Utah Climate and Water Report

June 2012

Low seasonal levels on the Green River; Desolation Canyon, Utah May 2012.
Photo by Kristian Jelm

Utah Climate and Water Report

The purpose of the Climate and Water Report is to provide a snapshot of current and immediate past climatic conditions and other information useful to agricultural and water user interests in Utah. The report utilizes data from several sources that represent specific parameters (streamflow data from the United States Geological Survey, reservoir data from the Bureau of Reclamation, and other sources), geography including high elevation United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) Snowpack Telemetry (SNOTEL) data, and agriculturally important data from the USDA-NRCS Soil Climate Analysis Network (SCAN). Data on precipitation, soil moisture, soil temperature, reservoir storage, and streamflow are analyzed and presented. These data analyses can be used to increase irrigation efficiency and agricultural production. As with all data and analyses, there are limitations due to data quality, quantity, and spatial application.

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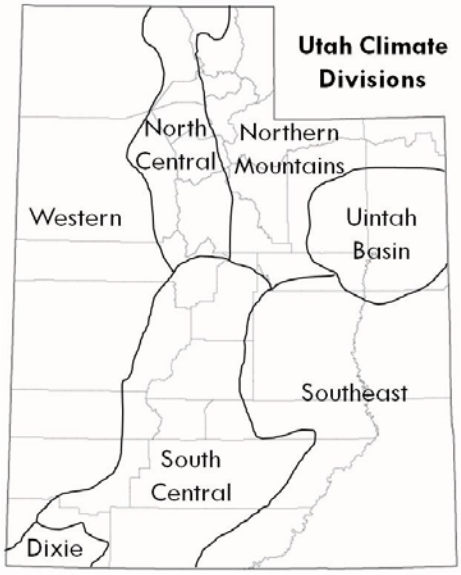
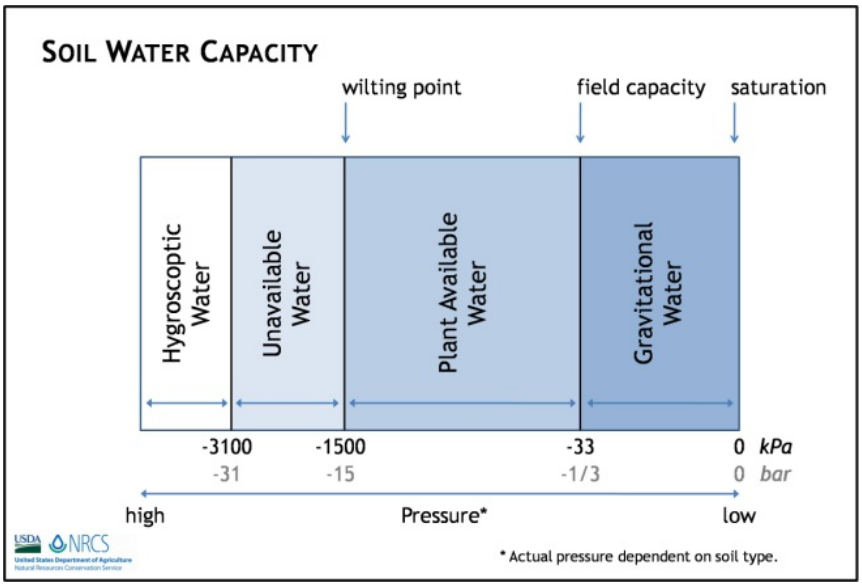
Climate and Water Information

Soil Climate Analysis Network

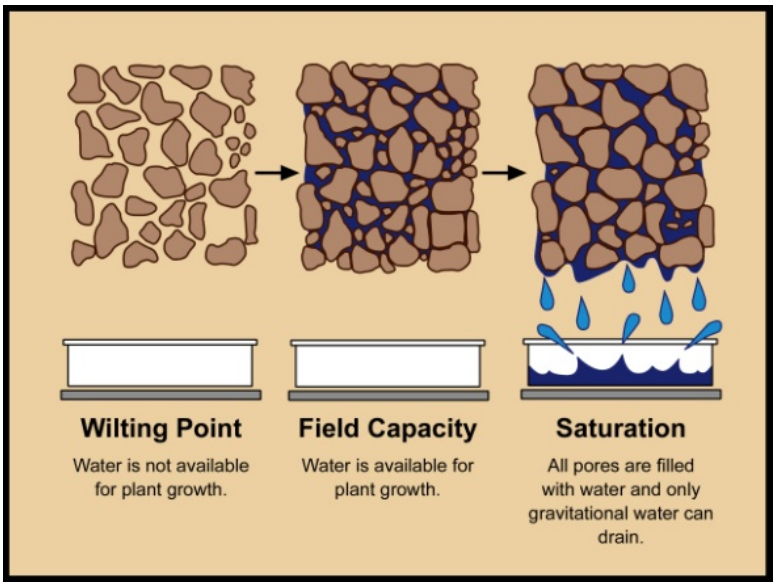
Soil Climate Analysis Network (SCAN) stations are primarily located on low- to mid-elevation, agriculturally important landscapes that maintain representative soils. Elevations range from 3,000 to 7,000 ft. The SCAN network provides real-time soil moisture and temperature data coupled with additional climate information for use in natural resource planning, drought assessment, water resource management, and resource inventory. Stations are situated on non-irrigated, native soils, are remotely located, and collect hourly atmospheric and soils data that are available to the public online.

In order to summarize SCAN data, the 35 sites in Utah are grouped by climate divisions (North Central, Northern Mountains, Uintah Basin, Southeast, South Central, Dixie, and Western).





Explanation of soil water capacity definitions. Field capacity (FC) and wilting point (WP) are calculated in the laboratory for each soil horizon. The amount of water held between field capacity and wilting point is plant available.



Visual explanation of soil water capacity definitions.

http://www.wcc.nrcs.usda.gov/scan/Utah/utah.html

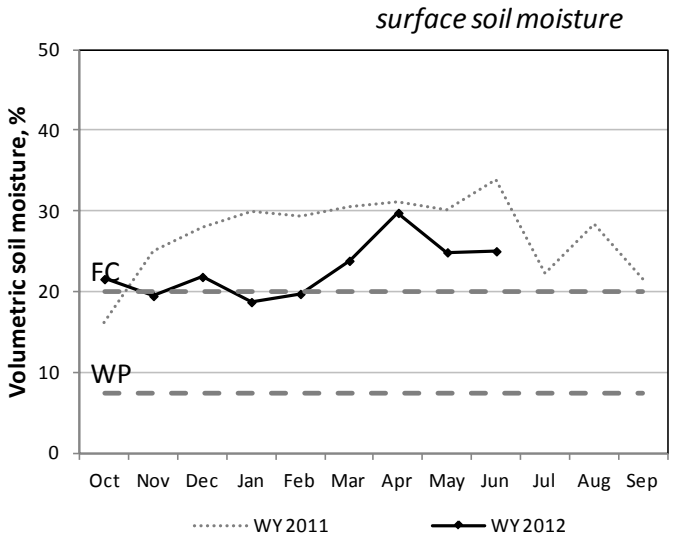
North Central

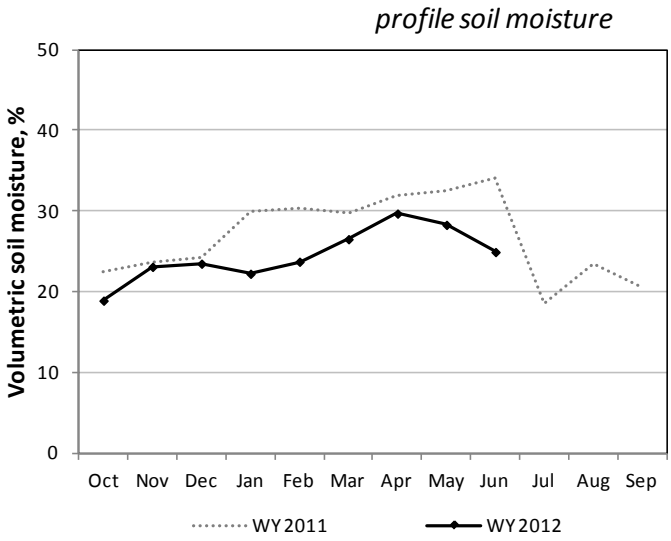
Soil Climate Analysis Network (SCAN)

Site name	Precip to Date*	Monthly Precip	Soil Moisture					Soil Temperature				
			2"	4"	8"	20"	40"	2"	4"	8"	20"	40"
	in.	*in.*	*volume %*					*°F*				
NORTH CENTRAL												
Blue Creek	8.7	0.9	22	18	23	26	21	65	67	65	59	54
Cache Junction	11.2	1.2	32	34	40	35						
Grantsville	5.7	0.6	4	15	25	26		68	70	66	60	56

* Precipitation since October 1 (beginning of the water year). Monthly Precip is the amount of precipitation accumulated in the past month. SCAN sites utilize tipping bucket rain gauges which do not accurately measure precipitation in the form of snowfall. Soil moisture and temperature values reflect conditions measured on the first of the month.

North Central





Surface soil moisture is the weighted mean of the water content measured at depths of 2, 4, and 8 inches. **FC** is the mean field capacity, **WP** is the mean permanent wilting point for the soil surface (0 to 12 inches) at SCAN sites within the region, and **WY** is the water year lasting October through September. *Profile soil moisture* is the weighted mean of water content measured at depths of 2, 4, 8, 20, and 40 inches.

Additional data available at the SCAN website, including: hourly air temperature, relative humidity, wind speed, wind direction, barometric pressure, precipitation, solar radiation, soil temperature, and soil moisture.

http://www.wcc.nrcs.usda.gov/scan/Utah/utah.html

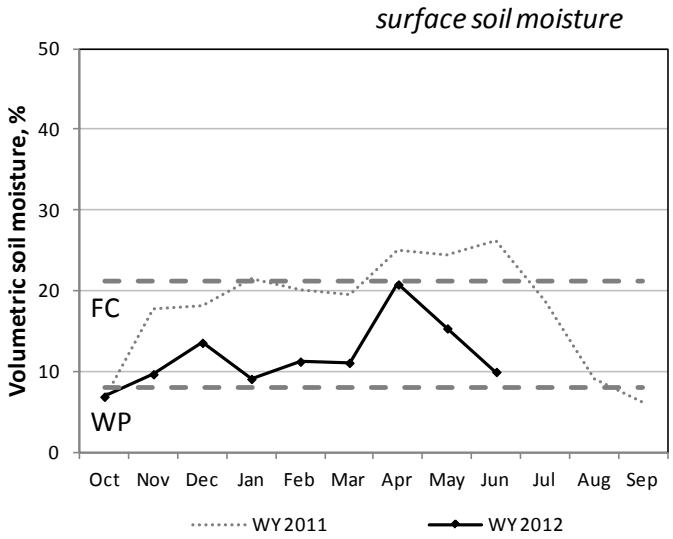
Northern Mountains

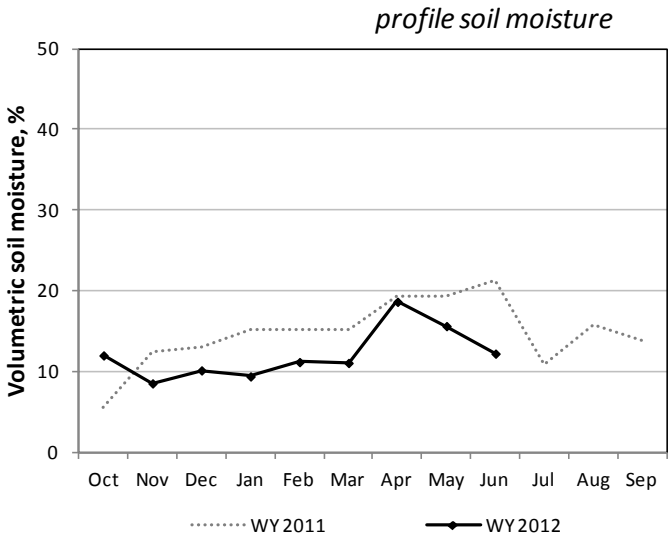
Soil Climate Analysis Network (SCAN)

Site name	Precip to Date*	Monthly Precip	Soil Moisture					Soil Temperature				
			2"	4"	8"	20"	40"	2"	4"	8"	20"	40"
	in.	*in.*	*volume %*					*°F*				
NORTHERN MOUNTAINS												
Chicken Ridge	5.2	1.1	8	12	10	20	21	53	54	54	49	47
Buffalo Jump	4.1	0.6	7	11	12	8	-	62	63	60	53	-
Morgan	10.0	1.0	8	10	10	7	9	60	60	59	55	53

* Precipitation since October 1 (beginning of the water year). Monthly Precip is the amount of precipitation accumulated in the past month. SCAN sites utilize tipping bucket rain gauges which do not accurately measure precipitation in the form of snowfall. Soil moisture and temperature values reflect conditions measured on the first of the month.

Northern Mountains





Surface soil moisture is the weighted mean of the water content measured at depths of 2, 4, and 8 inches. **FC** is the mean field capacity, **WP** is the mean permanent wilting point for the soil surface (0 to 12 inches) at SCAN sites within the region, and **WY** is the water year lasting October through September. *Profile soil moisture* is the weighted mean of water content measured at depths of 2, 4, 8, 20, and 40 inches.

Additional data available at the SCAN website, including: hourly air temperature, relative humidity, wind speed, wind direction, barometric pressure, precipitation, solar radiation, soil temperature, and soil moisture.

http://www.wcc.nrcs.usda.gov/scan/Utah/utah.html

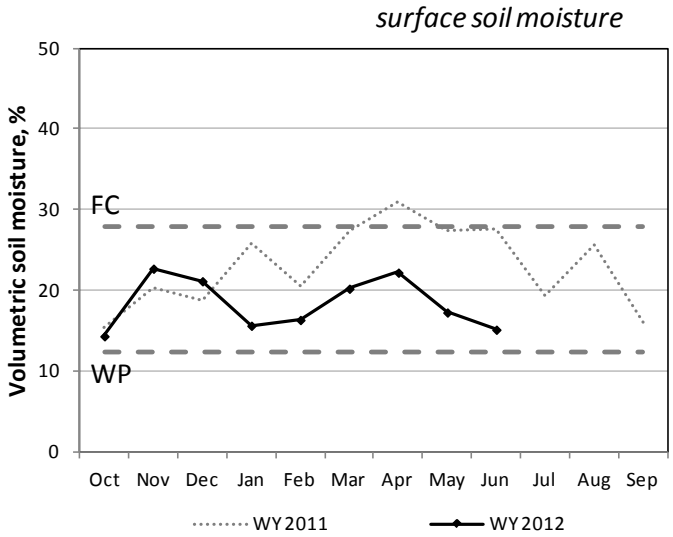
Uintah Basin

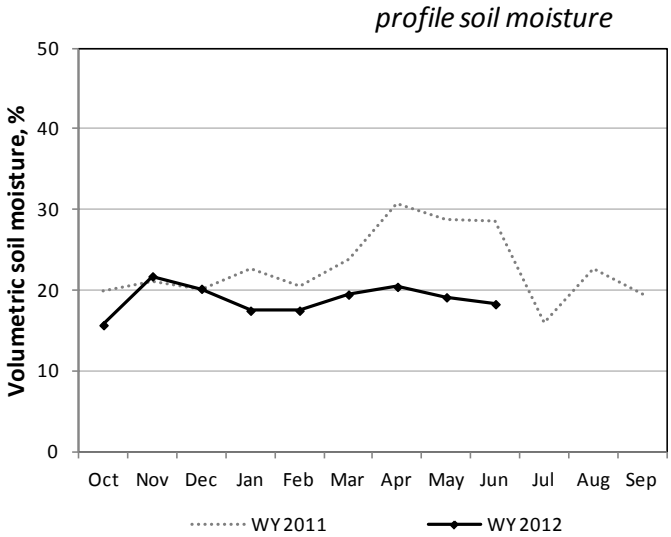
Soil Climate Analysis Network (SCAN)

Site name	Precip to Date*	Monthly Precip	Soil Moisture					Soil Temperature				
			2"	4"	8"	20"	40"	2"	4"	8"	20"	40"
	in.	*in.*	*volume %*					*°F*				
UINTAH BASIN												
Mountain Home	4.2	0.4	14	21	23	19						
Little Red Fox	2.9	0.0	2	15	22	25	28	71	74	72	64	59
Split Mountain	3.2	0.2	1	13	13	13	12	77	79	75	67	60

* Precipitation since October 1 (beginning of the water year). Monthly Precip is the amount of precipitation accumulated in the past month. SCAN sites utilize tipping bucket rain gauges which do not accurately measure precipitation in the form of snowfall. Soil moisture and temperature values reflect conditions measured on the first of the month.

Uintah Basin





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Additional data available at the SCAN website, including: hourly air temperature, relative humidity, wind speed, wind direction, barometric pressure, precipitation, solar radiation, soil temperature, and soil moisture.

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Southeast

Soil Climate Analysis Network (SCAN)

Site name	Precip to Date*	Monthly Precip	Soil Moisture					Soil Temperature				
			2"	4"	8"	20"	40"	2"	4"	8"	20"	40"
	in.	*in.*	*volume %*					*°F*				
SOUTHEAST												
Price	3.2	0.0	0	8	16	18	19	73	77	77	68	63
Green River	2.3	0.0	4	7	9	7	10	79	80	79	73	67
Harm's Way	3.0	0.0	5	0	15	15	7	73	70	71	64	59
West Summit	3.0	0.0	5	11	15	17	18	68	71	71	62	57
Eastland	4.1	0.0	8	12	10	26	31	64	66	66	60	57
Alkali Mesa	5.5	0.0	5	7	15	19	14	70	70	69	64	60
McCracken Mesa	3.8	0.0	6	10	14	17	14	74	78	78	68	64

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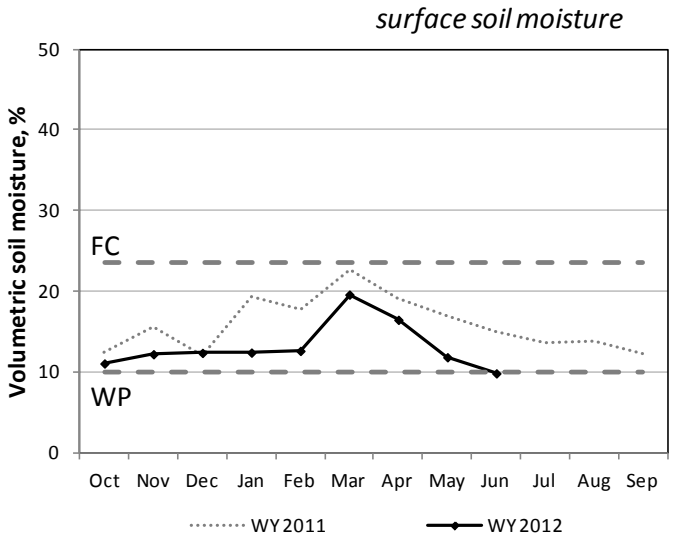
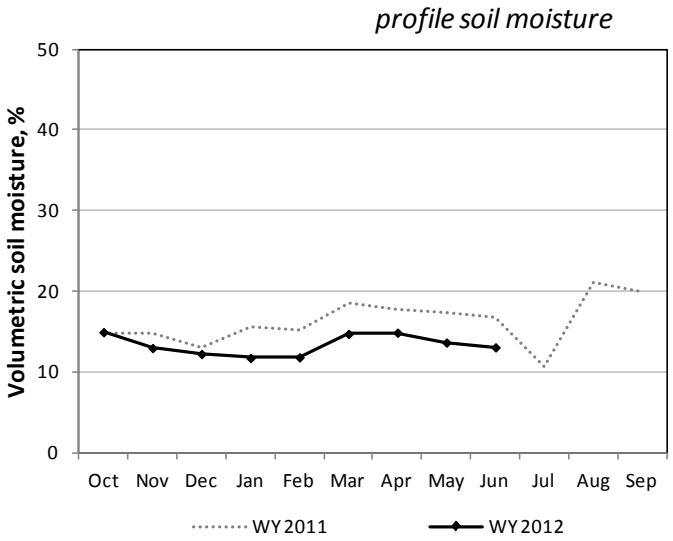
Southeast





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South Central

Soil Climate Analysis Network (SCAN)

Site name	Precip to Date*	Monthly Precip	Soil Moisture					Soil Temperature				
			2"	4"	8"	20"	40"	2"	4"	8"	20"	40"
	in.	*in.*	*volume %*					*°F*				
SOUTH CENTRAL												
Nephi	8.5	0.1	12	17	16	10	6	68	69	68	61	56
Ephraim	4.6	0.0	3	11	16	17	33	56	59	59	53	51
Holden	4.4	0.0	2	5	4	13	14	71	72	70	64	60
Milford	4.0	0.0	10	23	24	29	17	73	73	69	63	59
Manderfield	4.7	0.1	0	13	13	11	5	66	70	69	61	56
Circleville	2.5	0.0	8	5	7	9	8	76	76	72	62	
Panguitch	3.1	0.0	3	18	13	20	25	63	62	60	55	51
Cave Valley	9.9	0.0		1	1	1	1	69	72	72	63	59
Vermillion	5.5	0.0	0	1	3	4	8	70	73	70	62	56
Spooky	3.4	0.0	2	0	4	13	2	80	82	75	68	66

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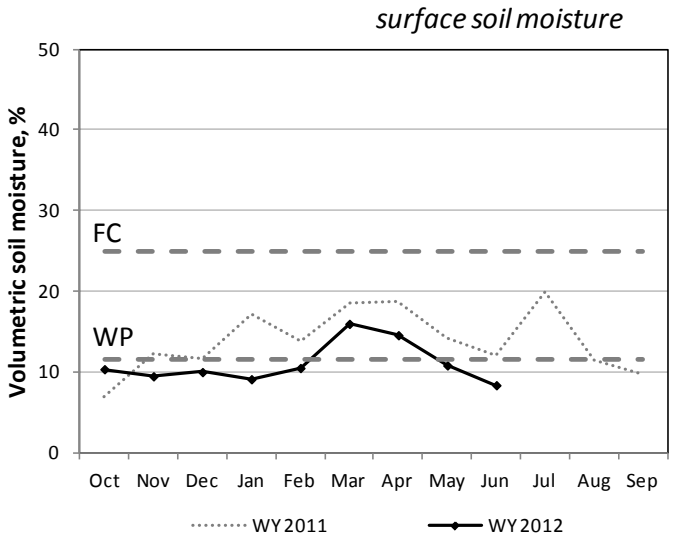
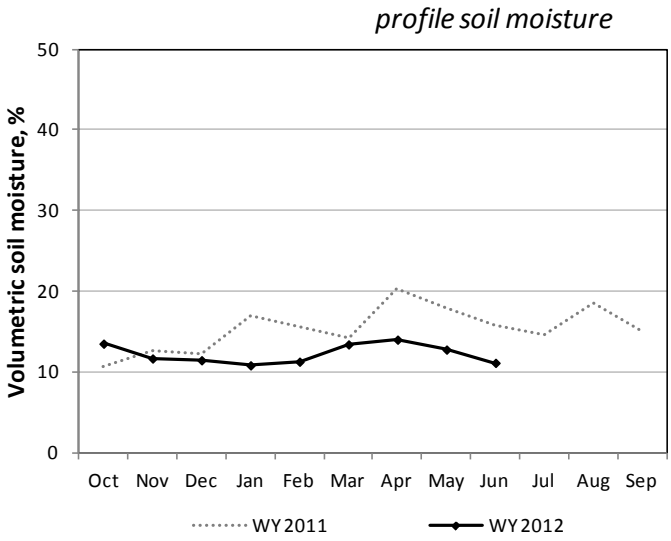
South Central





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Western and Dixie

Soil Climate Analysis Network (SCAN)

Site name	Precip to Date*	Monthly Precip	Soil Moisture					Soil Temperature				
			2"	4"	8"	20"	40"	2"	4"	8"	20"	40"
	in.	*in.*	*volume %*					*°F*				
WESTERN												
Grouse Creek	6.5	0.8	6	10	15	19	18	64	68	66	57	54
Park Valley	4.6	0.4	2	6	13	12	24	65	67	66	60	57
Goshute	3.0	0.1	6	23	55	44	26	65	70	70	62	57
Dugway	3.9	0.4	22	33	37	65	12	70	71	69	62	60
Tule Valley	3.5	0.0	9	13	24	23	11	73	82	84	78	71
Hal's Canyon	2.8	0.0	1	0	9	11	9	73	79	79	67	62
Enterprise	4.8	0.0	4	23	23	14	15	68	71	70	64	59
DIXIE												
Sand Hollow	4.8	0.0	0	0	1	1	0	82	90	87	77	73

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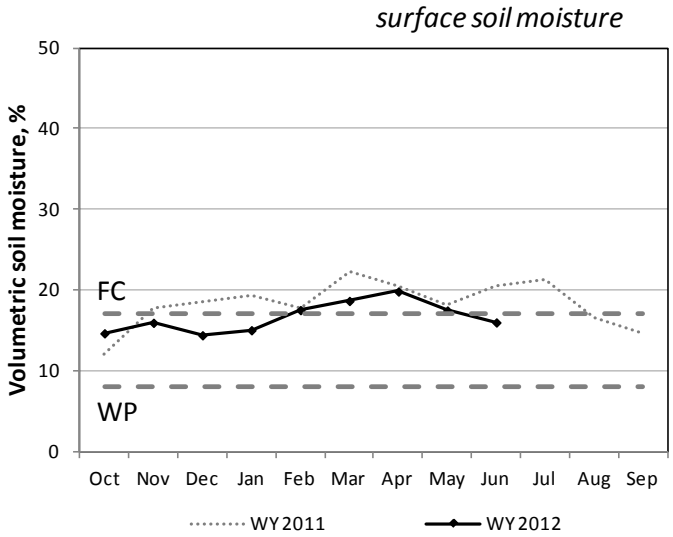
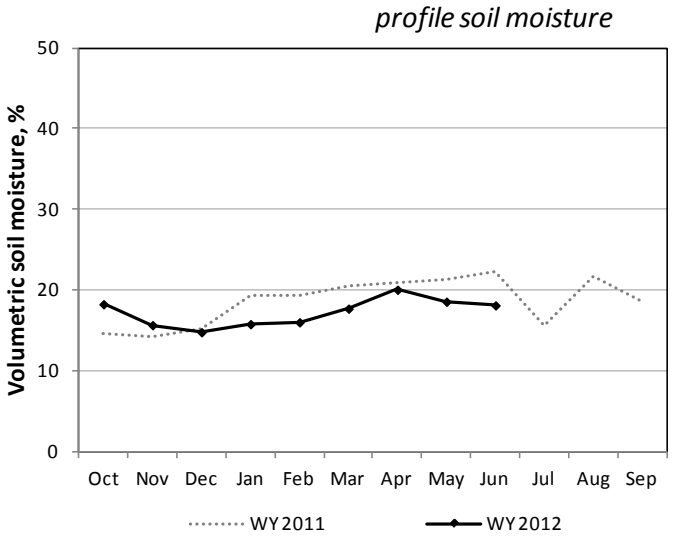
Western & Dixie





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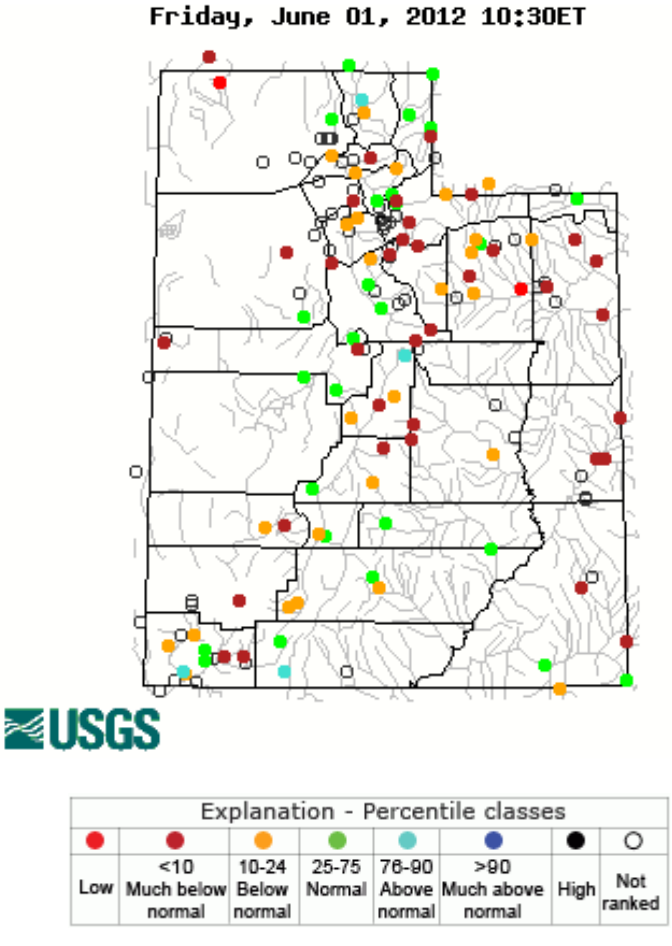
Utah Hydrologic Summary

June 1, 2012

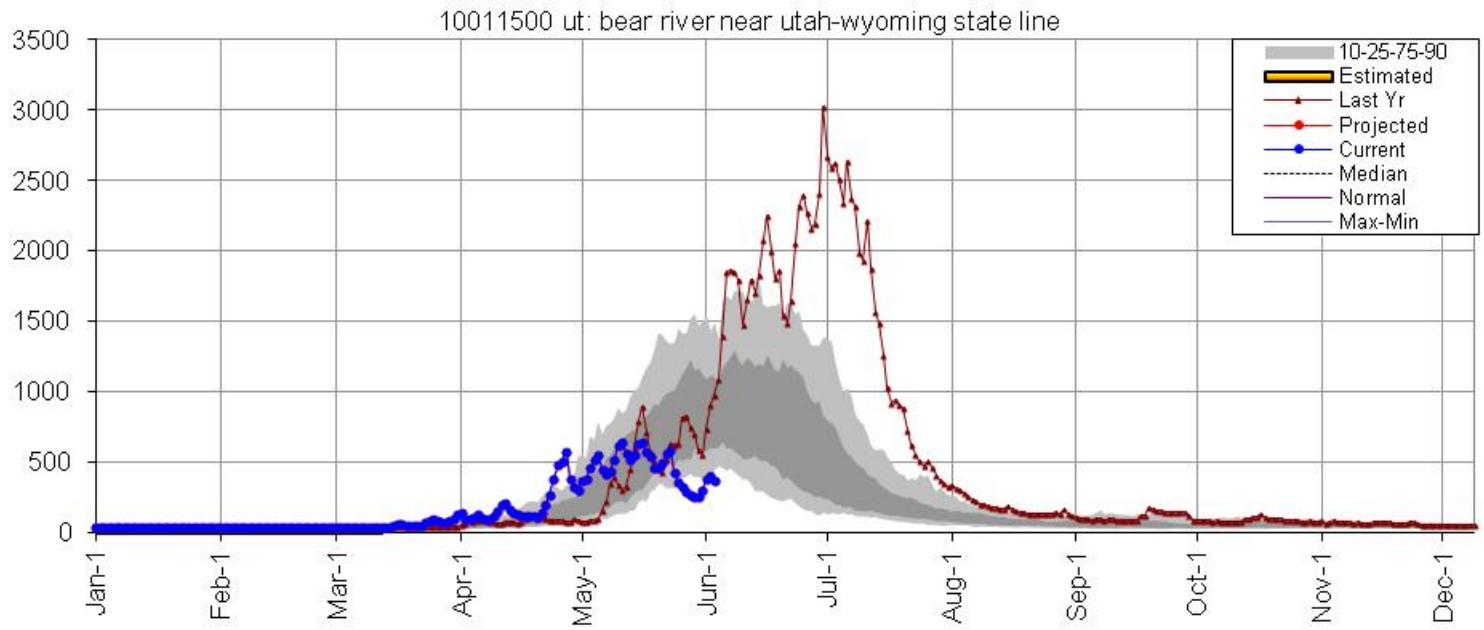
Current Conditions

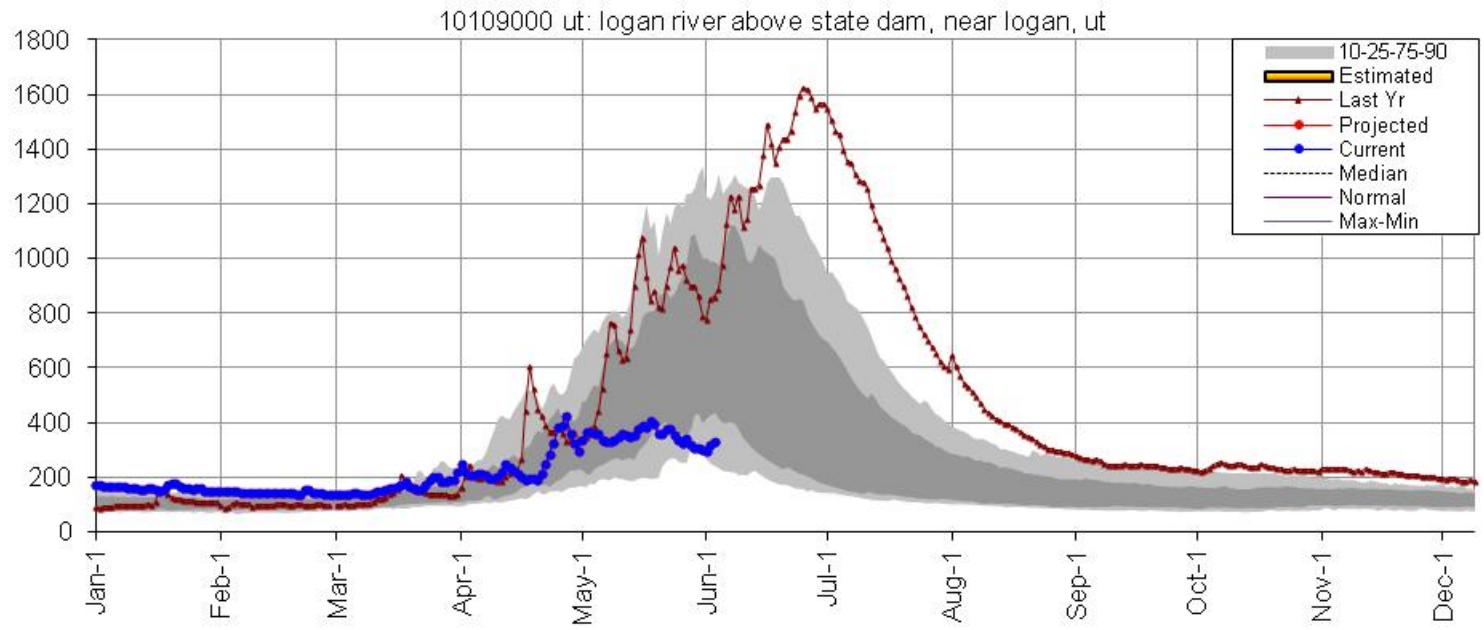
Current runoff, as shown in the USGS graphic below, has declined dramatically in the past month (as predicted in last month's issue) from a near uniform much above average condition to the current condition where nearly all stream flow that is un-impacted by management is less than 25% of average (orange and red dots). There are about 34 sites that are flowing less than 10% of average (dark red dots). Streamflow that is near average or in the green/blue category are for the most part, sites that reflect reservoir discharge. Snowpacks are completely melted out across the state. Much of this year's snowmelt went to recharge soil moisture and was promptly consumed by evapotranspiration. Soil Moisture is currently at the bottom of historically observed June 1 values in the north and dryer than any observed June 1 values in the south. Utah watersheds are dry and getting dryer. May precipitation ranged from 5% to 13% in southern Utah and 18% to73% in northern Utah. Many sites in southern Utah have gone between 25 and 35 days without measureable precipitation. Reservoir storage is very high, near 88% of capacity across the state. Exceptionally poor runoff conditions are balanced by excellent reservoir storage. Those with reservoir storage will have generally adequate water supply while those reliant on direct stream flow can expect shortages for the remainder of the summer and fall.

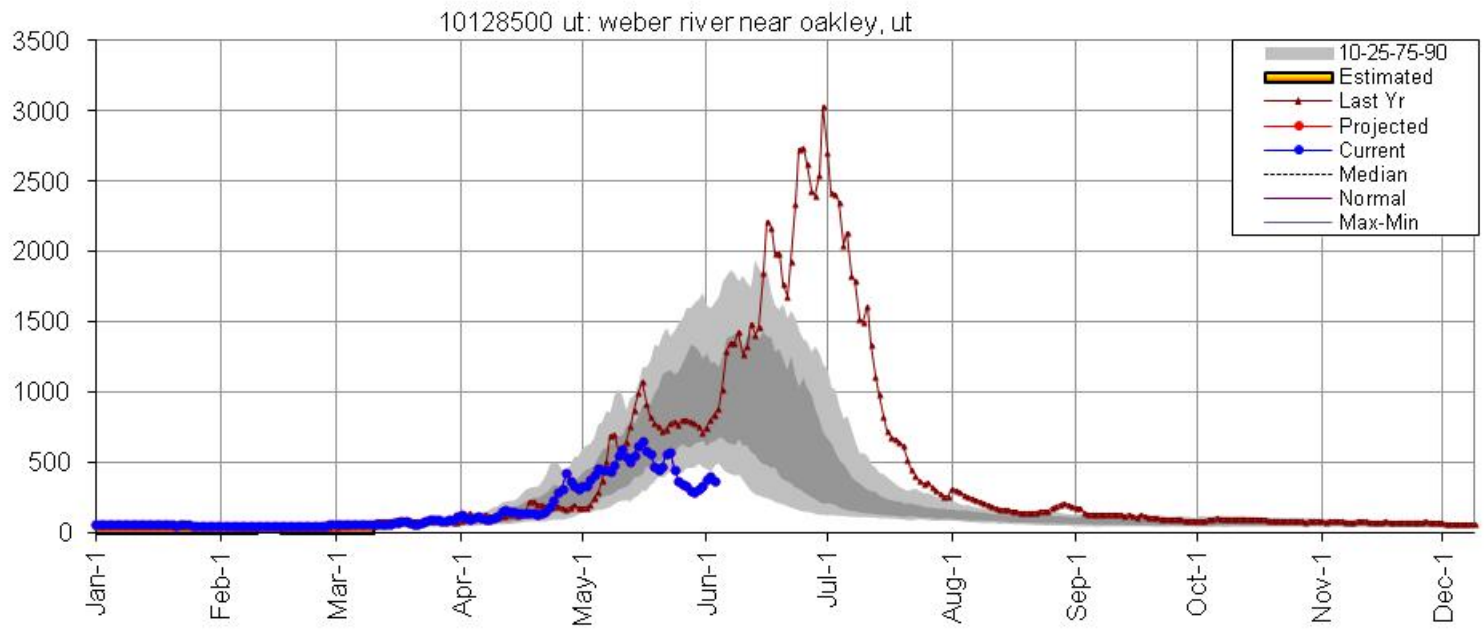
Current Utah Streamflow - Courtesy US Geological Survey

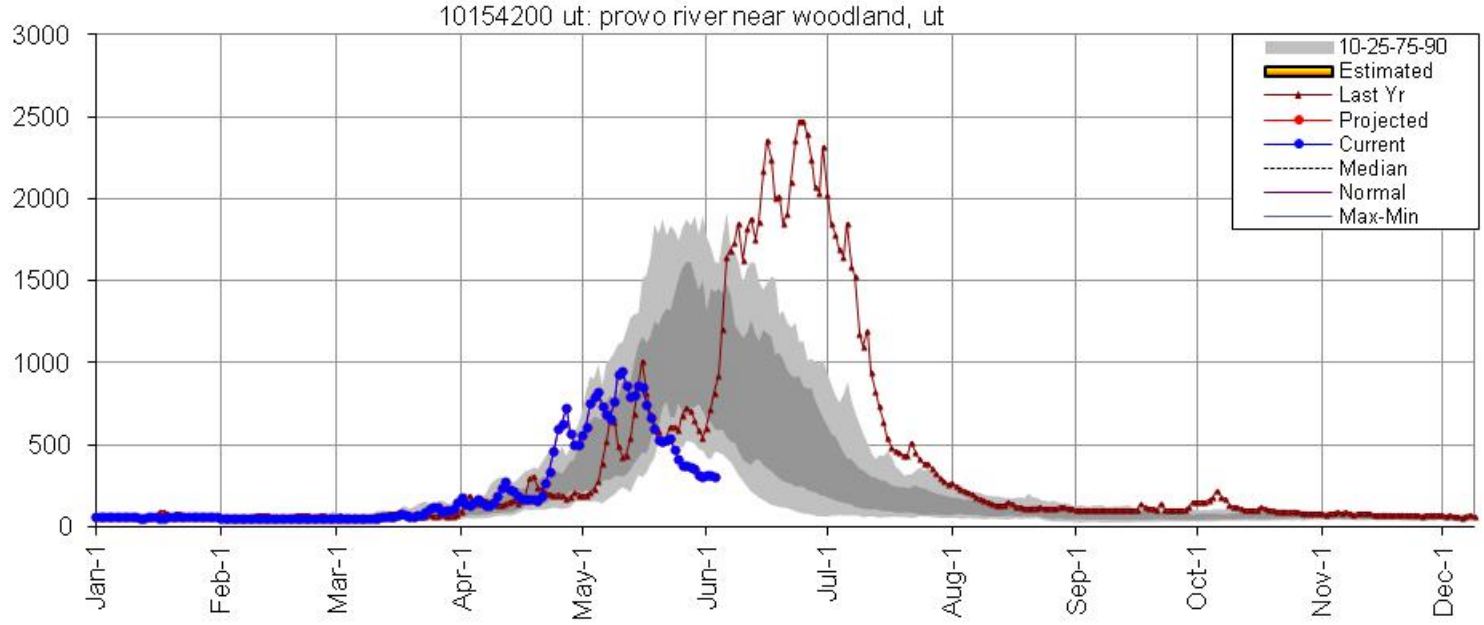


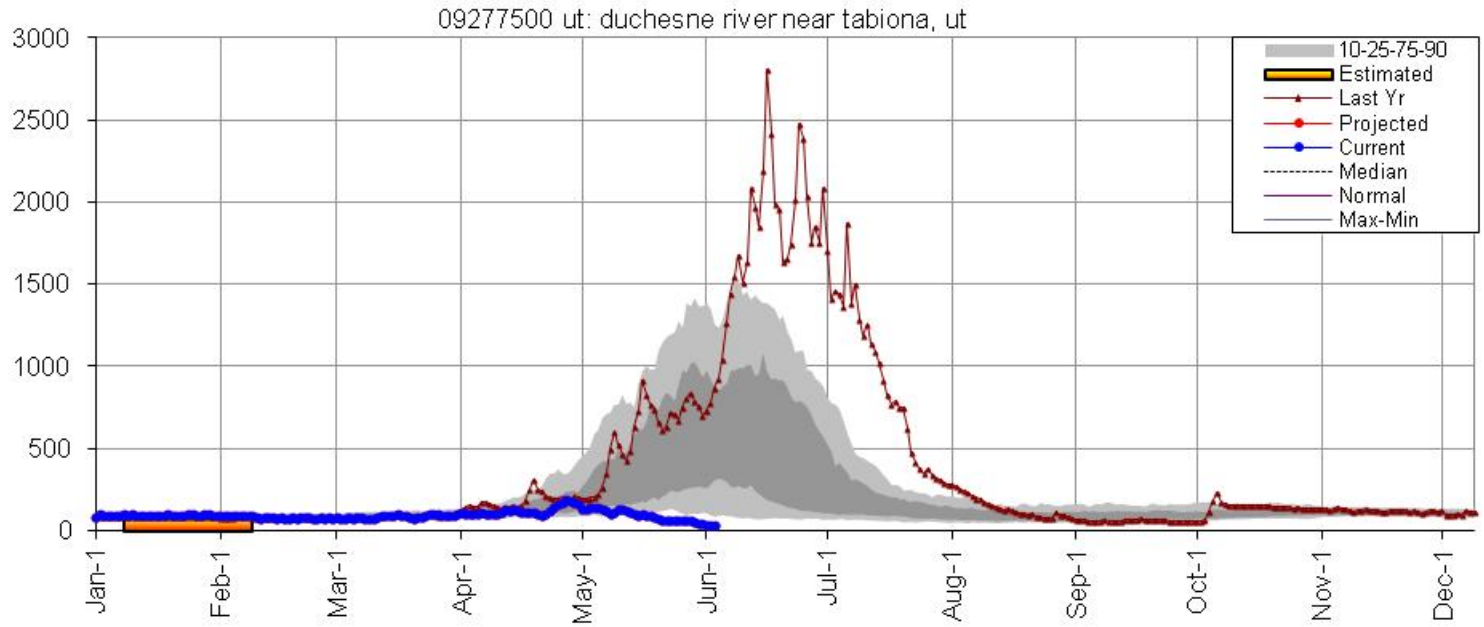
Here are example graphs from some representative watersheds across the state showing current streamflow (blue) compared to last year (brown) and the top, middle and bottom thirds of the historical record shaded in grey. The common theme from north to south is that streamflow is exceptionally low and a runoff season that basically did not happen. All streams are in recession and will go lower from current conditions through the remainder of the year. Last year at this time, runoff was just getting started. Additionally, in primarily in southern Utah, there has been very little precipitation with some sites going nearly 2 months without measurable precipitation which is also reflected in surface soil moisture being extremely dry, in many cases below vegetation wilting point.

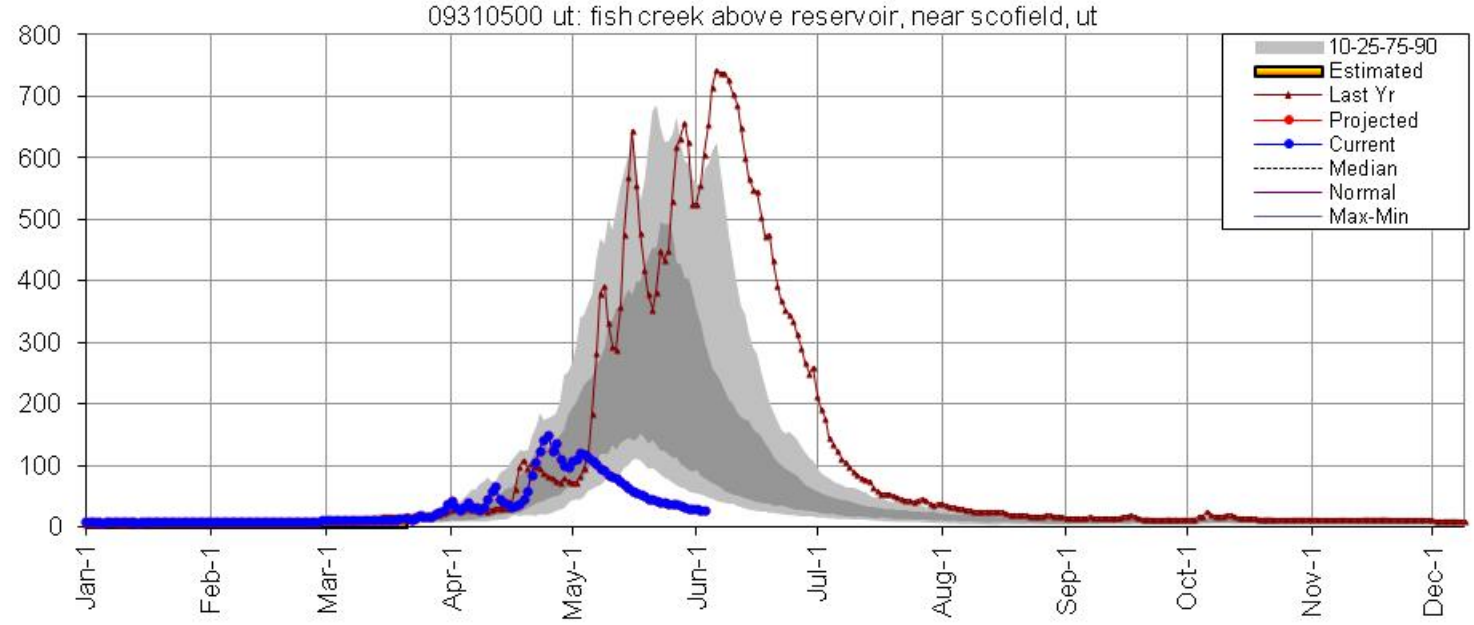



10109000 ut: logan river above state dam, near logan, ut
1800
1600
1400
1200
1000
800
600
400
200
0
Jan-1
Feb-1
Mar-1
Apr-1
May-1
Jun-1
Jul-1
Aug-1
Sep-1
Oct-1
Nov-1
Dec-1
10-25-75-90
Estimated
Last Yr
Projected
Current
Median
Normal
Max-Min


10128500 ut: weber river near oakley, ut
3500
3000
2500
2000
1500
1000
500
0
Jan-1
Feb-1
Mar-1
Apr-1
May-1
Jun-1
Jul-1
Aug-1
Sep-1
Oct-1
Nov-1
Dec-1
10-25-75-90
Estimated
Last Yr
Projected
Current
Median
Normal
Max-Min


10154200 ut: provo river near woodland, ut
3000
2500
2000
1500
1000
500
0
Jan-1
Feb-1
Mar-1
Apr-1
May-1
Jun-1
Jul-1
Aug-1
Sep-1
Oct-1
Nov-1
Dec-1
10-25-75-90
Estimated
Last Yr
Projected
Current
Median
Normal
Max-Min


09277500 ut: duchesne river near tabiona, ut
3000
2500
2000
1500
1000
500
0
Jan-1
Feb-1
Mar-1
Apr-1
May-1
Jun-1
Jul-1
Aug-1
Sep-1
Oct-1
Nov-1
Dec-1
10-25-75-90
Estimated
Last Yr
Projected
Current
Median
Normal
Max-Min


09310500 ut: fish creek above reservoir, near scofield, ut
800
700
600
500
400
300
200
100
0
Jan-1
Feb-1
Mar-1
Apr-1
May-1
Jun-1
Jul-1
Aug-1
Sep-1
Oct-1
Nov-1
Dec-1
10-25-75-90
Estimated
Last Yr
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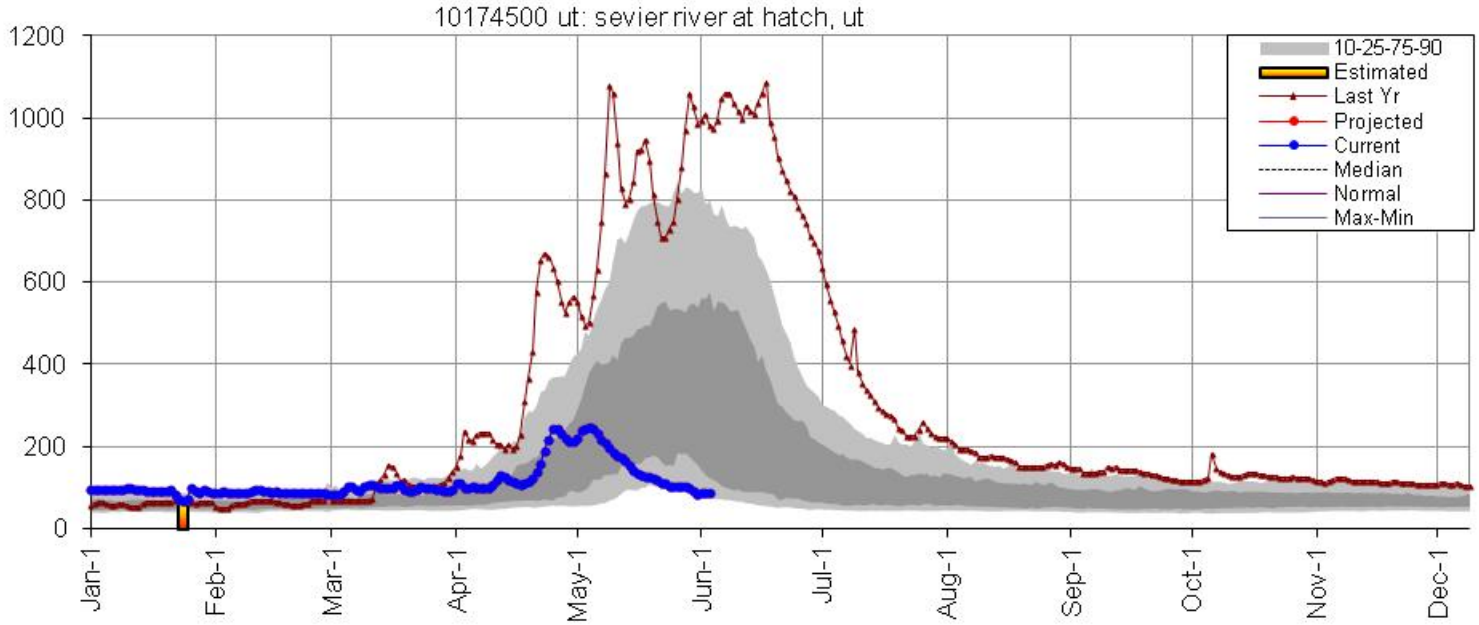
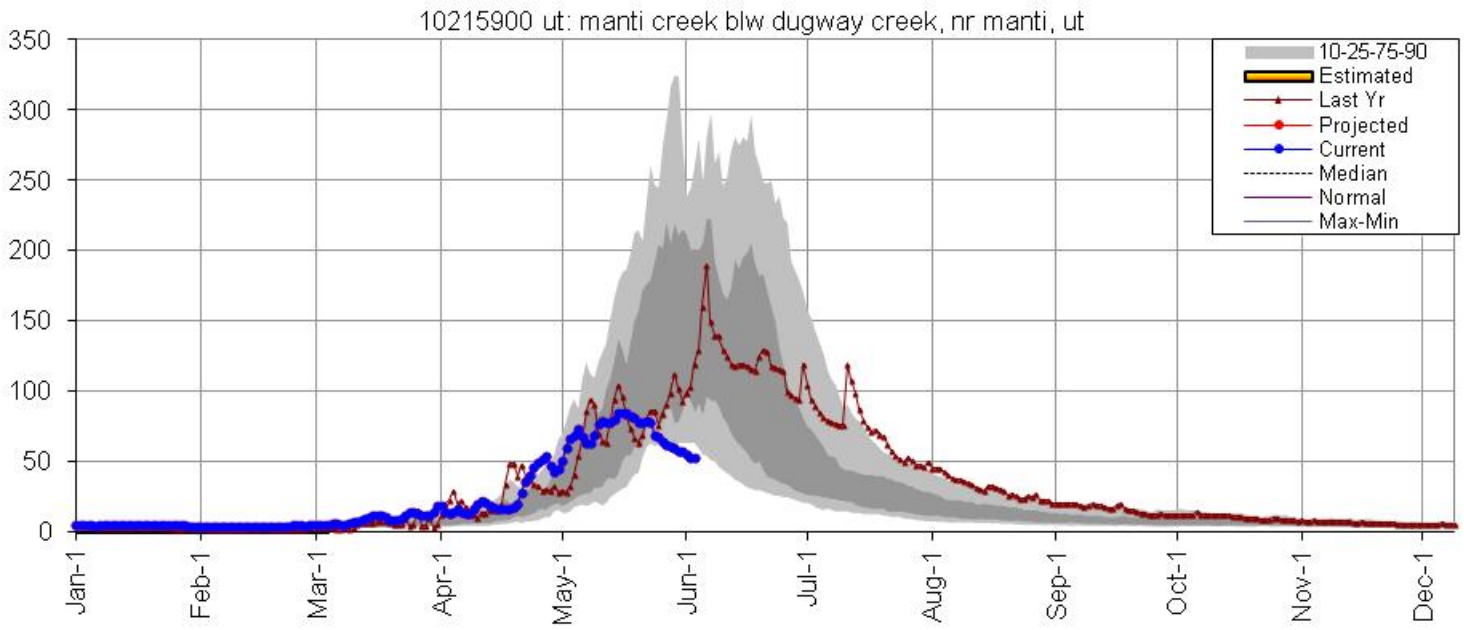
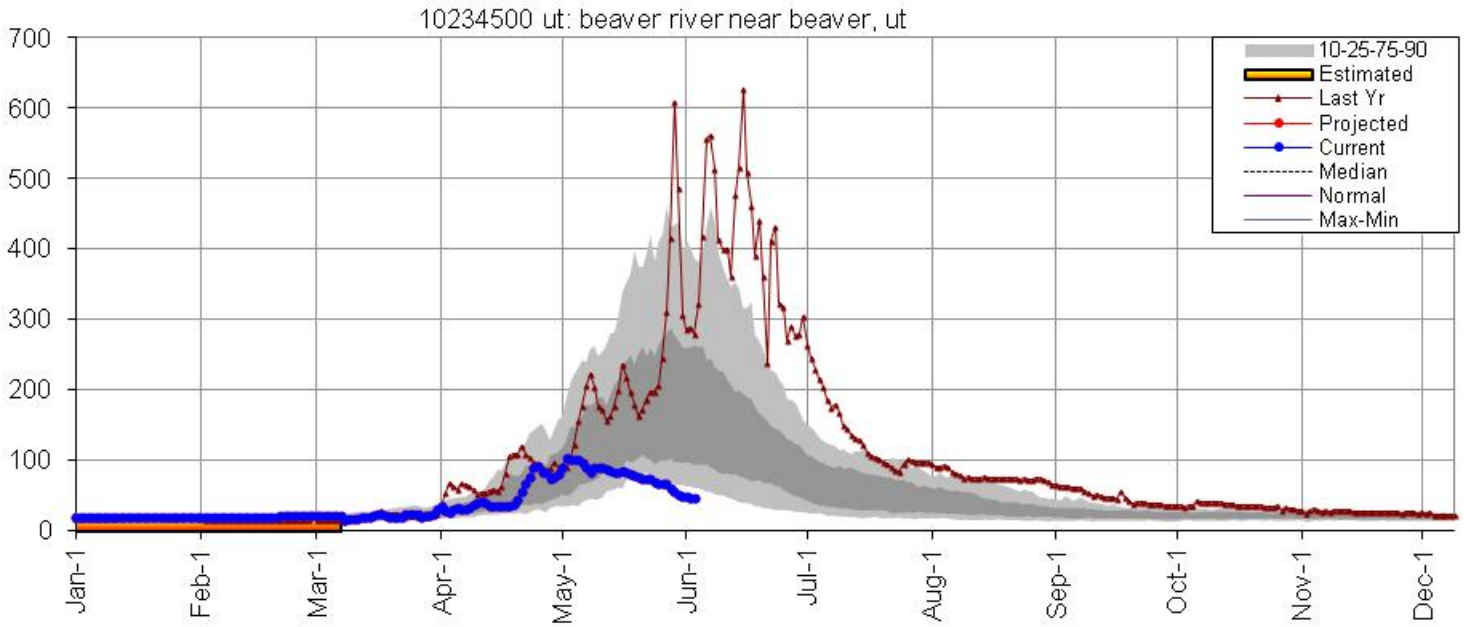
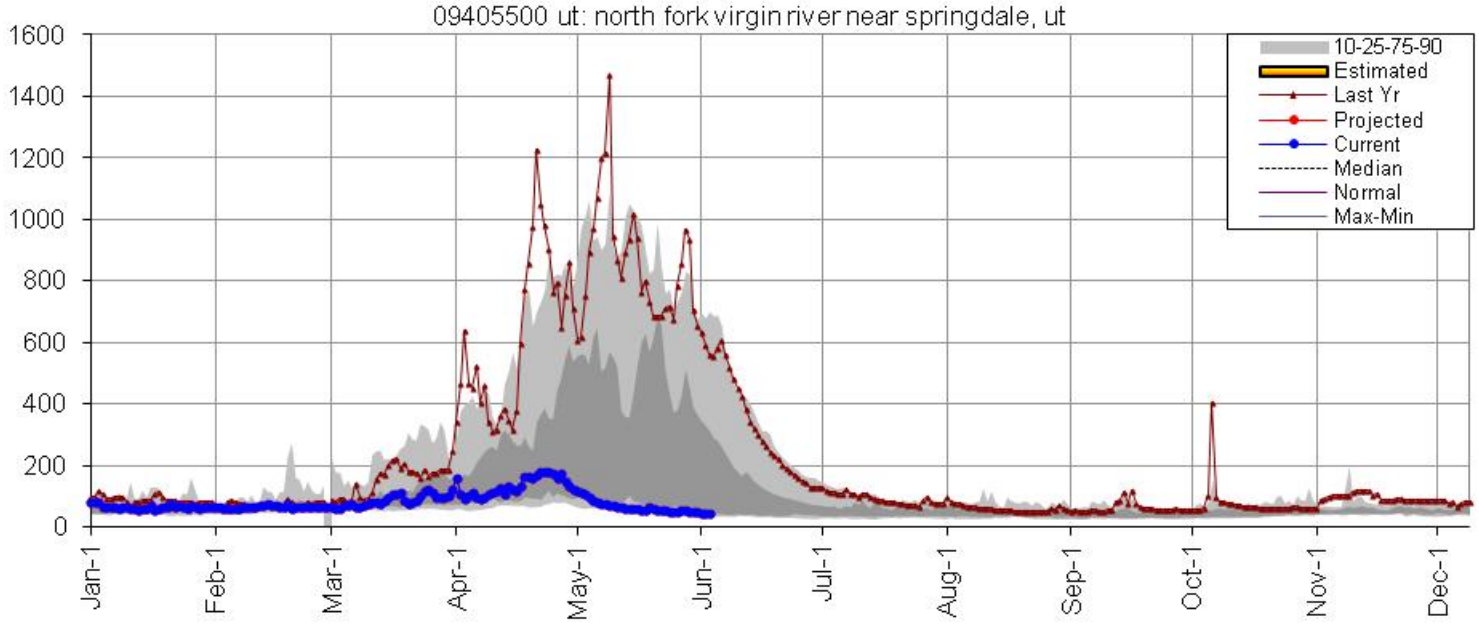
Normal
Max-Min


10174500 ut: sevier river at hatch, ut
1200
1000
800
600
400
200
0
Jan-1
Feb-1
Mar-1
Apr-1
May-1
Jun-1
Jul-1
Aug-1
Sep-1
Oct-1
Nov-1
Dec-1
10-25-75-90
Estimated
Last Yr
Projected
Current
Median
Normal
Max-Min

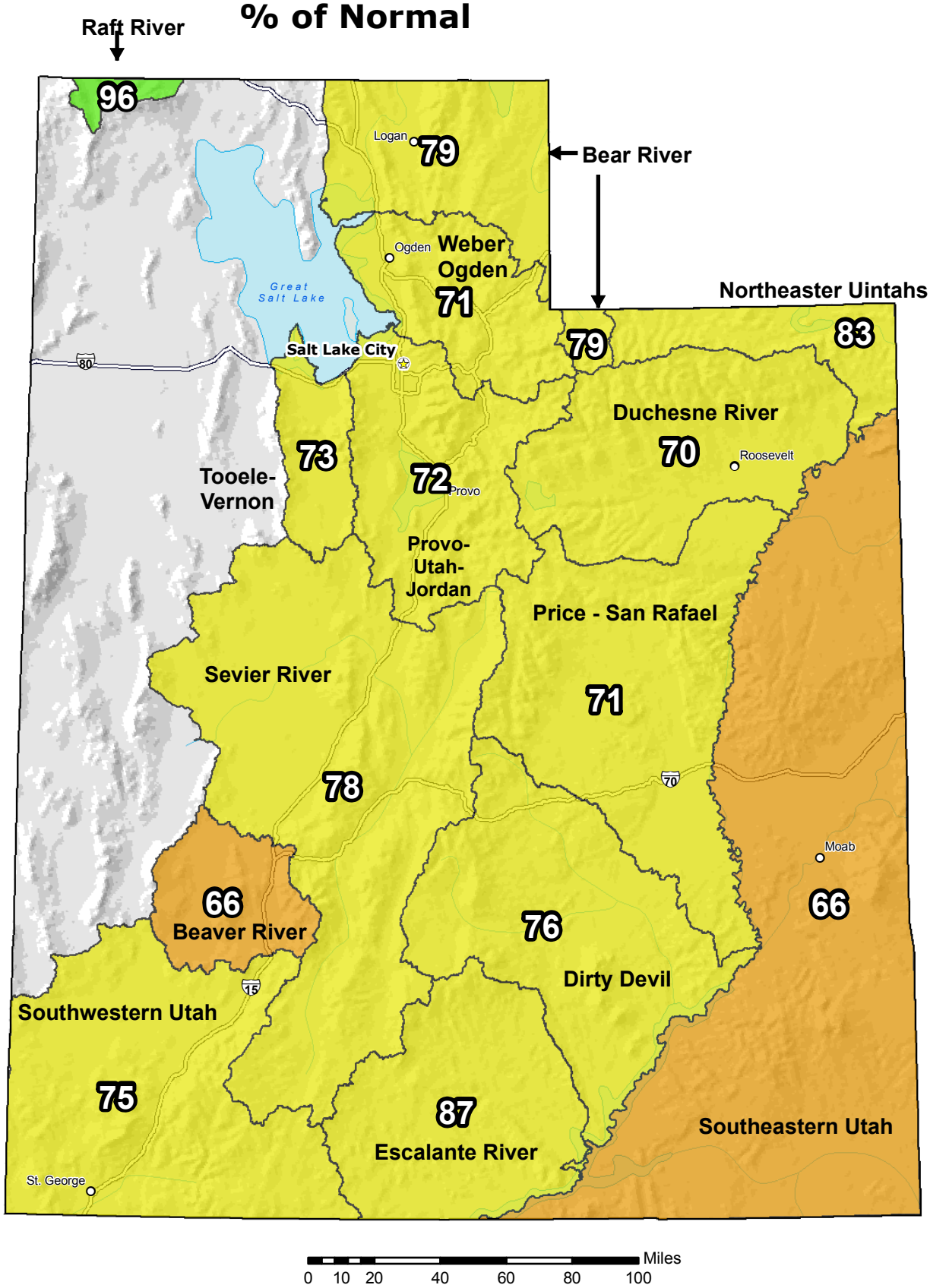

10215900 ut: manti creek blw dugway creek, nr manti, ut
350
300
250
200
150
100
50
0
Jan-1
Feb-1
Mar-1
Apr-1
May-1
Jun-1
Jul-1
Aug-1
Sep-1
Oct-1
Nov-1
Dec-1
10-25-75-90
Estimated
Last Yr
Projected
Current
Median
Normal
Max-Min


10234500 ut: beaver river near beaver, ut
700
600
500
400
300
200
100
0
Jan-1
Feb-1
Mar-1
Apr-1
May-1
Jun-1
Jul-1
Aug-1
Sep-1
Oct-1
Nov-1
Dec-1
10-25-75-90
Estimated
Last Yr
Projected
Current
Median
Normal
Max-Min


09405500 ut: north fork virgin river near springdale, ut
1600
1400
1200
1000
800
600
400
200
0
Jan-1
Feb-1
Mar-1
Apr-1
May-1
Jun-1
Jul-1
Aug-1
Sep-1
Oct-1
Nov-1
Dec-1
10-25-75-90
Estimated
Last Yr
Projected
Current
Median
Normal
Max-Min

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

Jun 01, 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*

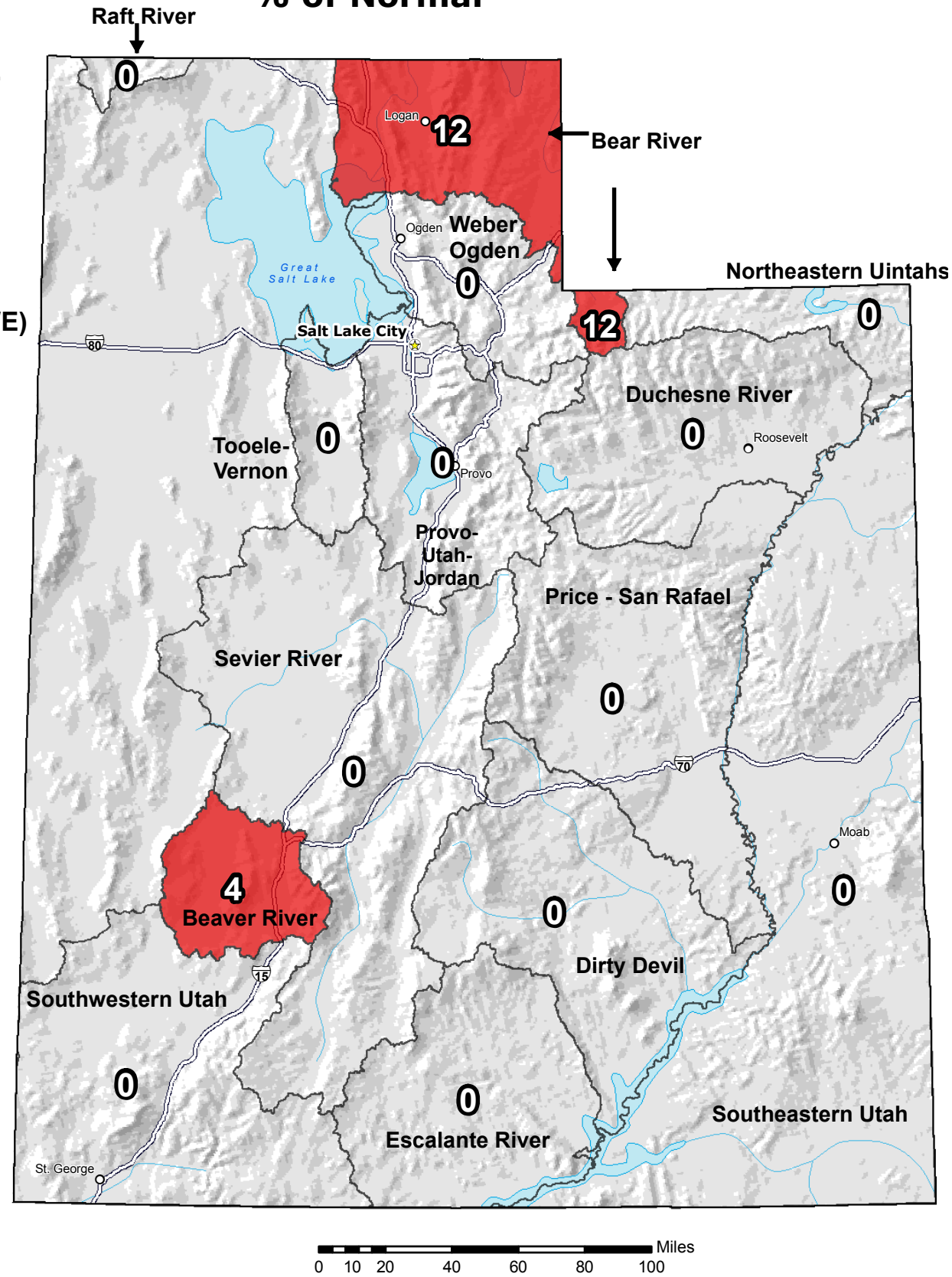
Provisional Data Subject to Revision

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

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

Jun 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*

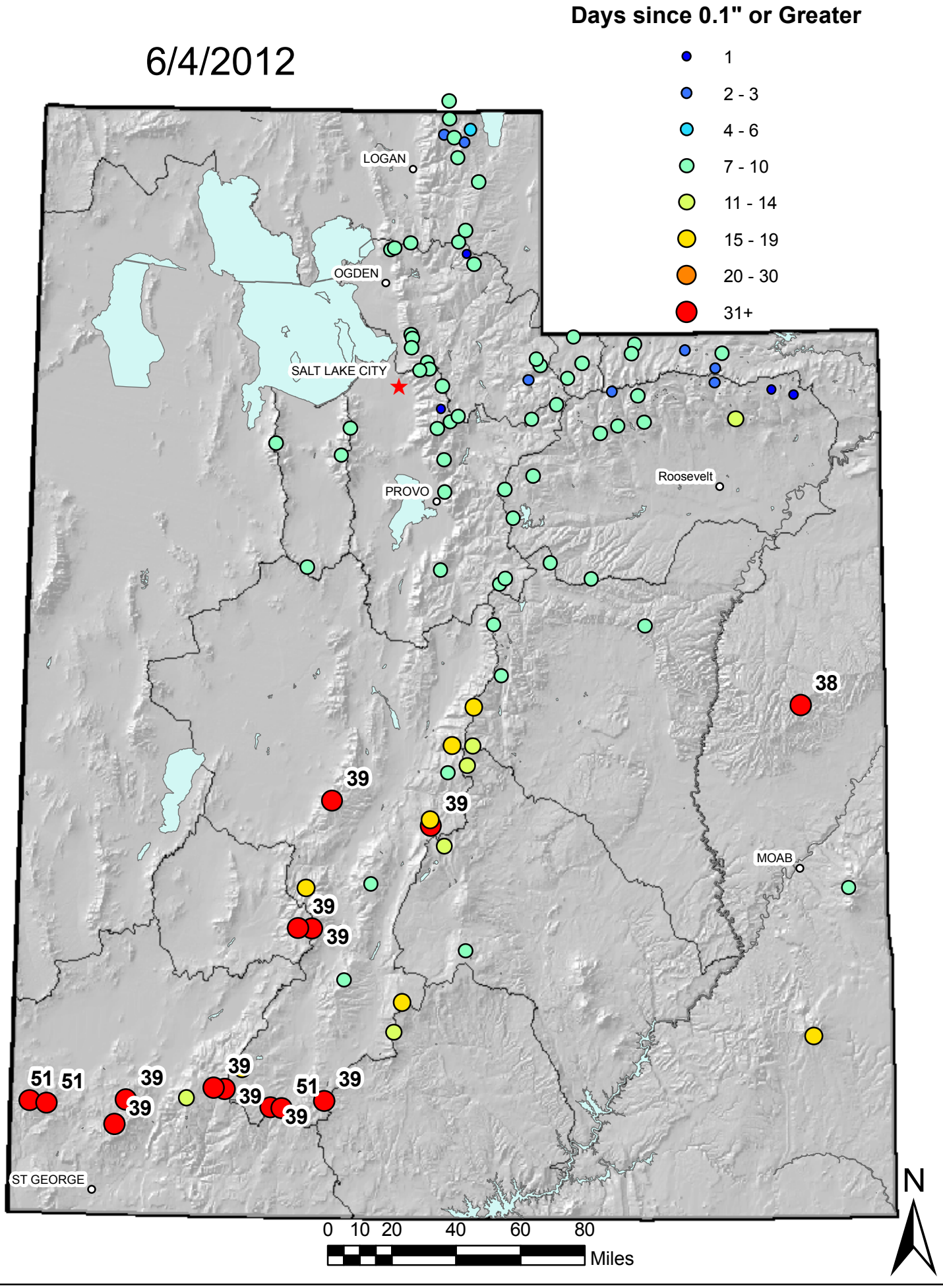
Provisional Data Subject to Revision

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

Days Since Measureable Precipitation

6/4/2012

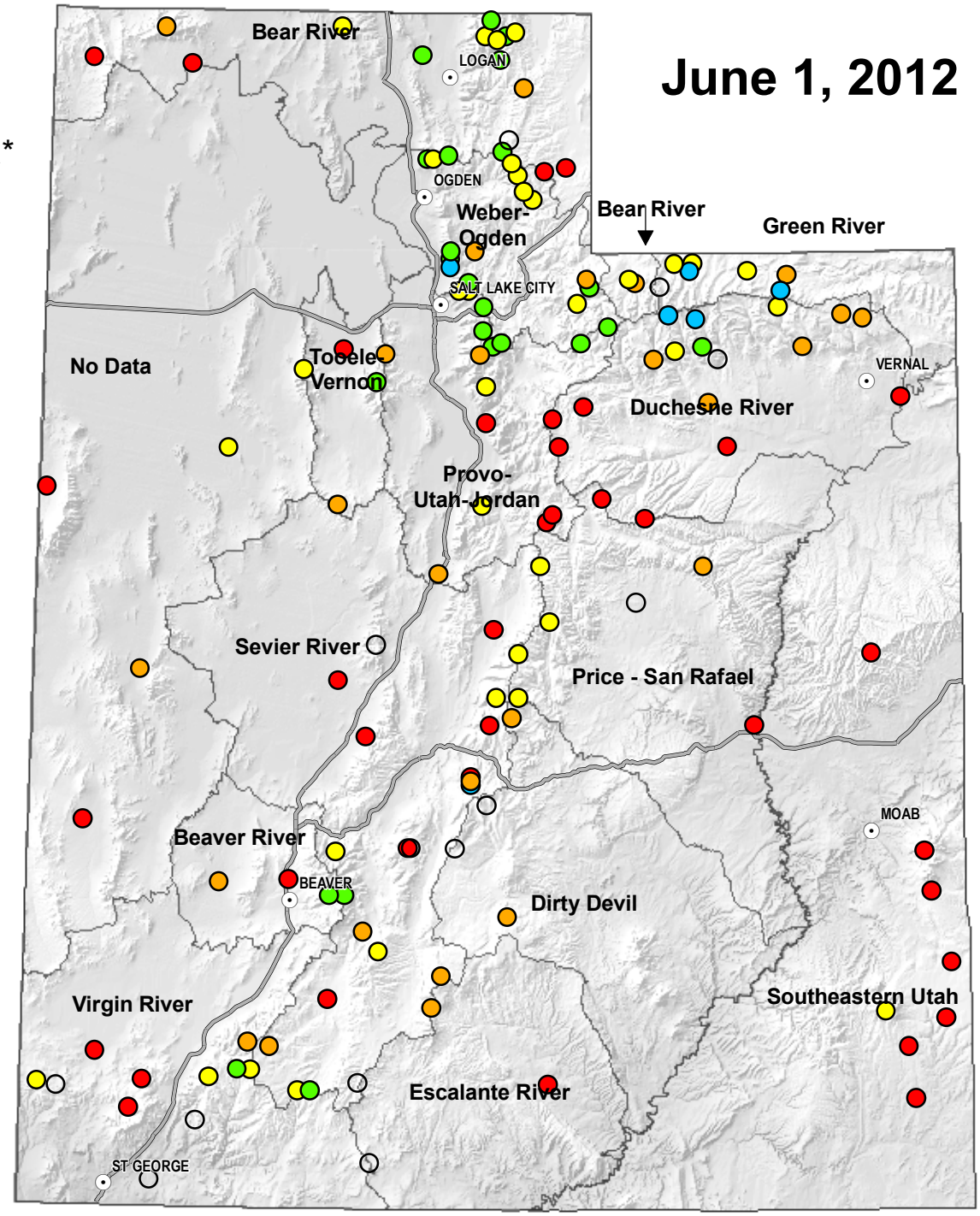


Utah SNOTEL & SCAN 2" Soil Moisture

% Saturation

- Missing Data*
- 1 - 20
- 21 - 40
- 41 - 60
- 61 - 80
- 81 - 100

June 1, 2012



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

Provisional Data Subject to Revision

Statewide Average: 40%

Miles
0 10 20 40 60 80

USDA NRCS

Prepared by the USDA/NRCS Utah DCO
Salt Lake City, Utah http://www.ut.nrcs.usda.gov/snow/
Based on data from http://www.wcc.nrcs.usda.gov

June 1, 2012

BEAR RIVER BASIN

Forecast Point	period	50% (KAF)	% of avg	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr avg
Bear R nr UT-WY State Line	APR-JUL	63	56	83	71	55	43	113
	APR-SEP	70	56	94	80	60	46	125
	JUN-JUL	21	30	38	28	14.3	4.5	70
	JUN-SEP	28	34	47	36	20	9.0	82
Bear R ab Res nr Woodruff	APR-JUL	38	28	69	51	25	6.6	136
	APR-SEP	40	28	71	53	27	8.6	142
	JUN-JUL	9.0	14	30	17.5	4.5	0.64	64
	JUN-SEP	11.0	15	33	20	3.6	0.71	71
Big Ck nr Randolph	APR-JUL	2.5	51	3.2	2.8	2.2	1.98	4.9
	JUN-JUL	0.59	26	1.29	0.89	0.29	0.069	2.3
Smiths Fk nr Border	APR-JUL	51	50	65	57	46	37	103
	APR-SEP	59	49	76	66	52	42	121
	JUN-JUL	20	33	34	26	14.2	5.6	61
	JUN-SEP	28	36	45	35	21	10.8	77
Bear R bl Stewart Dam	APR-JUL	38	16	123	72	9.4	2.3	234
	APR-SEP	45	17	140	83	6.6	2.6	262
	JUN-JUL	7.0	6	63	30	2.2	1.10	110
	JUN-SEP	14.0	10	87	44	5.5	1.38	138
Little Bear R at Paradise	APR-JUL	15.4	33	30	21	9.6	1.00	46
	JUN-JUL	5.0	42	9.7	6.9	3.1	0.30	11.9
Logan R nr Logan	APR-JUL	68	54	96	79	57	40	126
	JUN-JUL	25	36	38	30	19.9	12.4	70
Blacksmith Fork nr Hyrum	APR-JUL	22	46	42	30	13.7	1.50	48
	JUN-JUL	7.0	35	15.0	10.2	3.8	0.40	20
Dunn Ck nr Park Valley	APR-JUL	1.00	32	2.8	1.72	0.28	0.030	3.1
	JUN-JUL	0.50	30	1.54	0.95	0.120	0.020	1.66

WEBER & OGDEN WATERSHEDS in Utah

Forecast Point	period	50% (KAF)	% of avg	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr avg
Smith & Morehouse Res Inflow	APR-JUL	17.0	50	20	18.3	15.7	13.8	34
	JUN-JUL	6.1	32	9.2	7.4	4.8	2.9	19.1
Weber R nr Oakley	APR-JUL	62	50	86	72	52	38	123
	JUN-JUL	22	31	43	30	13.6	1.24	71
Rockport Res	APR-JUL	49	37	82	63	35	15.5	134
	JUN-JUL	14.0	19	36	23	5.0	0.72	72
Weber R nr Coalville	APR-JUL	46	34	78	59	33	14.0	137
	JUN-JUL	10.0	15	33	19.1	3.4	0.68	68
Chalk Ck at Coalville	APR-JUL	14.3	32	31	21	7.6	0.45	45
	JUN-JUL	3.0	17	14.8	7.4	0.52	0.172	17.2
Echo Res Inflow	APR-JUL	60	34	121	85	35	3.6	179
	JUN-JUL	13.0	16	59	31	4.2	0.83	83
Lost Ck Resv Inflow	APR-JUL	4.6	26	12.3	7.7	1.50	0.176	17.6
	JUN-JUL	1.00	22	3.2	1.84	0.23	0.046	4.6
East Canyon Ck nr Jeremy Ranch	APR-JUL	10.0	70	13.8	11.6	8.4	6.2	14.2
	JUN-JUL	3.0	68	6.2	4.3	1.69	0.088	4.4
East Canyon Ck nr Morgan	APR-JUL	9.6	31	18.5	13.2	6.0	0.69	31
	JUN-JUL	2.0	21	7.1	4.1	0.47	0.090	9.4
Weber R at Gateway	APR-JUL	94	26	233	150	38	3.6	355
	JUN-JUL	19.0	15	86	46	6.3	1.26	126
SF Ogden R nr Huntsville	APR-JUL	21	33	57	36	6.5	0.64	64
	JUN-JUL	5.0	31	10.9	7.4	2.6	0.32	16.2
Pineview Res Inflow	APR-JUL	48	36	133	82	13.6	2.7	133
	JUN-JUL	8.0	27	26	14.7	1.50	0.30	30
Wheeler Ck nr Huntsville	APR-JUL	2.0	32	4.3	2.9	1.08	0.130	6.3
	JUN-JUL	0.54	26	1.80	1.05	0.110	0.020	2.1
Centerville Ck	APR-JUL	0.40	31	0.90	0.60	0.20	0.040	1.28
	JUN-JUL	0.150	27	0.50	0.35	0.050	0.010	0.56

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY

Forecast Point	period	50% (KAF)	% of avg	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr avg
Salt Ck at Nephi	APR-JUL	2.2	23	7.3	5.3	0.56	0.090	9.4
	JUN-JUL	0.68	15	3.1	1.67	0.23	0.050	4.6
Spanish Fk at Castilla	APR-JUL	20	26	74	48	3.8	0.77	77
	JUN-JUL	5.0	19	24	12.7	0.78	0.26	26
Provo R nr Woodland	APR-JUL	54	52	90	67	42	27	103
	JUN-JUL	13.0	25	36	22	3.7	1.04	52
Provo R nr Hailstone	APR-JUL	58	53	108	76	42	24	109
	JUN-JUL	15.0	28	31	21	10.3	4.9	53
Provo R bl Deer Ck Dam	APR-JUL	55	44	88	68	42	22	126
	JUN-JUL	12.0	18	33	20	3.7	0.66	66
American Fk ab Upper Powerplant	APR-JUL	12.2	38	21	15.7	8.7	3.6	32
	JUN-JUL	4.0	20	12.3	7.4	0.63	0.20	20
Utah Lake Inflow	APR-JUL	78	24	420	216	26	6.5	325
	JUN-JUL	27	22	111	77	11.0	1.22	122
W Canyon Ck nr Cedar Fort	APR-JUL	0.25	10	1.14	0.61	0.072	0.024	2.4
	JUN-JUL	0.100	9	0.59	0.30	0.023	0.012	1.16
L Cottonwood Ck nr SLC	APR-JUL	21	53	30	24	17.8	13.6	40
	JUN-JUL	8.5	33	14.3	10.6	6.6	4.2	26
Big Cottonwood Ck nr SLC	APR-JUL	17.0	45	28	22	12.4	5.7	38
	JUN-JUL	5.8	28	12.5	8.5	3.1	0.63	21
Mill Ck nr SLC	APR-JUL	2.5	36	5.9	3.9	1.11	0.140	7.0
	JUN-JUL	1.00	28	2.7	1.69	0.31	0.036	3.6
Parley's Ck nr SLC	APR-JUL	3.7	22	9.7	6.1	1.29	0.167	16.7
	JUN-JUL	1.00	17	3.6	2.1	0.29	0.058	5.8
Dell Fk nr SLC	APR-JUL	1.22	18	4.9	2.7	0.27	0.068	6.8
	JUN-JUL	0.30	18	1.39	0.79	0.070	0.020	1.68
Emigration Ck nr SLC	APR-JUL	0.60	13	3.2	1.63	0.135	0.045	4.5
	JUN-JUL	0.150	12	0.87	0.44	0.037	0.012	1.24
City Ck nr SLC	APR-JUL	3.3	38	6.6	4.6	1.97	0.087	8.7
	JUN-JUL	1.20	29	2.9	1.90	0.50	0.042	4.2

Vernon Ck nr Vernon	APR-JUL	0.65	44	1.56	1.02	0.28	0.044	1.48
	JUN-JUL	0.180	32	0.51	0.31	0.050	0.006	0.57
S Willow Ck nr Grantsville	APR-JUL	1.51	47	2.7	2.0	1.02	0.29	3.2
	JUN-JUL	0.60	33	1.20	0.84	0.36	0.040	1.81

SEVIER & BEAVER RIVER BASINS

Forecast Point	period	50% (KAF)	% of avg	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr avg
Mammoth Ck nr Hatch	APR-JUL	10.0	39	24	17.0	1.54	0.26	26
	JUN-JUL	3.5	26	12.6	7.6	0.95	0.140	13.6
Sevier R at Hatch	APR-JUL	24	44	39	30	17.9	8.8	55
	JUN-JUL	6.0	22	11.4	8.2	3.8	0.61	27
Sevier R nr Kingston	APR-JUL	9.2	28	29	17.4	1.02	0.33	33
	JUN-JUL	3.0	22	12.7	6.3	0.97	0.140	13.8
EF Sevier R nr Kingston	APR-JUL	24	69	42	31	17.6	7.5	35
	JUN-JUL	10.0	56	21	14.6	5.4	0.36	18.0
Sevier R bl Piute Dam	APR-JUL	30	45	83	50	10.6	0.66	66
	JUN-JUL	11.0	34	38	20	4.6	0.64	32
Clear Ck ab Diversions nr Sevier	APR-JUL	12.0	55	19.0	14.8	9.2	5.0	22
	JUN-JUL	1.20	13	3.0	1.82	0.71	0.22	9.2
Salina Ck nr Emery	APR-JUL	3.3	37	8.5	5.4	1.21	0.090	9.0
	JUN-JUL	1.00	26	2.1	1.44	0.56	0.040	3.8
Salina Ck at Salina	APR-JUL	7.0	36	16.3	10.3	4.4	1.59	19.7
	JUN-JUL	1.50	23	6.7	3.2	0.46	0.128	6.4
Manti Ck Blw Dugway Ck Nr Manti	APR-JUL	9.0	49	12.4	10.3	7.8	6.2	18.3
	JUN-JUL	3.0	28	6.0	4.1	2.1	1.07	10.8
Sevier R nr Gunnison	APR-JUL	42	40	72	54	30	12.0	106
	JUN-JUL	16.0	31	54	31	4.6	0.51	51
Chicken Ck nr Levan	APR-JUL	0.90	20	1.23	1.03	0.79	0.63	4.5
	JUN-JUL	0.100	8	0.46	0.22	0.030	0.010	1.24
Oak Creek nr Oak City	APR-JUL	0.33	20	0.54	0.41	0.26	0.170	1.66
	JUN-JUL	0.040	13	0.170	0.080	0.010	0.000	0.31
Beaver R nr Beaver	APR-JUL	12.0	44	24	16.7	7.3	0.35	27

	JUN-JUL	4.0	27	7.0	5.0	3.2	2.3	14.7
Minersville Res Inflow	APR-JUL	5.0	30	11.7	7.3	3.3	1.52	16.6
	JUN-JUL	2.0	21	6.7	3.6	0.89	0.060	9.4

E. GARFIELD, KANE, WASHINGTON, & IRON Co.

Forecast Point	period	50% (KAF)	% of avg	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr avg
Coal Ck nr Cedar City	APR-JUL	10.4	54	13.5	11.7	9.1	7.3	19.3
	JUN-JUL	2.0	31	6.4	3.8	0.33	0.130	6.5

Duchesne, Ashley-Brush

Forecast Point	period	50% (KAF)	% of avg	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr avg
Big Brush Ck ab Red Fleet Reservoir	APR-JUL	8.5	40	10.5	9.2	7.9	7.2	21
	JUN-JUL	2.0	20	4.0	2.7	1.38	0.67	10.1
Ashley Ck nr Vernal	APR-JUL	22	42	28	24	20	17.9	52
	JUN-JUL	6.0	22	12.5	8.3	4.0	1.87	28
WF Duchesne R at VAT Diversion	APR-JUL	8.0	43	10.6	8.9	7.3	6.6	18.7
	JUN-JUL	1.80	18	4.4	2.7	1.08	0.35	9.9
Duchesne R nr Tabiona (2)	APR-JUL	55	52	71	61	50	44	105
	JUN-JUL	16.0	27	32	22	11.1	5.5	60
Upper Stillwater Reservoir Inflow (	APR-JUL	41	50	51	44	38	34	82
	JUN-JUL	16.0	29	26	19.6	12.8	8.7	56
Rock Ck nr Mountain Home (2)	APR-JUL	47	53	58	51	44	39	89
	JUN-JUL	18.0	29	29	22	14.4	9.8	62
Duchesne R ab Knight Diversion (2)	APR-JUL	102	54	128	112	94	84	188
	JUN-JUL	33	28	59	43	25	14.6	117
Strawberry R nr Soldier Springs (2)	APR-JUL	6.0	10	8.5	7.0	5.5	5.5	59
	JUN-JUL	0.50	3	3.0	1.53	0.030	0.000	16.0
Currant Ck Reservoir Inflow (2)	APR-JUL	5.9	30	7.6	6.6	5.4	5.1	19.8

	JUN-JUL	0.80	11	2.5	1.55	0.29	0.000	7.4
Strawberry R nr Duchesne (2)	APR-JUL	24	20	28	26	21	19.6	121
	JUN-JUL	4.0	10	8.0	6.5	1.59	0.030	41
Lake Fork R ab Moon Lake Reservoir	APR-JUL	36	53	45	39	33	29	68
	JUN-JUL	15.0	32	24	18.3	12.0	8.2	47
Yellowstone R nr Altonah	APR-JUL	34	55	42	37	32	28	62
	JUN-JUL	15.0	33	23	18.1	12.2	8.5	45
Duchesne R at Myton (2)	APR-JUL	98	31	119	111	89	84	315
	JUN-JUL	14.0	8	35	27	5.4	0.050	167
Uinta R bl Powerplant Diversion nr	APR-JUL	38	48	47	44	31	29	79
	JUN-JUL	19.0	33	28	25	12.0	10.0	57
Whiterocks R nr Whiterocks	APR-JUL	24	43	31	27	22	18.7	56
	JUN-JUL	9.0	24	16.5	11.8	6.6	3.8	38
Duchesne R nr Randlett (2)	APR-JUL	104	28	129	119	94	89	375
	JUN-JUL	15.0	7	40	30	5.2	0.000	205

Price, San Rafael, Muddy, Fremont, Escalante, Mill

Forecast Point	period	50% (KAF)	% of avg	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr avg
Fish Creek ab Reservoir nr Scofield	APR-JUL	10.0	31	13.2	12.4	9.2	8.9	32
	JUN-JUL	1.80	16	5.0	4.2	1.00	0.70	11.5
Price R nr Scofield Reservoir (2)	APR-JUL	12.7	28	15.1	13.5	12.1	11.5	45
	JUN-JUL	1.70	10	4.1	2.5	1.09	0.48	17.0
White R bl Tabbyune Ck	APR-JUL	2.3	13	3.1	2.6	2.0	1.84	17.3
	JUN-JUL	0.50	12	1.36	0.80	0.27	0.060	4.2
Electric Lake Inflow (2)	APR-JUL	4.3	27	5.3	4.7	4.1	3.7	15.7
	JUN-JUL	0.80	14	1.79	1.15	0.51	0.20	5.8
Huntington Ck nr Huntington (2)	APR-JUL	18.2	37	22	19.7	16.8	15.1	49
	JUN-JUL	7.0	27	11.0	8.5	5.6	3.9	26
Joe's Valley Reservoir Inflow (2)	APR-JUL	22	38	29	25	21	19.0	58
	JUN-JUL	4.0	11	10.4	6.2	2.3	0.61	35
Ferron Ck (Upper Station) nr Ferron	APR-JUL	15.5	40	18.3	16.5	14.6	13.6	39
	JUN-JUL	3.5	15	6.3	4.5	2.6	1.53	23

Seven Mile Ck nr Fish Lake	APR-JUL	4.7	67	6.8	5.5	4.4	4.2	7.0
	JUN-JUL	0.75	24	2.9	1.63	0.50	0.30	3.1
Muddy Ck nr Emery	APR-JUL	6.9	35	9.3	7.8	6.1	5.2	19.9
	JUN-JUL	2.5	21	4.9	3.4	1.75	0.89	11.9
Pine Ck nr Escalante	APR-JUL	1.21	50	1.50	1.31	1.14	1.07	2.4
	JUN-JUL	0.150	16	0.44	0.25	0.080	0.010	0.94
Mill Ck at Sheley Tunnel nr Moab	APR-JUL	1.34	27	1.68	1.46	1.23	1.11	5.0
	JUN-JUL	0.50	20	0.84	0.62	0.39	0.27	2.5
South Ck ab Lloyd's Res nr Monticel	MAR-JUL	0.180	13	0.24	0.20	0.170	0.160	1.38
	JUN-JUL	0.030	9	0.090	0.050	0.020	0.010	0.33

Lake Powell and Major Tributaries

Forecast Point	period	50% (KAF)	% of avg	max (KAF)	30% (KAF)	70% (KAF)	min (KAF)	30-yr avg
Green R at Green River, UT (2)	APR-JUL	1240	39	1500	1340	1150	1040	3170
	JUN-JUL	400	23	665	500	310	200	1710
Colorado R nr Cisco (2)	APR-JUL	1470	32	1700	1560	1390	1290	4650
	JUN-JUL	450	18	680	535	370	270	2550
San Juan R nr Bluff (2)	APR-JUL	405	33	455	425	395	375	1230
	JUN-JUL	42	8	91	59	28	11.9	560
Lake Powell Inflow (2)	APR-JUL	2010	25	2450	2170	1870	1710	7930
	JUN-JUL	450	10	890	610	315	158	4640

Max is 90th percentile and min is 10th percentile except with footnote 1 below.

Averages are for the 1971-2000 period.

All volumes are in thousands of acre-feet.

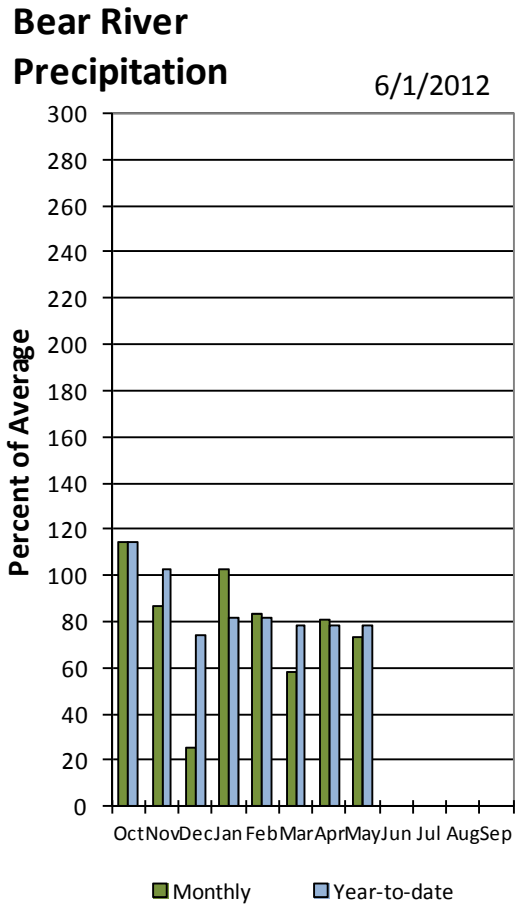
footnotes:

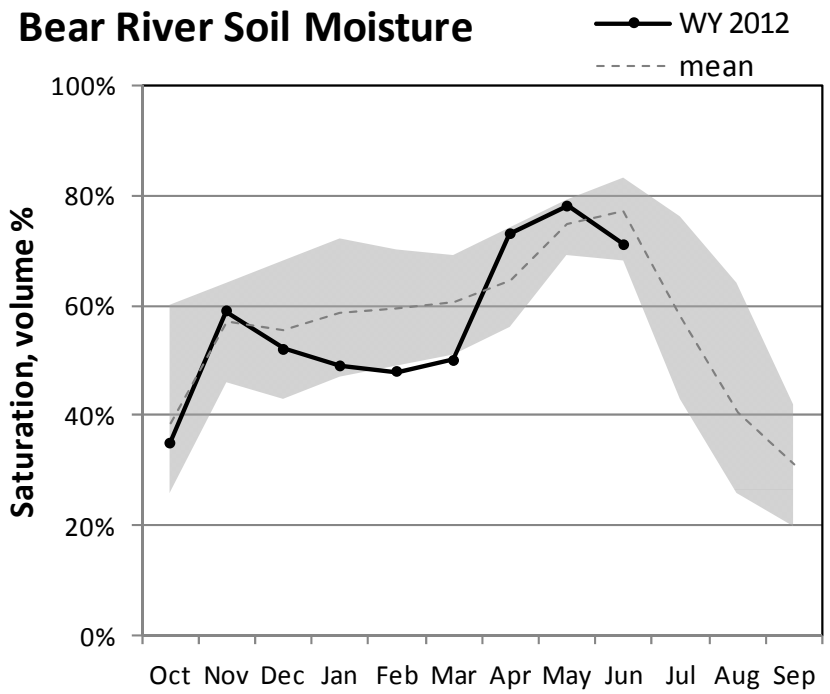
1) max is 95th percentile and min is 5th percentile

2) streamflow is adjusted for upstream storage

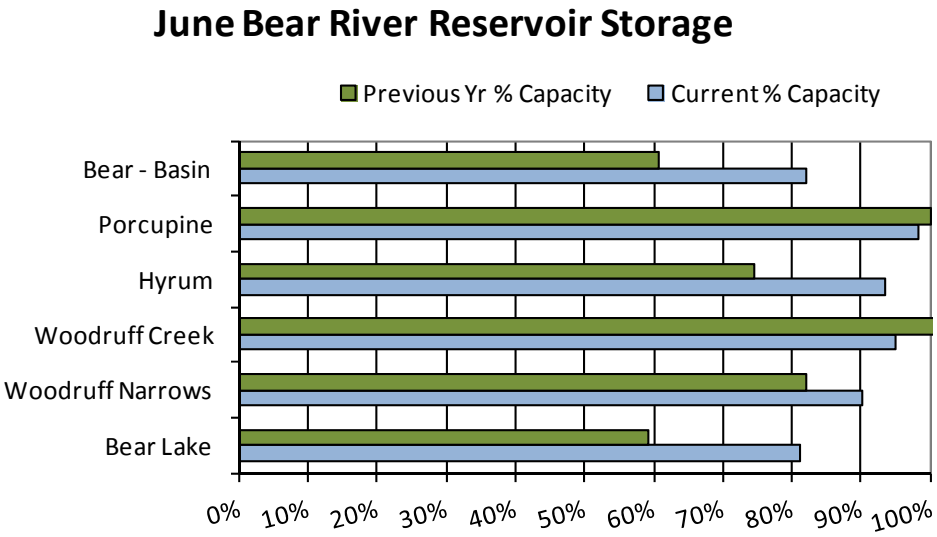
Bear River Basin
June 1, 2012

Precipitation in May was below average at 76% which brings the water year accumulation to 79%. Reservoir storage is at 82% of capacity, which is 21% higher than this time last year. Soil moisture is at 71% compared to 83% last year.





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.

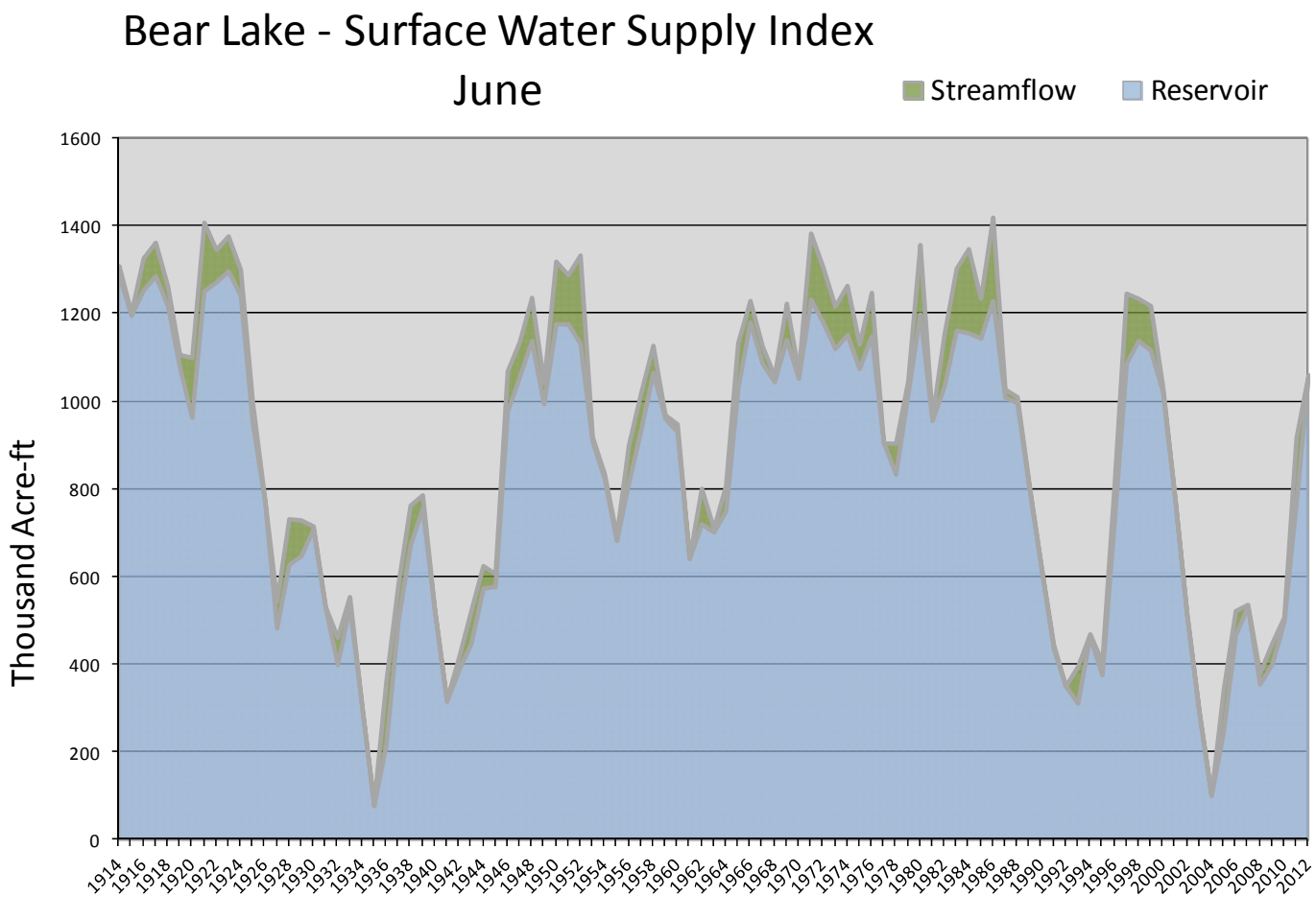


June 1, 2012

Water Availability Index

Basin or Region	May EOM* Bear Lake	May accumulated inflow to Bear Lake (*observed*)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Bear River	**1058**	**2**	**1060**	**0.92**	**61**	**79,68,70,46**

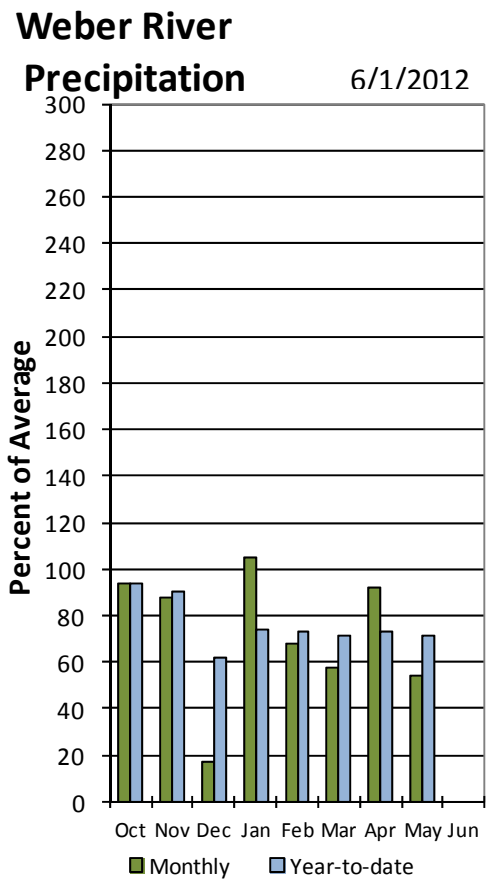
**EOM, end of month; #WAI, water availability index; ^KAF, thousand acre-feet.*

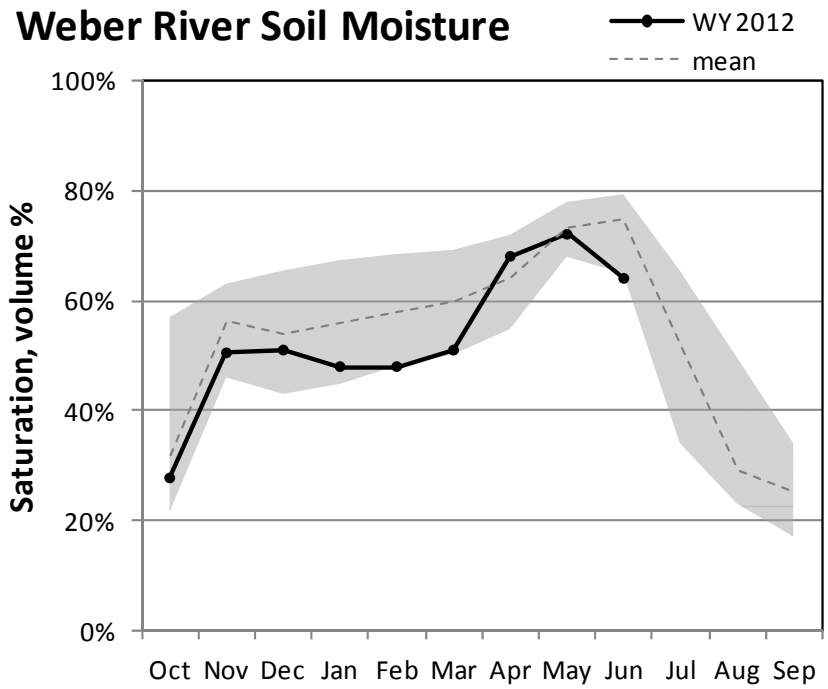


Weber and Ogden River Basin

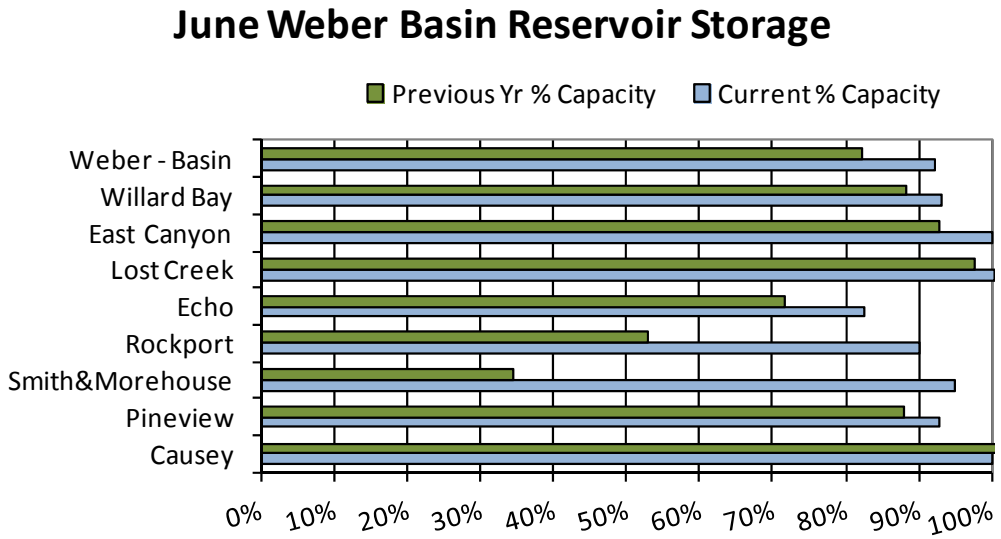
June 1, 2012

Precipitation in May was much below average at 54% which brings the water year accumulation to 71%. Reservoir storage is at 92% of capacity, which is 10% higher than this time last year. Soil moisture is at 64% compared to 79% last year.





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.

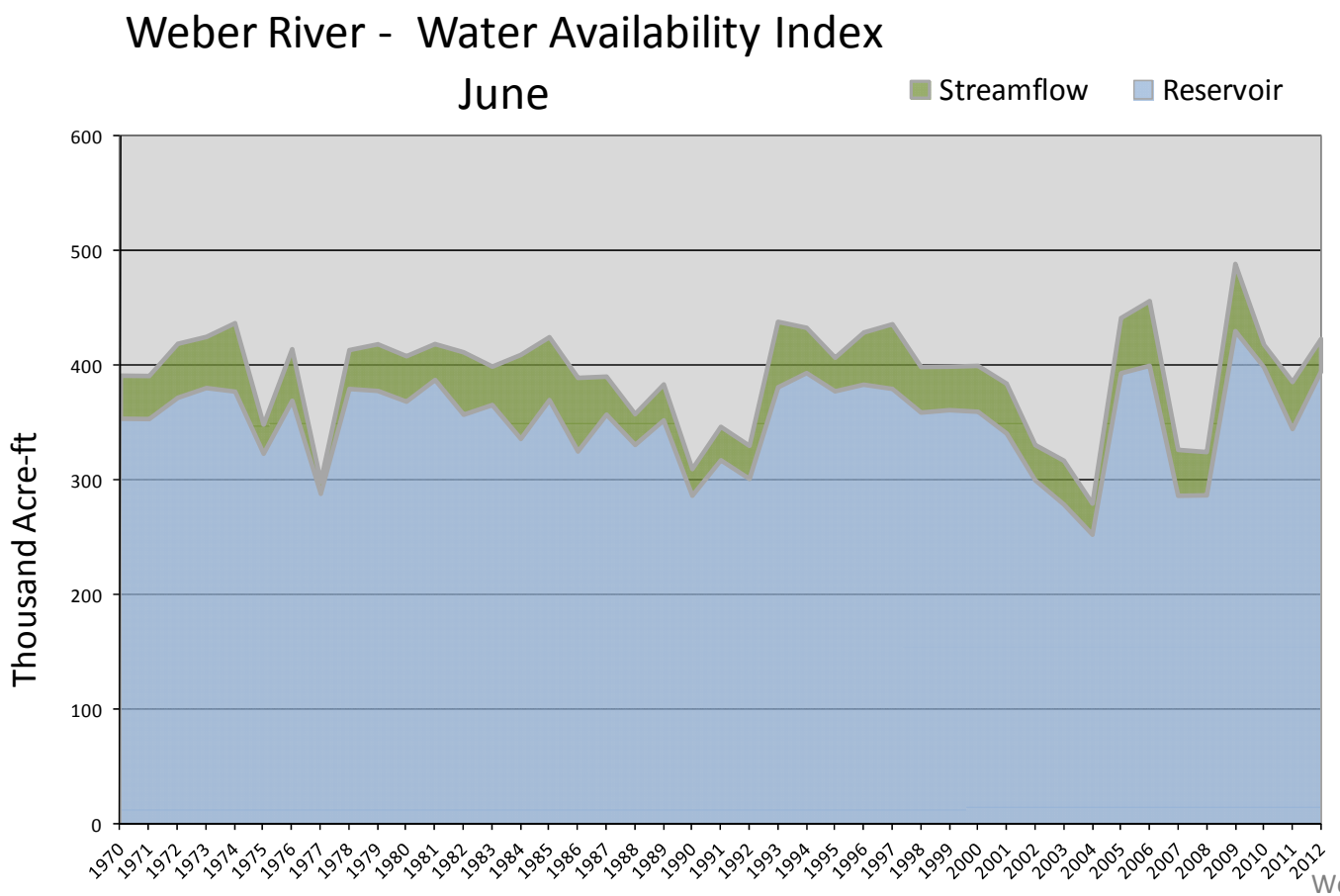


June 1, 2012

Water Availability Index

Basin or Region	May EOM* Reservoirs	May accumulated flow at Weber near Oakley (*observed*)	Reservoirs + Streamflow	WAI#	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Weber River	**396**	**28.0**	**424**	**2.08**	**75**	**81,72,85,73**

**EOM, end of month; #WAI, water availability index; ^KAF, thousand acre-feet.*

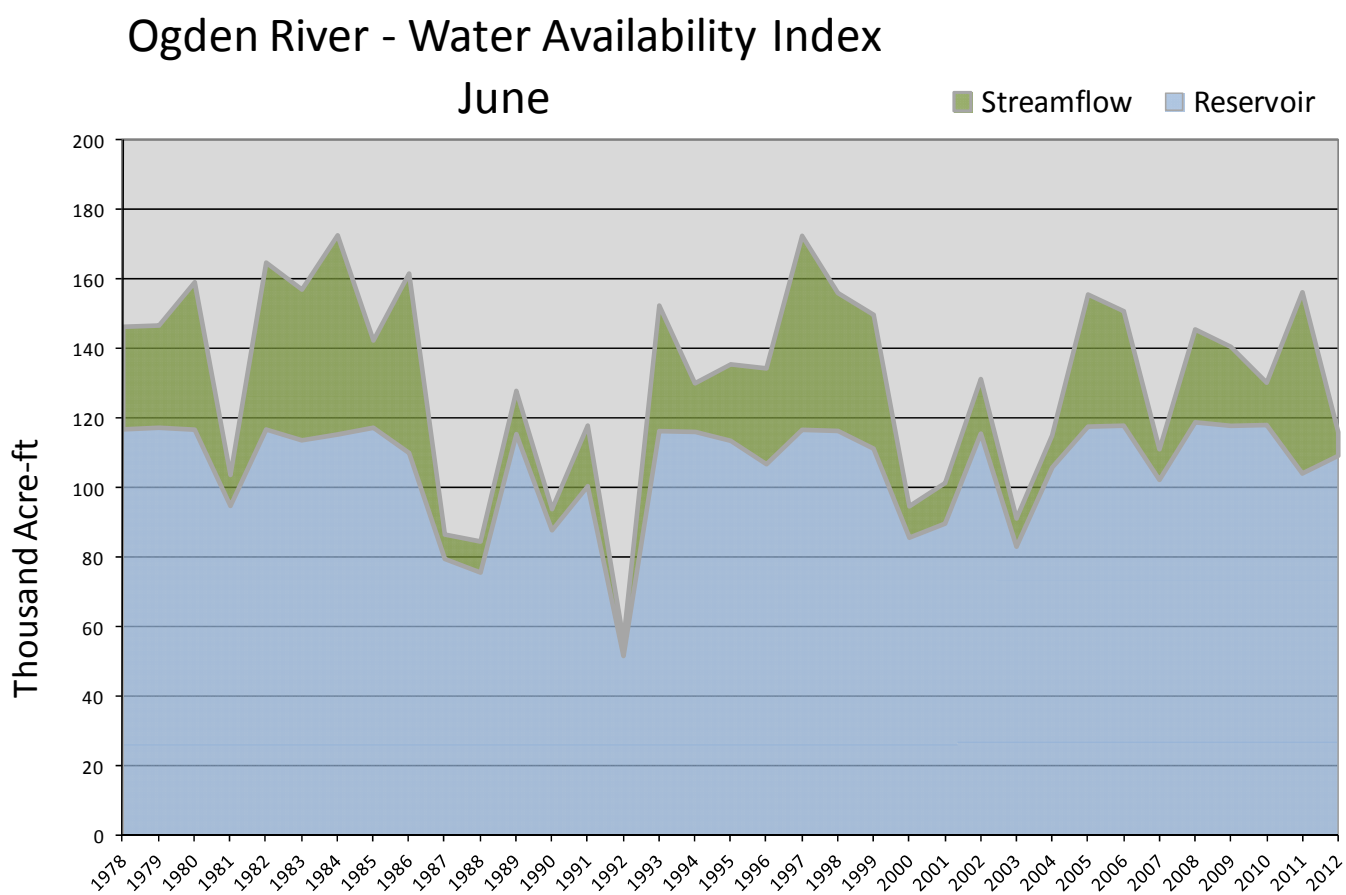


June 1, 2012

Water Availability Index

Basin or Region	May EOM* Pine View & Causey	May accumulated flow at South Fork Ogden (*observed*)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Ogden River	**109**	**7.0**	**116**	**-1.62**	**31**	**07,04,91,89**

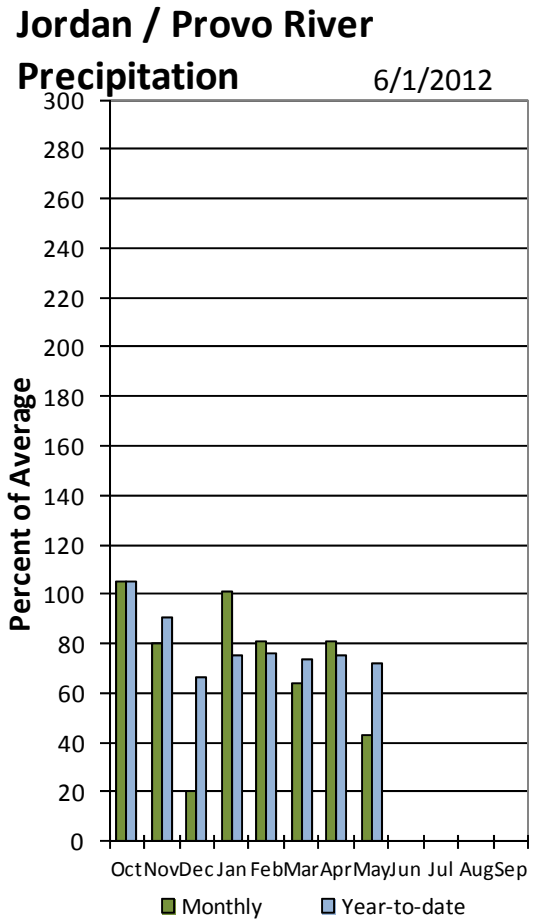
**EOM, end of month; #WAI, water availability index; ^KAF, thousand acre-feet.*

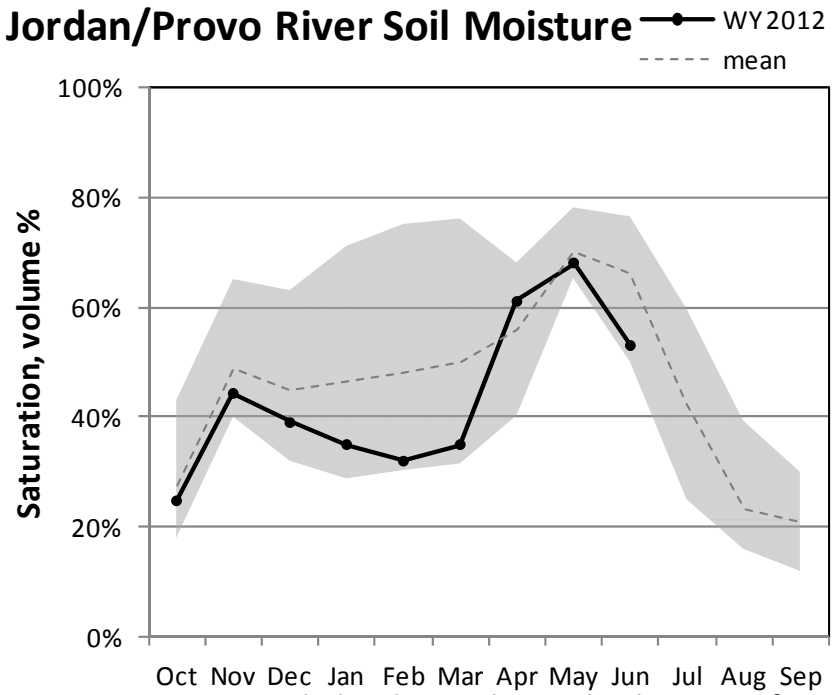


Utah Lake, Jordan River, & Tooele Valley Basins

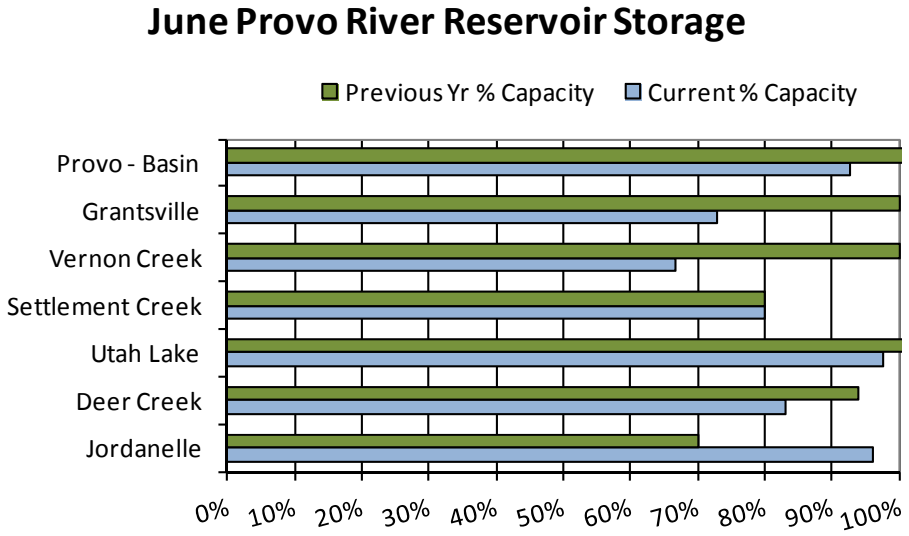
June 1, 2012

Precipitation in May was much below average at 43%, bringing water year accumulation to 72%. Reservoir storage is at 93% of capacity, which is 8% less than this time last year. Soil moisture is at 53% compared to 76% last year at this time.



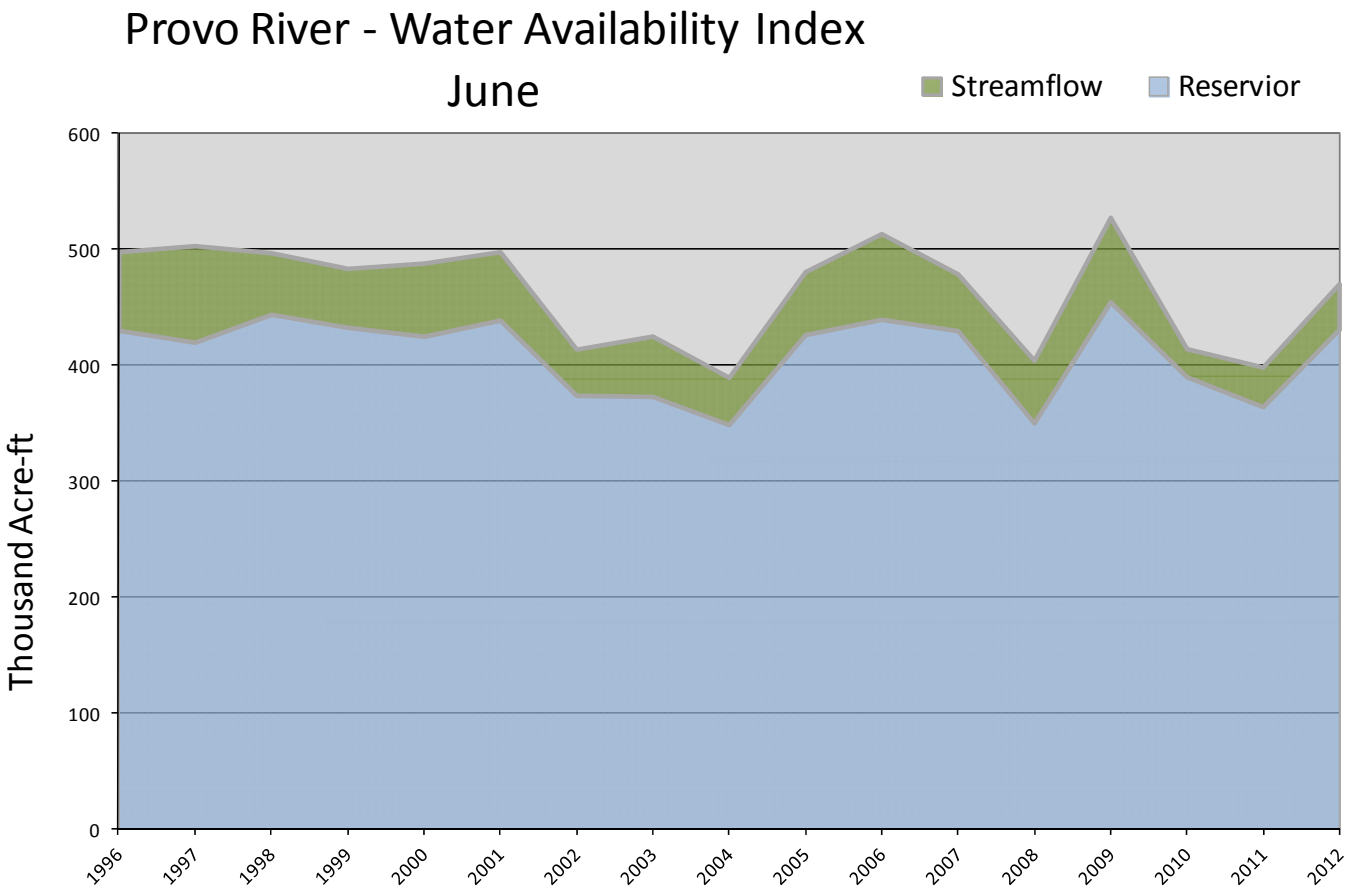


Percent saturation is calculated using the weighted average of volumetric soil moisture content at 2, 8, and 20-inch depths. Saturation is estimated as 40% volumetric water content. The gray area represents the range in saturation values since 2005.



June 1, 2012	**Water Availability Index**					
Basin or Region	May EOM* Deer Creek, Jordanelle	May accumulated flow Provo River at Woodland (*observed*)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Provo	**431**	**39.1**	**470**	**-0.93**	**39%**	**05,07,03,10**

**EOM, end of month; # WAI, water availability index; ^KAF, thousand acre-feet.*

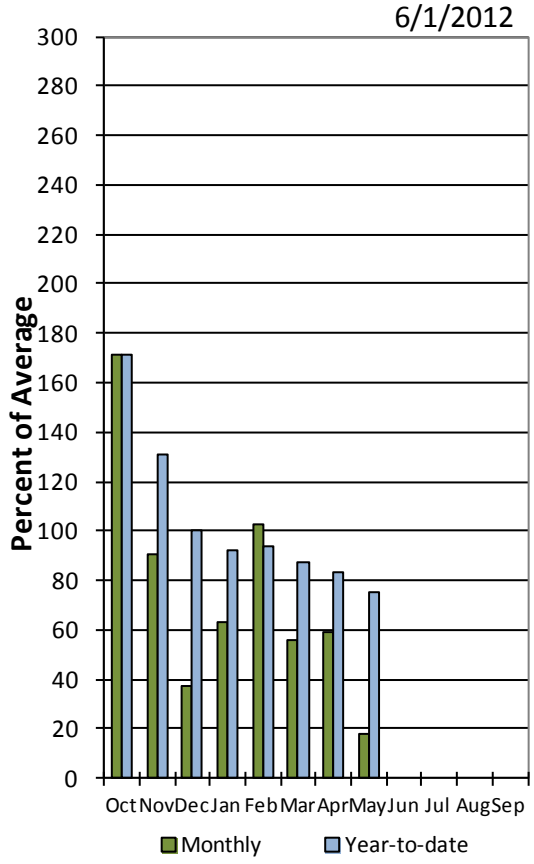


Uintah Basin and Dagget SCDs

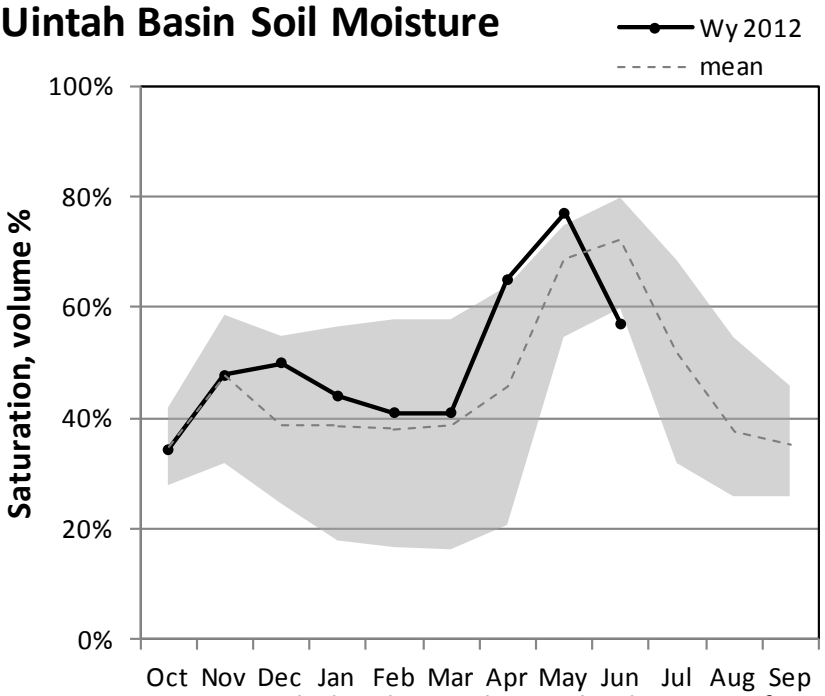
June 1, 2012

Precipitation in May was much below average at 18%, bringing the water year accumulation to 75%. Reservoir storage is at 88% of capacity, the same as this time last year. Soil moisture is at 57% compared to 79% last year.

Uintah Precipitation

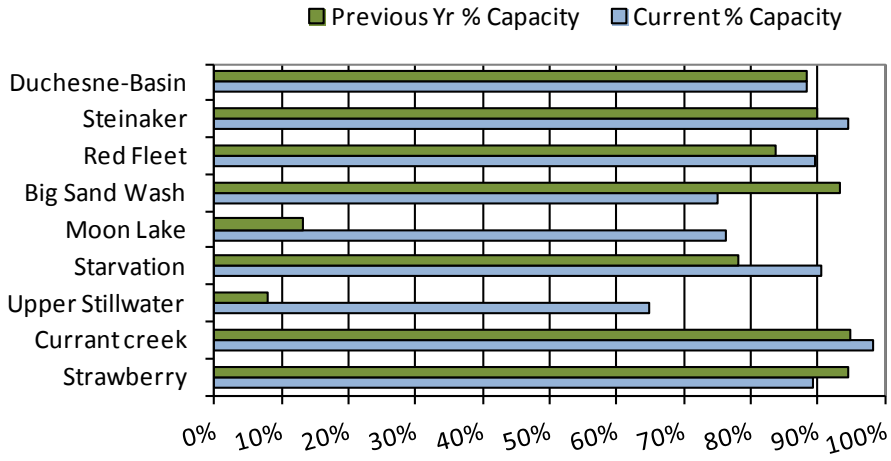


Uintah Basin Soil Moisture



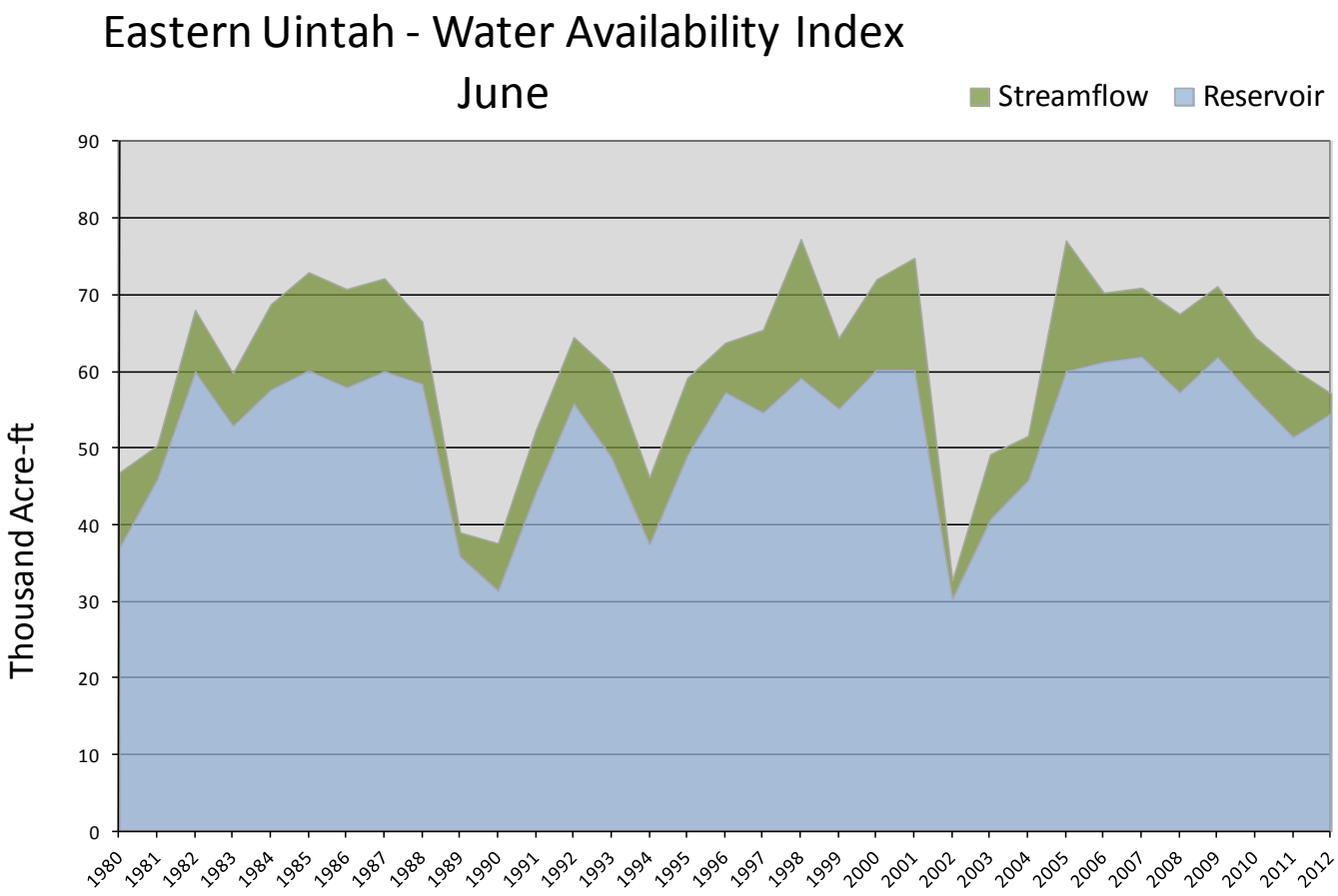
Percent saturation is calculated using the weighted average of volumetric soil moisture content at 2, 8, and 20-inch depths. Saturation is estimated as 40% volumetric water content. The gray area represents the range in saturation values since 2005.

June Uintah Basin Reservoir Storage



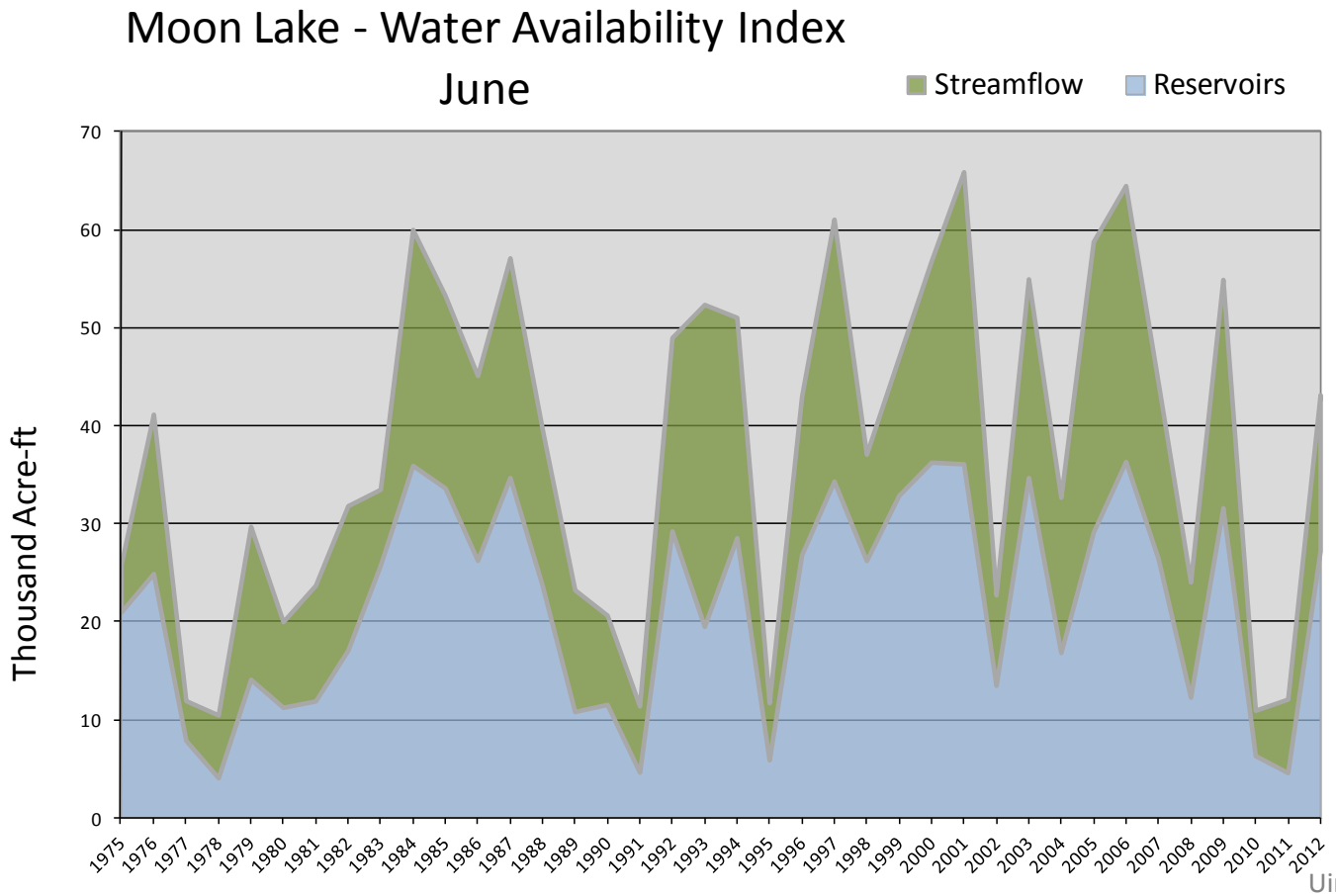
June 1, 2012	**Water Availability Index**					
Basin or Region	May EOM* Red Fleet and Steinaker	May accumulated flow Big Brush Creek (*observed*)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Eastern Uintah	**54.6**	**2.6**	**57.2**	**-1.72**	**29**	**04, 91, 95, 83**

**EOM, end of month; # WAI, water availability index; ^KAF, thousand acre-feet.*



June 1, 2012	**Water Availability Index**					
Basin or Region	May EOM* Moon Lake	May accumulated flow Lake Fork Creek above Moon Lake (*observed*)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Moon Lake	**27.3**	**15.9**	**43.2**	**0.53**	**56**	**76, 96, 07, 86**

**EOM, end of month; # WAI, water availability index; ^KAF, thousand acre-feet.*

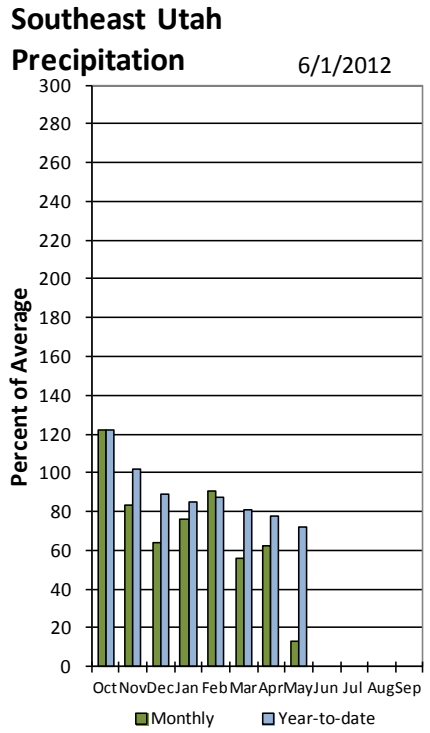


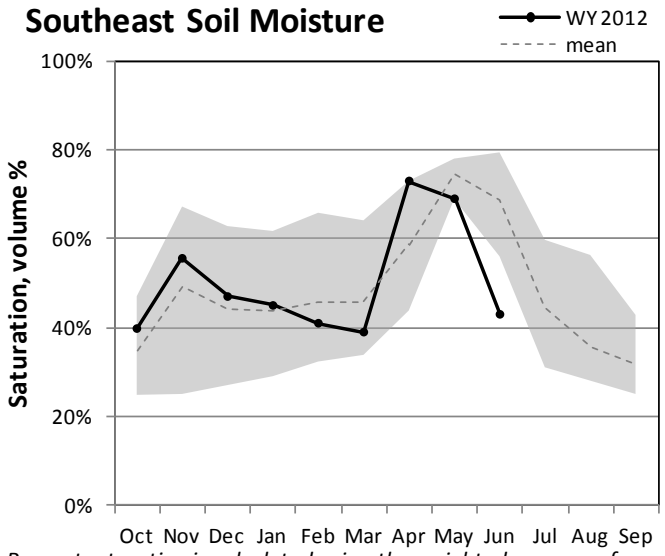
Uintah Basin and Dagget SCDs

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

June 1, 2012

Precipitation in May was much below average at 13%, bringing the water year accumulation to 72%. Reservoir storage is at 85% of capacity, which is 17% higher at this time last year. Soil moisture is at 43% compared to 79% last year.





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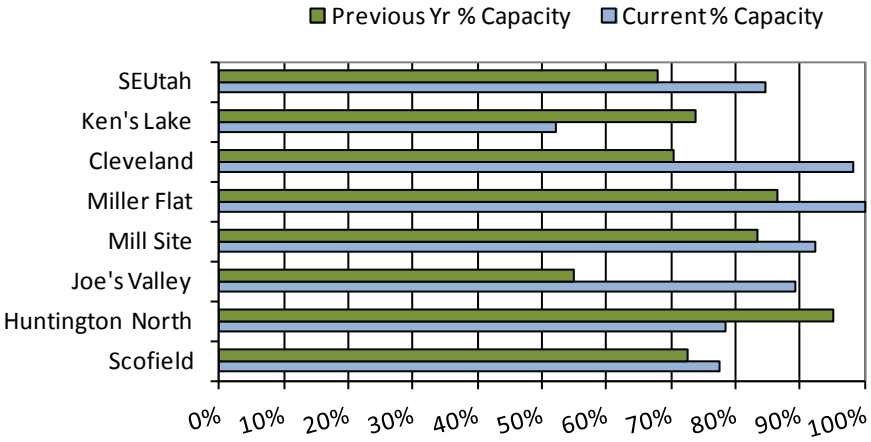
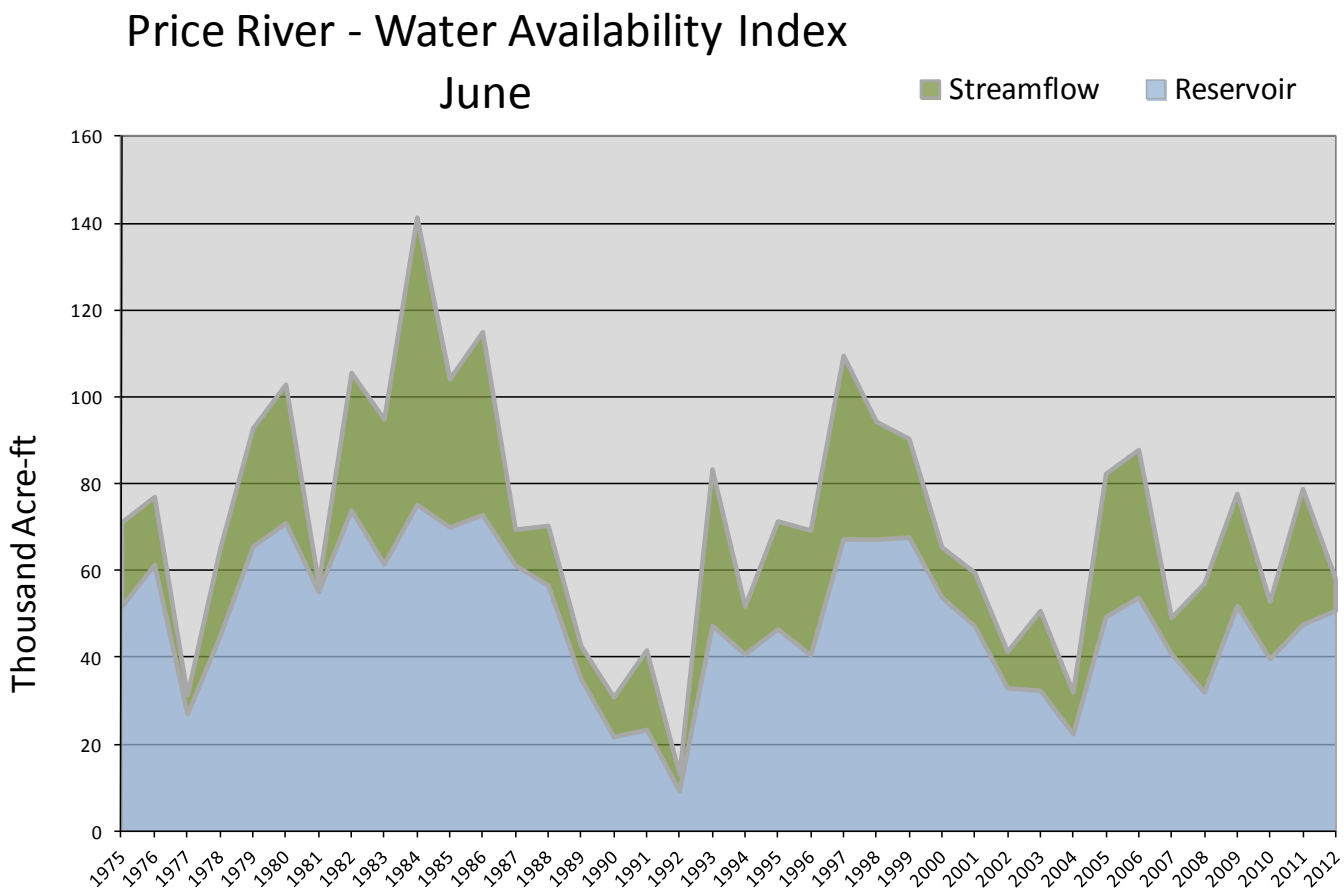
June Southeast Utah Reservoir Storage



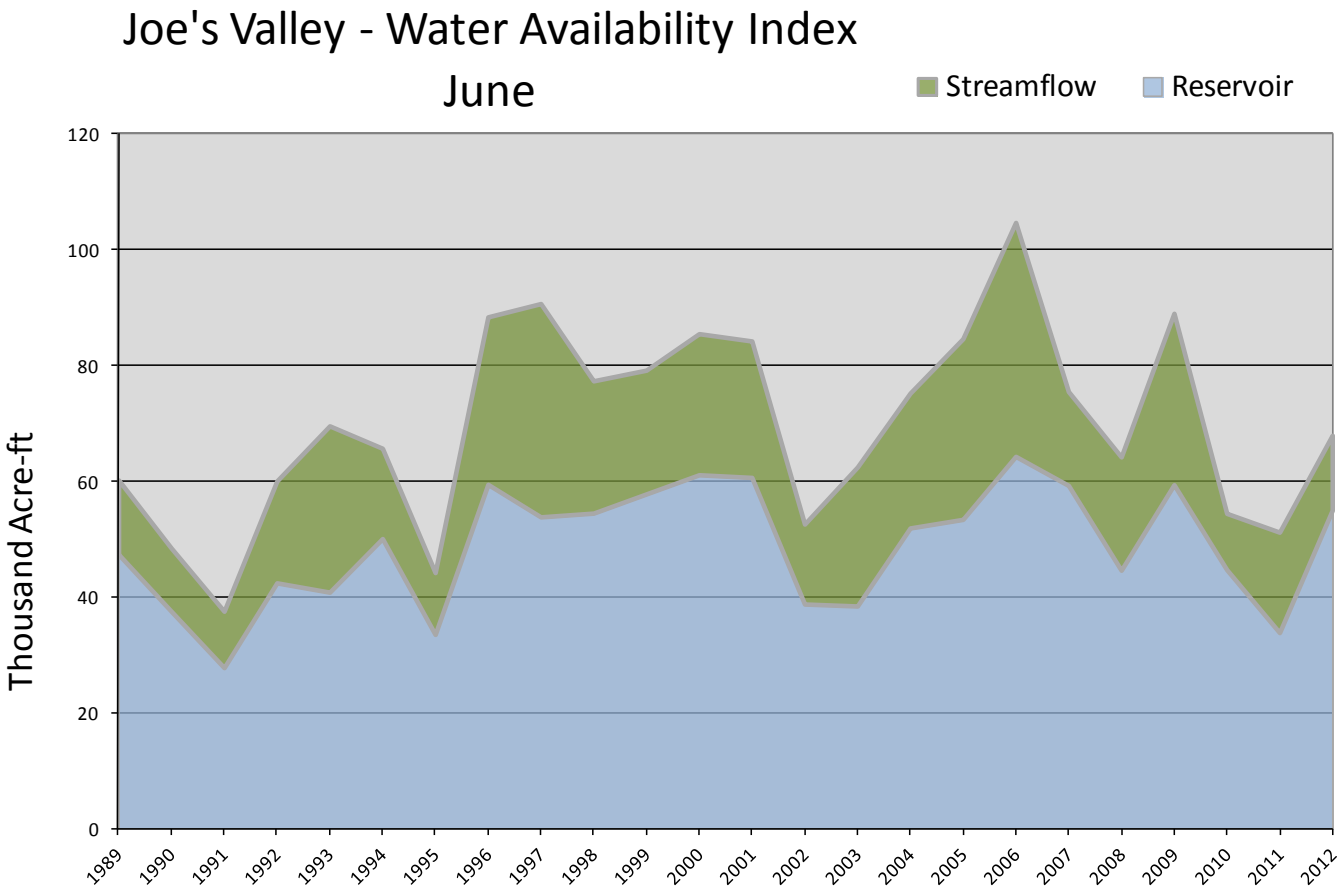
June 1, 2012	**Water Availability Index**					
Basin or Region	May EOM* Scofield	May accumulated inflow to Scofield (*calculated*)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Price River	**51.0**	**7.4**	**58.4**	**-1.18**	**36**	**08, 81, 01, 78**

**EOM, end of month; # WAI, water availability index; ^KAF, thousand acre-feet.*



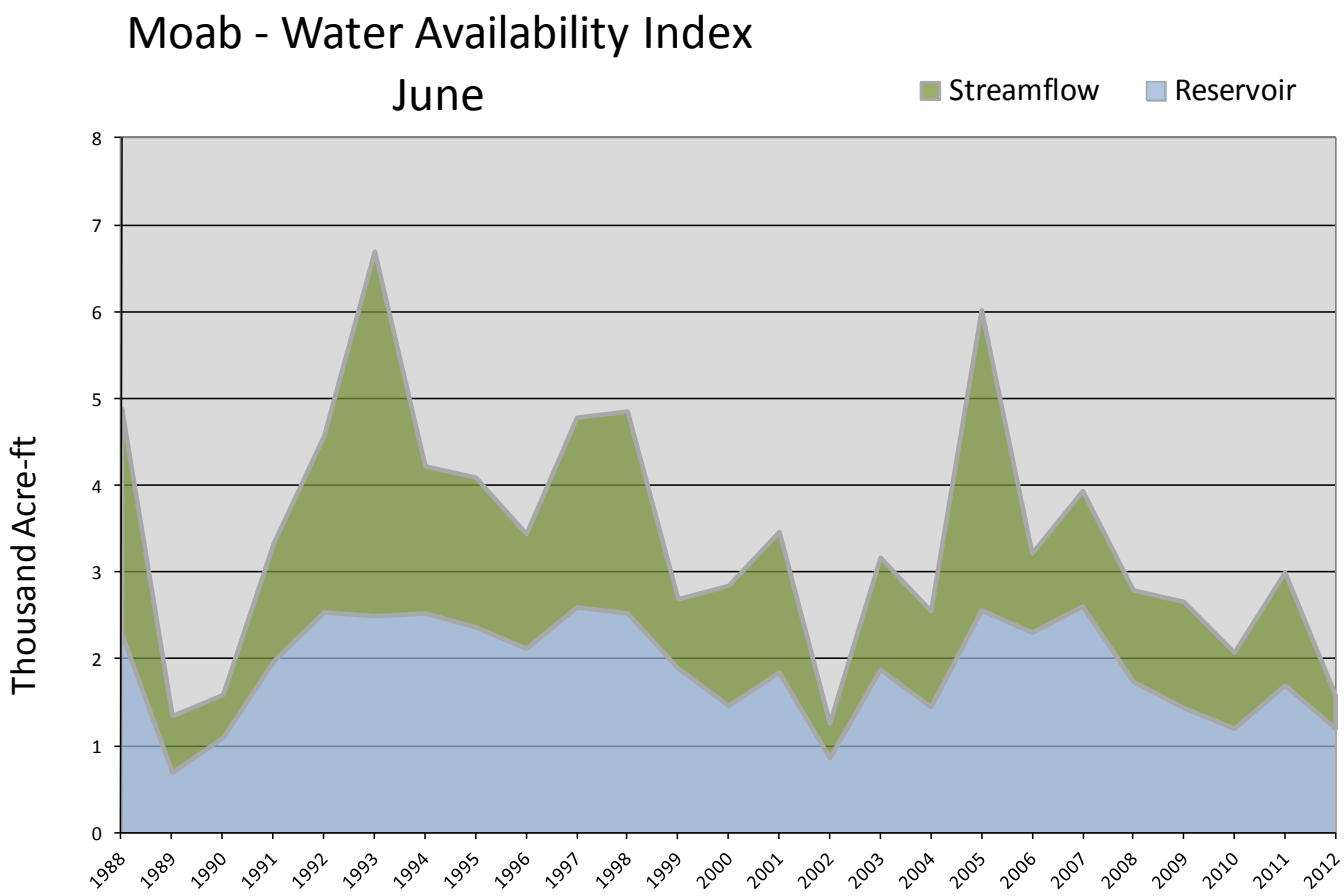
June 1, 2012	**Water Availability Index**					
Basin or Region	May EOM* Joe's Valley	May accumulated inflow to Joe's Valley (*calculated*)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Joe's Valley	**55.0**	**13.0**	**68.0**	**-0.17**	**48**	**08, 94, 93, 04**

**EOM, end of month; # WAI, water availability index; ^KAF, thousand acre-feet.*



June 1, 2012	**Water Availability Index**					
Basin or Region	May EOM* Ken's Lake Reservoir	May accumulated flow Mill Creek at Sheley (*observed*)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Moab	**1.2**	**0.4**	**1.6**	**-3.21**	**12**	**02, 89, 90, 10**

**EOM, end of month; # WAI, water availability index; ^KAF, thousand acre-feet.*



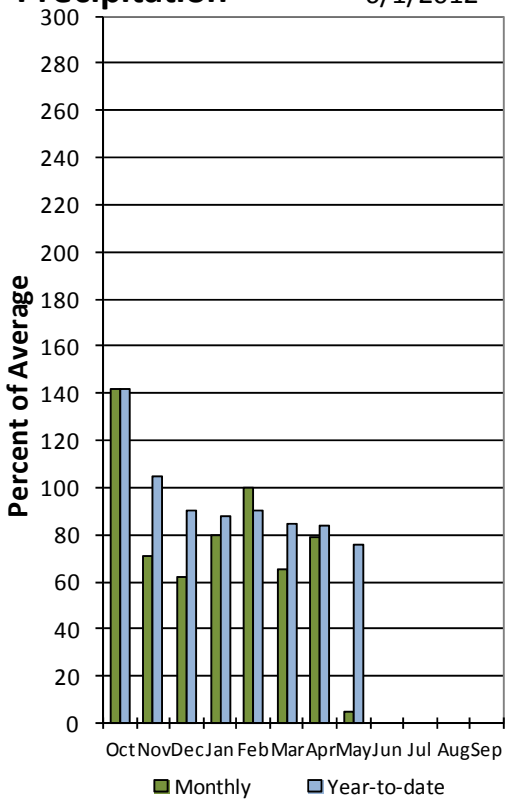
Sevier and Beaver River Basins

June 1, 2012

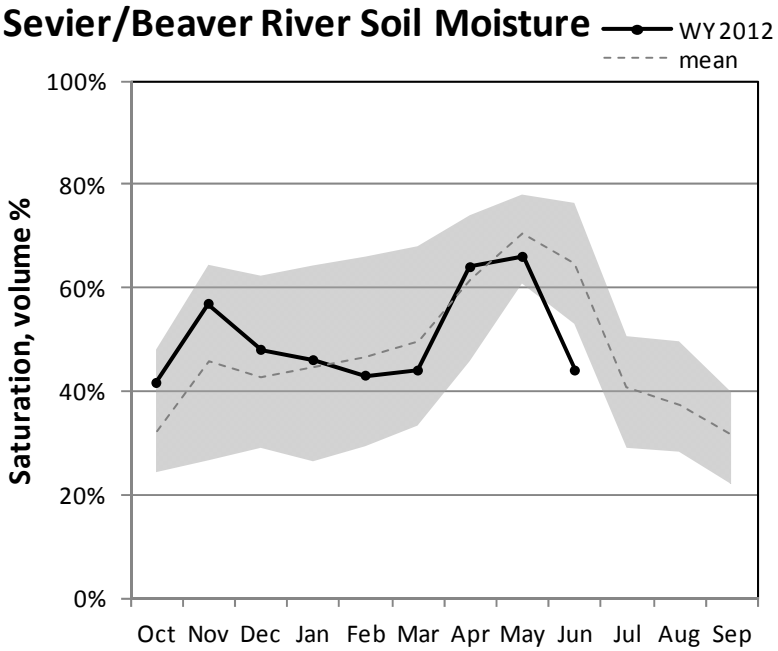
Precipitation in May was much below average at 5% compared to 194% last year, which brings the seasonal accumulation (Oct-May) to 76% of average. Reservoir storage is at 79% of capacity, 11% less than last year. Soil moisture dropped substantially over last month and last year: current 44%, last month – 66% and last year -76% of saturation.

Sevier /Beaver River Precipitation

6/1/2012

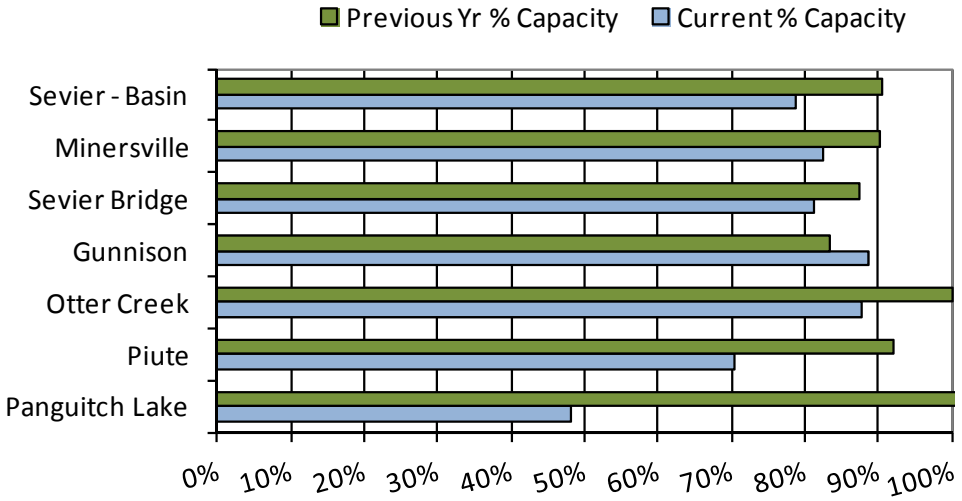


Sevier/Beaver River Soil Moisture



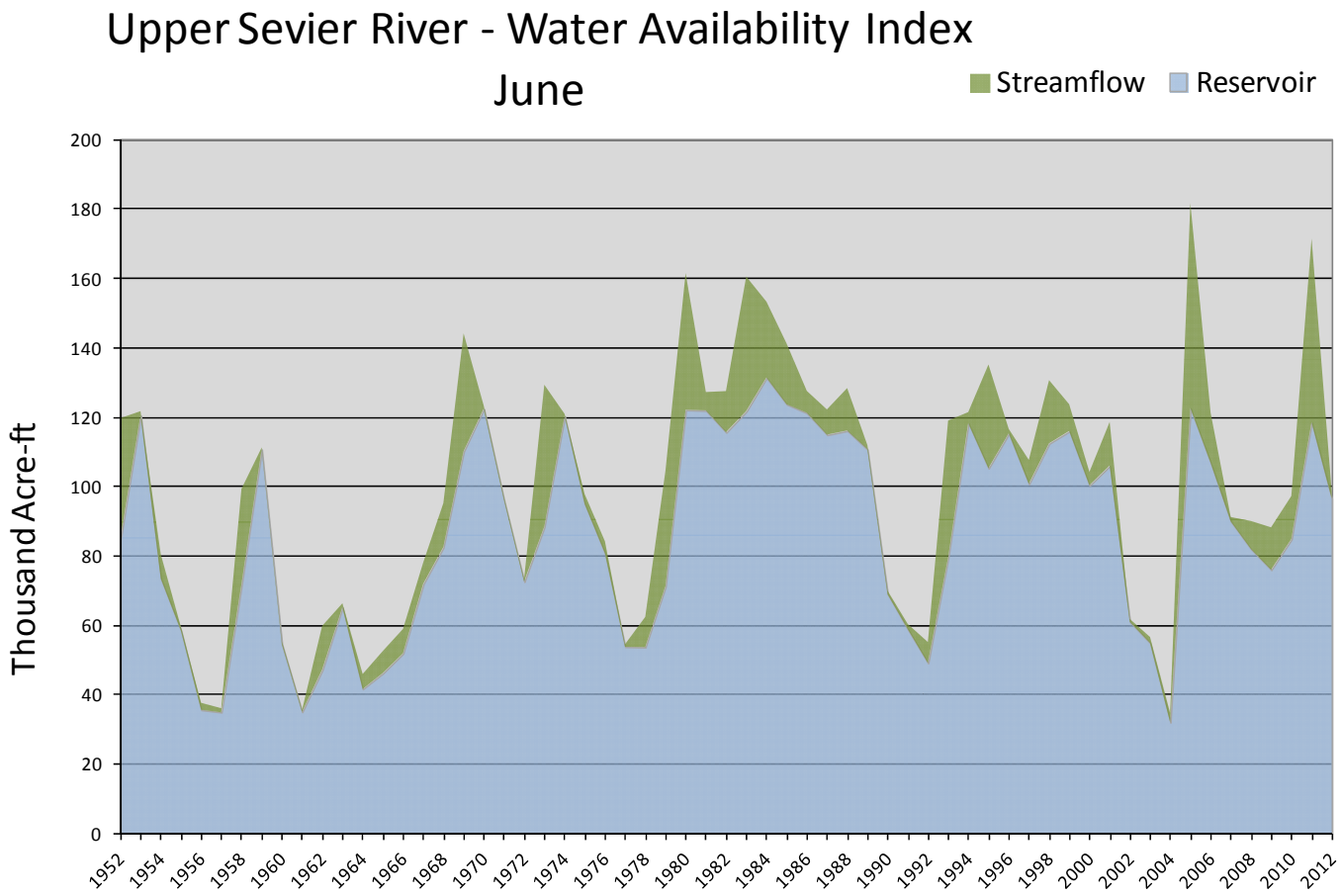
Percent saturation is calculated using the weighted average of volumetric soil moisture content at 2, 8, and 20-inch depths. Saturation is estimated as 40% volumetric water content. The gray area represents the range in saturation values since 2005.

June Sevier River Reservoir Storage



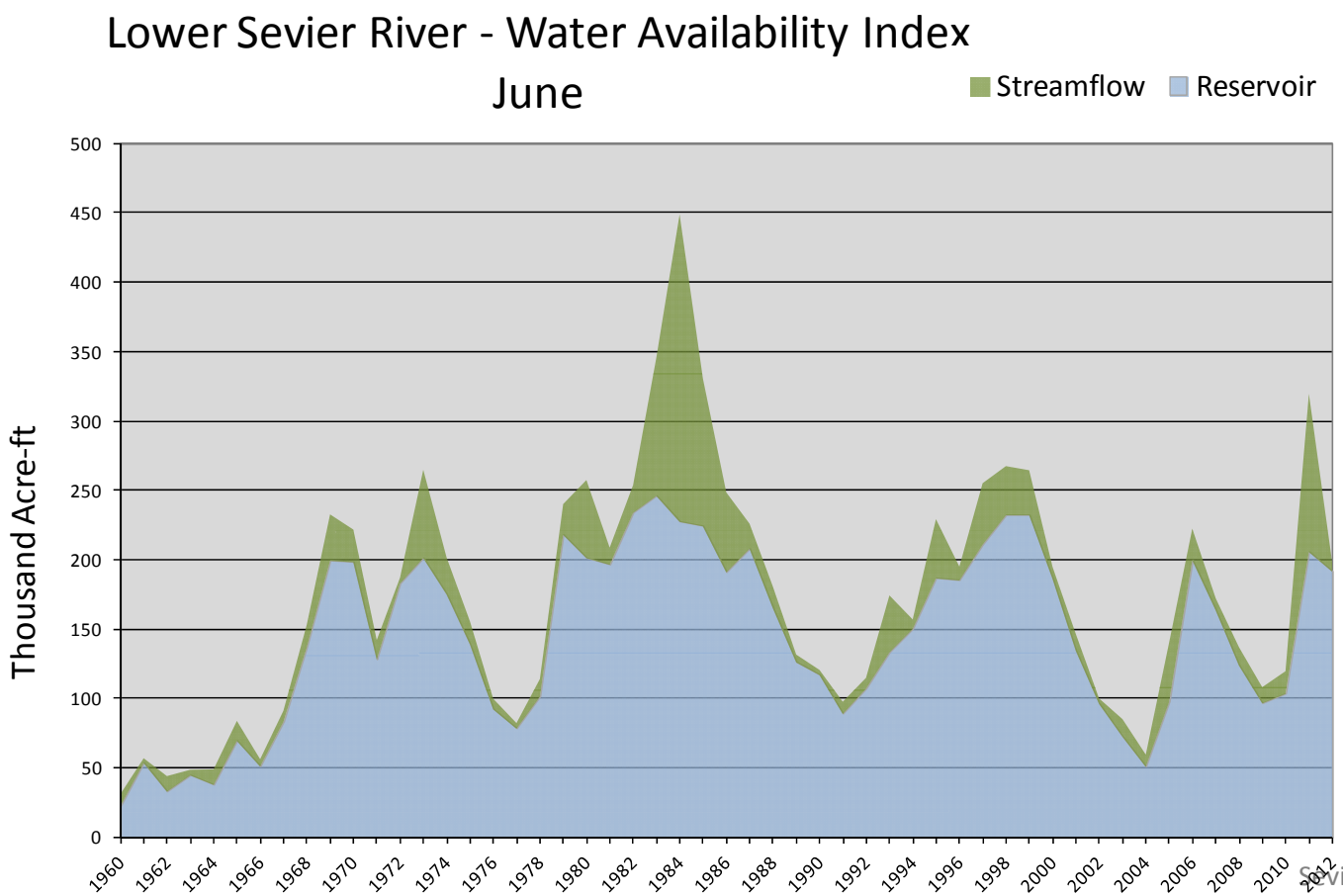
June 1, 2012	**Water Availability Index**					
Basin or Region	May EOM* Otter Creek and Piute	May accumulated flow at Kingston (*observed*)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Upper Sevier River	**97**	**2.1**	**99**	**-0.13**	**48**	**2010,75,58,2000**

**EOM, end of month; # WAI, water availability index; ^KAF, thousand acre-feet.*



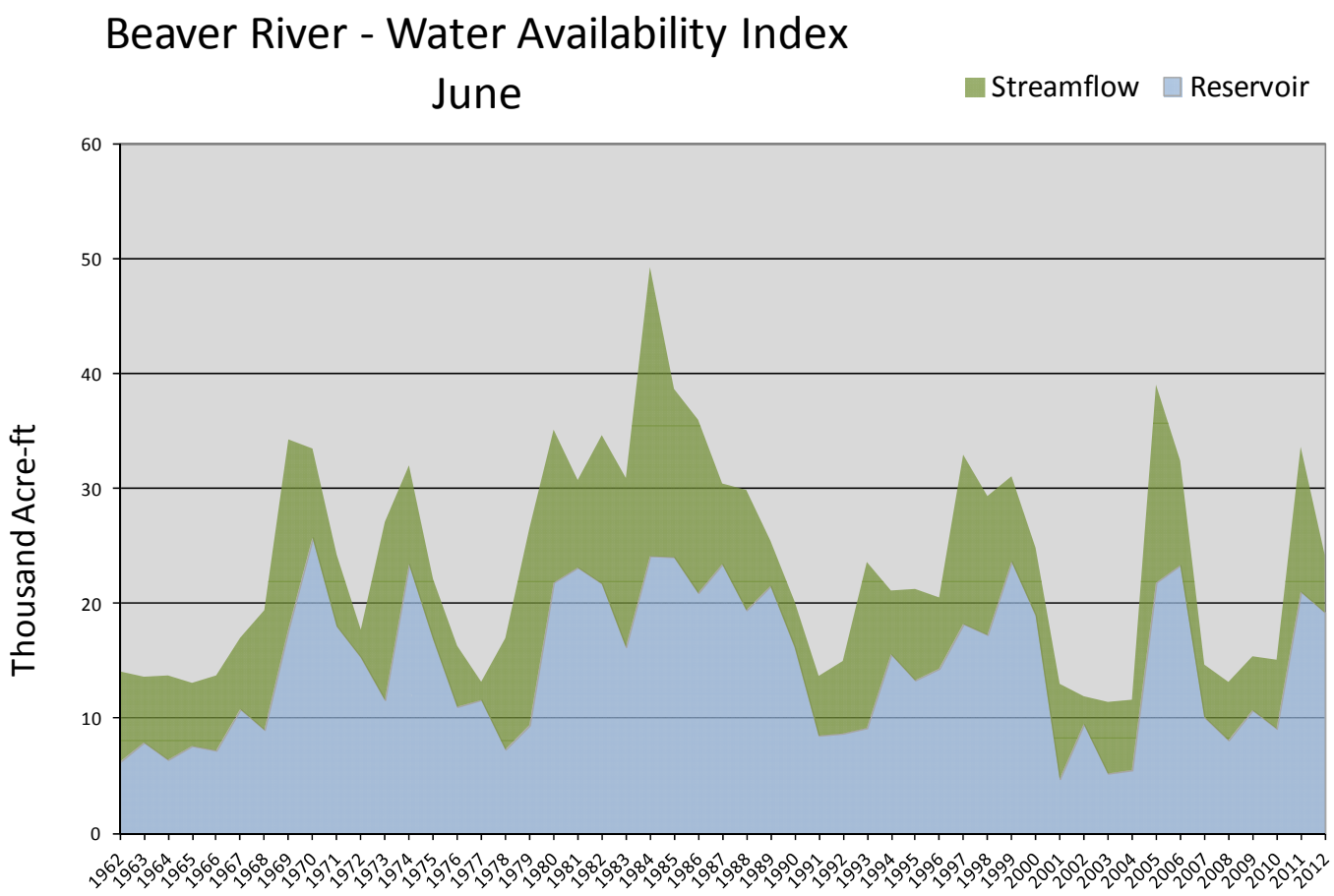
June 1, 2012	**Water Availability Index**					
Basin or Region	May EOM* Sevier Bridge	May accumulated flow Sevier at Gunnsion (*observed*)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Lower Sevier River	**192**	**7**	**198**	**1.08**	**63**	**2000,96,74,81**

**EOM, end of month; # WAI, water availability index; ^KAF, thousand acre-feet.*



June 1, 2012	**Water Availability Index**					
Basin or Region	May EOM* Minersville Reservoir	May accumulated flow Beaver River at Beaver (*observed*)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Beaver	**19.2**	**5.0**	**24.2**	**0.32**	**54**	**75,93,71,2000**

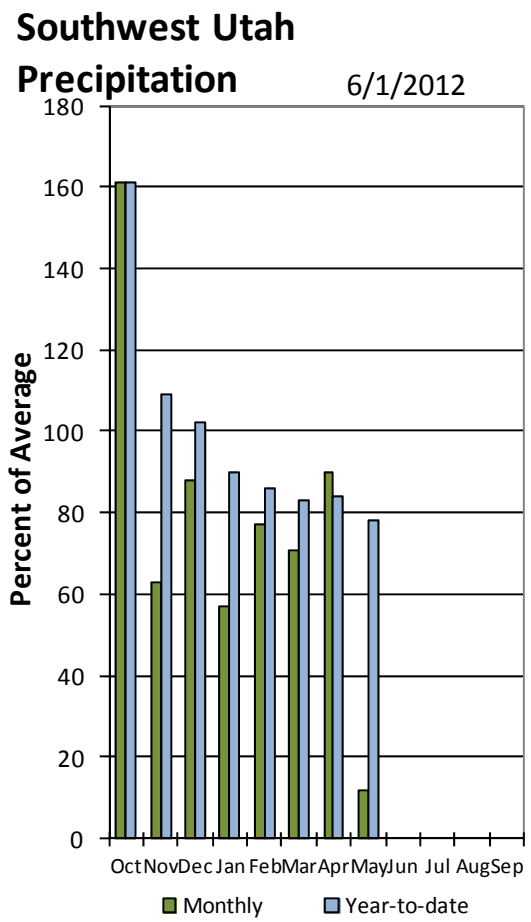
**EOM, end of month; # WAI, water availability index; ^KAF, thousand acre-feet.*

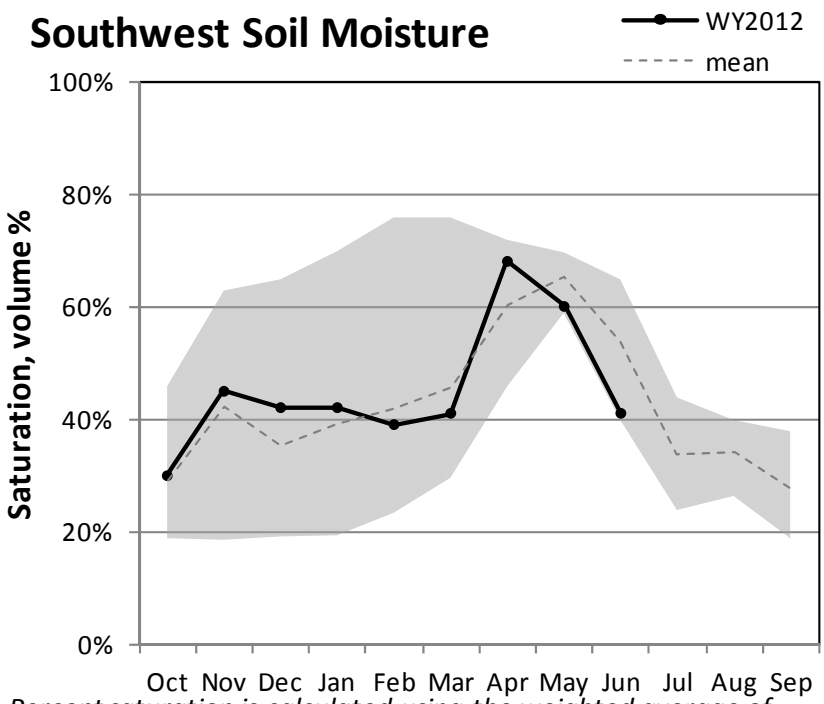


Southwest – E. Garfield, Kane, Washington, & Iron Counties

June 1, 2012

Precipitation in May was much below average at 9%, bringing water year accumulation to 77%. Reservoir storage is at 82% of capacity, 7% lower than last year at this time. Soil moisture is at 41% compared to 63% at this time last year.





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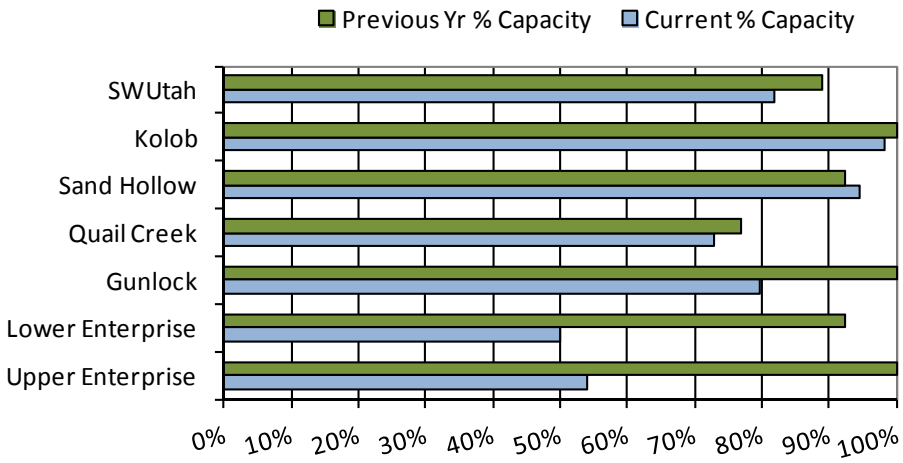
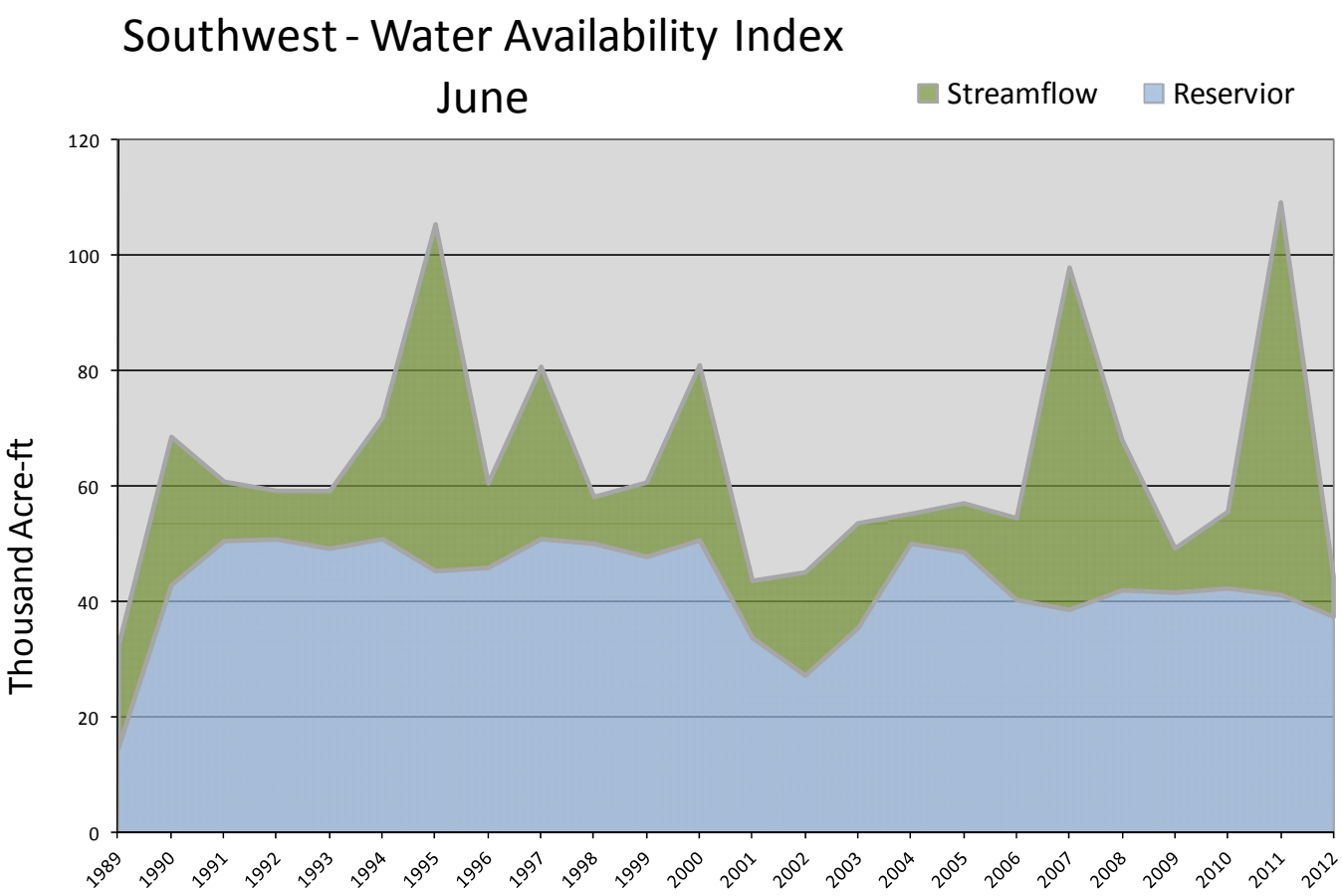


June 1, 2012	**Water Availability Index**					
Basin or Region	May EOM* Reservoir	May accumulated flow Virgin and Santa Clara Rivers (*observed*)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Southwest	**37.4**	**7.0**	**44.4**	**-3.17**	**12**	**09,02,01,89**

**EOM, end of month; # WAI, water availability index; ^KAF, thousand acre-feet.*



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Utah Climate and Water Report

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