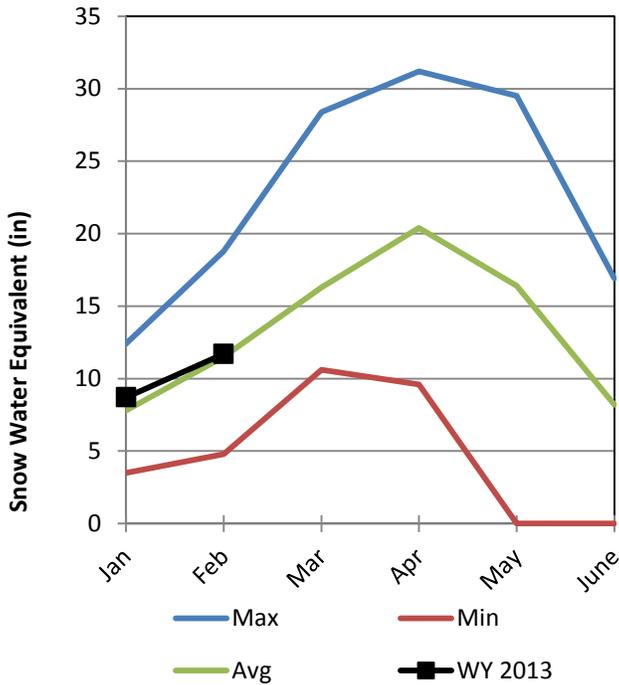
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

Lower Sevier River Basin

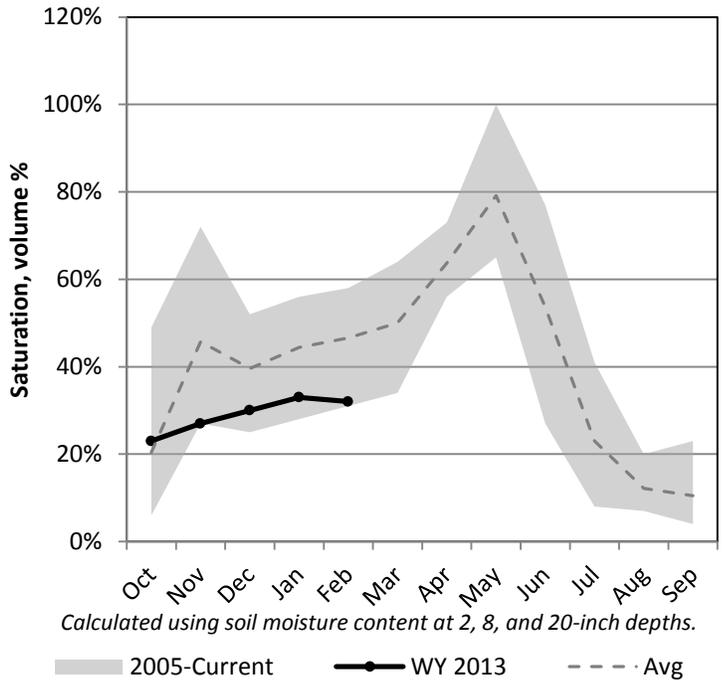
2/1/2013

Snowpack in the Lower Sevier River Basin is near average at 100% of normal, compared to 87% last year. Precipitation in January was near average at 96%, which brings the seasonal accumulation (Oct-Jan) to 95% of average. Soil moisture is at 32% compared to 38% last year. Reservoir storage is at 61% of capacity, compared to 96% last year. Forecast streamflow volumes range from 76% to 106% of average. The surface water supply index is 67% for the Lower Sevier.

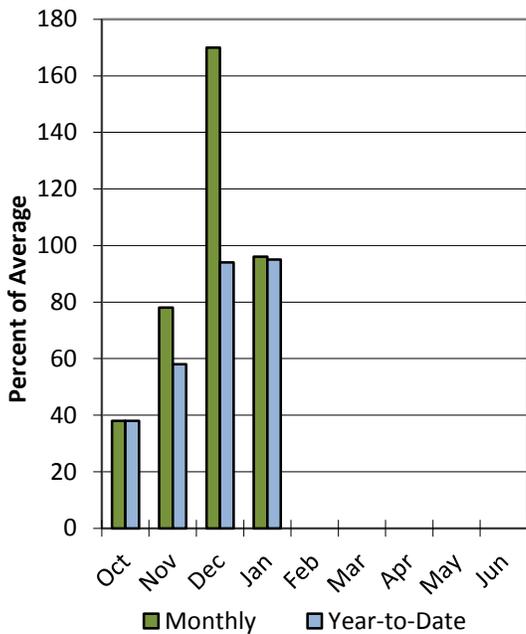
Snowpack



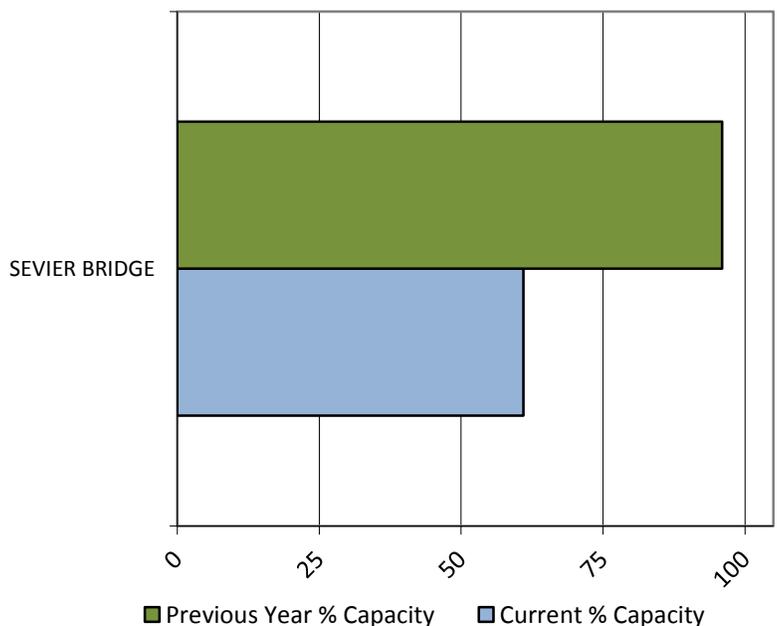
Soil Moisture



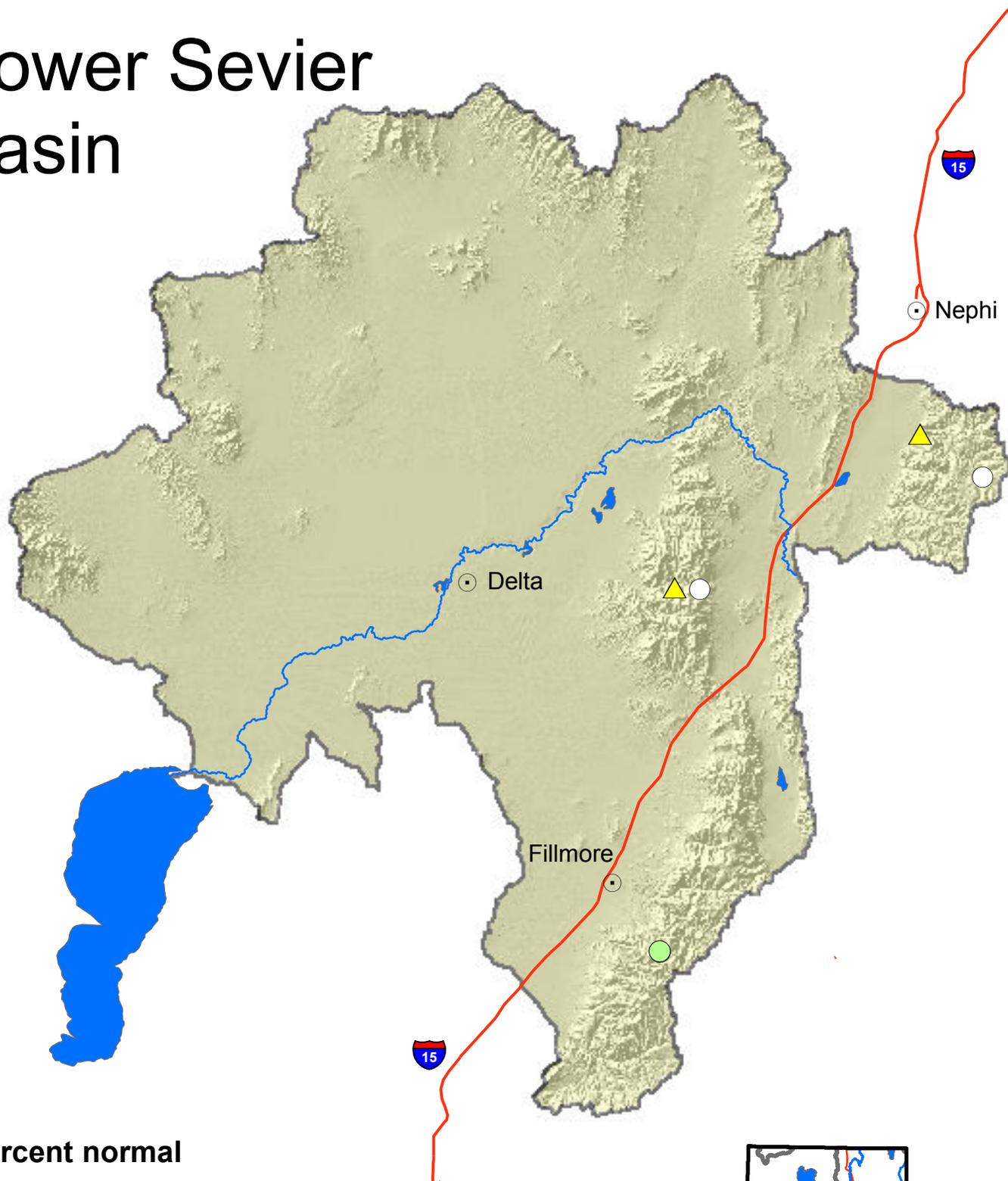
Precipitation



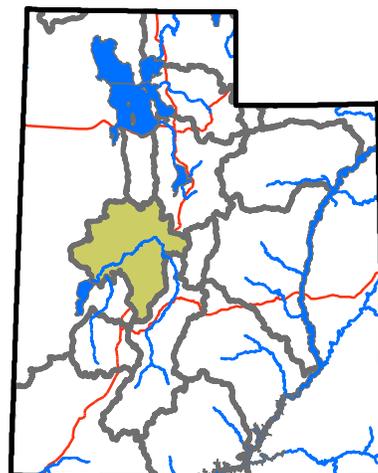
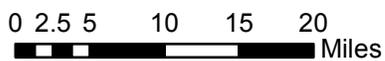
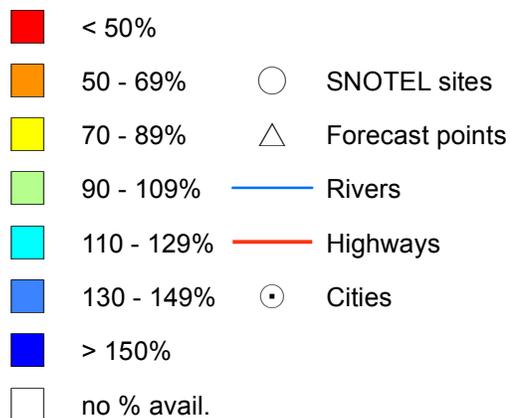
Reservoir Storage



Lower Sevier basin



Percent normal



LOWER SEVIER RIVER BASIN as of February 1, 2013

LOWER SEVIER RIVER BASIN
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>		Chance Of Exceeding *				30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
Sevier R nr Gunnison	APR-JUL	52	84	105	106	126	158	99
Chicken Ck nr Levan	APR-JUL	1.19	2.30	3.40	76	4.80	7.40	4.50
Oak Creek nr Oak City	APR-JUL	0.31	0.58	1.30	78	1.08	1.55	1.66

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

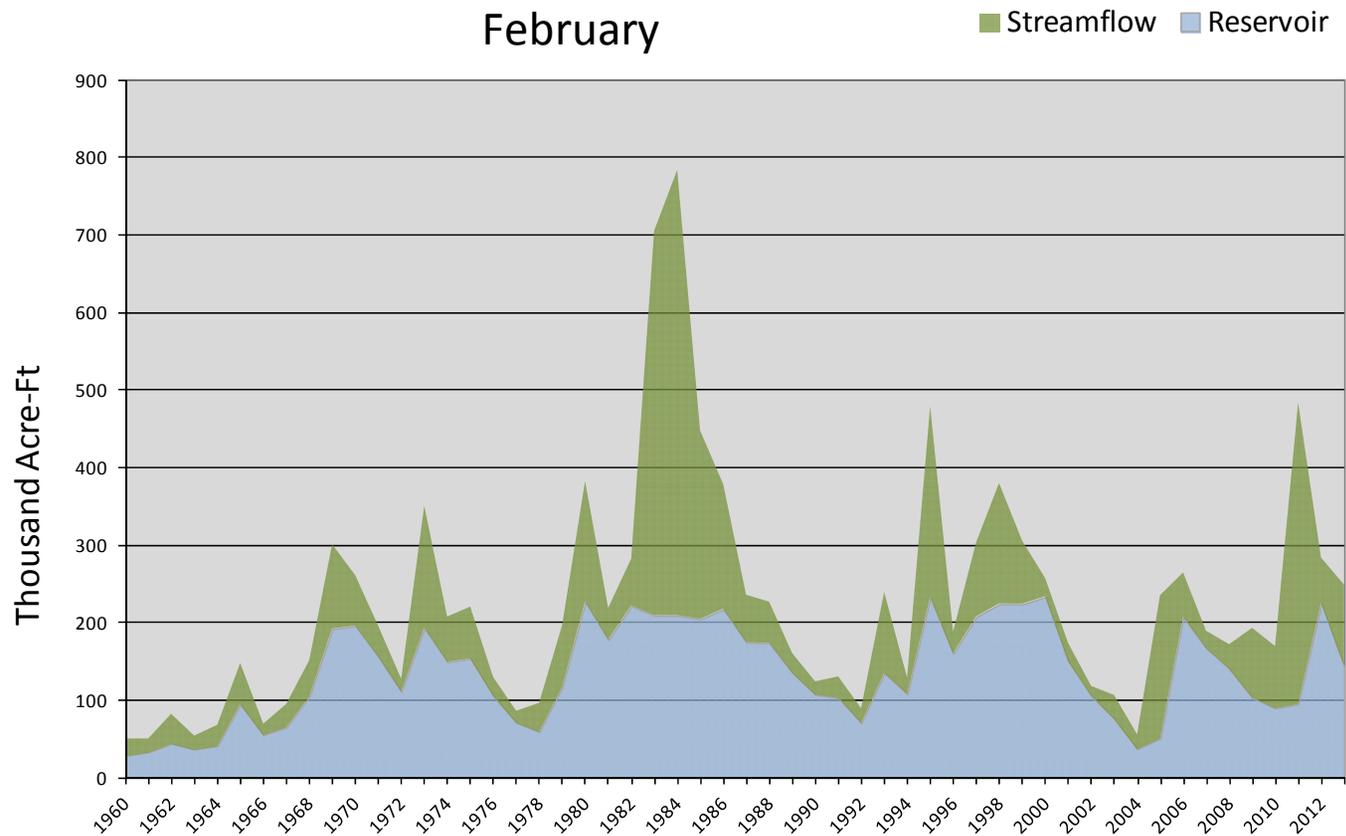
The average is computed for the 1981-2010 base period.

- (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.

February 1, 2013		Surface Water Supply Index				
Basin or Region	January EOM* Sevier Bridge Reservoir	April-July Forecast Inflow to Sevier Bridge Reservoir	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Lower Sevier	144.2	105	249	1.44	67	87,93,00.70

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

Lower Sevier River Surface Water Supply Index
February

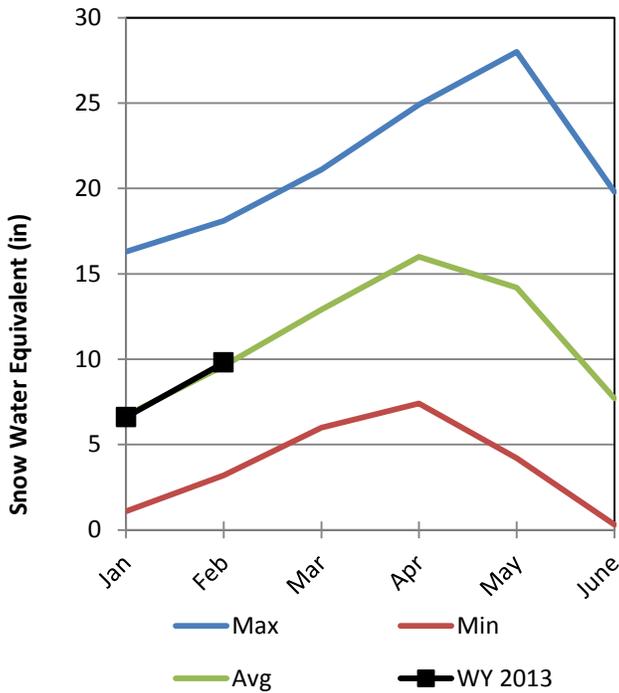


Beaver River Basin

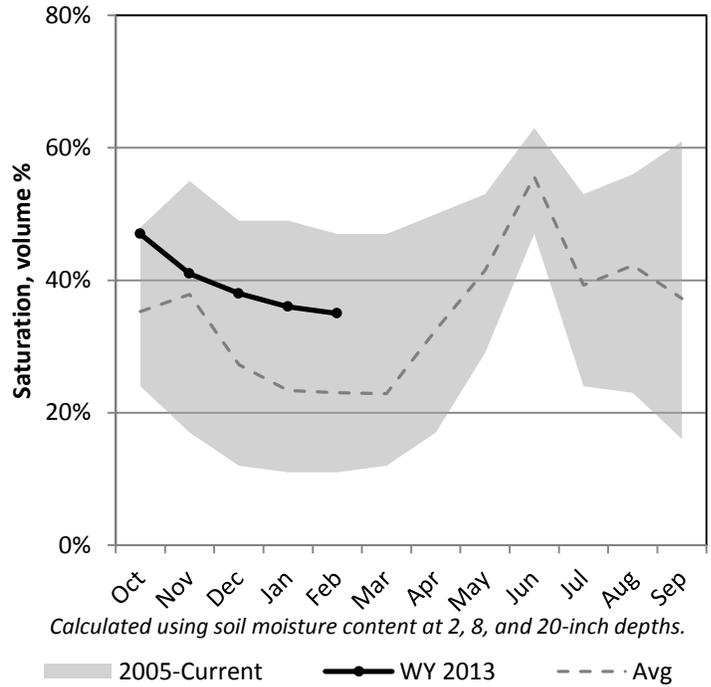
2/1/2013

Snowpack in the Beaver River Basin is near average at 102% of normal, compared to 51% last year. Precipitation in January was near average at 103%, which brings the seasonal accumulation (Oct-Jan) to 105% of average. Soil moisture is at 35% compared to 25% last year. Reservoir storage is at 45% of capacity, compared to 100% last year. The forecast streamflow volume for the Beaver River is 88% of average. The surface water supply index is 43% for the Beaver River.

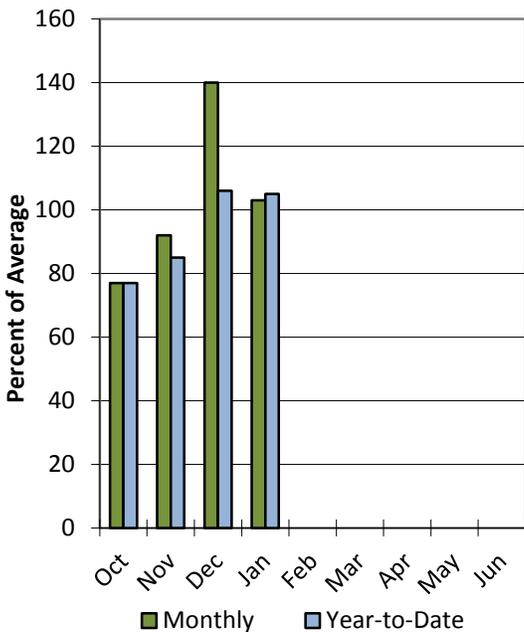
Snowpack



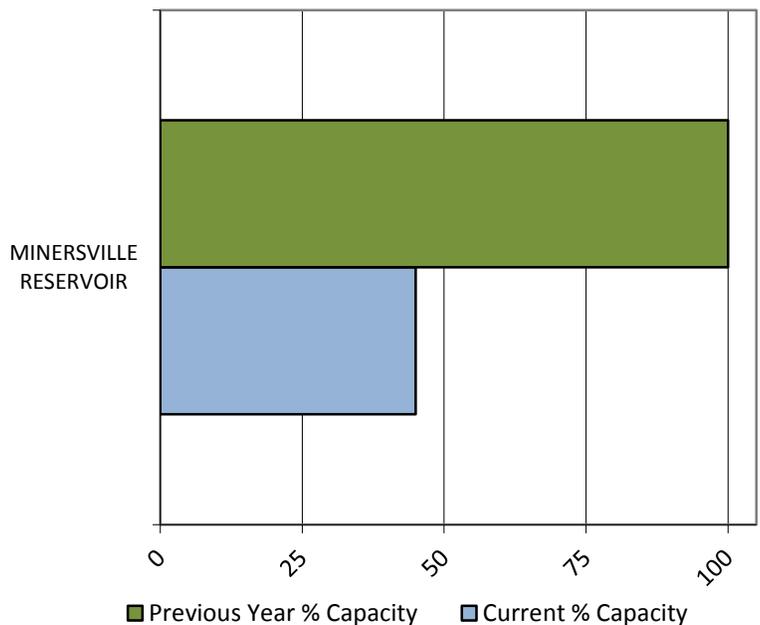
Soil Moisture



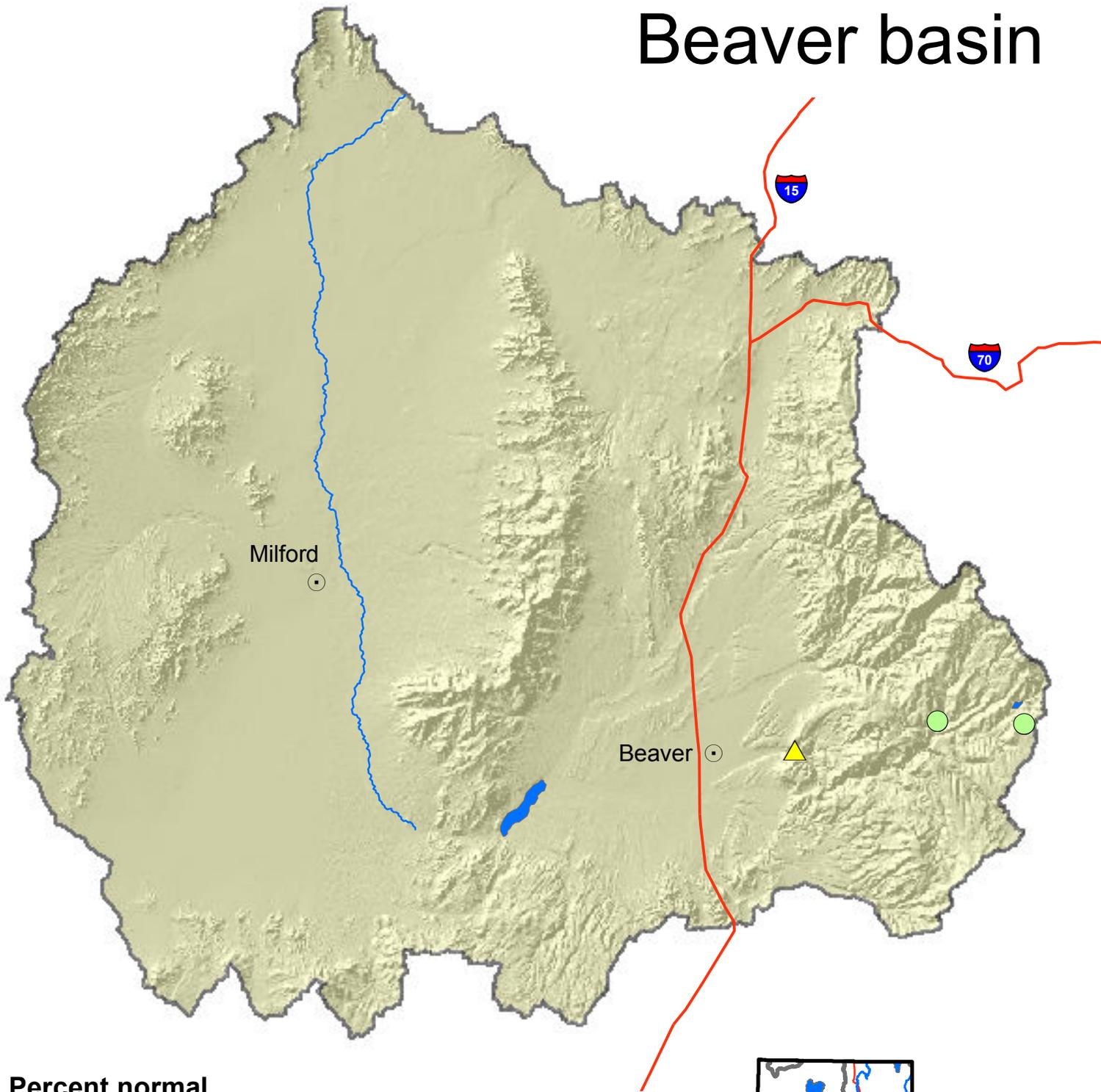
Precipitation



Reservoir Storage



Beaver basin



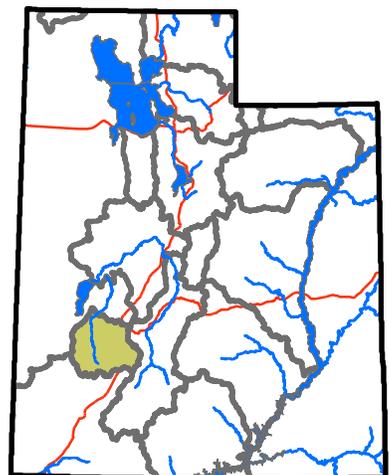
Percent normal

- | | |
|--|---|
| ■ < 50% | SNOTEL sites |
| ■ 50 - 69% | Forecast points |
| ■ 70 - 89% | — Rivers |
| ■ 90 - 109% | — Highways |
| ■ 110 - 129% | Cities |
| ■ 130 - 149% | |
| ■ > 150% | |
| no % avail. | |

0 1.25 2.5 5 7.5 10 Miles



United States Department of Agriculture
 Natural Resources Conservation Service



BEAVER RIVER BASIN as of February 1, 2013

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=====
                        BEAVER RIVER BASIN
                        Streamflow Forecasts - February 1, 2013
=====
Forecast Point          | <<----- Drier ----- Future Conditions ----- Wetter ----->> |
Forecast Period        | ----- Chance Of Exceeding * ----- |
                        | 90%      70%      | 50%      | 30%      10%      | 30-Yr Avg. |
                        | (1000AF) (1000AF) | (1000AF) (% AVG.) | (1000AF) (1000AF) | (1000AF)   |
=====
Beaver R nr Beaver    | APR-JUL  7.8   16.6 | 23   89 | 29   38 | 26
=====

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

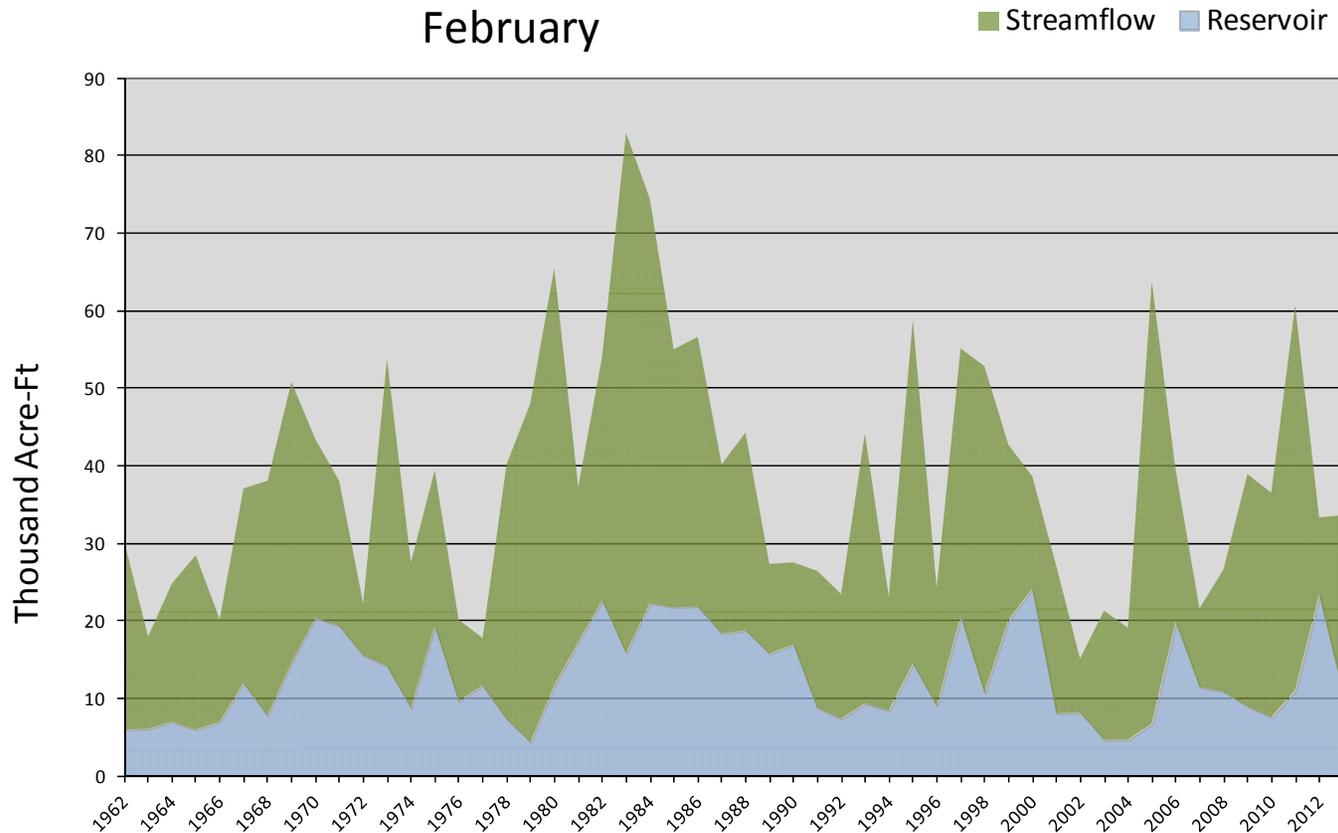
The average is computed for the 1981-2010 base period.

- (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.

February 1, 2013		Surface Water Supply Index				
Basin or Region	January EOM* Minersville Reservoir	April-July forecast Beaver River at Beaver	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Beaver	10.6	23.0	33.6	-0.55	43	62,12,10,67

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

Beaver River Surface Water Supply Index
February

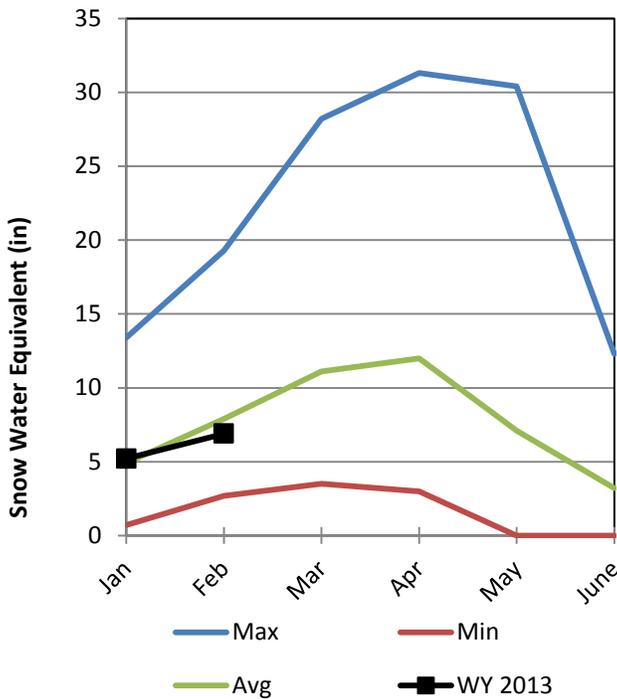


Southwestern Utah Basin

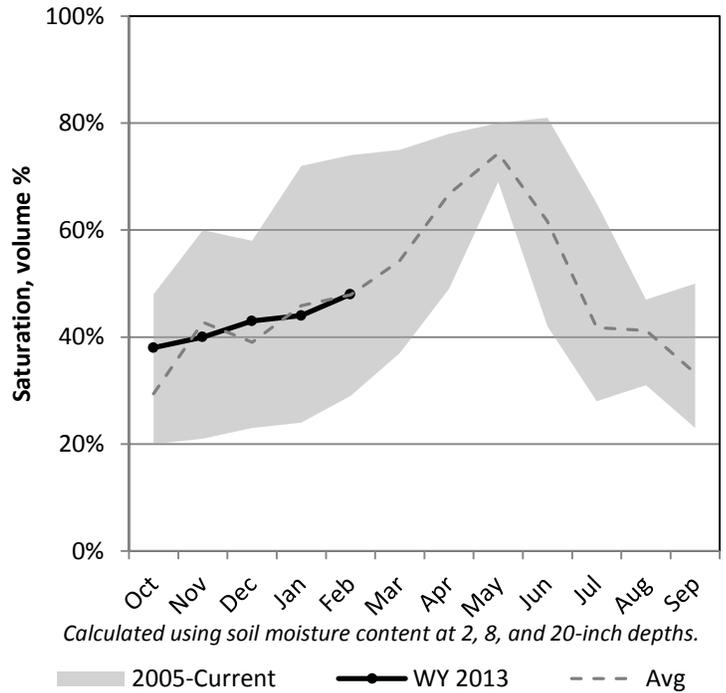
2/1/2013

Snowpack in the Southwestern Utah Basin is above average at 111% of normal, compared to 69% last year. Precipitation in January was much below average at 53%, which brings the seasonal accumulation (Oct-Jan) to 88% of average. Soil moisture is at 48% compared to 43% last year. Reservoir storage is at 50% of capacity, compared to 64% last year. Forecast streamflow volumes range from 52% to 94% of average. The surface water supply index is 50% for the Virgin River.

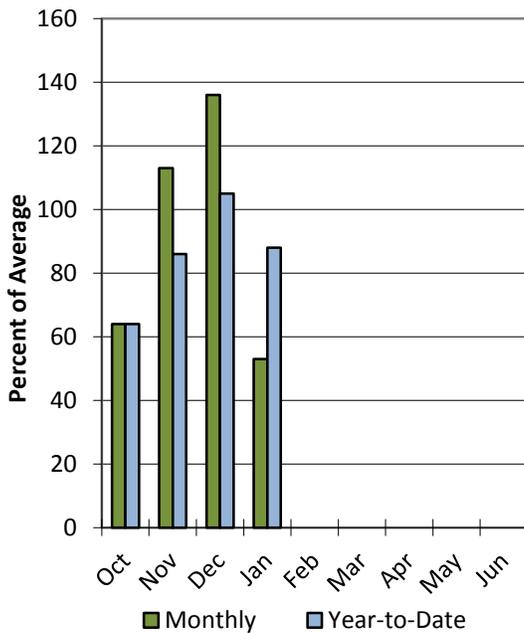
Snowpack



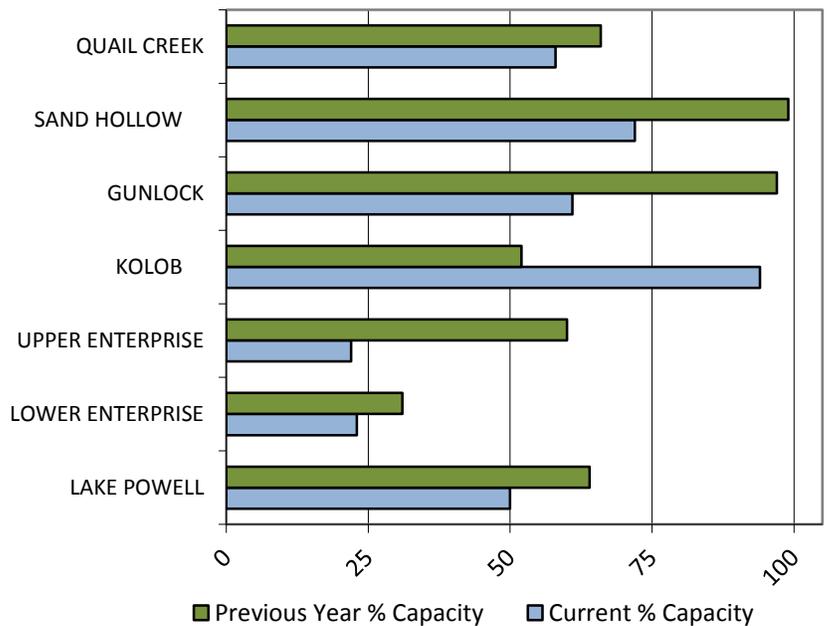
Soil Moisture



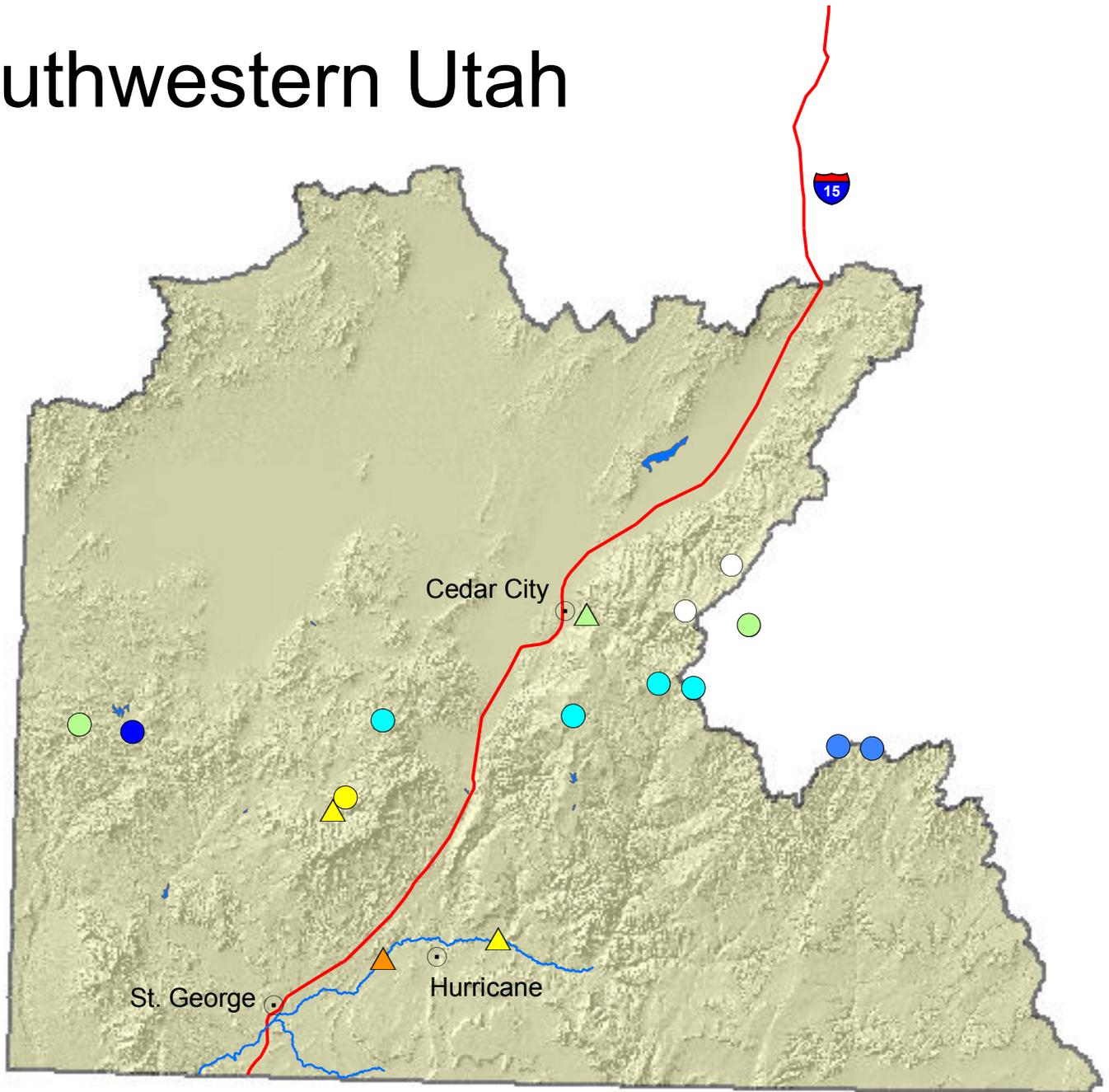
Precipitation



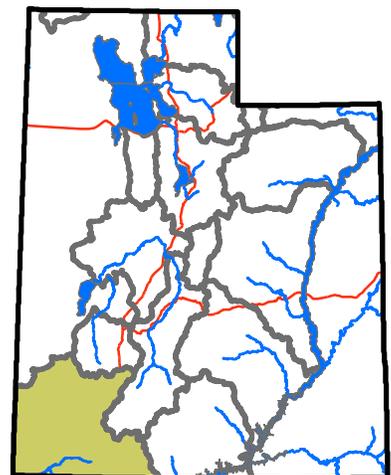
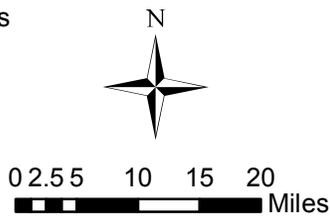
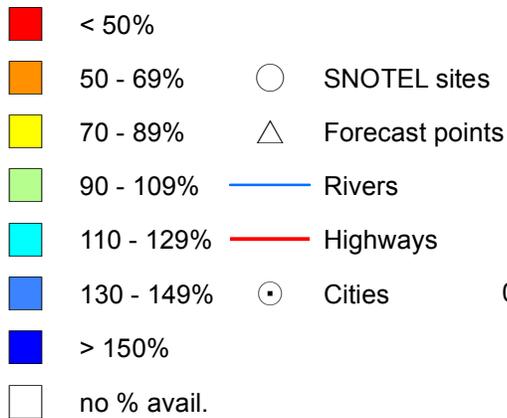
Reservoir Storage



Southwestern Utah



Percent normal



SOUTH WEST UTAH as of February 1, 2013

SOUTH WEST UTAH Streamflow Forecasts - February 1, 2013								
Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding *		30% (1000AF)	10% (1000AF)	
				(1000AF)	(% AVG.)			
Lake Powell Inflow (2)	APR-JUL	1733	2841	3750	52	4785	6536	7160
Virgin R at Virgin	APR-JUL	20	34	45	78	58	80	58
Virgin R nr Hurricane	APR-JUL	17.0	29	43	68	60	91	63
Santa Clara R nr Pine Valley	APR-JUL	1.45	2.80	4.00	80	5.40	7.80	5.00
Coal Ck nr Cedar City	APR-JUL	6.9	13.2	17.4	94	22	28	18.6

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

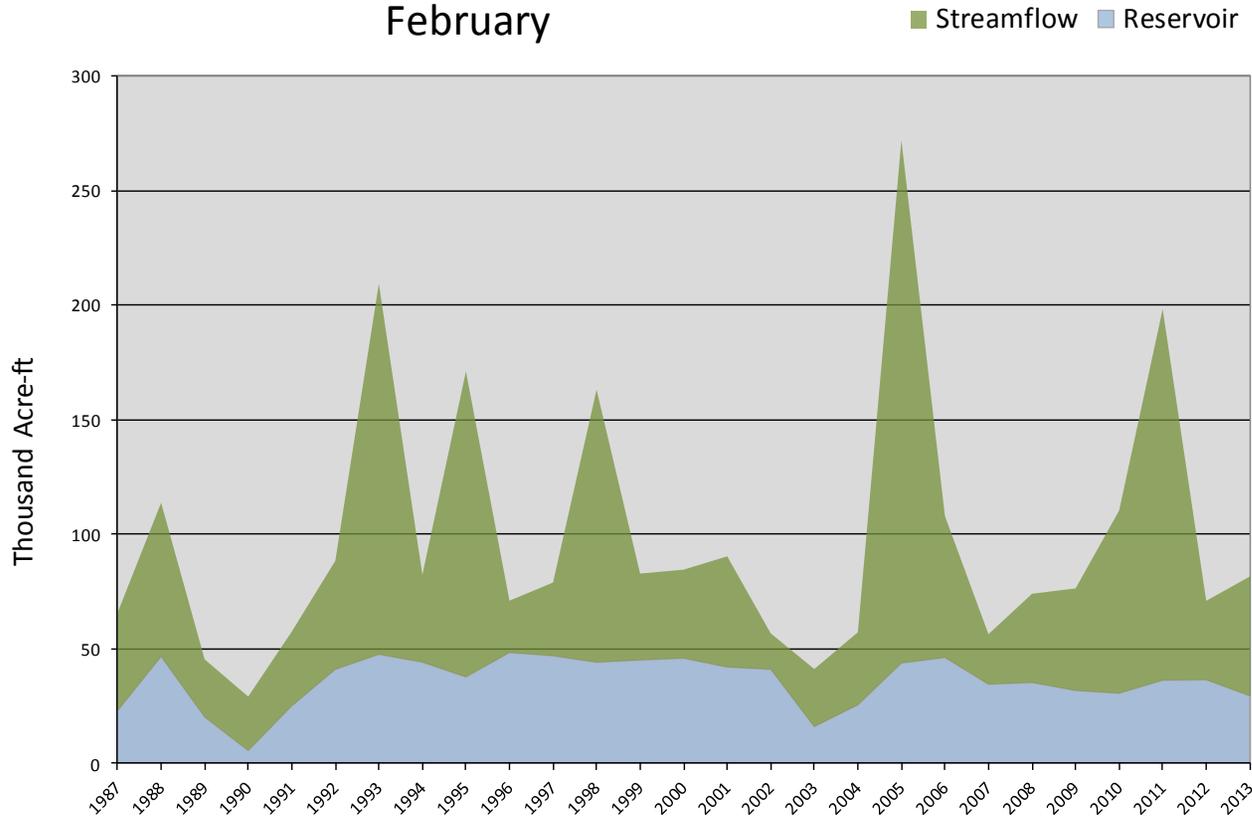
The average is computed for the 1981-2010 base period.

- (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.

February 1, 2013		Surface Water Supply Index				
Basin or Region	January EOM* Quail Creek and Gunlock Reservoirs	April-July forecast Virgin and Santa Clara Rivers	Reservoir + Streamflow	SWSI [#]	Percentile	Years with similar SWSI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Virgin River	29.5	52	82	0.00	50	09,97,99,94

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

Virgin River Surface Water Supply Index
February



February 1, 2013

Surface Water Supply Index

Basin or Region	January EOM* Reservoirs	April-July Stream Forecast	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	KAF^	KAF	KAF		%	
Bear River	756	122	878	-0.37	46	56,64,46,60
Ogden River	47	88	135	-2.14	24	90,81,87,08
Weber River	211	300	511	-1.02	38	87,94,70,81
Provo River	305	92	397	-2.74	17	89,88,94,92
West Uintah Basin	140	150	290	-1.33	34	80, 00, 79, 01
East Uintah Basin	24.7	54.0	78.7	-2.74	17	04, 94, 03, 83
Price River	27.8	31.0	58.8	-1.46	33	94, 07, 93, 09
Joe's Valley	34.6	39.0	73.6	-1.60	31	92, 94, 04, 07
Ferron Creek	8.1	27.0	35.1	-1.98	26	89, 10, 00, 74
Moab	0.3	4.0	4.3	-1.08	37	01, 00, 06, 08
Upper Sevier River	72	68	140	-1.12	37	93, 59, 09, 75
Lower Sevier River	144	105	249	1.44	67	87, 93, 00, 70
Beaver River	10.6	23.0	33.6	-0.55	43	62, 12, 10, 67
Virgin River	29.5	52	82	0.00	50	09,97,99,94

*EOM, end of month; # SWSI, surface water supply index; ^KAF, thousand acre-feet.

What is a Surface Water Supply Index?

The Surface Water Supply Index (SWSI) is a predictive indicator of total surface water availability within a watershed for the spring and summer water use seasons. The index is calculated by combining pre-runoff reservoir storage (carryover) with forecasts of spring and summer streamflow which are based on current snowpack and other hydrologic variables. SWSI values are scaled from +4.1 (abundant supply) to -4.1 (extremely dry) with a value of zero (0) indicating median water supply as compared to historical analysis. SWSI's are calculated in this fashion to be consistent with other hydroclimatic indicators such as the Palmer Drought Index and the Precipitation index.

Utah Snow Surveys has also chosen to display the SWSI value as well as a PERCENT CHANCE OF NON-EXCEEDANCE. While this is a cumbersome name, it has the simplest application. It can be best thought of as a scale of 1 to 99 with 1 being the drought of record (driest possible conditions) and 99 being the flood of record (wettest possible conditions) and a value of 50 representing average conditions. This rating scale is a percentile rating as well, for example a SWSI of 75% means that this years water supply is greater than 75% of all historical events and that only 25% of the time has it been exceeded. Conversely a SWSI of 10% means that 90% of historical events have been greater than this one and that only 10% have had less total water supply. This scale is comparable between basins: a SWSI of 50% means the same relative ranking on watershed A as it does on watershed B, which may not be strictly true of the +4 to -4 scale.

For more information on the SWSI go to: www.ut.nrcs.usda.gov/snow/ on the water supply page. The entire period of historical record for reservoir storage and streamflow is available.

Issued by

Jason Weller
Chief
Natural Resources Conservation Service
U.S. Department of Agriculture

Prepared by

Snow Survey Staff
Randall Julander, Supervisor
Troy Brosten, Assistant Supervisor
Beau Uriona, Hydrologist
Amy Burke, Hydrologist
Jordan Clayton, Hydrologist
Bob Nault, Electronics Technician
Kent Sutcliffe, Soil Scientist

Released by

David Brown
State Conservationist
Natural Resources Conservation Service
Salt Lake City, Utah



YOU MAY OBTAIN THIS PRODUCT AS WELL AS CURENT SNOW, PRECIPITATION, TEMPERATURE AND SOIL MOISTURE, RESERVOIR, SURFACE WATER SUPPLY INDEX, AND OTHER DATA BY VISITING OUR WEB SITE @: <http://www.ut.nrcs.usda.gov/snow/>

Snow Survey, NRCS, USDA
245 North Jimmy Doolittle Road
Salt Lake City, UT 84116
(801) 524-5213



**Utah Water Supply
Outlook Report**
Natural Resources Conservation Service
Salt Lake City, UT

