NRCS
Natural Resources Conservation Service

Utah Water Supply Outlook Report

February, 2012

Early over snow technology.

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

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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. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. 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, 2012

SUMMARY

Snowpacks remain much below to much below average over all of Utah, although improved over the January figures. A much welcomed stormy period in January broke the long dry spell and brought some snow to Utah's watersheds. We are currently at the midpoint of winter snow accumulation in the high country and snowpacks are pretty consistent across the state at 60% to 80% of average. January precipitation was near average in northern Utah with the exception of the Uintah Basin (63%) and in southern Utah, much below average ranging from 57% to 80% of normal which brings the year to date precipitation to 83% of normal. Current soil moisture saturation levels in runoff producing areas are: Bear – 48%, Weber – 48%, Provo – 32%, Uintah Basin – 41%, SE Utah – 41%, Sevier – 43% and SW Utah – 39%, in all cases, much lower than last year. Dryer soils mean that watersheds will likely lose more snowpack to soil infiltration and generate less runoff. Low snowpacks and low soil moisture are the poorest runoff conditions. Reservoir storage is currently at 86% of capacity statewide, which is 18% higher than last year at this time. Snowmelt runoff conditions are much below average across the state but mitigated substantially by exceptional reservoir storage. Streamflow forecasts range from 42% at West Canyon Creek to 89% on the Whiterocks River.

SNOWPACK

February first snowpacks as measured by the NRCS SNOTEL system are as follows: Bear - 77%, Weber - 70%, Provo - 61%, Uintahs - 71%, southeast Utah - 65%, Sevier - 65%, southwest Utah - 63% and the statewide figure is 68% of average. With February and March remaining in the snow accumulation season, the range of potential outcomes is still reasonably large and any outcome is possible depending on future climatic conditions. If drought prevails, snowpacks could range between 0% (SW Utah) and 52% (Weber) of average. Given maximum accumulations, April 1 snowpacks could range between 105% (Weber) and 156% (SW Utah) of average. With normal accumulations, April 1 snowpacks will be between 76% (SW Utah) and 83% (Bear) of average.

PRECIPITATION

Mountain precipitation during January was: Bear – 103%, Weber – 105%, Provo – 101%, Uintahs – 63%, SE Utah – 76%, Sevier – 80%, SW Utah – 57% and the statewide figure is 92% of average. This brings the seasonal accumulation (Oct-Jan) to 83% of average statewide.

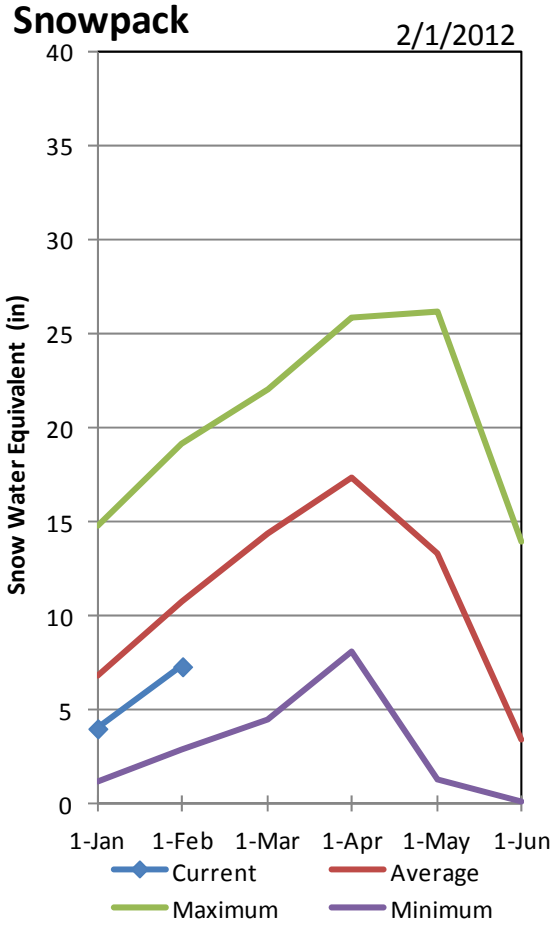
RESERVOIRS

Storage in 41 of Utah's key irrigation reservoirs is at 86% of capacity, 18% higher than last year. Reservoir storage by Basin: Bear – 75%, Weber – 80%, Provo – 94%, Uintah Basin – 87%, SE Utah – 77%, Sevier – 89%, SW Utah – 85% of capacity.

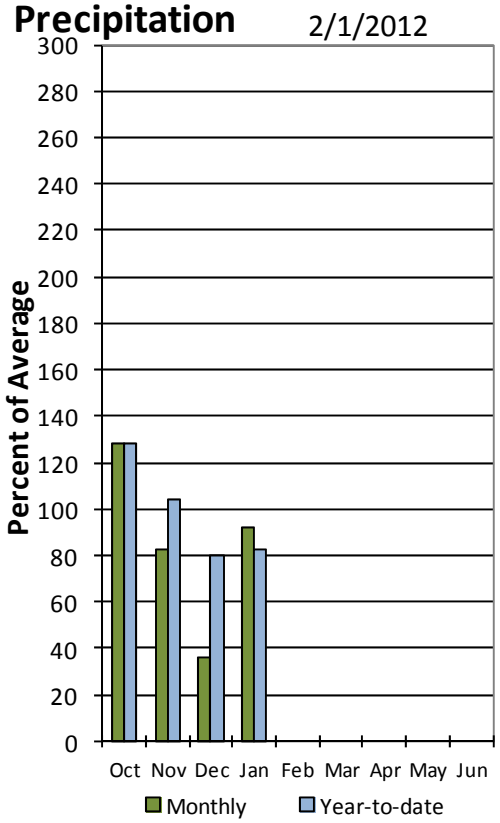
STREAMFLOW

Snowmelt streamflows are expected to be below to much below average across the state this year. Forecast streamflows range from an abysmal 42% at West Canyon Creek to a paltry 89% on the Whiterocks river. Most flows are forecast to be in the 50% to 75% range.

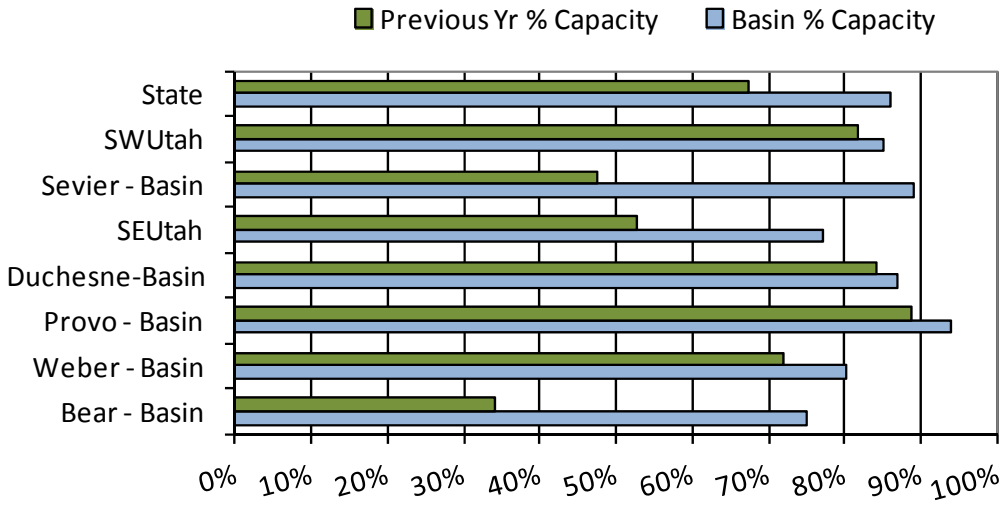
Statewide Mountain Snowpack

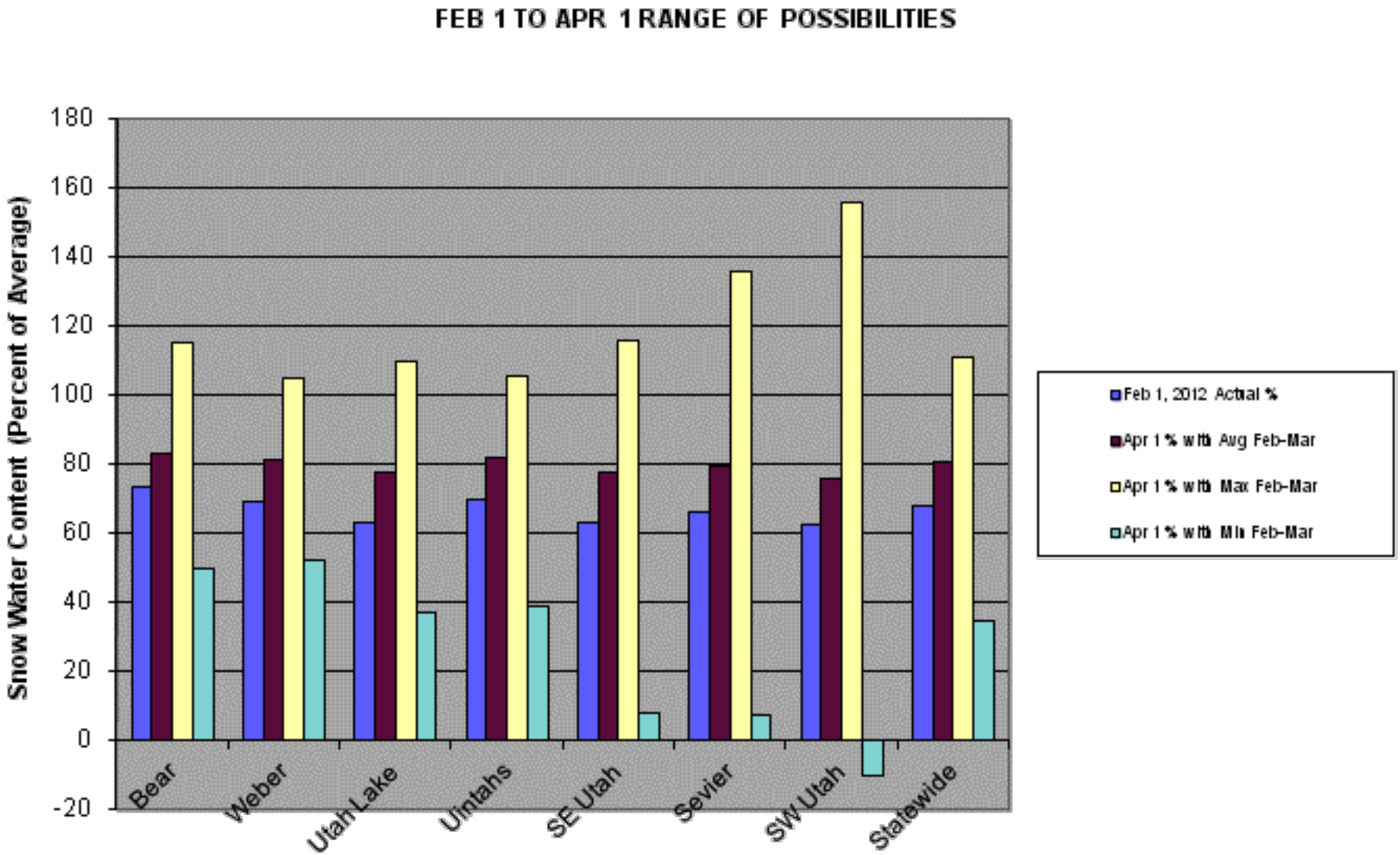


Statewide Precipitation



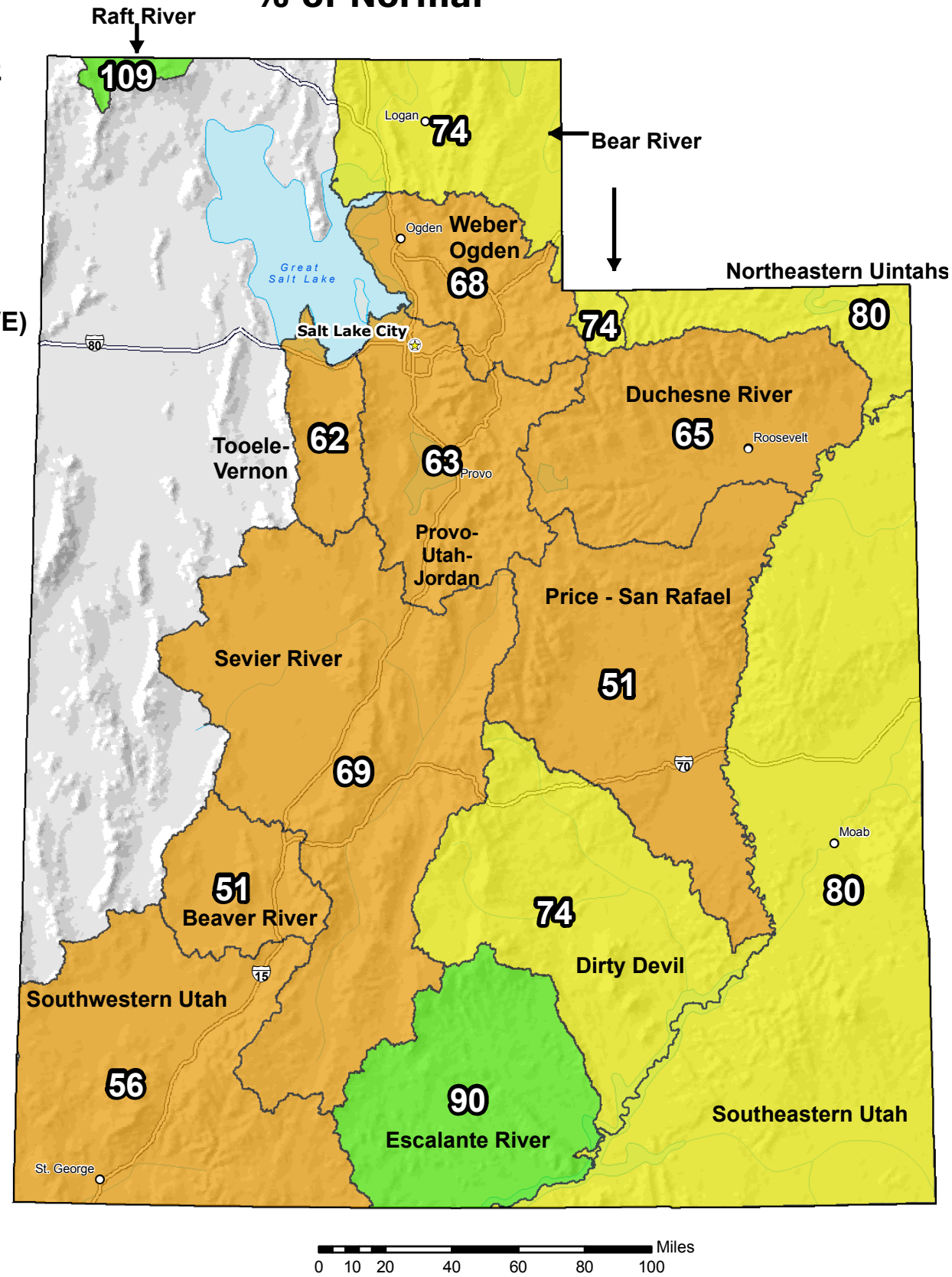
February Statewide Reservoir Storage




FEB 1 TO APR 1 RANGE OF POSSIBILITIES
Snow Water Content (Percent of Average)
180
160
140
120
100
80
60
40
20
0
-20
Bear
Weber
Utah Lake
Uintahs
SE Utah
Sevier
SW Utah
Statewide
Feb 1, 2012 Actual %
Apr 1 % with Avg Feb-Mar
Apr 1 % with Max Feb-Mar
Apr 1 % with Min Feb-Mar

Utah
SNOTEL Current Snow Water Equivalent (SWE) % of Normal

Feb 01, 2012



Snow Water Equivalent (SWE) Basin-wide Percent of 1971-2000 Normal

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

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

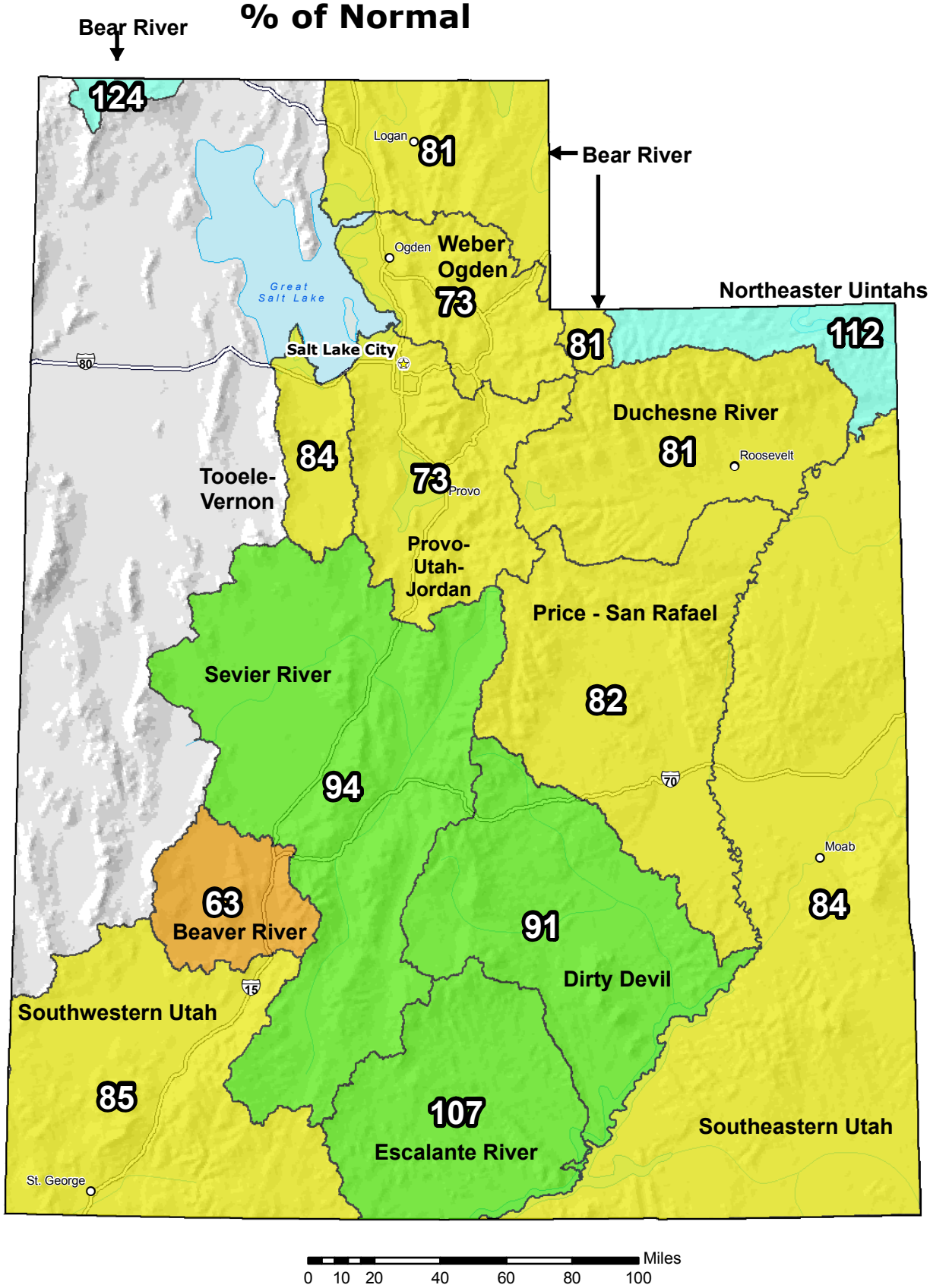
Provisional Data Subject to Revision

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/
Based on data from http://www.wcc.nrcs.usda.gov/reports/
Science contact: Jim.Marron@por.usda.gov 503 414 3047

Utah
SNOTEL Water Year (Oct 1) to Date Precipitation
% of Normal

Feb 03, 2012



Water Year (Oct 1) to Date Precipitation Basin-wide Percent of 1971-2000 Normal

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

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

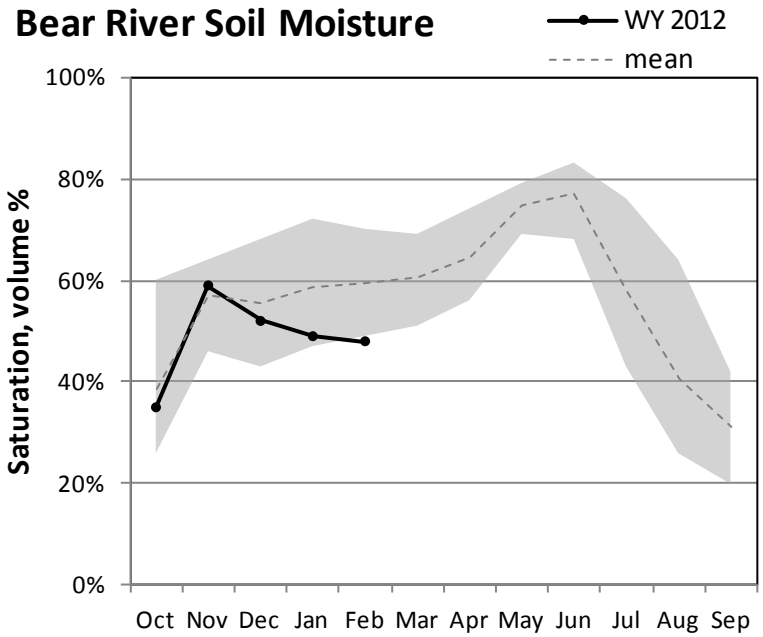
Provisional Data Subject to Revision

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).

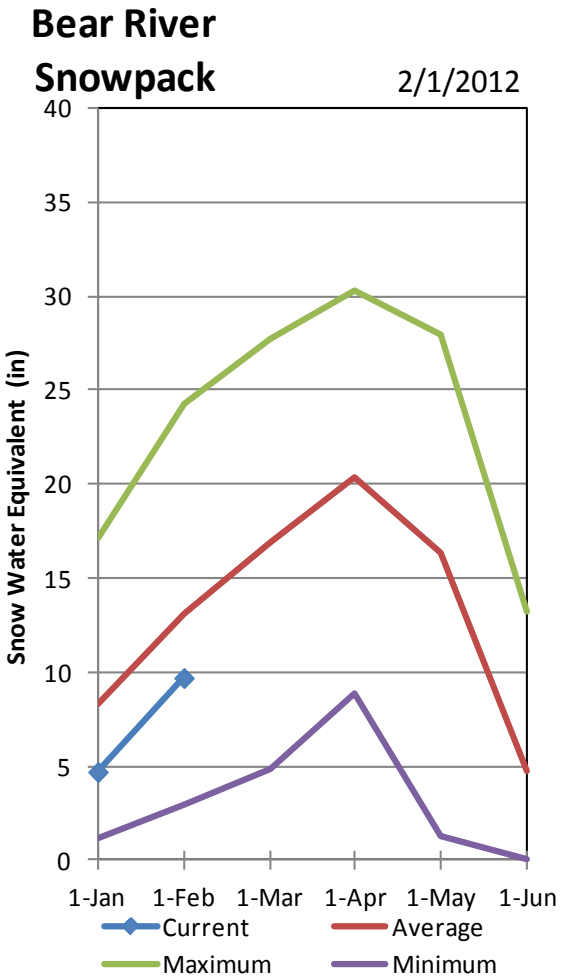
Prepared by the USDA/NRCS National Water and Climate Center
Portland, Oregon http://www.wcc.nrcs.usda.gov/gis/
Based on data from http://www.wcc.nrcs.usda.gov/reports/
Science contact: Jim.Marron@por.usda.gov 503 414 3047

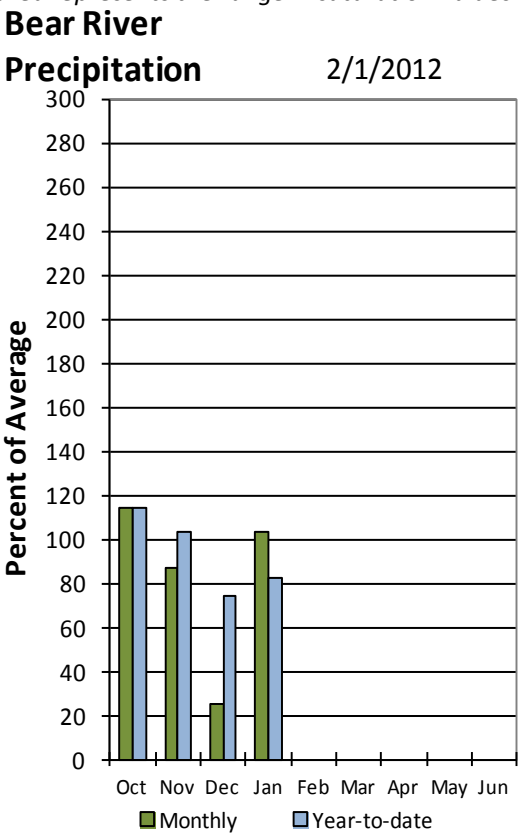
Bear River Basin
February 1, 2012

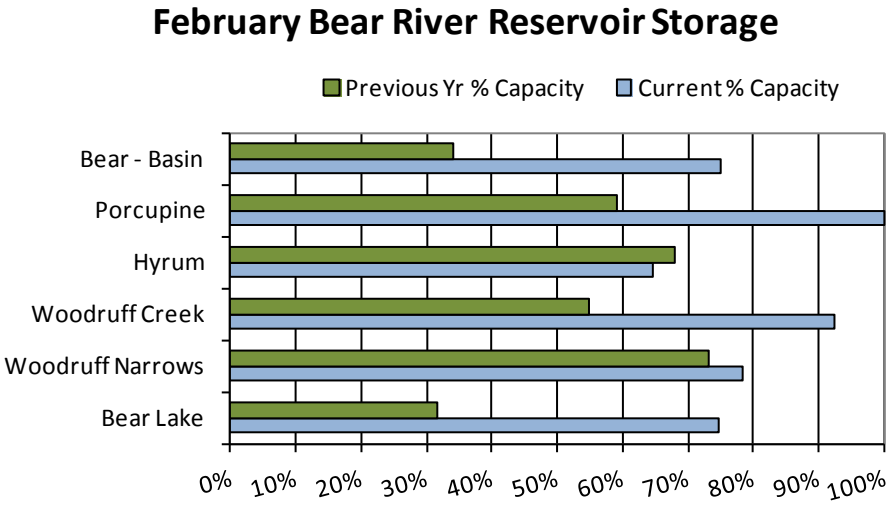
Snowpacks on the Bear River Basin are below average at 77% of normal, and 59% of last year. Individual sites range from 62% of normal at Giveout Snotel to 109% at Howell Canyon Snotel. January precipitation was average at 103%, which brings the seasonal accumulation (Oct-Jan) to 82% of average. Soil moisture levels in runoff producing areas are at 48% of saturation in the upper 2 feet of soil compared to 70% last year. Forecast streamflows (April-July) are below average (64%-78%) volumes for this spring and summer. Bear Lake reservoir storage is high at 75% of capacity, which is up 41% from this time last year. Runoff conditions are below average where the Surface Water Supply Index, for the Bear River Basin, is above average at 70% due to high reservoir storage in Bear Lake.



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.

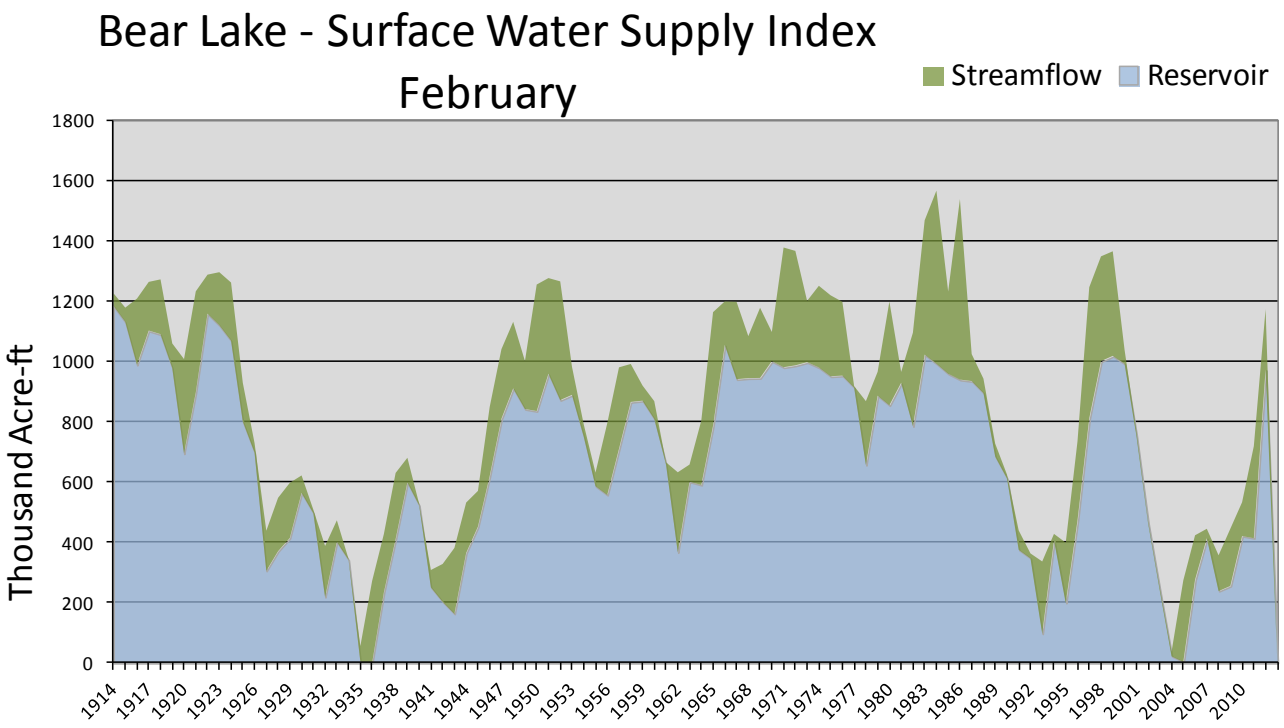






February 1, 2012	**Surface Water Supply Index**					
Basin or Region	January EOM* Bear Lake	April-July Forecast below Stewart Dam	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	*KAF^*	*KAF*	*KAF*		*%*	
Bear River	**992**	**573**	**1565**	**1.67**	**70**	**48, 65, 69, 15**

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



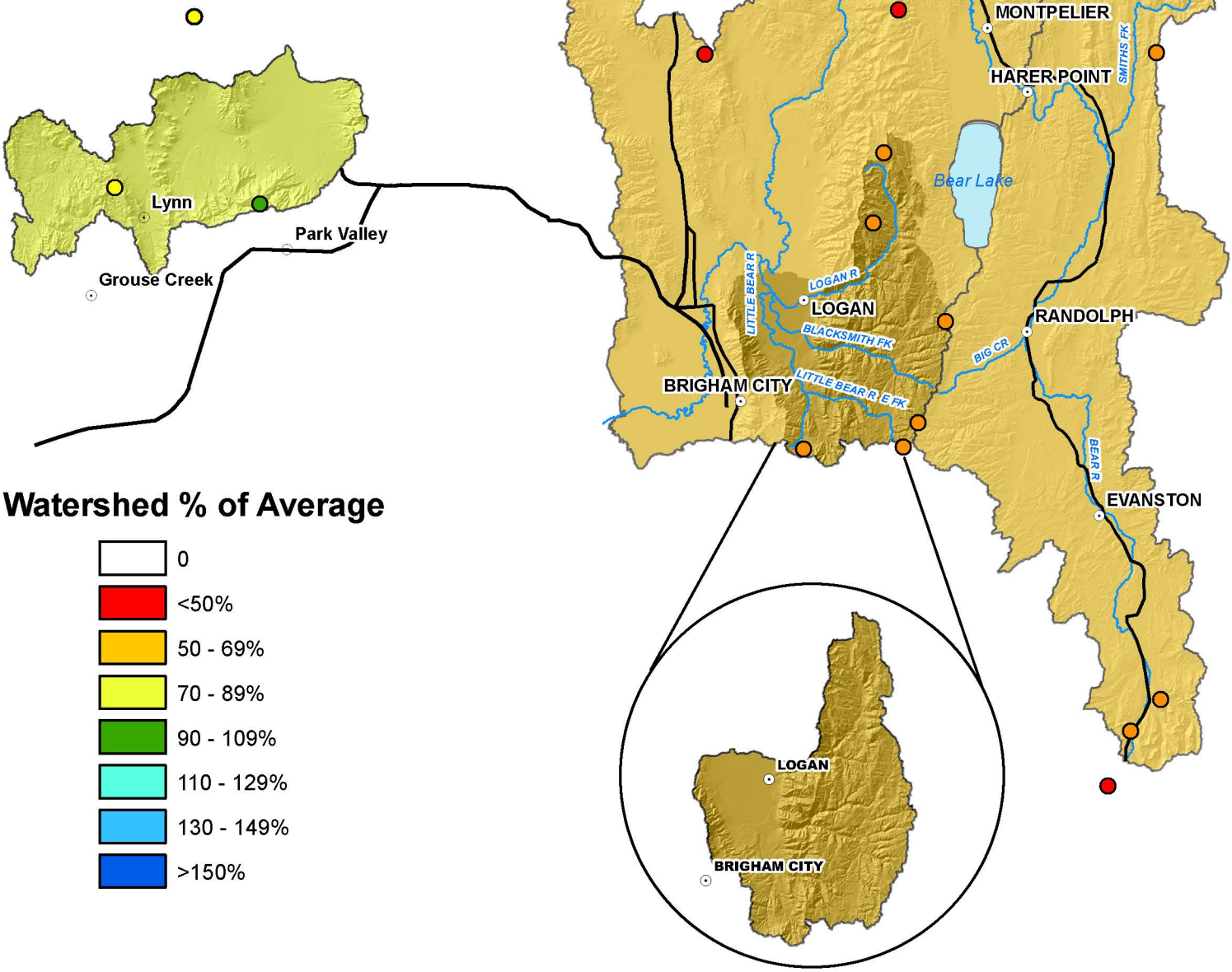
Bear River & Raft River Basins

Basinwide Average

57 %

Snotel % of Average

- < 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%

Miles
0 5 10 20 30 40 50

Provisional Data Subject to Revision

BEAR RIVER BASIN as of February 1, 2012

BEAR RIVER BASIN
Streamflow Forecasts - February 1, 2012

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Bear R nr UT-WY State Line	APR-JUL	45	69	85	75	101	125	113
Bear R ab Res nr Woodruff	APR-JUL	3.0	52	90	66	128	184	136
Big Ck nr Randolph	APR-JUL	1.34	2.60	3.50	71	4.40	5.70	4.90
Smiths Fk nr Border	APR-JUL	44	66	80	78	94	116	103
Bear R bl Stewart Dam	APR-JUL	13.0	95	150	64	205	285	234
Little Bear R at Paradise	APR-JUL	9.8	25	35	76	45	60	46
Logan R nr Logan	APR-JUL	45	75	95	75	115	145	126
Blacksmith Fork nr Hyrum	APR-JUL	12.7	27	37	77	47	61	48
Dunn Ck nr Park Valley	APR-JUL	0.40	1.40	2.10	68	2.80	3.80	3.10

BEAR RIVER BASIN
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
BEAR LAKE	1302.0	972.0	413.2	---
HYRUM	15.3	9.9	10.4	10.4
PORCUPINE	11.3	11.3	6.7	4.4
WOODRUFF NARROWS	57.3	45.0	42.0	25.2
WOODRUFF CREEK	4.0	3.7	2.2	---

BEAR RIVER BASIN
Watershed Snowpack Analysis - February 1, 2012

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
BEAR RIVER, UPPER	8	52	71
BEAR RIVER, LOWER	9	59	75
LOGAN RIVER	4	61	81
RAFT RIVER	1	82	109
BEAR RIVER BASIN	17	57	74

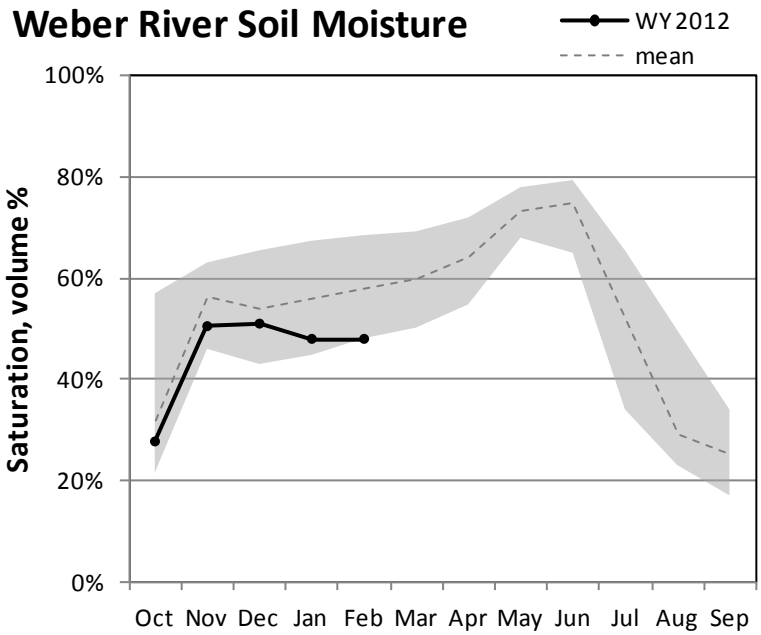
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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.

Weber and Ogden River Basins
February 1, 2012

Snowpacks on the Weber and Ogden Watersheds are below average at 70% of normal, and 55% of last year. Individual sites range from 61% at Chalk Creek #1 Snotel to 102% of average at Hardscrabble Snotel. January precipitation was average at 105% bringing the seasonal accumulation (Oct-Jan) to 74% of average. Soil moisture levels in runoff producing areas are at 48% of saturation in the upper 2 feet of soil compared to 68% last year. Streamflow forecasts (April-July) range from 58% to 70% of average. Reservoir storage is at 80% of capacity, 8% higher at this time last year. Runoff conditions are below average while the Surface Water Supply Index is average with 52% and 44% for the Weber and Ogden River, respectively, due to high reservoir storage.



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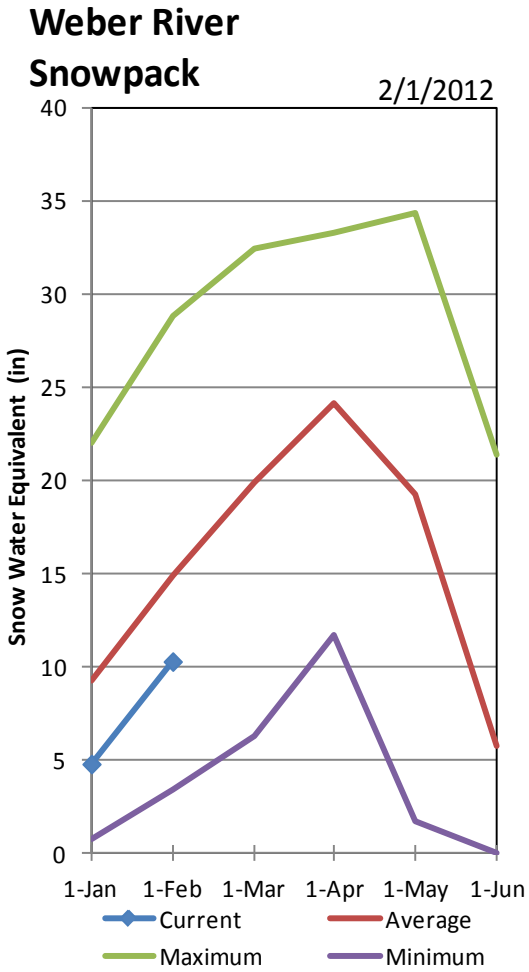
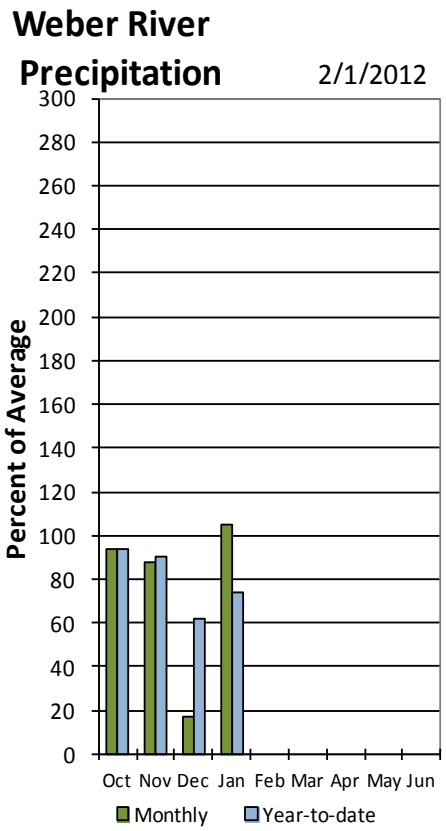
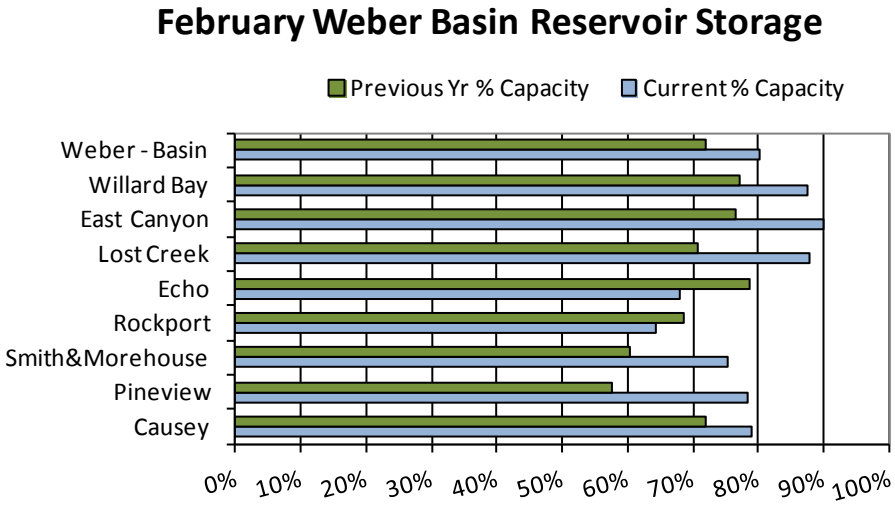




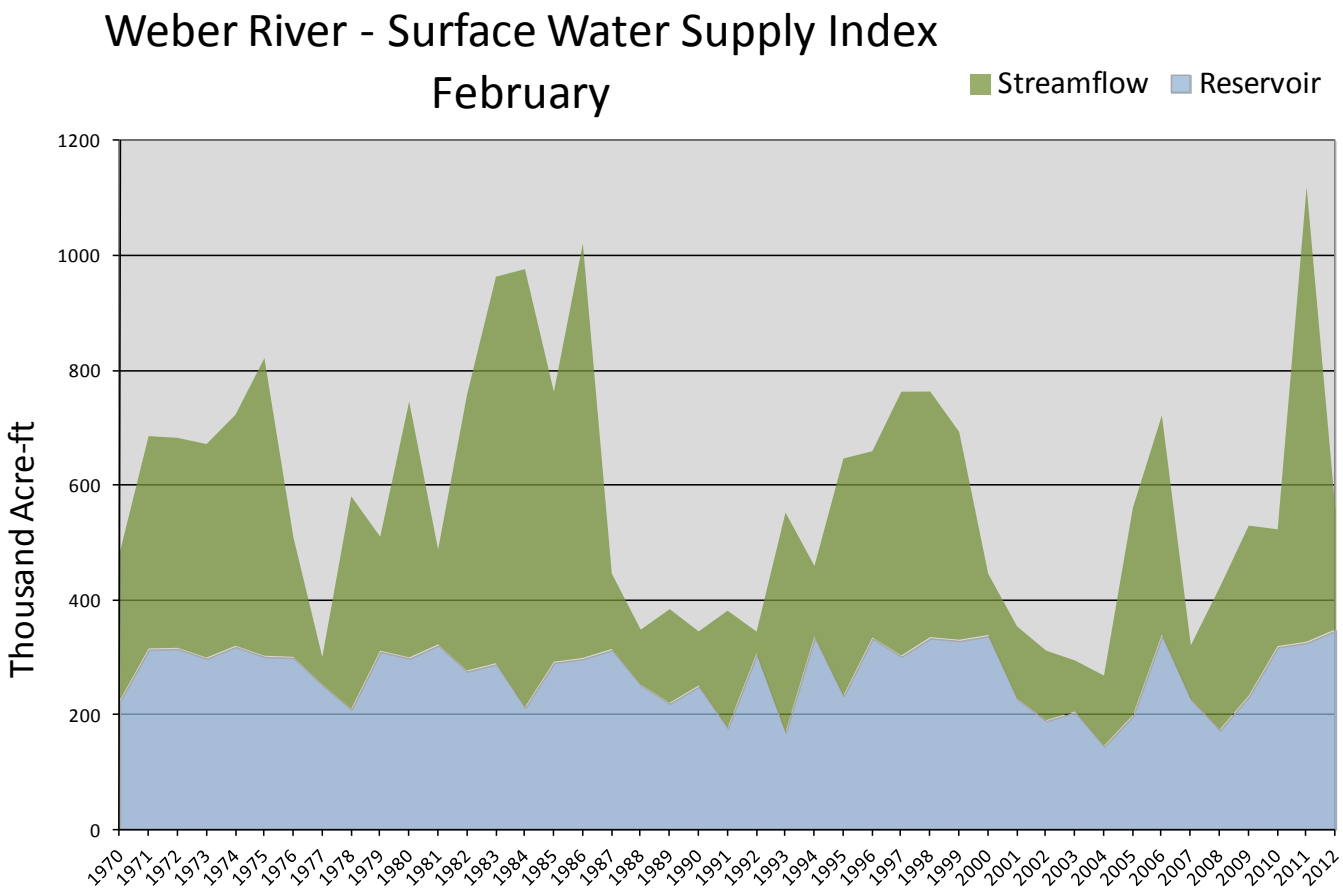


February 1, 2012

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	**348**	**205**	**553**	**0.19**	**52**	**09, 93, 05, 78**

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

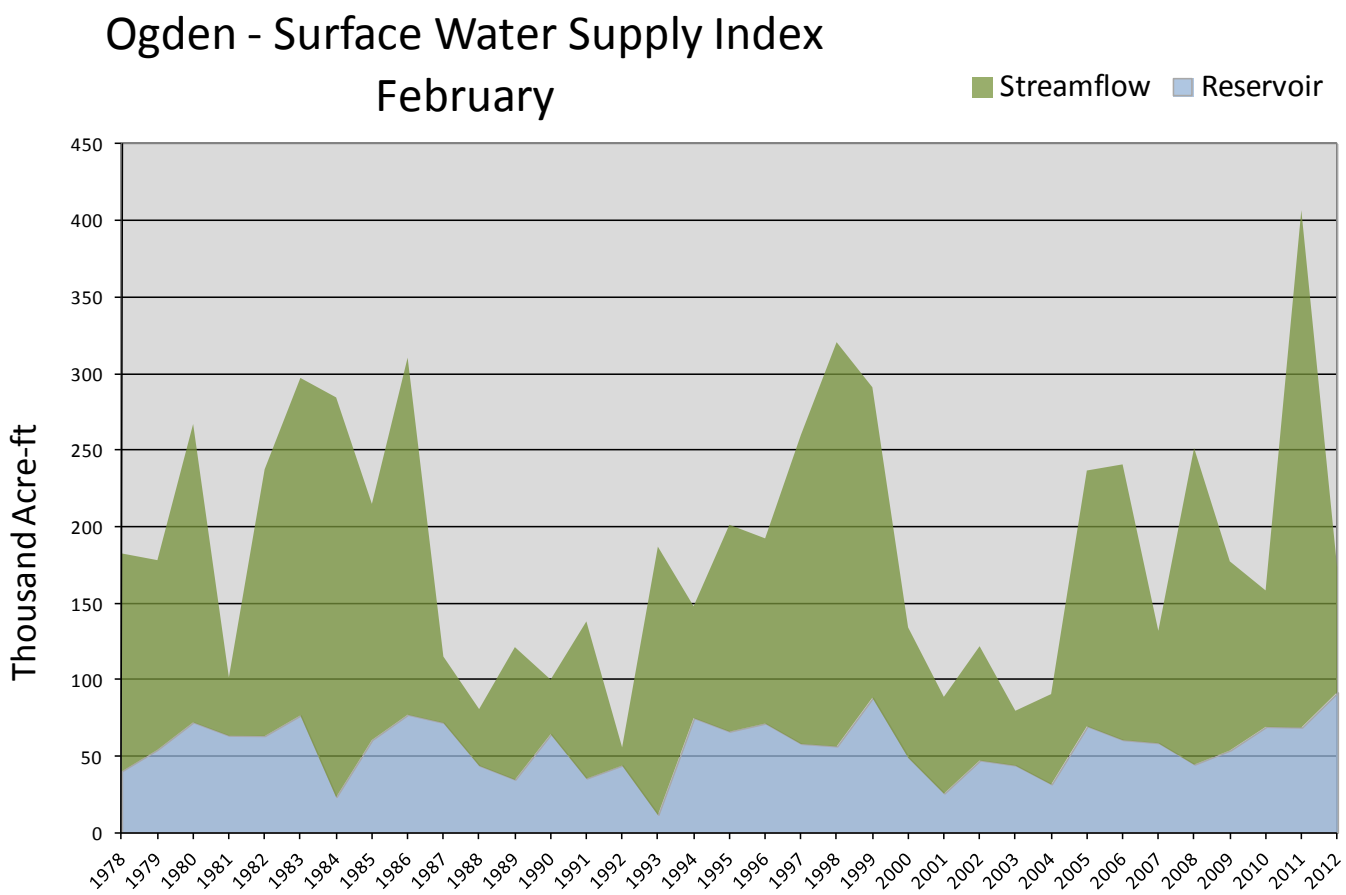


February 1, 2012

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	**91.8**	**82.0**	**174**	**-0.46**	**44**	**94, 10, 09, 79**

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



Weber & Ogden Basins

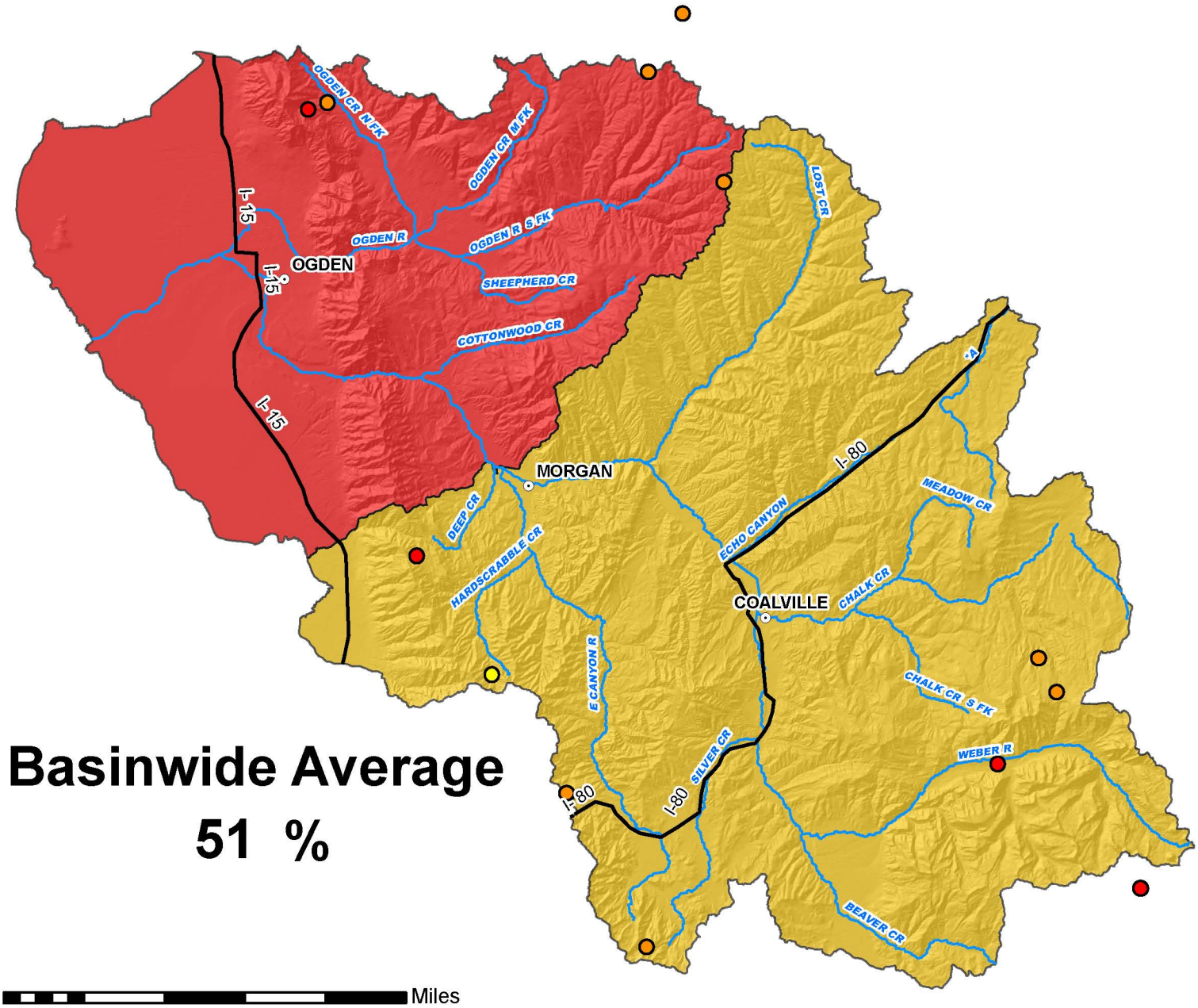
Watershed % of Average

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

Snotel % of Average

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

N



Basinwide Average

51 %

0 2.5 5 10 15 20 25 Miles

Provisional Data
Subject to Revision

WEBER & OGDEN WATERSHEDS in Utah as of February 1, 2012

WEBER & OGDEN WATERSHEDS in Utah
Streamflow Forecasts - February 1, 2012

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Smith & Morehouse Res Inflow	APR-JUL	14.1	19.4	23	68	27	32	34
Weber R nr Oakley	APR-JUL	36	62	80	65	98	124	123
Rockport Res	APR-JUL	21	57	82	61	107	143	134
Weber R nr Coalville	APR-JUL	20	57	82	60	107	144	137
Chalk Ck at Coalville	APR-JUL	0.9	16.1	27	60	38	54	45
Echo Res Inflow	APR-JUL	2.0	62	103	58	144	205	179
Lost Ck Resv Inflow	APR-JUL	1.3	7.1	11.0	63	14.9	21	17.6
East Canyon Ck nr Jeremy Ranch	APR-JUL	0.3	2.3	10.0	70	18.0	26	14.2
East Canyon Ck nr Morgan	APR-JUL	3.2	13.2	20	65	27	37	31
Weber R at Gateway	APR-JUL	14.0	110	205	58	300	440	355
SF Ogden R nr Huntsville	APR-JUL	7.3	27	41	64	55	75	64
Pineview Res Inflow	APR-JUL	9.0	52	82	62	112	155	133
Wheeler Ck nr Huntsville	APR-JUL	0.84	2.80	4.20	67	5.60	7.60	6.30
Centerville Ck	APR-JUL	0.36	0.68	0.90	70	1.12	1.44	1.28

WEBER & OGDEN WATERSHEDS in Utah
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CAUSEY	7.1	5.6	5.1	2.8
EAST CANYON	49.5	44.5	37.9	35.4
ECHO	73.9	50.2	58.2	50.2
LOST CREEK	22.5	19.8	15.9	14.0
PINEVIEW	110.1	86.2	63.6	51.7
ROCKPORT	60.9	39.1	41.8	34.3
WILLARD BAY	215.0	188.1	166.2	151.6

WEBER & OGDEN WATERSHEDS in Utah
Watershed Snowpack Analysis - February 1, 2012

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
OGDEN RIVER	4	58	70
WEBER RIVER	9	52	68
WEBER & OGDEN WATERSHEDS	13	54	69

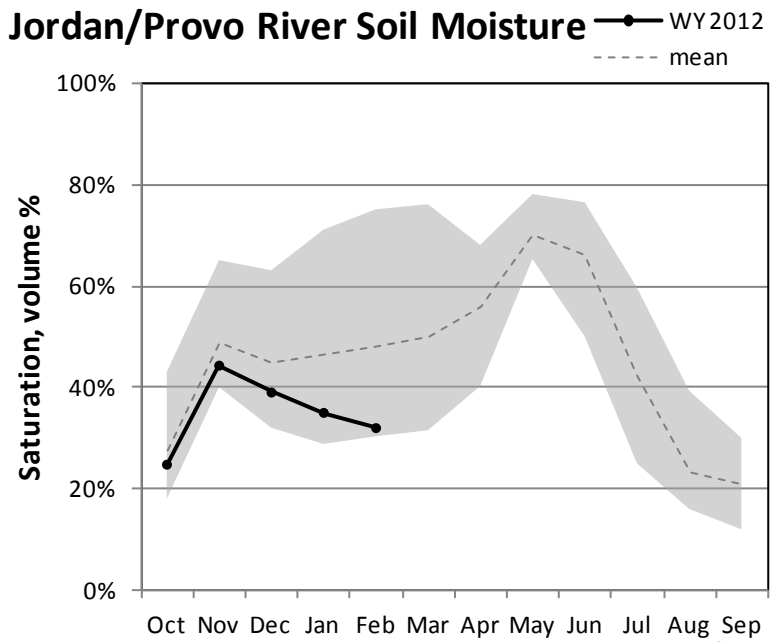
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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

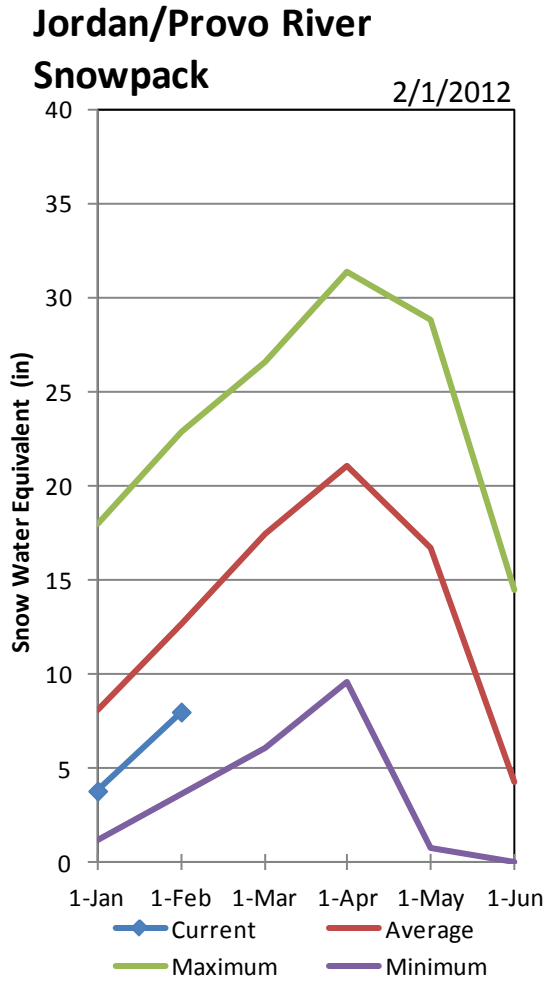
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

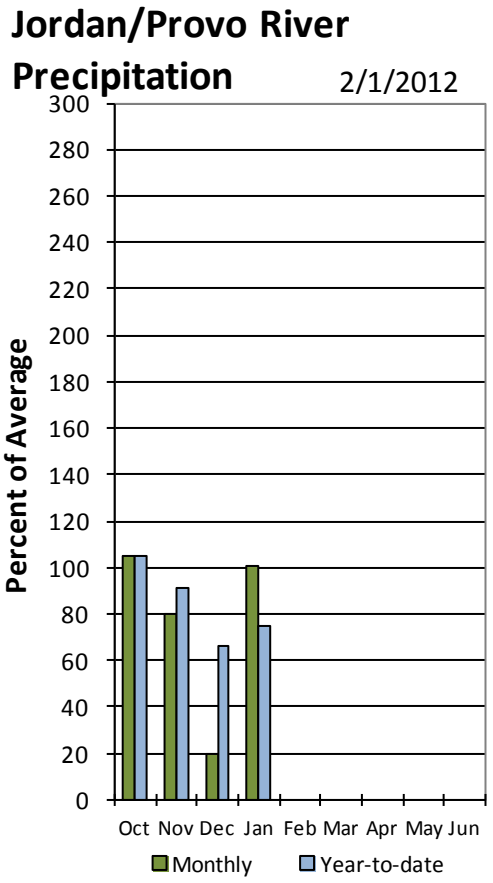
Utah Lake, Jordan River & Tooele Valley Basins
February 1, 2012

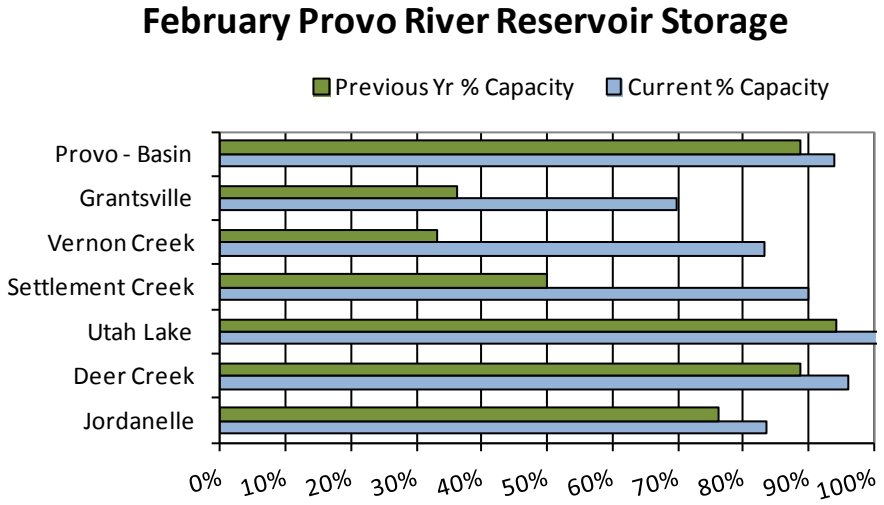
Snowpack over these basins are much below average at 61%, which is 47% of last year. Individual sites range from 24% at Killyon canyon to 77% of average at Snowbird Snotel. January precipitation was near average at 101%, bringing the seasonal accumulation (Oct-Jan) to 75% of average. Average soil moisture in runoff producing areas is estimated at 32% of saturation in the upper 2 feet of soil compared to 57% at this time last year. Reservoir storage is at 94% of capacity, 5% higher than last year. Streamflow forecasts (Apr-July) range from 18% to 77% of average. The Surface Water Supply Index below Deer Creek reservoir is 56%, indicating general water supply conditions are near average.



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.

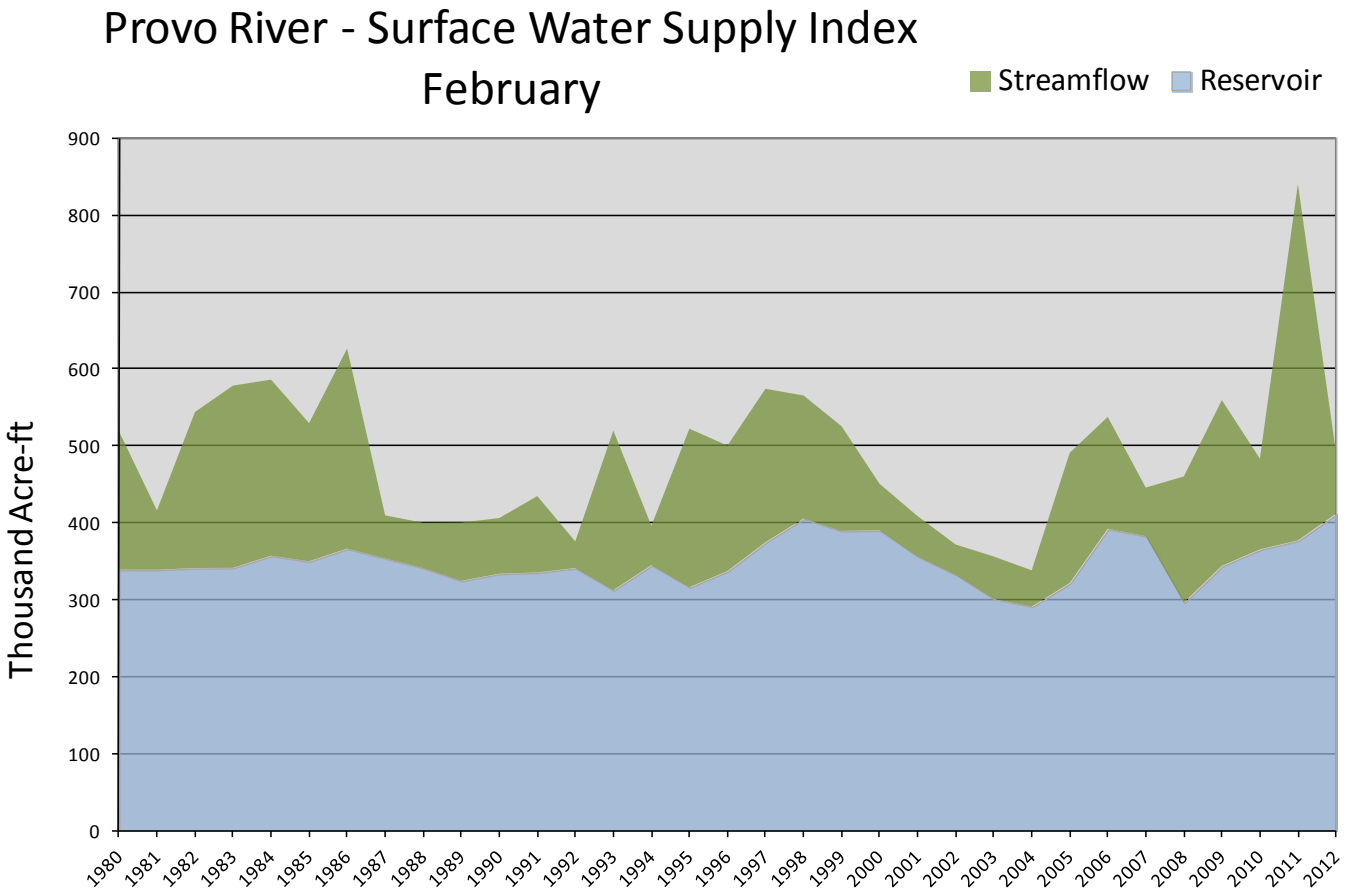




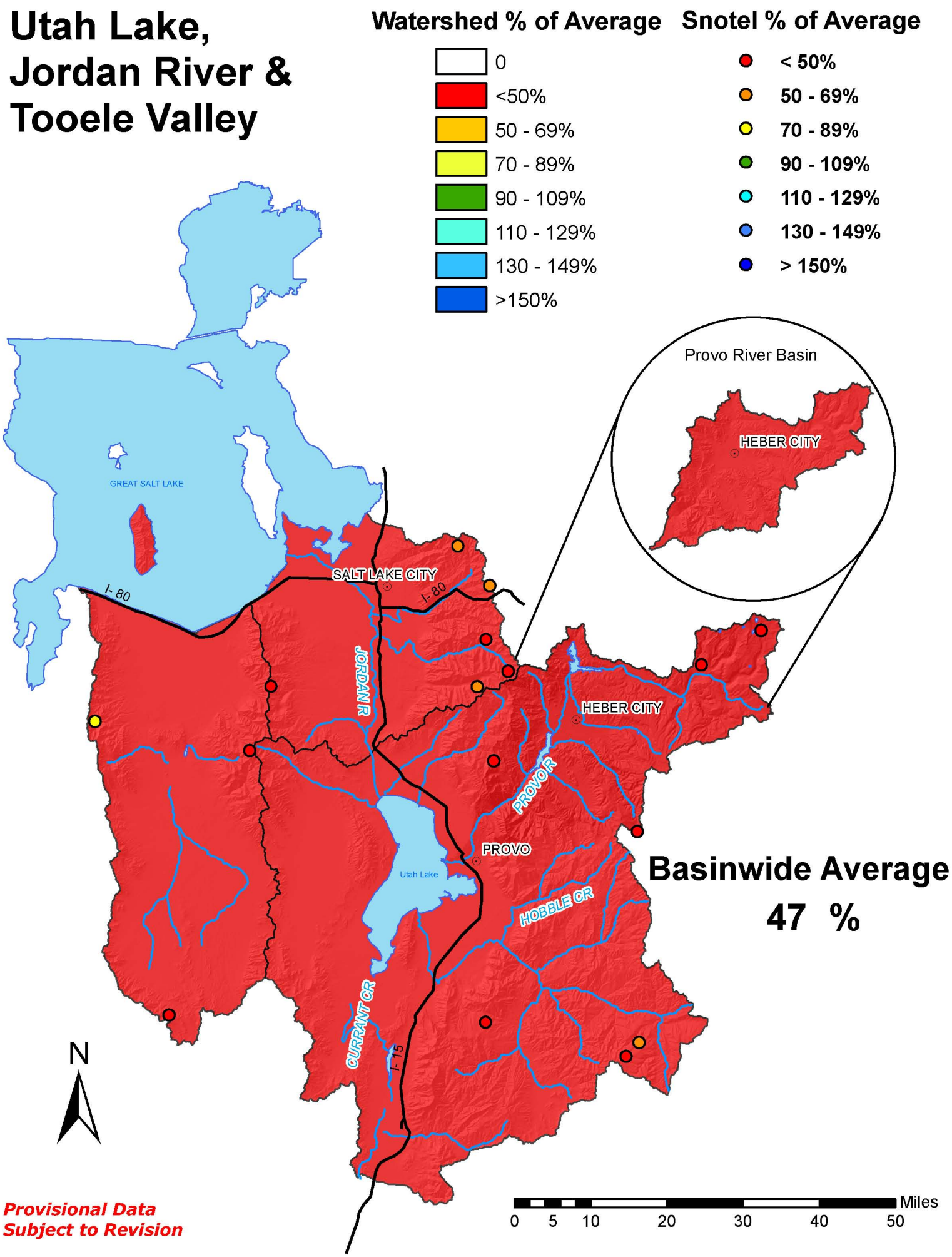


February 1, 2012	**Surface Water Supply Index**					
Basin or Region	January EOM* Deer Creek, Jordanelle	April - July Forecast Provo River below Deer Creek	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	*KAF^*	*KAF*	*KAF*		*%*	
Provo River	**411**	**80**	**491**	**0.49**	**56**	**80, 96, 05, 08**

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



Utah Lake, Jordan River & Tooele Valley



Provisional Data Subject to Revision

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY as of February 1, 2012

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Streamflow Forecasts - February 1, 2012

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Salt Ck at Nephi	APR-JUL	0.28	1.37	5.50	59	9.60	15.70	9.40
Spanish Fk at Castilla	APR-JUL	1.5	7.4	43	56	79	131	77
Provo R nr Woodland	APR-JUL	38	57	72	70	89	117	103
Provo R nr Hailstone	APR-JUL	38	57	73	67	90	120	109
Provo R bl Deer Ck Dam	APR-JUL	36	62	80	64	98	124	126
American Fk ab Upper Powerplant	APR-JUL	3.2	12.6	19.0	59	25	35	32
Utah Lake Inflow	APR-JUL	10.0	75	220	68	360	720	325
W Canyon Ck nr Cedar Fort	APR-JUL	0.07	0.47	1.00	42	1.53	2.30	2.40
L Cottonwood Ck nr SLC	APR-JUL	19.9	26	30	75	35	42	40
Big Cottonwood Ck nr SLC	APR-JUL	15.0	23	28	74	33	41	38
Mill Ck nr SLC	APR-JUL	1.17	3.40	5.00	71	6.60	8.80	7.00
Parley's Ck nr SLC	APR-JUL	2.0	7.7	11.5	69	15.3	21	16.7
Dell Fk nr SLC	APR-JUL	0.14	0.96	3.50	52	6.00	9.80	6.80
Emigration Ck nr SLC	APR-JUL	0.09	1.36	2.80	62	4.20	6.40	4.50
City Ck nr SLC	APR-JUL	1.62	4.40	6.30	72	8.20	11.00	8.70
Vernon Ck nr Vernon	APR-JUL	0.03	0.33	1.00	68	1.25	2.20	1.48
S Willow Ck nr Grantsville	APR-JUL	0.66	1.76	2.50	77	3.20	4.30	3.23

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
DEER CREEK	149.7	143.9	132.9	104.8
GRANTSVILLE	3.3	2.3	1.2	1.8
SETTLEMENT CREEK	1.0	0.9	0.5	0.6
STRAWBERRY-ENLARGED	1105.9	972.7	976.5	642.2
UTAH LAKE	870.9	914.2	820.0	790.9
VERNON CREEK	0.6	0.5	0.2	---

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Watershed Snowpack Analysis - February 1, 2012

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
PROVO RIVER & UTAH LAKE	7	39	57
PROVO RIVER	4	36	56
JORDAN RIVER & GSL	6	52	69
TOOELE & RUSH VALLEY WATE	3	36	62
UTAH LAKE/JORDAN R./TOOEL	16	44	63

* 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.

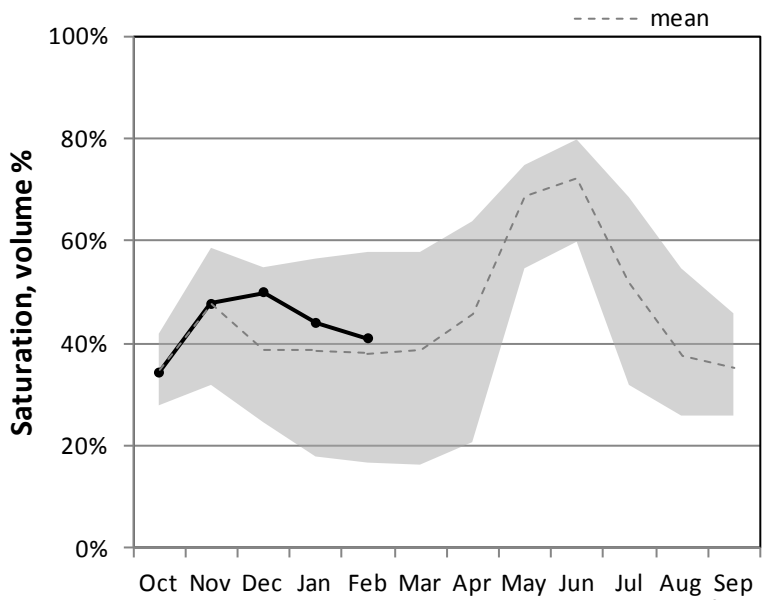
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

Uintah Basin and Dagget SCDs

February 1, 2012

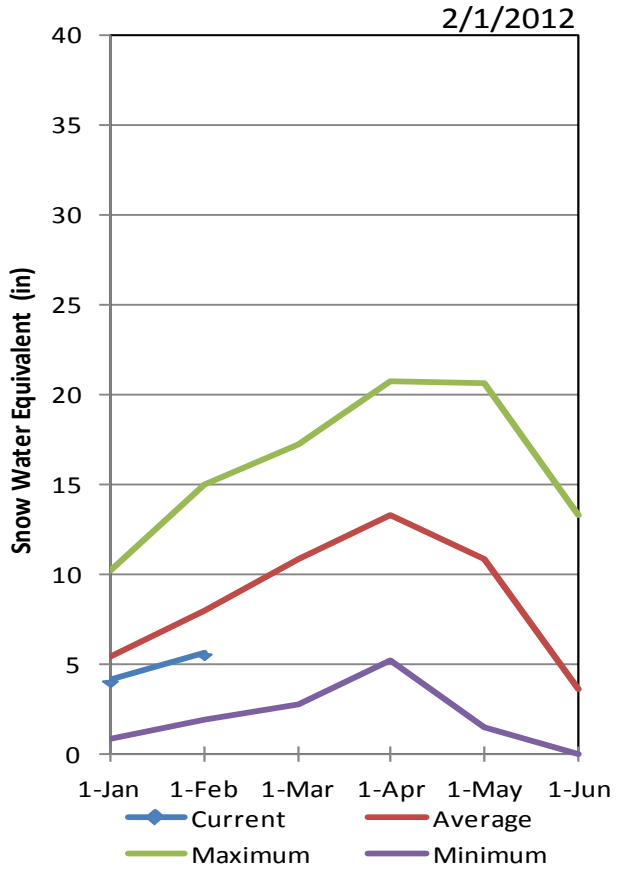
Snowpack across the Uintas is below average at 71% which is 47% of last year. Individual sites on the North Slope range from 53% to 125% and on the South Slope range from 39% to 94% of average. Precipitation during January was much below average at 63% bringing the seasonal accumulation (Oct-Jan) to 92%. Soil moisture values in runoff producing area are at 41% of saturation in the upper 2 feet of soil compared to 56% last year. Reservoir storage is at 87% of capacity, 3% higher than last year. Streamflow forecasts (April-July) range from 51% to 89% of average. The Surface Water Supply Index for the western area is 47% and for the eastern area it is 50% indicating normal conditions on the west side and eastern area due to high reservoir storage.

Uintah Basin Soil Moisture

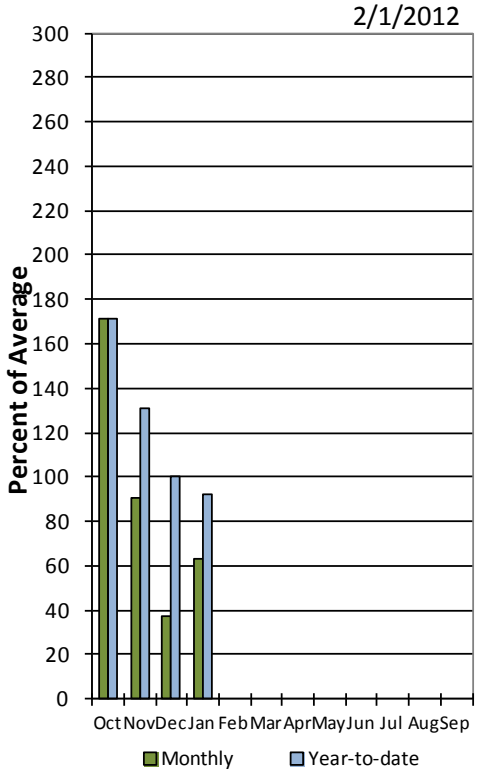


Percent saturation is calculated using the weighted average of volumetric soil moisture content at 2, 8, and 20-inch depths. Saturation is estimated as 40% volumetric water content. The gray area represents the range in saturation values since 2005.

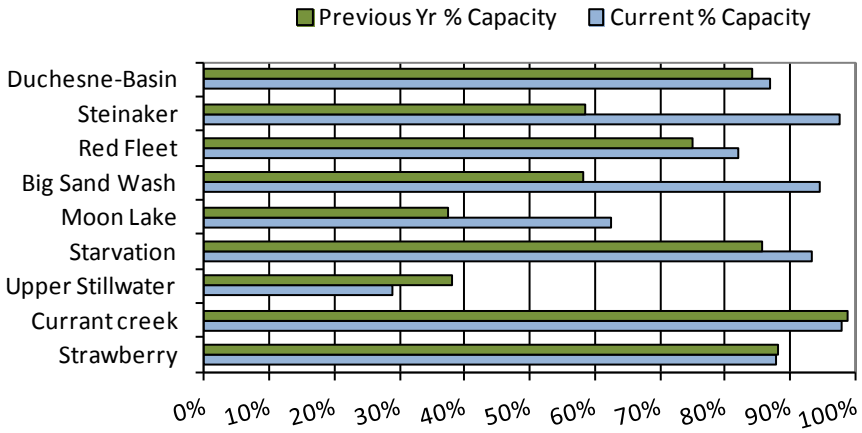
Uinta Snowpack



Uintah Precipitation



February Uintah Basin Reservoir Storage

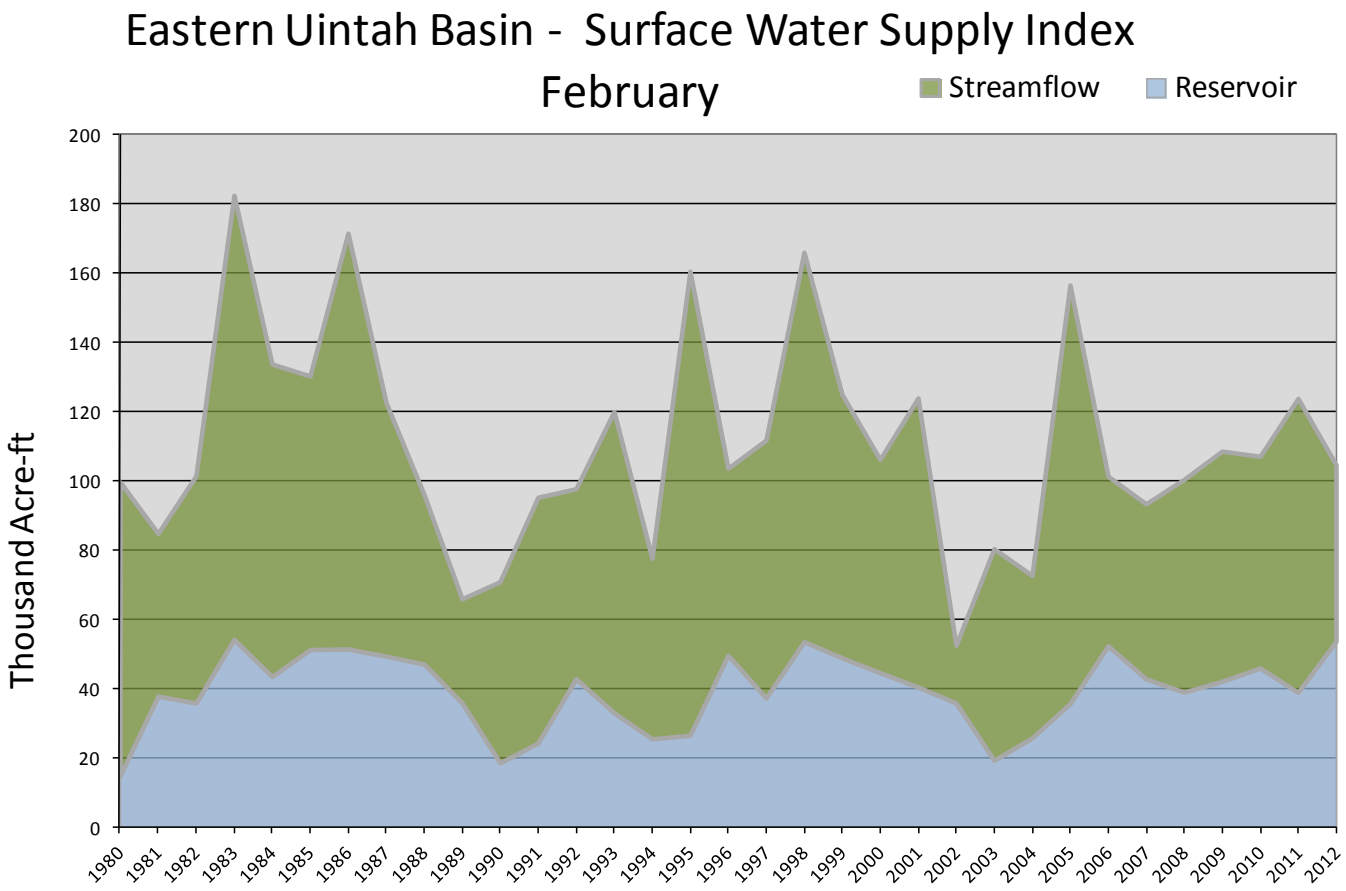


February 1, 2012

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	**53.7**	**51.0**	**105**	**0.00**	**50**	**82, 96, 00, 10**

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

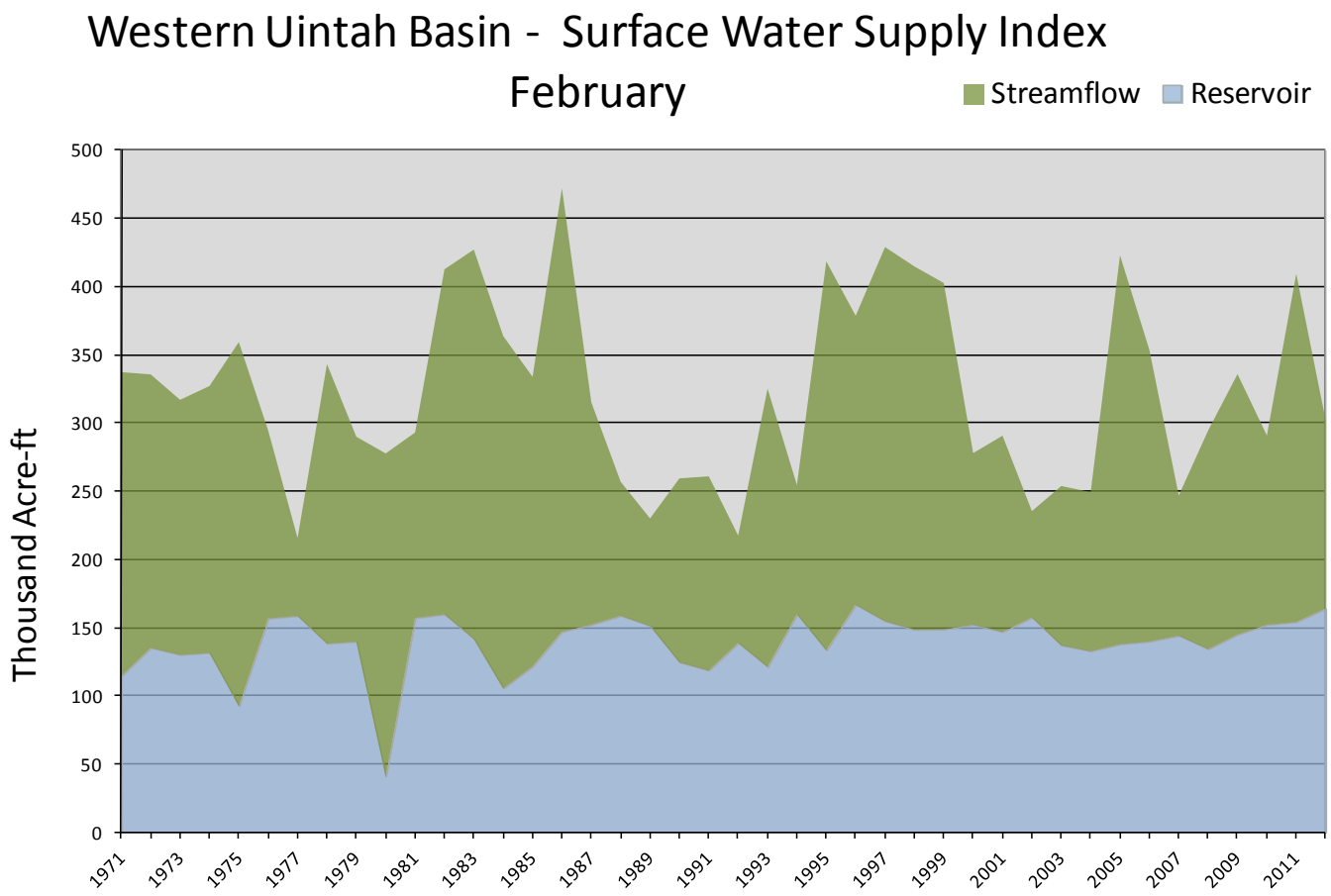


February 1, 2012

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
	*KAF^*	*KAF*	*KAF*		*%*	
Western Uintah	**164**	**138**	**302**	**-0.29**	**47**	**76, 08, 87, 73**

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



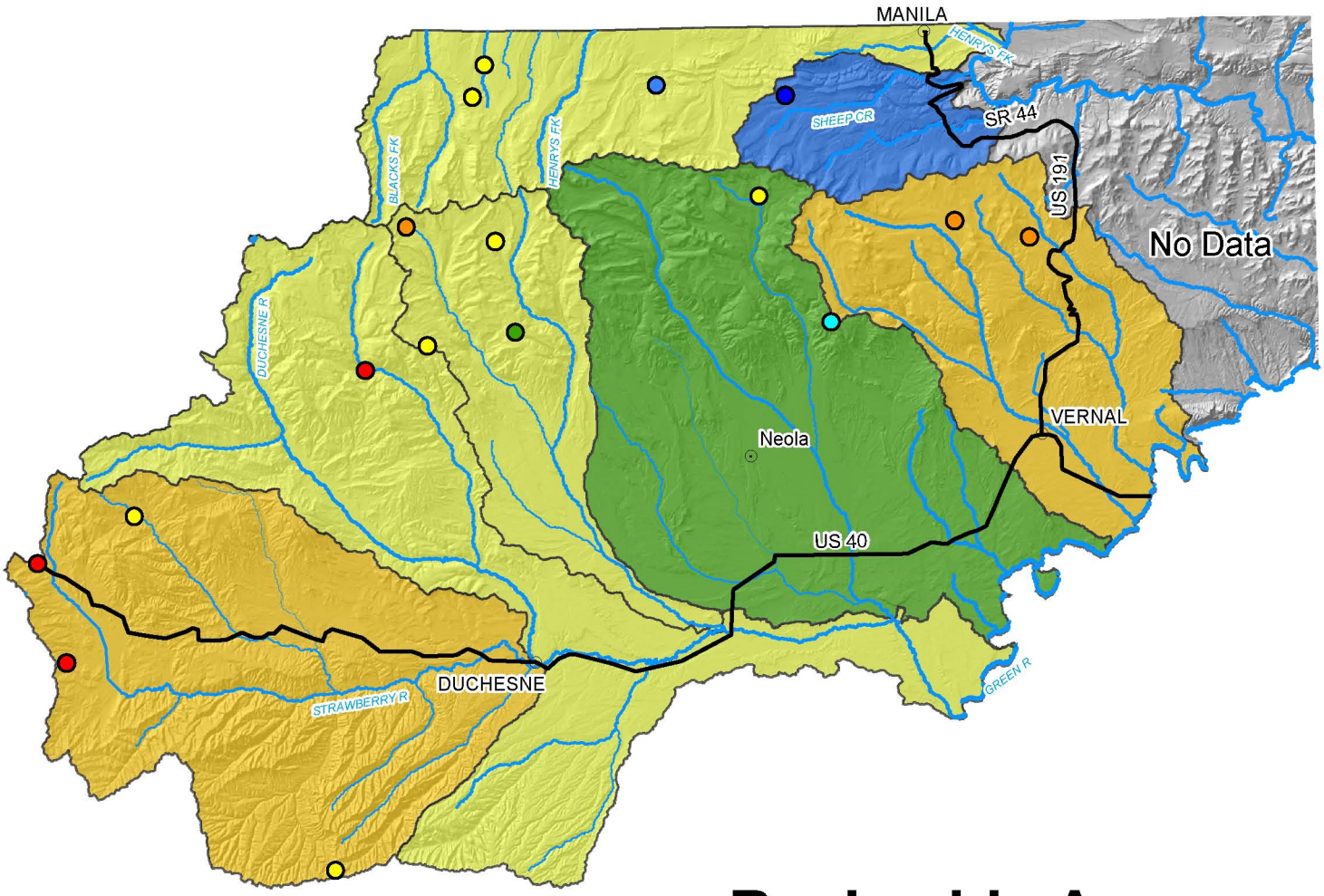
Uintah Basin & Dagget SCD's

Watershed % of Average

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

Snotel % of Average

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



Basinwide Average
75 %

Provisional Data
Subject to Revision

Miles
0 5 10 20 30 40 50

UINTAH BASIN & DAGGET SCD'S as of February 1, 2012

UINTAH BASIN & DAGGET SCD'S
Streamflow Forecasts - February 1, 2012

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Blacks Fk nr Robertson	APR-JUL	45	59	70	74	82	100	95
EF of Smiths Fork nr Robertson (2)	APR-JUL	11.5	16.3	20	69	24	31	29
Flaming Gorge Reservoir Inflow (2)	APR-JUL	500	715	880	74	1060	1370	1190
Big Brush Ck ab Red Fleet Reservoir	APR-JUL	9.7	13.2	16.0	76	19.0	24	21
Ashley Ck nr Vernal	APR-JUL	19.8	28	35	67	42	55	52
WF Duchesne R at VAT Diversion	APR-JUL	6.2	9.4	12.0	64	14.9	19.6	18.7
Duchesne R nr Tabiona (2)	APR-JUL	44	60	73	70	87	109	105
Upper Stillwater Reservoir Inflow (2	APR-JUL	38	48	55	67	63	75	82
Rock Ck nr Mountain Home (2)	APR-JUL	45	56	65	73	74	89	89
Duchesne R ab Knight Diversion (2)	APR-JUL	86	114	135	72	158	194	188
Strawberry R nr Soldier Springs (2)	APR-JUL	11.9	22	30	51	40	56	59
Currant Ck Reservoir Inflow (2)	APR-JUL	3.3	6.8	10.0	58	13.8	18.0	17.3
Strawberry R nr Duchesne (2)	APR-JUL	24	43	60	50	79	112	121
Lake Fork R ab Moon Lake Reservoir	APR-JUL	36	45	52	77	59	71	68
Yellowstone R nr Altonah	APR-JUL	32	42	49	79	57	70	62
Duchesne R at Myton (2)	APR-JUL	80	145	200	63	265	375	320
Uinta R bl Powerplant Diversion nr N	APR-JUL	40	47	66	84	85	100	79
Whiterocks R nr Whiterocks	APR-JUL	31	42	50	89	59	74	56
Duchesne R nr Randlett (2)	APR-JUL	110	164	240	63	330	490	380

UINTAH BASIN & DAGGET SCD'S
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
FLAMING GORGE	3749.0	3344.0	3111.0	2966.0
MOON LAKE	49.5	22.4	13.4	27.9
RED FLEET	25.7	21.1	19.3	18.0
STEINAKER	33.4	32.6	19.6	21.6
STARVATION	165.3	154.5	141.7	132.3
STRAWBERRY-ENLARGED	1105.9	972.7	976.5	642.2

UINTAH BASIN & DAGGET SCD'S
Watershed Snowpack Analysis - February 1, 2012

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER GREEN RIVER in UTAH	6	67	80
ASHLEY CREEK	2	41	54
BLACK'S FORK RIVER	2	66	78
SHEEP CREEK	1	87	125
DUCHESNE RIVER	11	41	67
LAKE FORK-YELLOWSTONE CRE	4	42	74
STRAWBERRY RIVER	4	35	54
UINTAH-WHITEROCKS RIVERS	2	56	88
UINTAH BASIN & DAGGET SCD	17	47	70

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

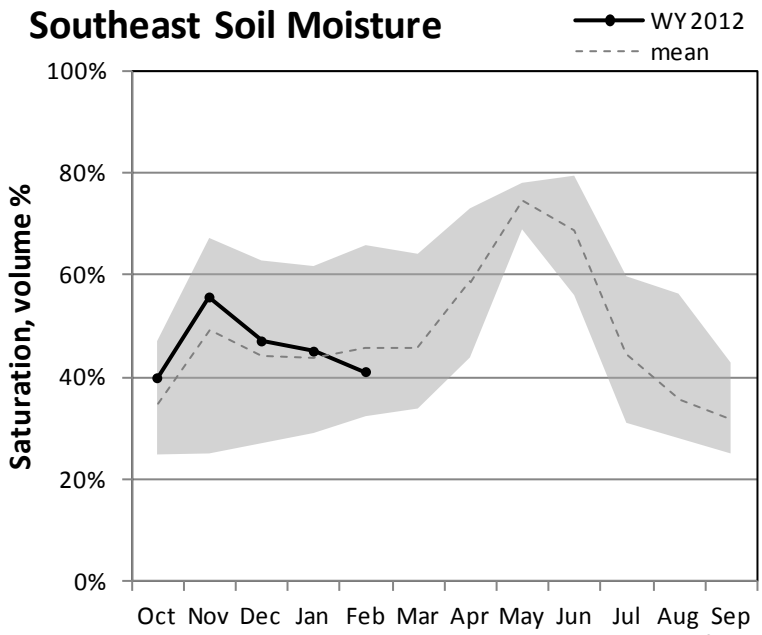
The average is computed for the 1971-2000 base period.

(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.

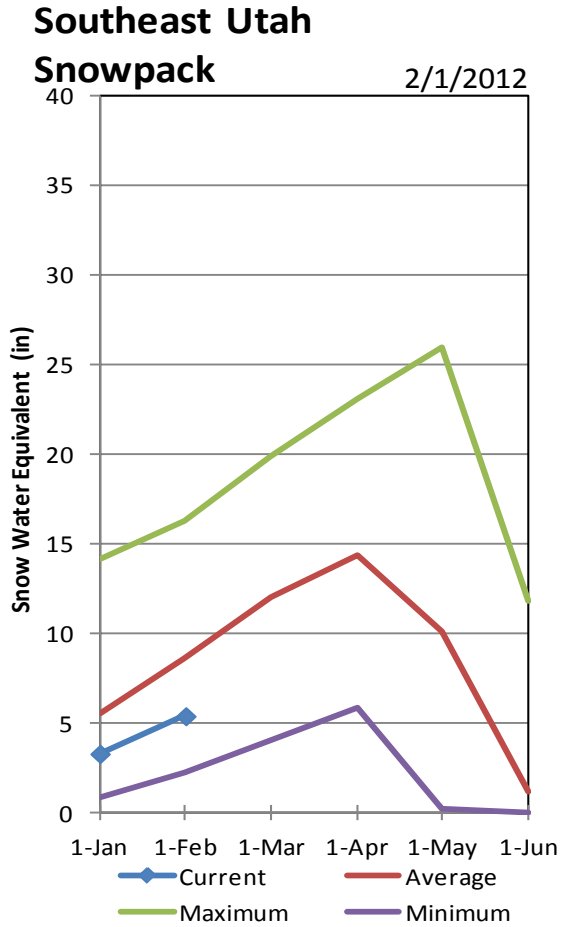
Southeast - Carbon, Emery, Wayne, Grand and San Juan Counties

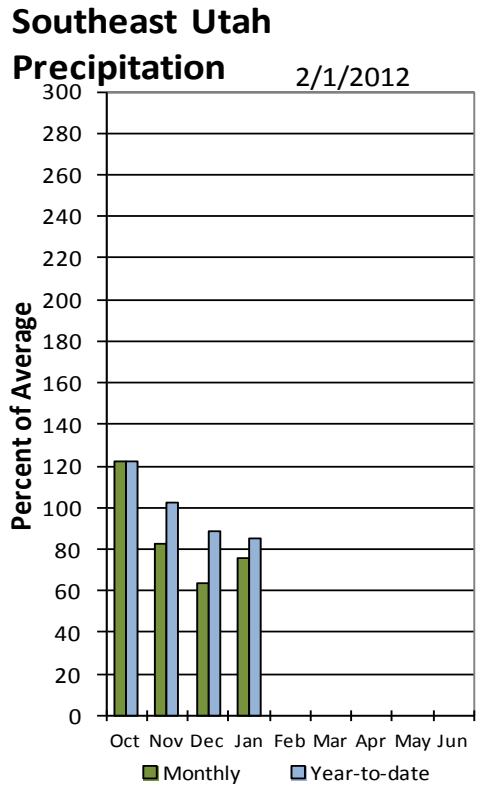
February 1, 2012

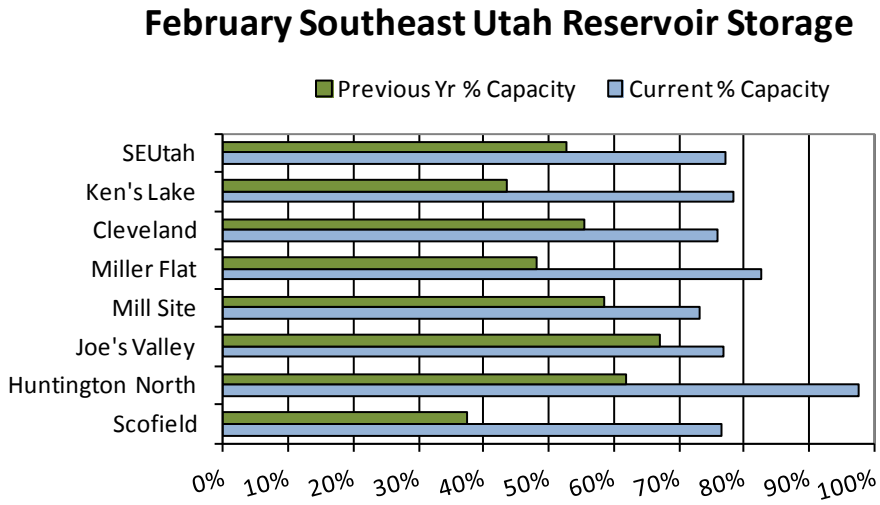
Snowpacks in this region are much below normal at 65% of average, 48% of last year. Individual sites range from 41% at Seeley Creek Snotel to 102% of average at Donkey Reservoir Snotel. Precipitation during January was below average at 76%, bringing the seasonal accumulation (Oct-Jan) to 85% of normal. Soil moisture estimates in runoff producing areas are at 41% of saturation in the upper 2 feet of soil, compared to 66% last year at this time. Forecast streamflows (April-July) range from 48% to 83% of average. Reservoir storage is at 77% of capacity, 24% higher than last year at this time. Surface Water Supply Indices for the area are: Price 59%, Joe's Valley 44%, Ferron Creek 44%, and Moab 62%. General runoff conditions are much below average while Surface Water Supply Indices are near average in the Price, Joe's Valley, Ferron Creek areas, and Moab area due to high reservoir storage.



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.





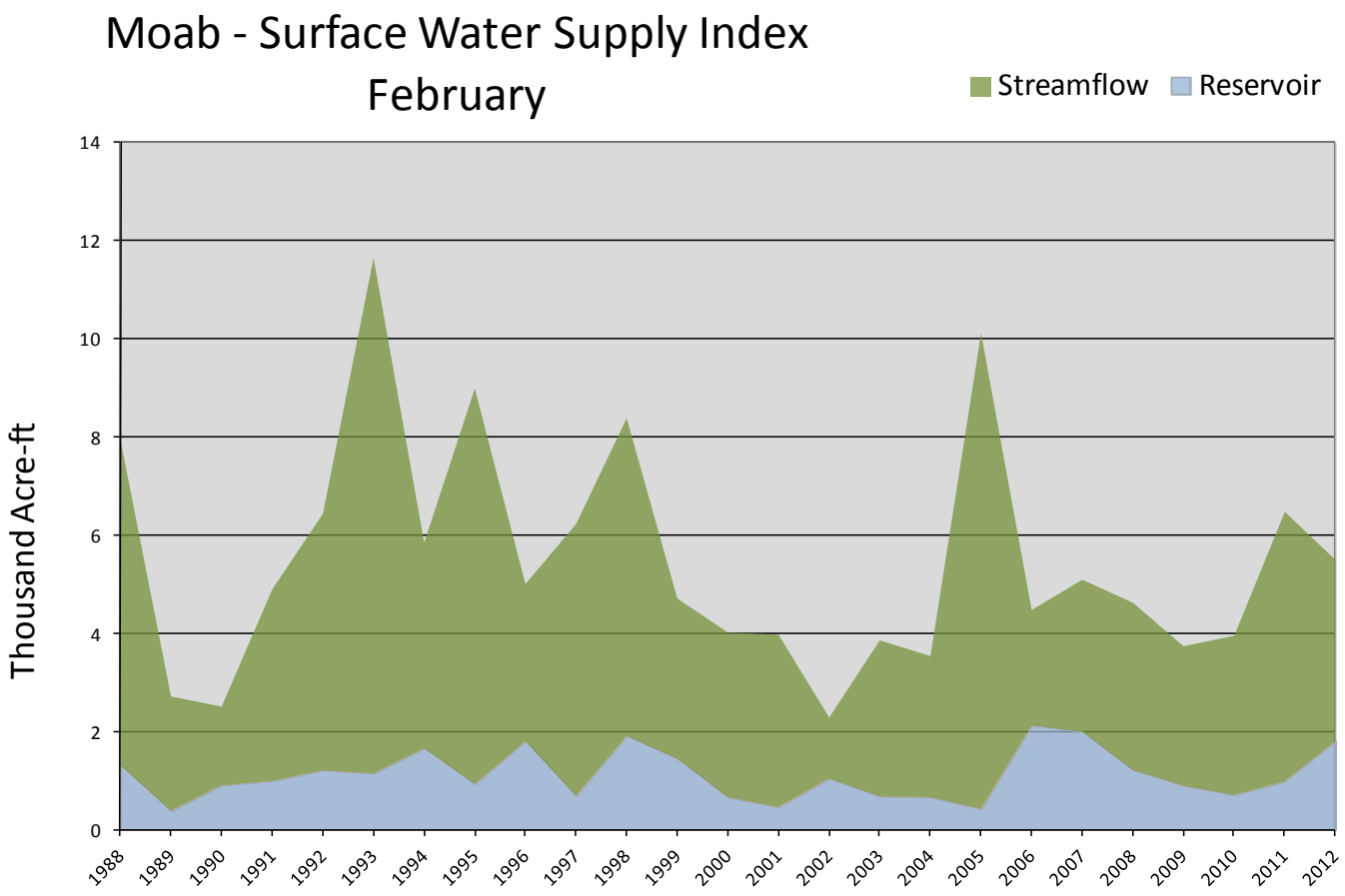


February 1, 2012

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
	*KAF^*	*KAF*	*KAF*		*%*	
Moab	**1.8**	**3.7**	**5.5**	**0.96**	**62**	**96 ,07, 94, 97**

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

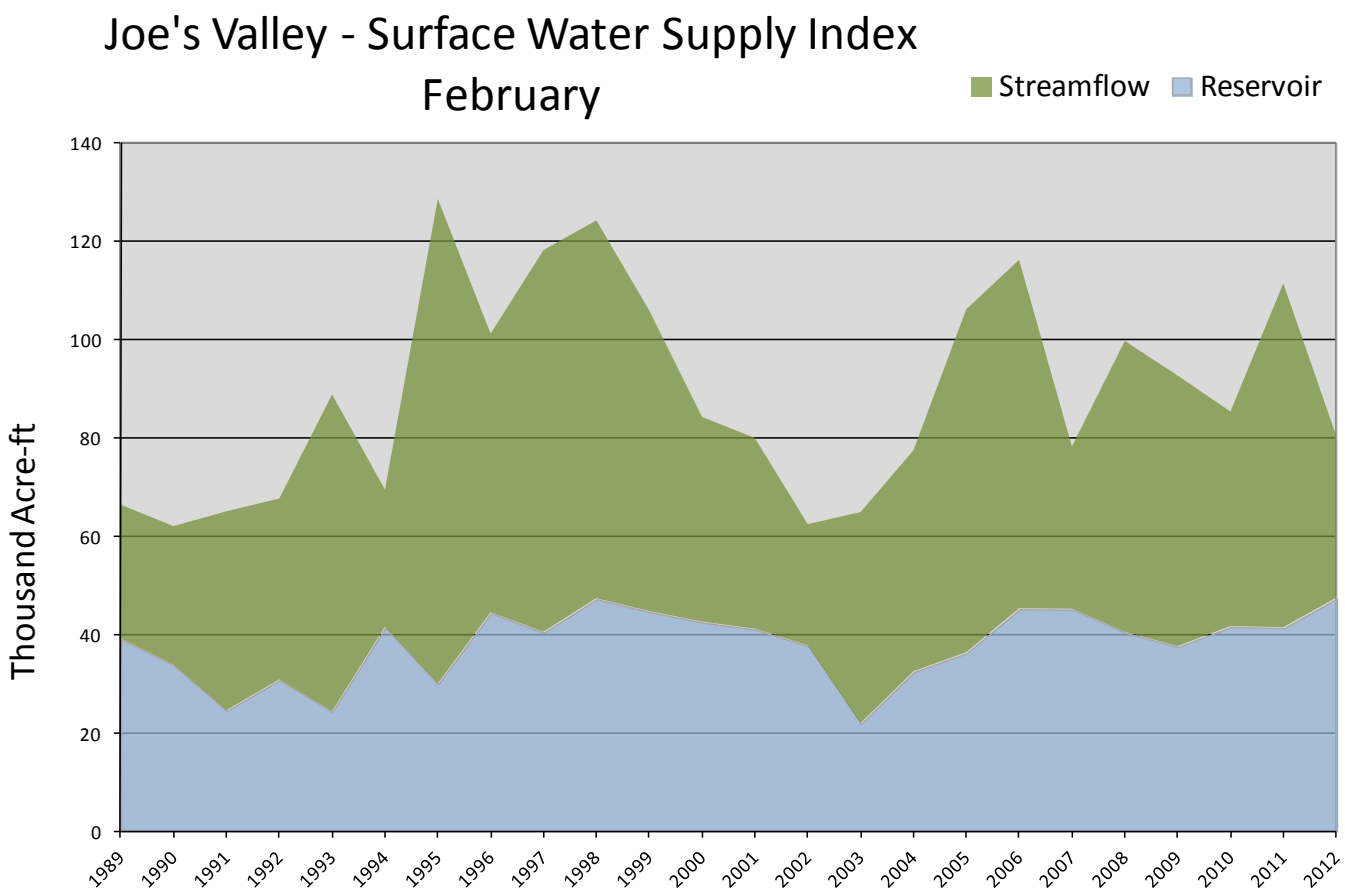


February 1, 2012

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	**47.4**	**33.0**	**80.4**	**-0.50**	**44**	**07, 01, 00, 10**

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

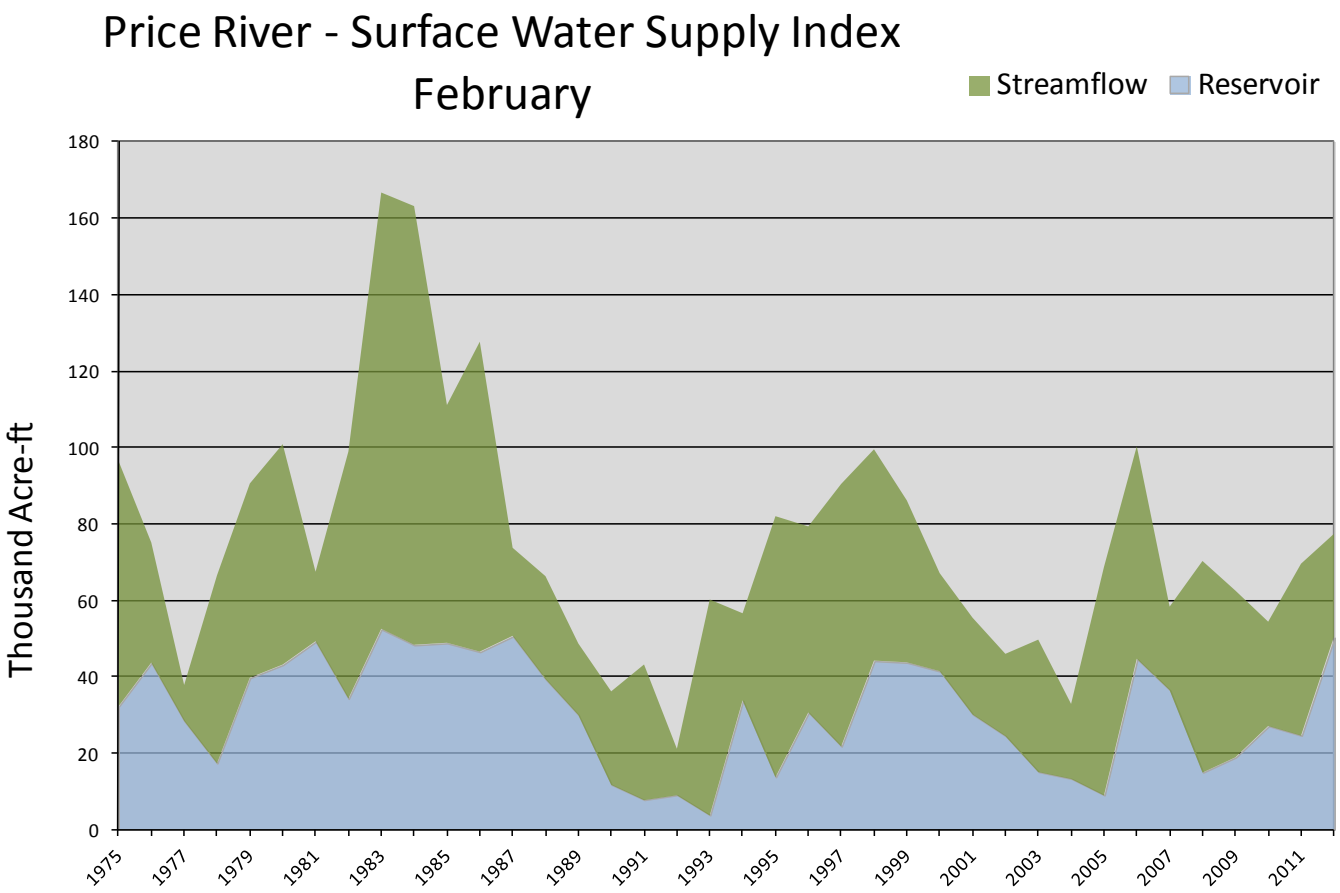


February 1, 2012

Surface Water Supply Index

Basin or Region	January EOM* Scofield Reservoir	April-July Forecast @ Scofield	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	*KAF^*	*KAF*	*KAF*		*%*	
Price River	**50.4**	**27.0**	**77.4**	**0.75**	**59**	**87, 76, 96, 95**

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

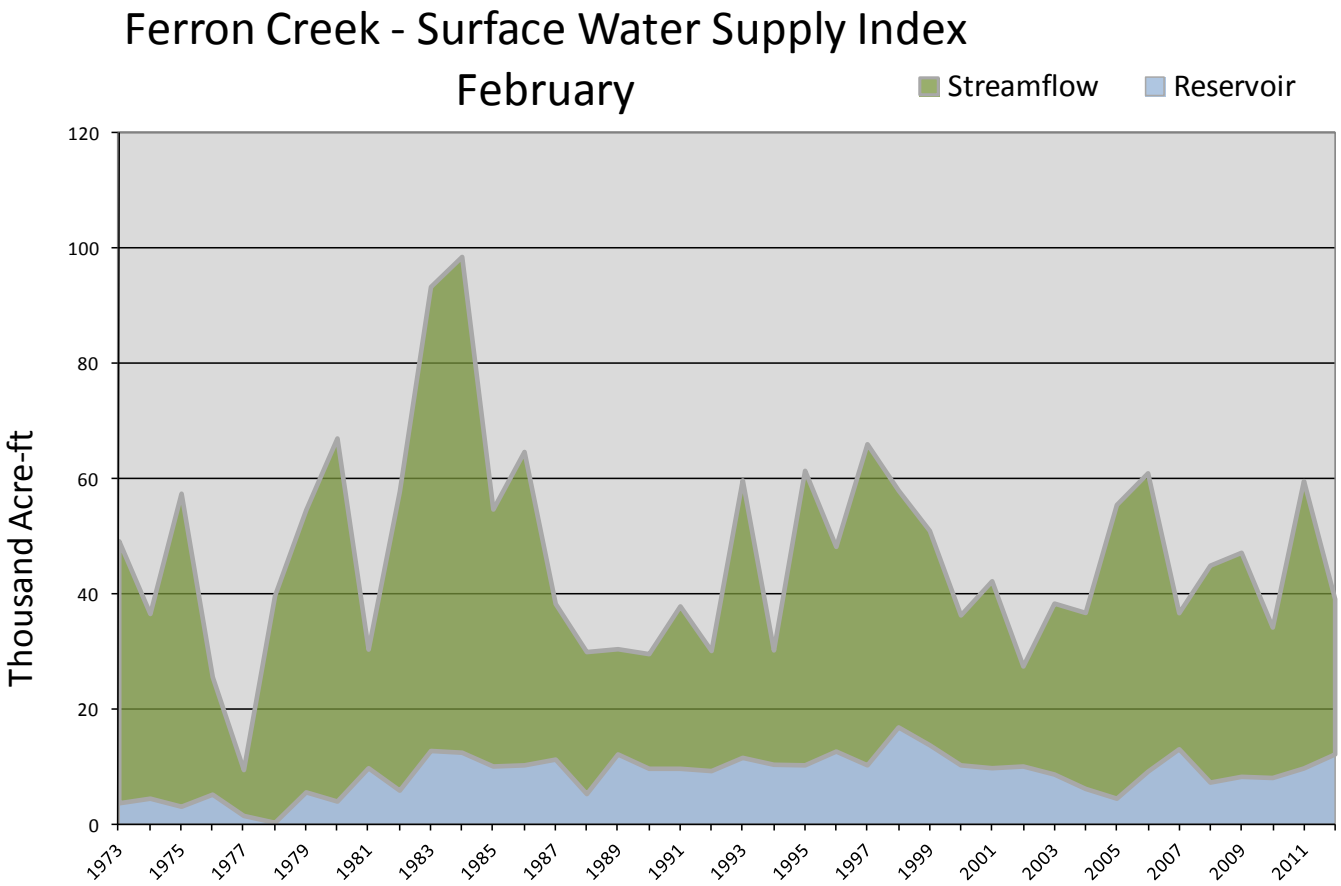


February 1, 2012

Surface Water Supply Index

Basin or Region	January EOM* Millsite Reservoir	April-July Forecast Ferron creek	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	*KAF^*	*KAF*	*KAF*		*%*	
Ferron Creek	**12.2**	**27.0**	**39.2**	**-0.51**	**44**	**87, 03, 78, 01**

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



Carbon, Emery, Wayne Grand & San Juan Basins

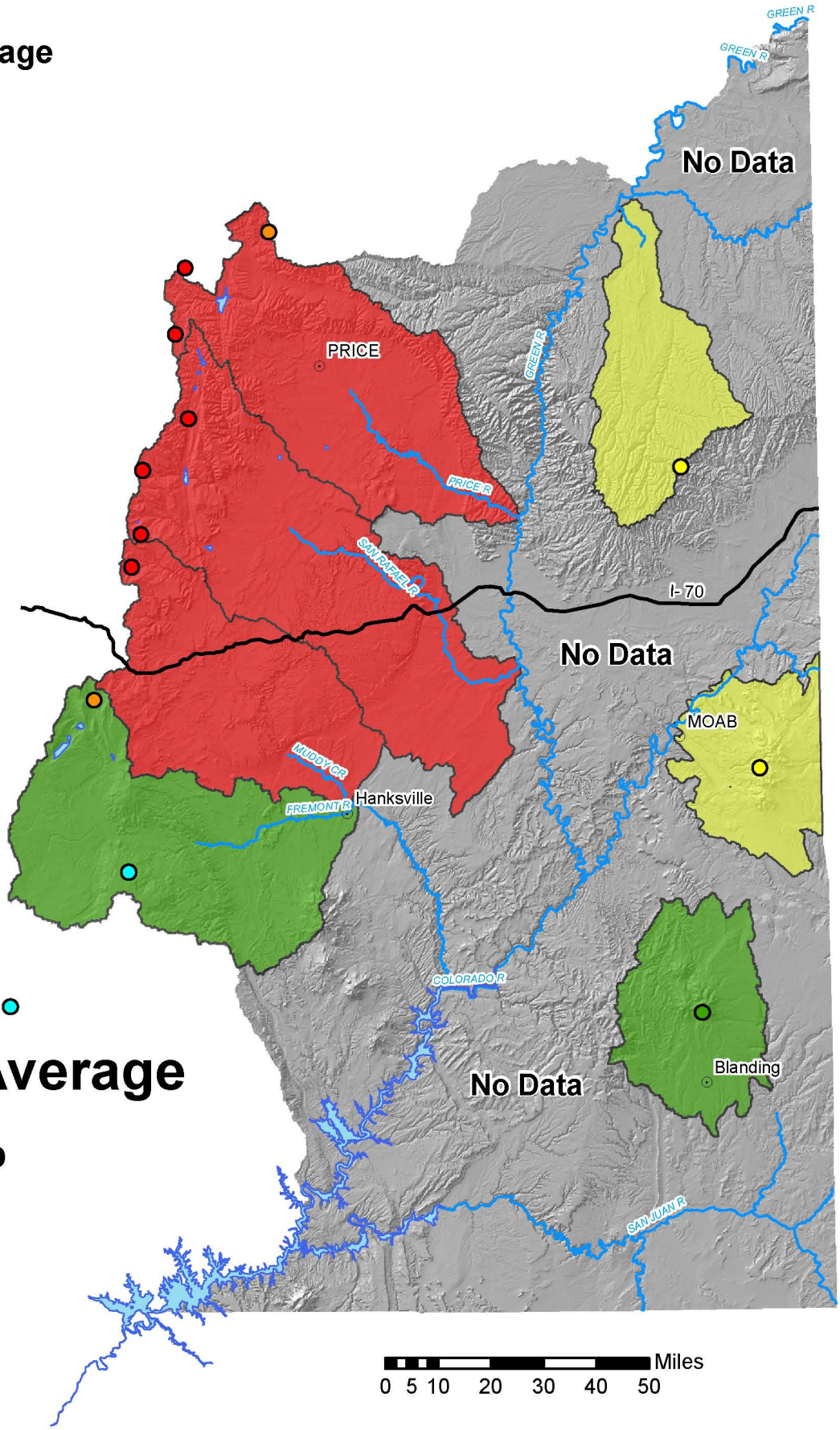
N

Watershed % of Average

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

Snotel % of Average

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



Basinwide Average

60 %

Provisional Data Subject to Revision

Miles

0 5 10 20 30 40 50

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Streamflow Forecasts - February 1, 2012

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Fish Creek ab Reservoir nr Scofield	APR-JUL	4.5	13.7	20	62	26	36	32
Price R nr Scofield Reservoir (2)	APR-JUL	15.8	22	27	60	33	43	45
White R bl Tabbyune Ck	APR-JUL	5.3	7.9	10.0	58	12.3	16.2	17.3
Green R at Green River, UT (2)	APR-JUL	1170	1740	2200	69	2710	3560	3170
Electric Lake Inflow (2)	APR-JUL	3.8	5.8	7.5	48	9.4	12.4	15.7
Huntington Ck nr Huntington (2)	APR-JUL	13.3	20	26	53	32	43	49
Joe's Valley Reservoir Inflow (2)	APR-JUL	17.5	26	33	57	41	53	58
Ferron Ck (Upper Station) nr Ferron	APR-JUL	16.4	22	27	69	32	40	39
Seven Mile Ck nr Fish Lake	APR-JUL	1.81	4.20	5.80	83	7.40	9.80	7.00
Colorado R nr Cisco (2)	APR-JUL	1950	2530	3150	68	3840	4980	4650
Mill Ck at Sheley Tunnel nr Moab	APR-JUL	1.98	2.90	3.70	74	4.60	6.20	5.00
Muddy Ck nr Emery	APR-JUL	6.1	9.4	12.0	60	15.0	19.9	19.9
Pine Ck nr Escalante	APR-JUL	0.36	0.97	1.55	65	2.30	3.60	2.40
South Ck ab Lloyd's Res nr Monticell	MAR-JUL	0.36	0.63	0.88	64	1.19	1.76	1.38
San Juan R nr Bluff (2)	APR-JUL	555	755	910	74	1080	1350	1230

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
HUNTINGTON NORTH	4.2	4.1	2.6	2.8
JOE'S VALLEY	61.6	47.4	42.5	41.2
KEN'S LAKE	2.3	1.8	1.0	1.1
MILL SITE	16.7	12.2	9.8	7.8
SCOFIELD	65.8	50.4	24.9	33.8

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Watershed Snowpack Analysis - February 1, 2012

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
PRICE RIVER	3	38	54
SAN RAFAEL RIVER	3	39	47
MUDDY CREEK	1	40	60
FREMONT RIVER	3	77	83
LASAL MOUNTAINS	1	72	77
BLUE MOUNTAINS	1	56	89
WILLOW CREEK	1	39	69
SOUTHEASTERN UTAH	13	46	62

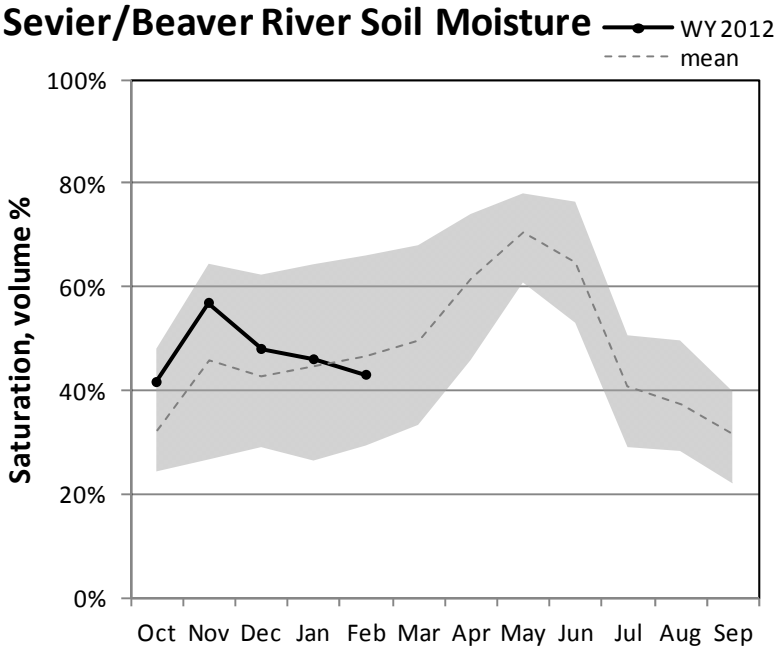
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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

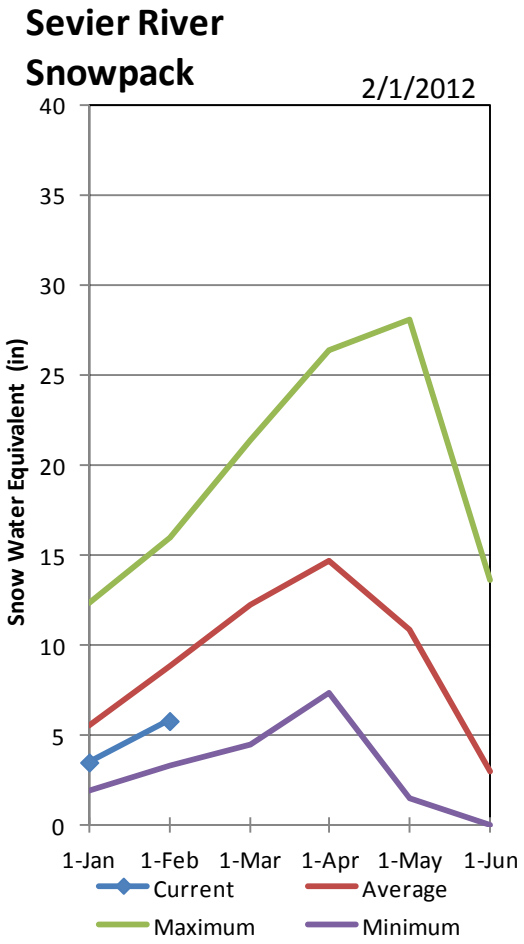
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

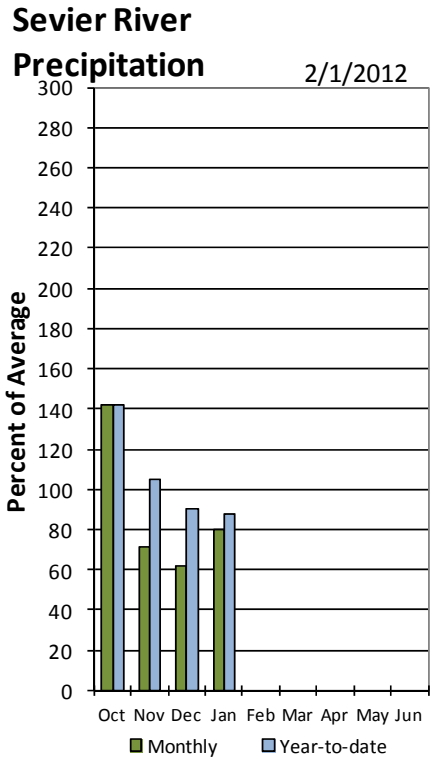
Sevier and Beaver River Basins
February 1, 2012

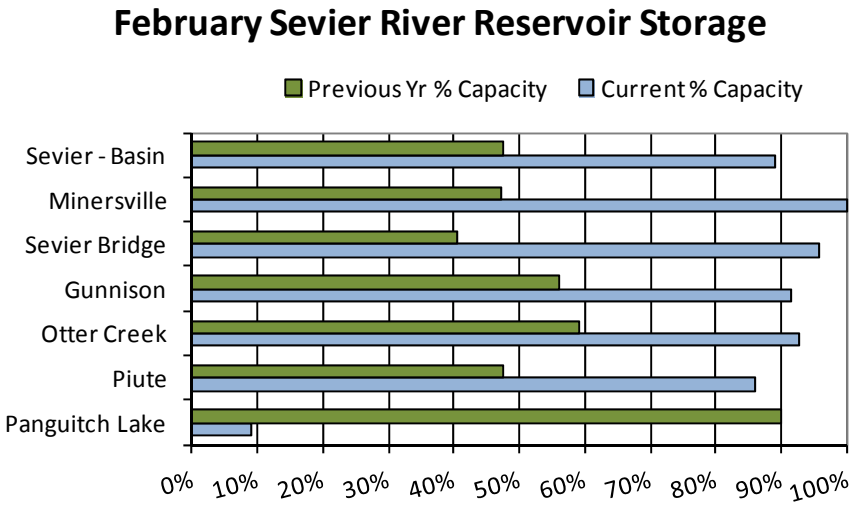
Snowpacks on the Sevier River Basin are much below normal at 65% of average, less than half of last year's figure. Individual sites range from 46% at Box Creek to 89% of average at Farnsworth Lake. Precipitation during January was below average at 80% of normal, bringing the seasonal accumulation (Oct-Jan) to 88% of average. Soil moisture estimates in runoff producing areas are at 43% of saturation in the upper 2 feet of soil compared to 63% last year. Streamflow forecasts range from 46% to 83% of average. Reservoir storage is at 89% of capacity, 46% more than last year. Surface Water Supply Indices are: Upper Sevier 56%, Lower Sevier 77% and Beaver 42%. Runoff conditions are below to much below normal mitigated by exceptional reservoir storage.



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.





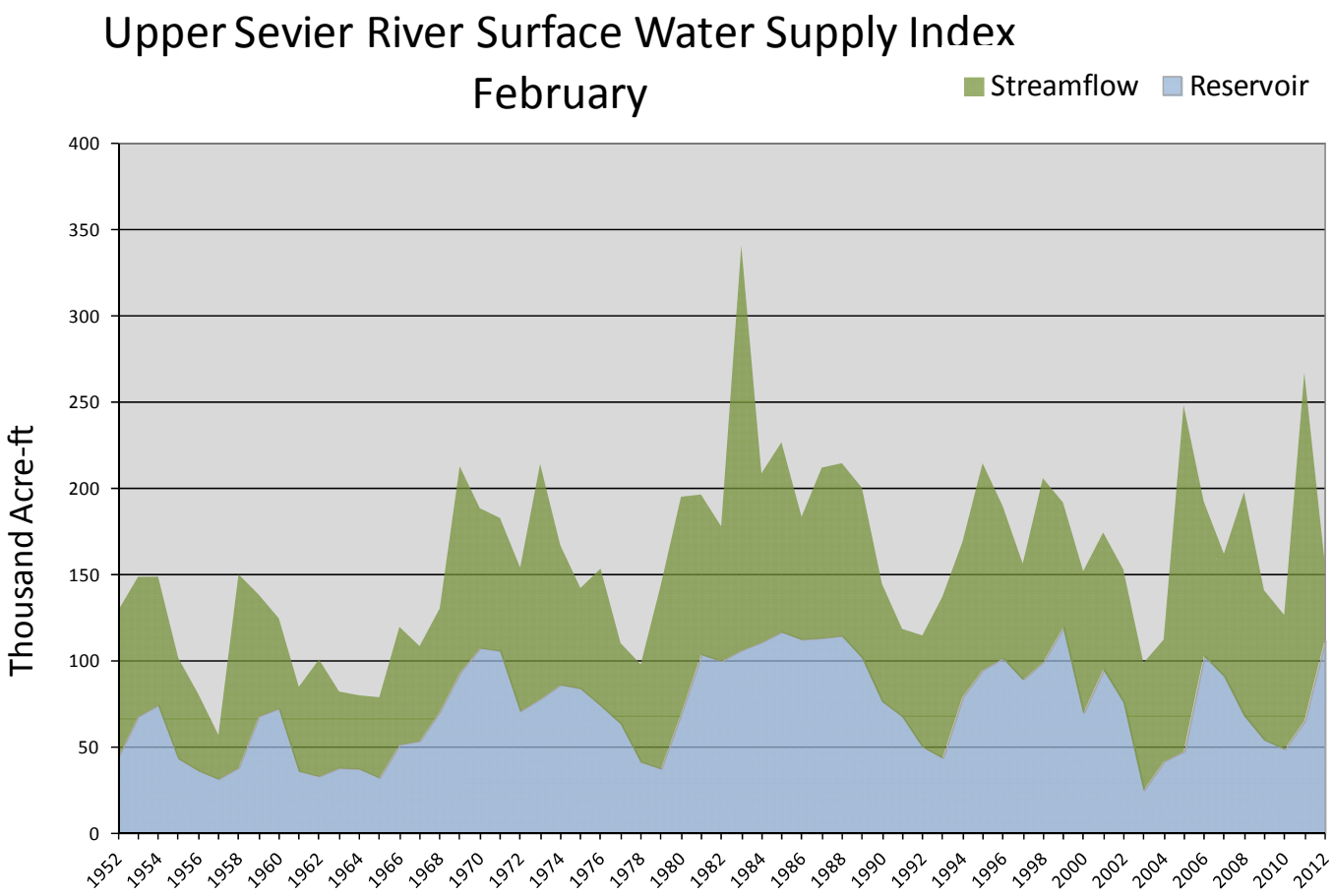


February 1, 2012

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
	*KAF^*	*KAF*	*KAF*		*%*	
Upper Sevier	**111.4**	**47**	**158**	**0.54**	**56**	**72,97,07,74**

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

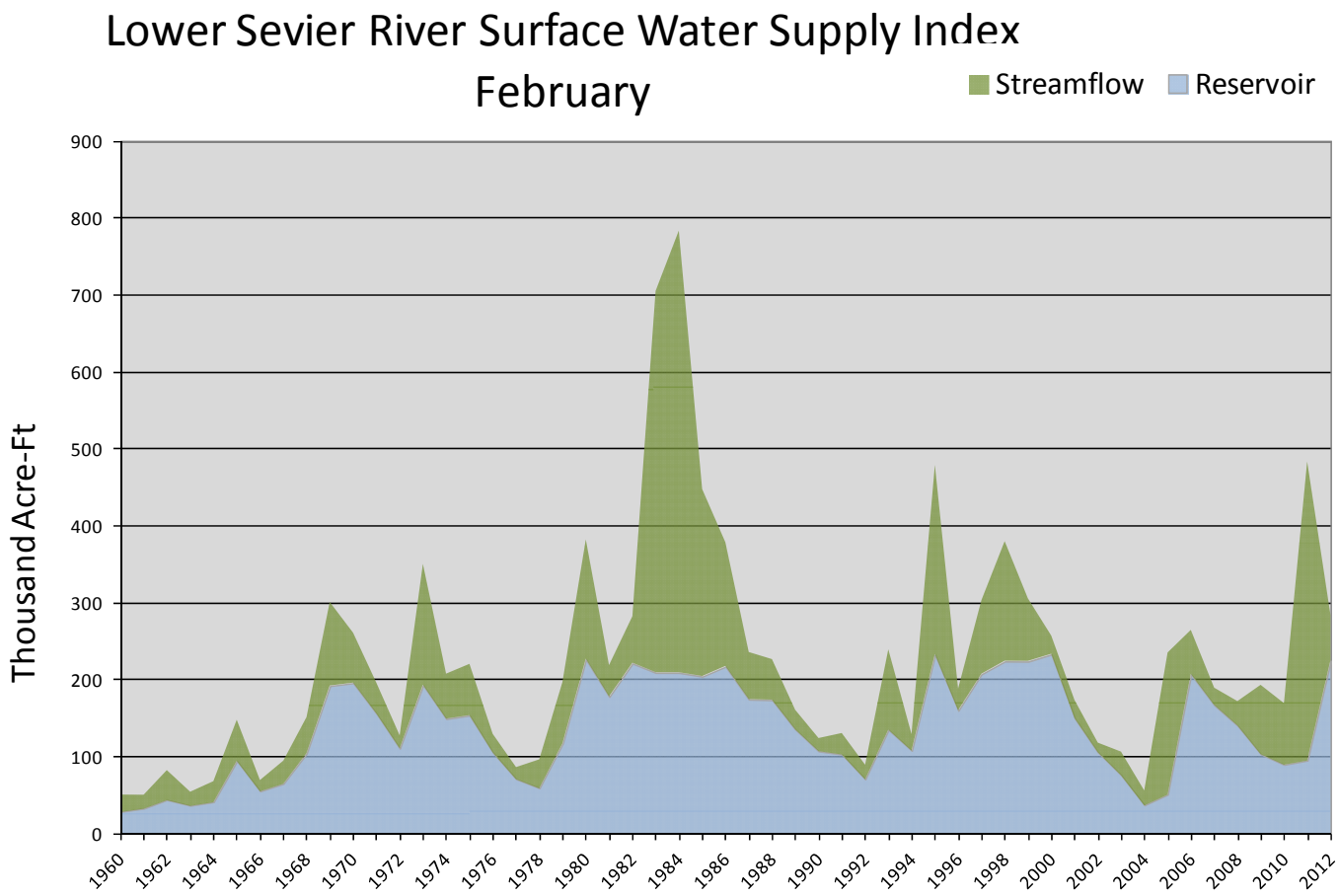


February 1, 2012

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
	*KAF^*	*KAF*	*KAF*		*%*	
Lower Sevier	**225.9**	**58**	**284**	**2.28**	**77**	**06,82,69,97**

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

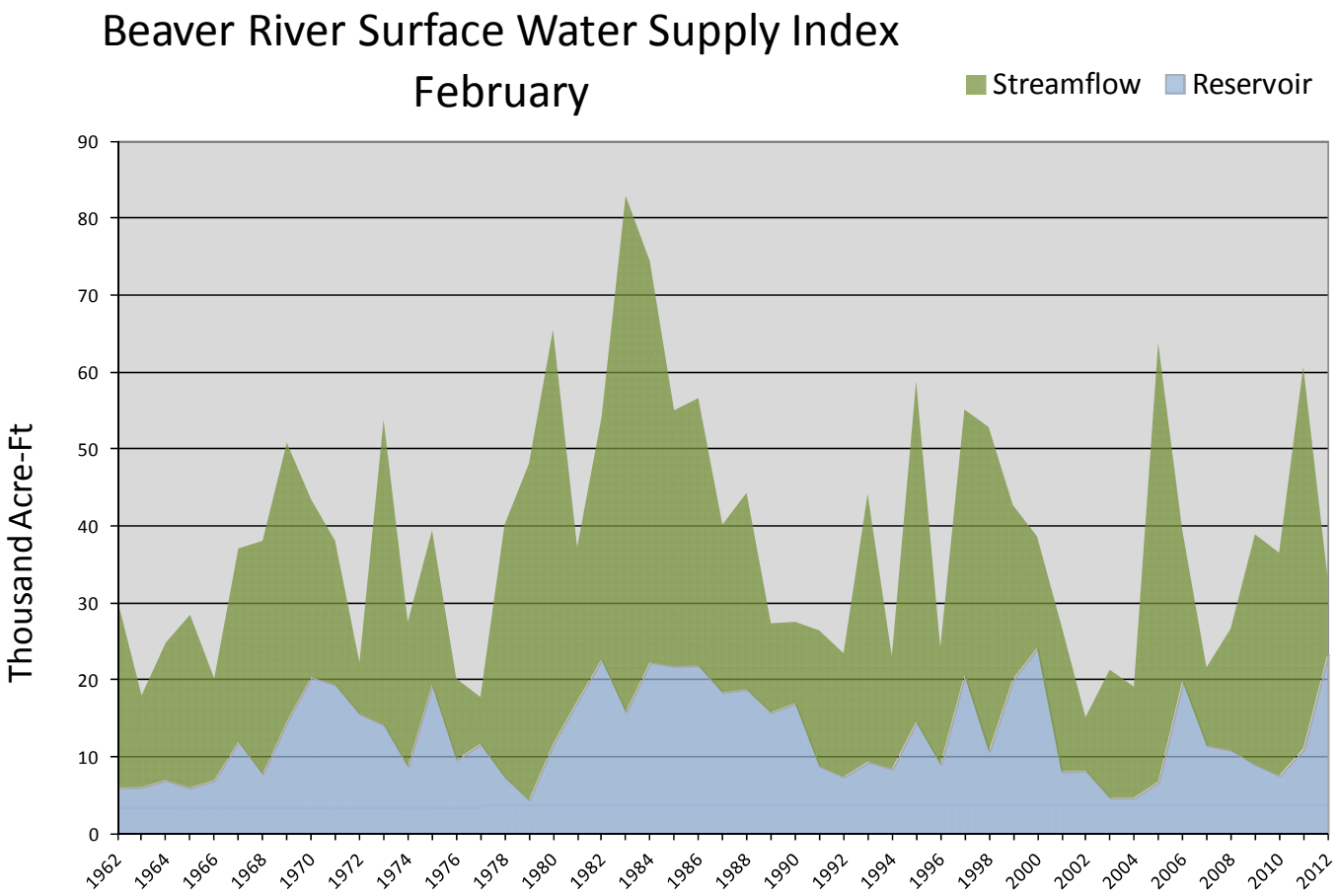


February 1, 2012

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
	*KAF^*	*KAF*	*KAF*		*%*	
Beaver	**23.3**	**10.0**	**33.3**	**-0.64**	**42**	**65,62,67,81**

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



Sevier & Beaver Basins

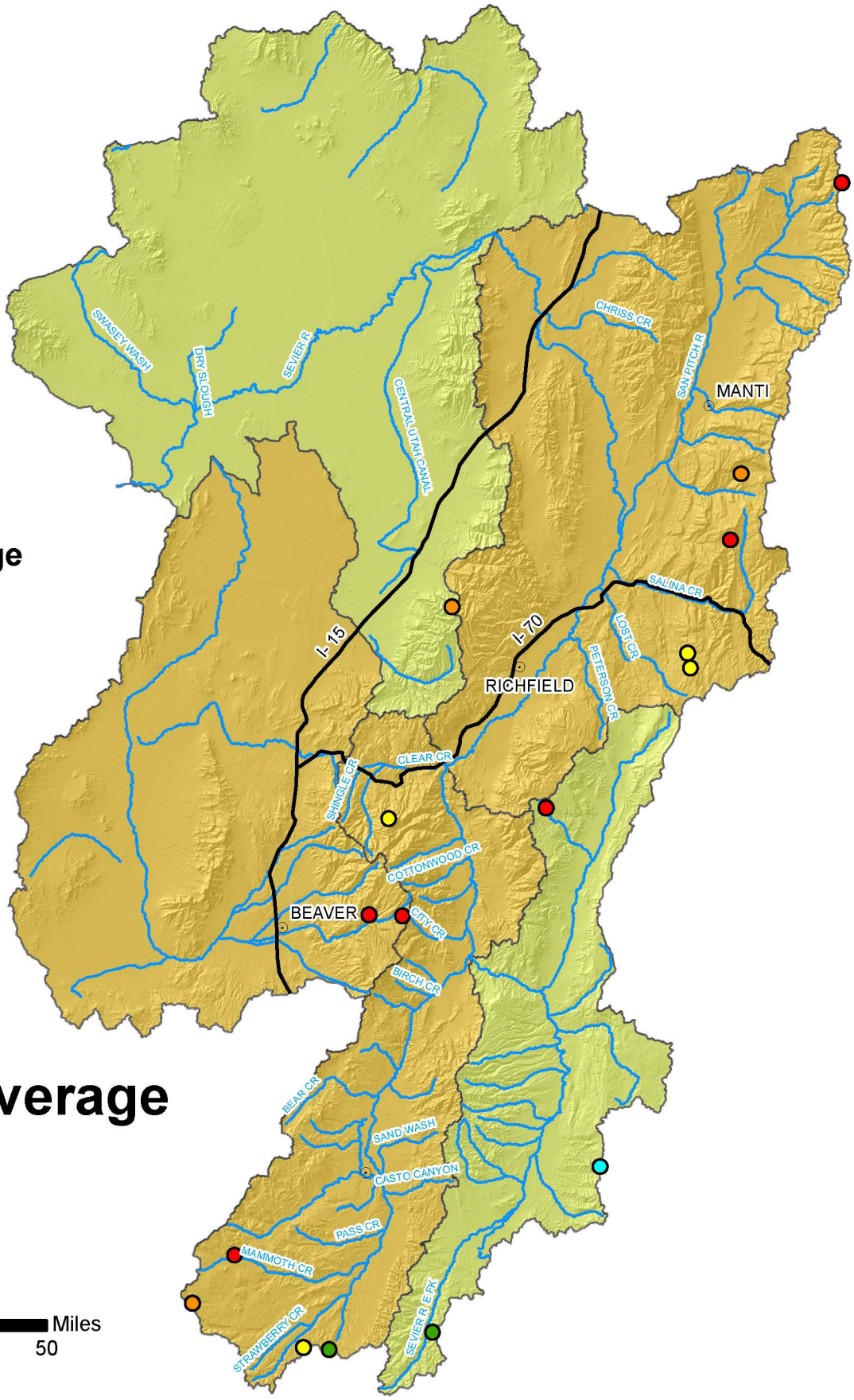
N

Snotel % of Average

- < 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%



Basinwide Average
63 %

0 5 10 20 30 40 50 Miles

Provisional Data
Subject to Revision

SEVIER & BEAVER RIVER BASINS as of February 1, 2012

SEVIER & BEAVER RIVER BASINS
Streamflow Forecasts - February 1, 2012

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Mammoth Ck nr Hatch	APR-JUL	0.5	4.1	17.0	66	26	52	26
Sevier R at Hatch	APR-JUL	5.5	20	30	55	40	54	55
Sevier R nr Kingston	APR-JUL	0.7	4.7	19.0	58	33	54	33
EF Sevier R nr Kingston	APR-JUL	6.6	20	29	83	38	51	35
Sevier R bl Piute Dam	APR-JUL	2.6	25	47	71	69	101	66
Clear Ck ab Diversions nr Sevier	APR-JUL	0.9	8.1	13.0	59	17.9	25	22
Salina Ck nr Emery	APR-JUL	0.27	2.50	5.00	56	7.50	11.30	9.00
Salina Ck at Salina	APR-JUL	0.3	4.0	9.0	46	16.0	30	19.7
Manti Ck Blw Dugway Ck Nr Manti	APR-JUL	5.6	8.6	11.0	60	13.7	18.1	18.3
Sevier R nr Gunnison	APR-JUL	5.0	37	58	55	79	111	106
Chicken Ck nr Levan	APR-JUL	0.55	1.26	2.00	44	3.00	4.90	4.50
Oak Creek nr Oak City	APR-JUL	0.43	0.74	1.00	60	1.30	1.81	1.66
Beaver R nr Beaver	APR-JUL	1.1	10.0	16.0	59	22	31	27
Minersville Res Inflow	APR-JUL	1.8	5.6	10.0	60	16.4	30	16.6

SEVIER & BEAVER RIVER BASINS
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
GUNNISON	20.3	18.6	11.4	13.1
MINERSVILLE (RkyFd)	23.3	23.3	11.0	14.4
OTTER CREEK	52.5	48.7	31.0	36.5
PIUTE	71.8	61.7	34.2	49.5
SEVIER BRIDGE	236.0	225.9	95.5	159.6
PANGUITCH LAKE	22.3	2.0	20.1	131.4

SEVIER & BEAVER RIVER BASINS
Watershed Snowpack Analysis - February 1, 2012

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER SEVIER RIVER	8	45	66
EAST FORK SEVIER RIVER	3	57	66
SOUTH FORK SEVIER RIVER	5	37	66
LOWER SEVIER RIVER	6	57	73
BEAVER RIVER	2	30	51
SEVIER & BEAVER RIVER BAS	16	47	67

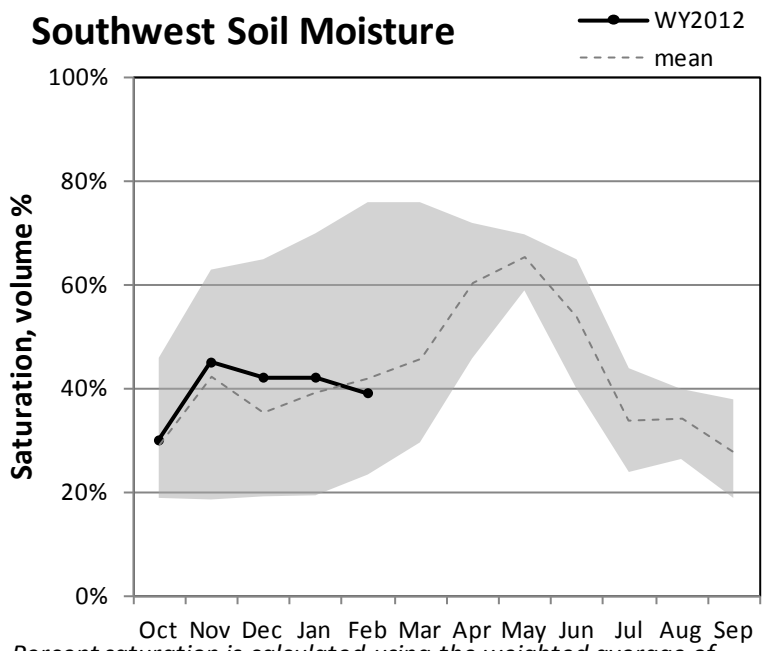
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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

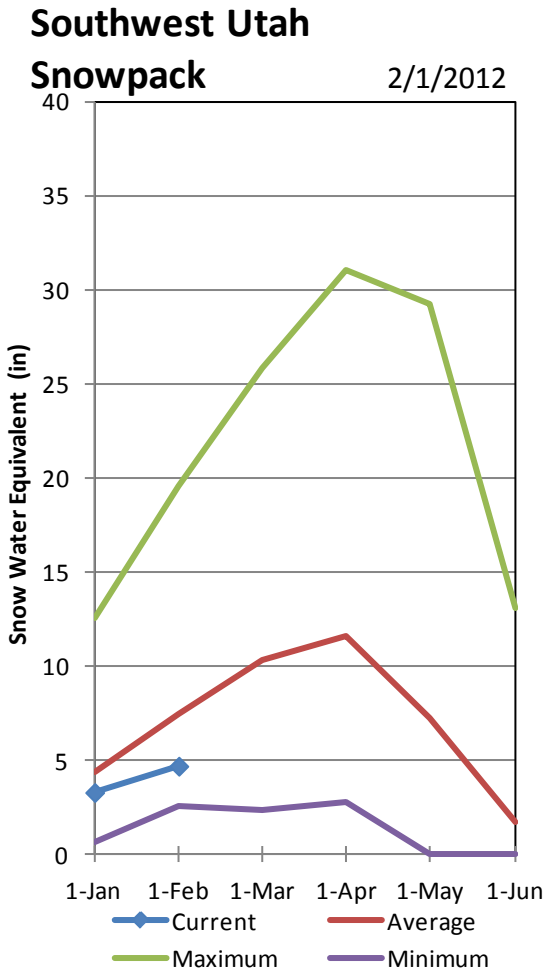
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

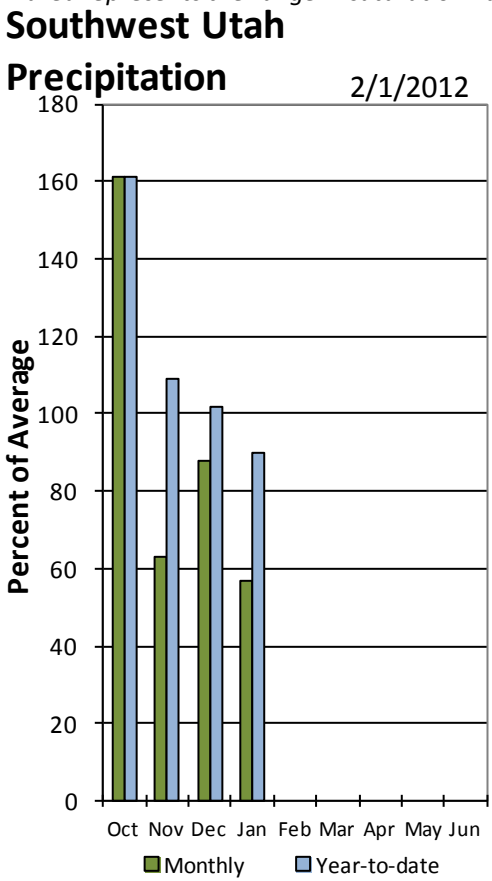
E. Garfield, Kane, Washington, & Iron Co.
February 1, 2012

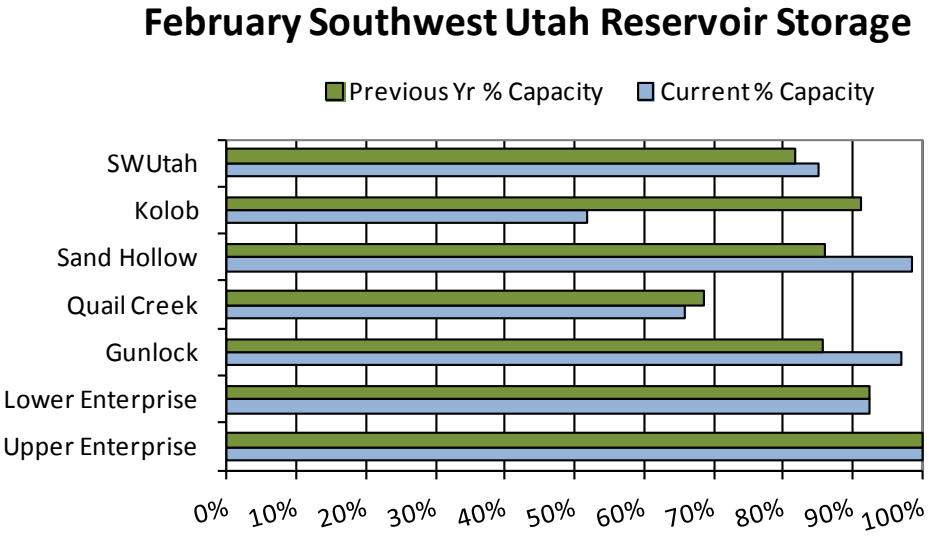
Snowpacks in this region are much below normal at 63% of average, which is 41% of last year. Individual sites range from 102% at Donkey Reservoir Snotel, to 33% of average at Little Grassy Snotel. Precipitation during the month of December was much below average at 57%, bringing the seasonal accumulation (Oct-Dec) to 90% of average. The average soil moisture estimate in runoff producing areas is at 39% of saturation within the upper 2 feet of soil, compared to 59% last year. Forecast streamflows (Apr–July) range from 41% to 64% of average. Reservoir storage is at 85% of capacity, 3% higher than last year at this time. The Surface Water Supply Index is at 33%, indicating below average water supply conditions.



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.

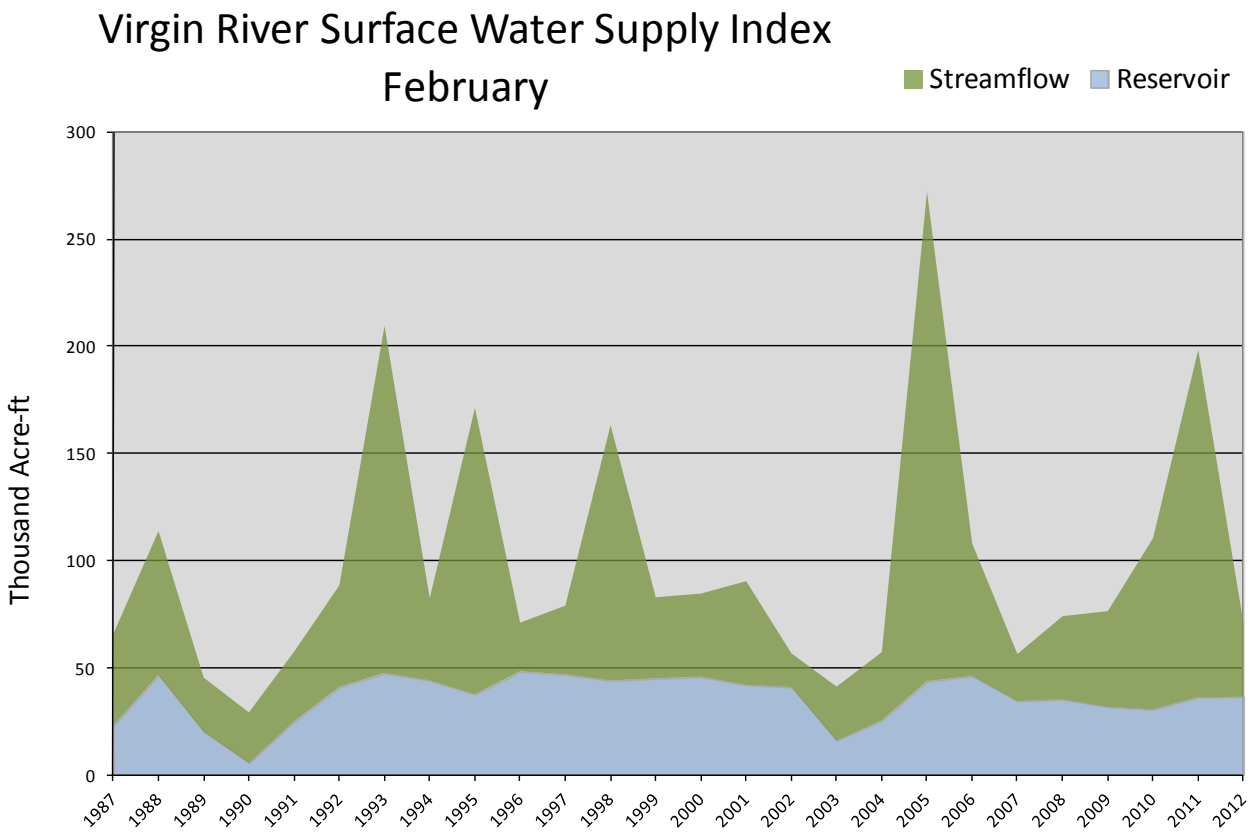






February 1, 2012	**Surface Water Supply Index**					
Basin or Region	January EOM* Quail Creek and Gunlock Reservoirs	April-July forecast Virgin and Santa Clara Rivers	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	*KAF^*	*KAF*	*KAF*		*%*	
Virgin River	**36.5**	**35**	**71**	**-1.39**	**33**	**91, 87, 96, 08**

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



E. Garfield, Kane, Washington & Iron County

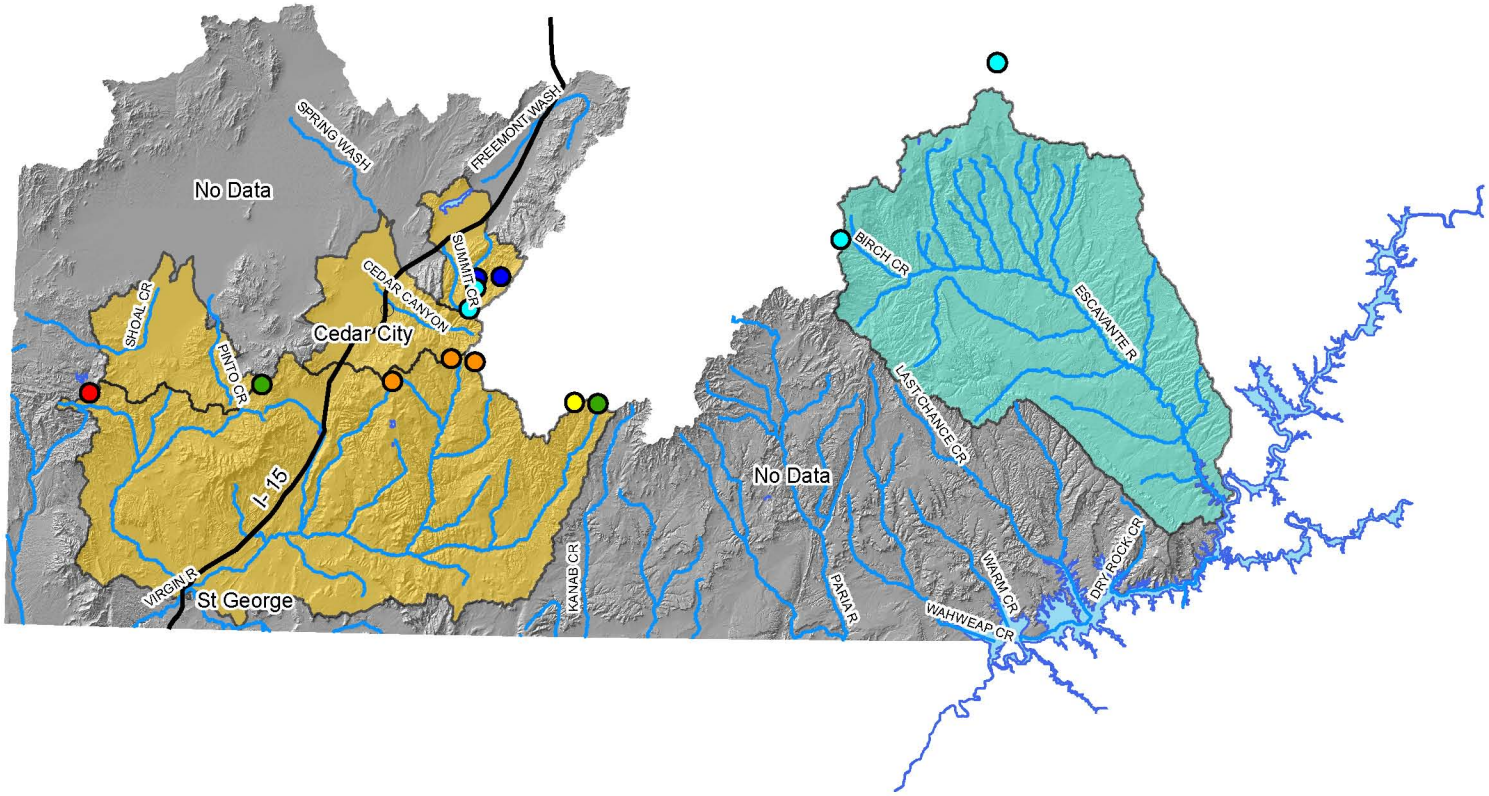
Watershed % of Average

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

Snotel % of Average

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

N



Basin Average
72 %

Provisional Data
Subject to Revision

Miles
0 5 10 20 30 40 50

E. GARFIELD, KANE, WASHINGTON, & IRON Co. as of February 1, 2012

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Streamflow Forecasts - February 1, 2012

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Lake Powell Inflow (2)	APR-JUL	2800	3880	5050	64	6370	8600	7930
Virgin R at Virgin	APR-JUL	23	25	32	50	40	54	64
Virgin R nr Hurricane	APR-JUL	15.2	19.5	28	41	38	56	69
Santa Clara R nr Pine Valley	APR-JUL	1.60	2.00	2.50	46	3.40	5.10	5.50
Coal Ck nr Cedar City	APR-JUL	1.5	7.8	12.0	62	16.2	22	19.3

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Reservoir Storage (1000 AF) - End of January

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
GUNLOCK	10.4	10.1	8.9	5.7
LAKE POWELL	24322.0	15648.0	13829.0	18463.0
QUAIL CREEK	40.0	26.4	27.4	26.5
UPPER ENTERPRISE	10.0	10.0	10.0	---
LOWER ENTERPRISE	2.6	2.4	2.4	38.0

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Watershed Snowpack Analysis - February 1, 2012

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
VIRGIN RIVER	5	32	59
PAROWAN	2	31	62
ENTERPRISE TO NEW HARMONY	2	57	48
COAL CREEK	2	31	60
ESCALANTE RIVER	2	77	89
SOUTHWESTERN UTAH	9	41	63

* 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.

February 1, 2012

Surface Water Supply Index

Basin or Region	Dec EOM* Resevoirs	April-July Stream Forecast	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI	done
	*KAF^*	*KAF*	*KAF*		*%*		
Bear River	**972**	**200**	**1172**	**1.68**	**70**	**48,65,19,15**	x
Ogden River	**92**	**82**	**174**	**-0.46**	**44**	**94,10,09,79**	x
Weber River	**348**	**205**	**553**	**0.19**	**52**	**09,93,05,78**	x
Provo River	**411**	**80**	**491**	**0.49**	**56**	**80,96,05,08**	x
West Uintah Basin	**164**	**138**	**302**	**-0.29**	**47**	**76,08,87,73**	x
East Uintah Basin	**53.7**	**51.0**	**105**	**0.00**	**50**	**82,96,00,10**	x
Price River	**50.4**	**27.0**	**77.4**	**0.96**	**59**	**87,76,96,95**	x
Joe's Valley	**47.4**	**33.0**	**80.4**	**-0.50**	**44**	**07,01,00,10**	x
Ferron Creek	**12.2**	**27.0**	**39.2**	**-0.51**	**44**	**87,03,78,01**	x
Moab	**1.8**	**3.7**	**5.5**	**0.96**	**62**	**96,07,94,97**	x
Upper Sevier River	**111**	**47**	**158**	**0.54**	**56**	**72,97,07,74**	x
Lower Sevier River	**226**	**58**	**284**	**2.28**	**77**	**06,82,69,97**	x
Beaver River	**23.3**	**10.0**	**33.3**	**-0.64**	**42**	**65,62,67,81**	x
Virgin River	**36.5**	**35**	**71.5**	**-1.39**	**33**	**91,87,96,08**	x

**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 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 far more intuitive for most people and is totally 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.

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http://www.ut.nrcs.usda.gov/snow/

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Utah Climate and Water Report

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Salt Lake City, UT