

Utah Climate and Water Report

May 2013



Western Uintah Mountains; April 2013.
Photo by Kent Sutcliffe

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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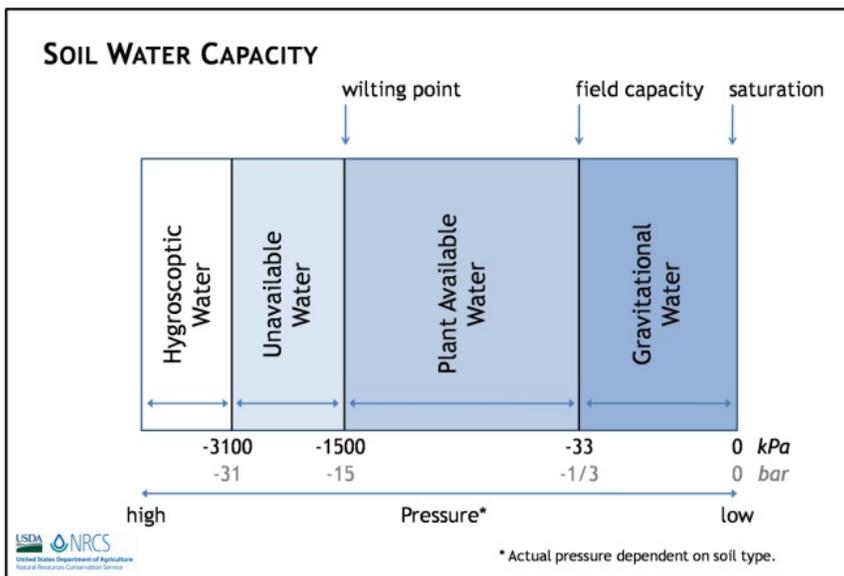
- a) SNOTEL Current Snow Water Equivalent (SWE) % of Normal
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Climate and Water Information

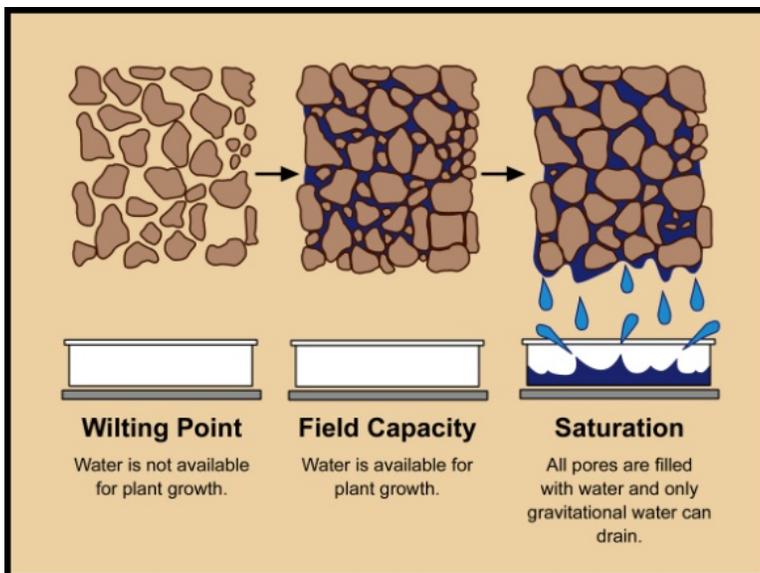
Soil Climate Analysis Network

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.

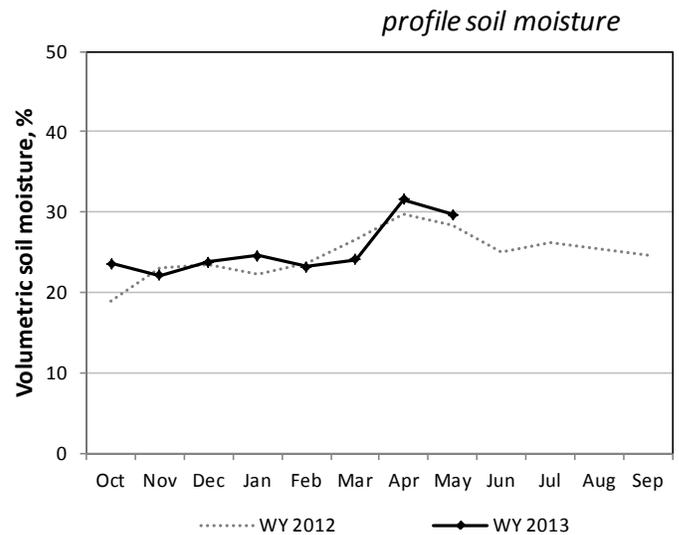
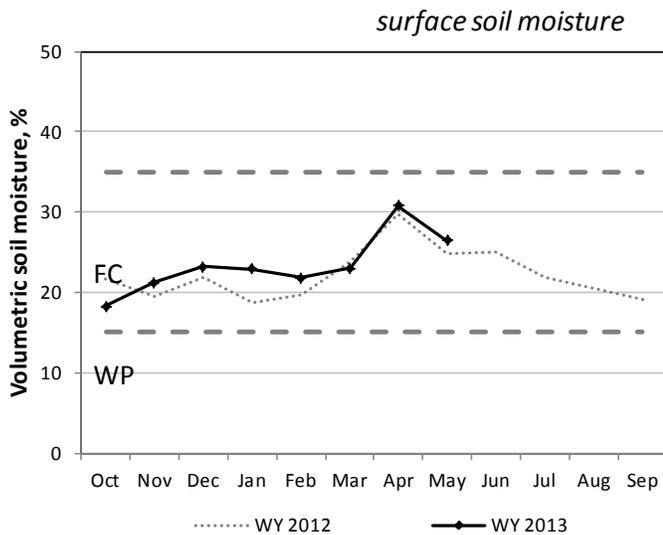
North Central

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"
	<i>in.</i>	<i>in.</i>	<i>volume %</i>					<i>°F</i>				
NORTH CENTRAL												
Blue Creek	4.7	0.8	17	21	32	34	18	50	53	53	49	46
Cache Junction	8.4	1.1	29	32	41	36	39	47	48	48	46	43
Grantsville	5.9	1.8	9	16	24	32		54	57	57	52	

* 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.

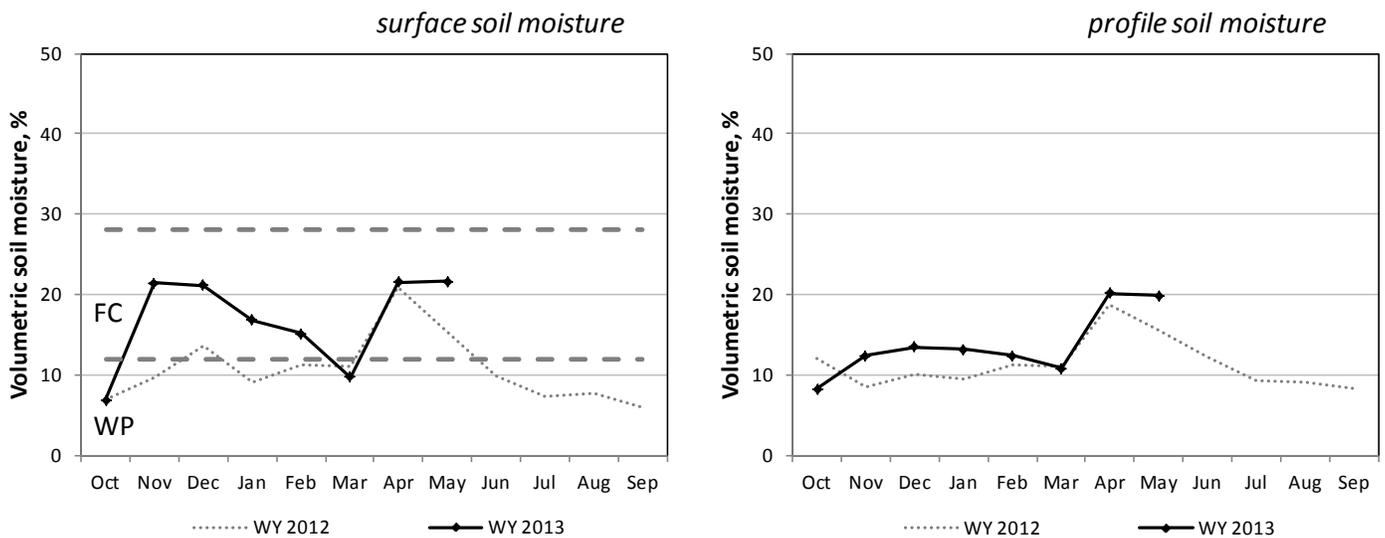
Northern Mountains

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"
	<i>in.</i>	<i>in.</i>	<i>volume %</i>					<i>°F</i>				
NORTHERN MOUNTAINS												
Chicken Ridge	6.6	1.4	21	24	27	26	27	39	42	44	42	40
Buffalo Jump	5.7	1.1	14	20	20	21	-	45	47	48	44	-
Morgan	11.7	2.6	19	22	23	14	9	47	48	49	47	45

* 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



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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.

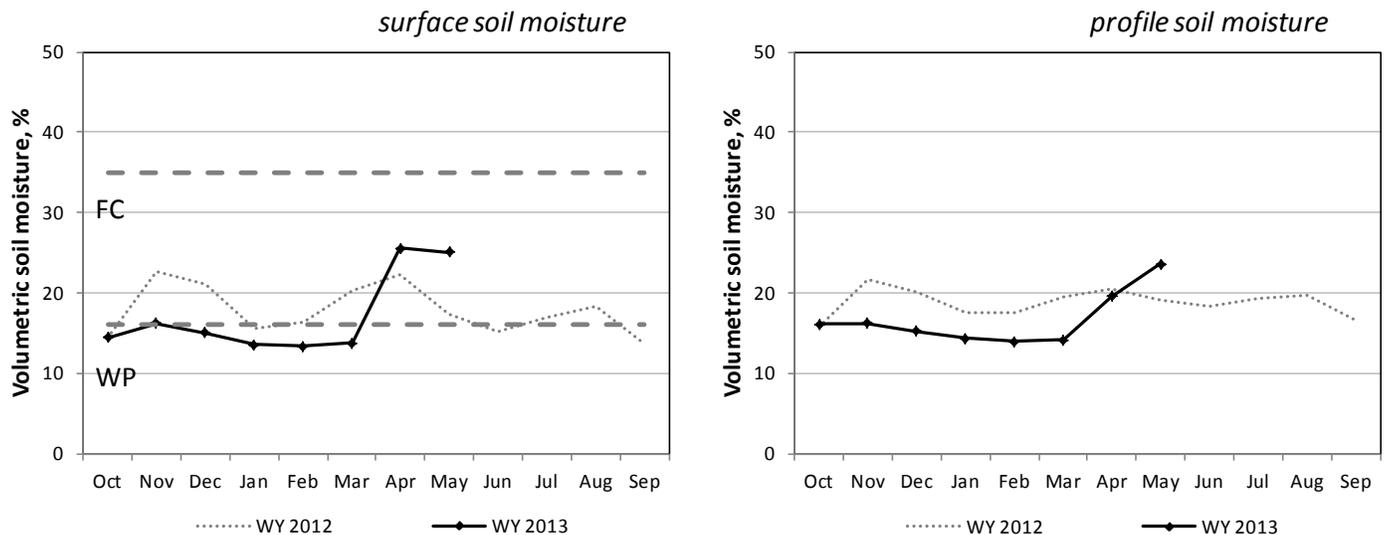
Uintah Basin

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"
	<i>in.</i>	<i>in.</i>	<i>volume %</i>					<i>°F</i>				
UINTAH BASIN												
Mountain Home	4.9	2.2	25	34	37	31	10	46	47	47	46	44
Little Red Fox	4.3	2.3	6	28	36	35	33	50	56	56	52	47
Split Mountain			8	22	17	18	11	56	58	57	53	48

* 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



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.

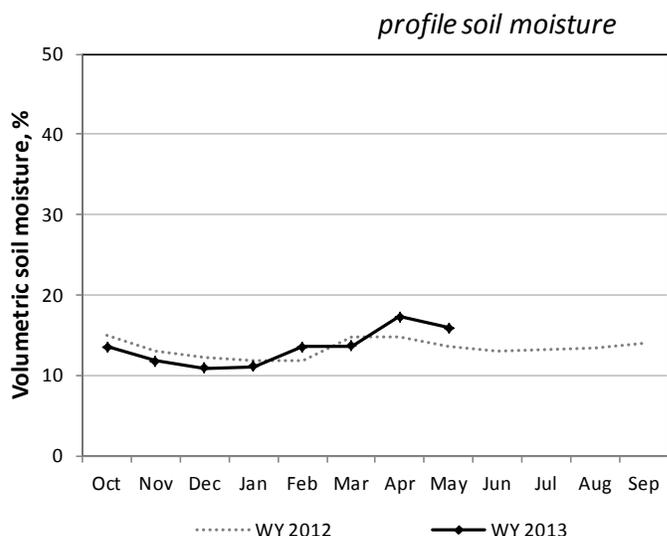
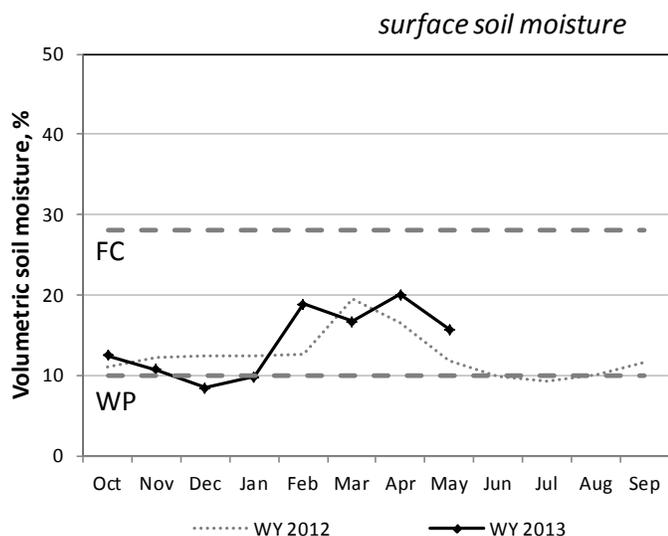
Southeast

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"
			volume %					°F				
SOUTHEAST												
Price	4.3	1.3	2	20	26	15	18	55	59	60	55	51
Green River	1.9	0.4	7	12	13	5	8	66	67	68	62	56
Harm's Way	3.1	0.6	12	0	20	24	11	59	57	58	53	49
West Summit	2.6	0.4	11	18	22	24	16	56	58	57	51	47
Eastland	3.0	0.1	17	19	22	33	34	55	56	56	51	48
Alkali Mesa	4.2	0.1	9	9	18	20	13	60	60	60	55	50
McCracken Mesa	4.7	0.2	9	24	24	24	12	62	64	64	58	55

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Southeast



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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.

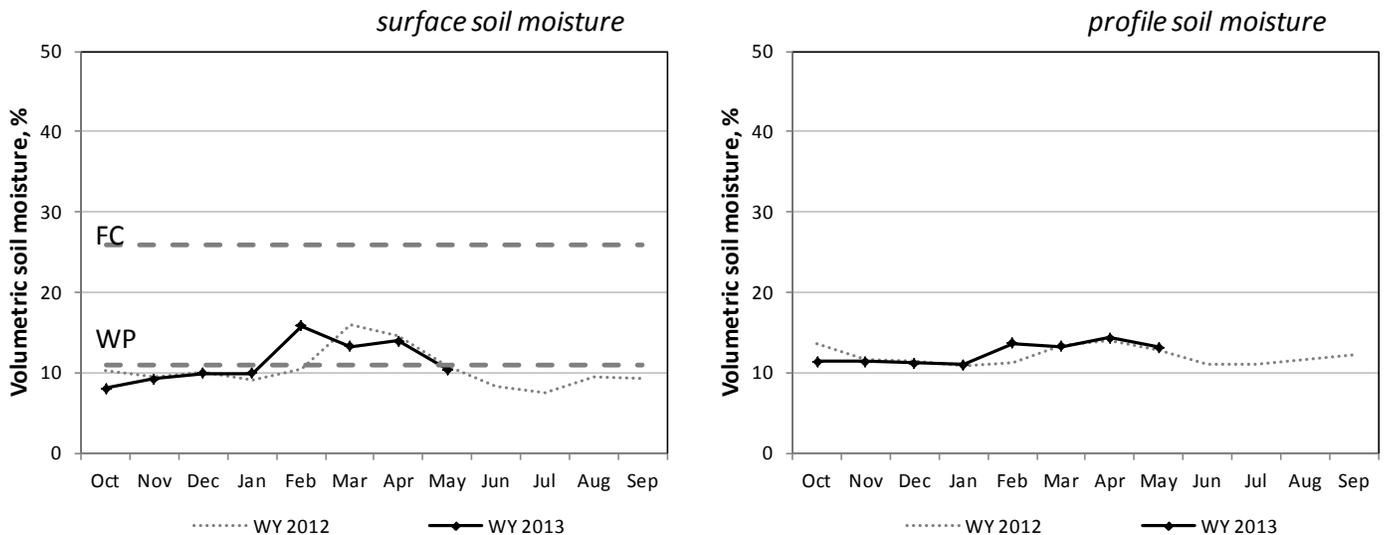
South Central

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"
	<i>in.</i>	<i>in.</i>	<i>volume %</i>					<i>° F</i>				
SOUTH CENTRAL												
Nephi	5.4	1.0	15	18	18	10	2	54	55	56	51	48
Ephraim	5.1	1.2	10	15	23	25	33	46	48	48	44	43
Holden	5.3	1.5	5	8	6	18	17	57	58	59	54	51
Milford	4.6	0.5	12	20	20	30	16	62	63	59	53	50
Manderfield	5.2	0.2	3	15	17	19	9	49	54	53	49	46
Circleville	2.2	0.3	19	7	7	8	8	57	60	59	51	
Panguitch	2.3	0.1	5	19	14	20	29	54	55	52	47	44
Cave Valley	9.3	0.8	0	4	5	5	6	60	61	63	58	53
Vermillion	4.6	0.4	0	2	4	11	8	59	59	60	54	50
Spooky	2.8	0.4	3	3	5	12	2	70	69	68	60	58

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South Central



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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.

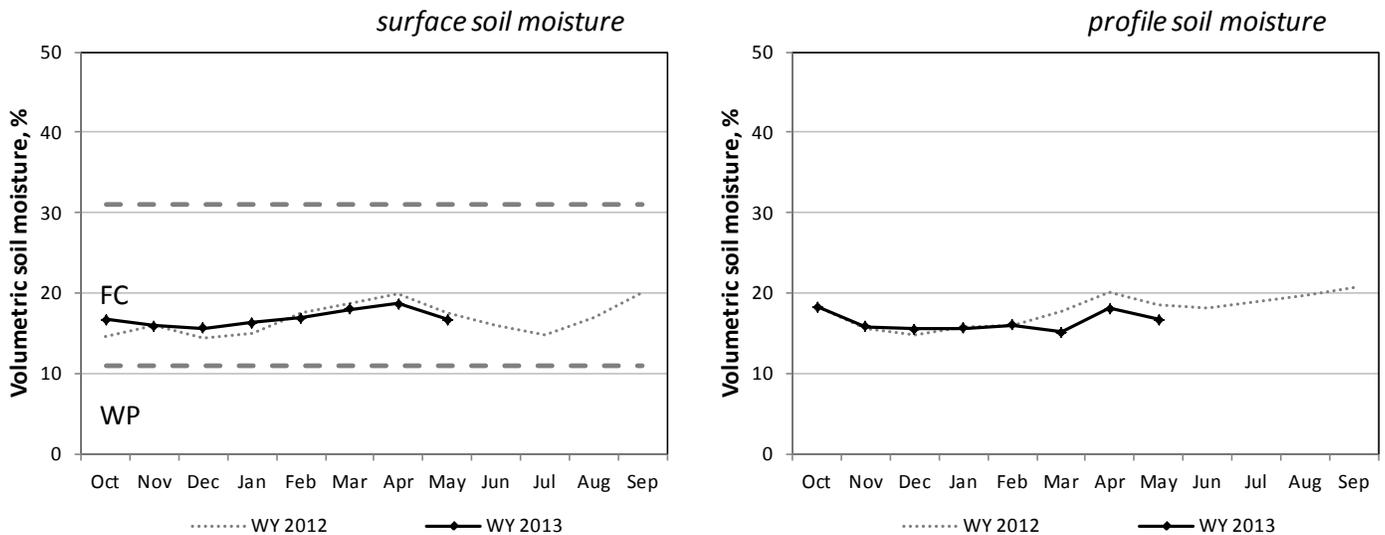
Western and Dixie

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"
	<i>in.</i>	<i>in.</i>	<i>volume %</i>					<i>° F</i>				
WESTERN												
Grouse Creek	4.7	0.8	4	16	23	28	28	44	50	51	48	47
Park Valley	5.5	1.0	3	7	16	11	26	45	51	53	51	48
Goshute	4.6	1.2	13	1	41	31	28	49	54	60	54	49
Dugway	3.7	1.1	20	29	39		13	53	57	59	55	53
Tule Valley	4.6	1.5	15	16	24	21	12	53	63	69	65	59
Hal's Canyon	2.6	1.1	2	9	12	10	8	58	64	68	58	52
Enterprise	4.7	0.9	7	30	27	17	16	61	64	63	57	51
DIXIE												
Sand Hollow	4.7	0.3	0	2	0	1	0	78	79	77	69	66

* 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.

Western & Dixie



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.

Utah Hydrologic Summary

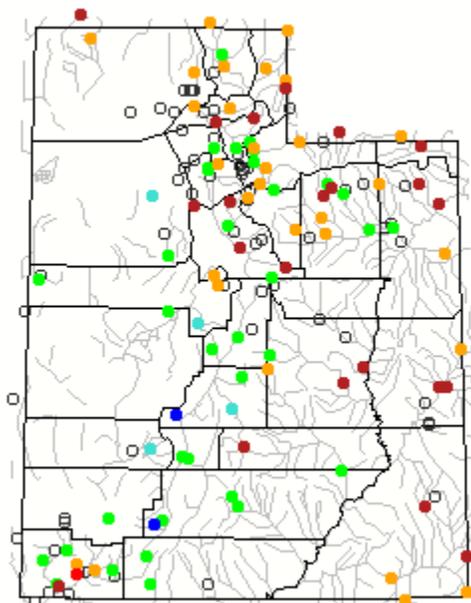
May 1, 2013

Current Conditions

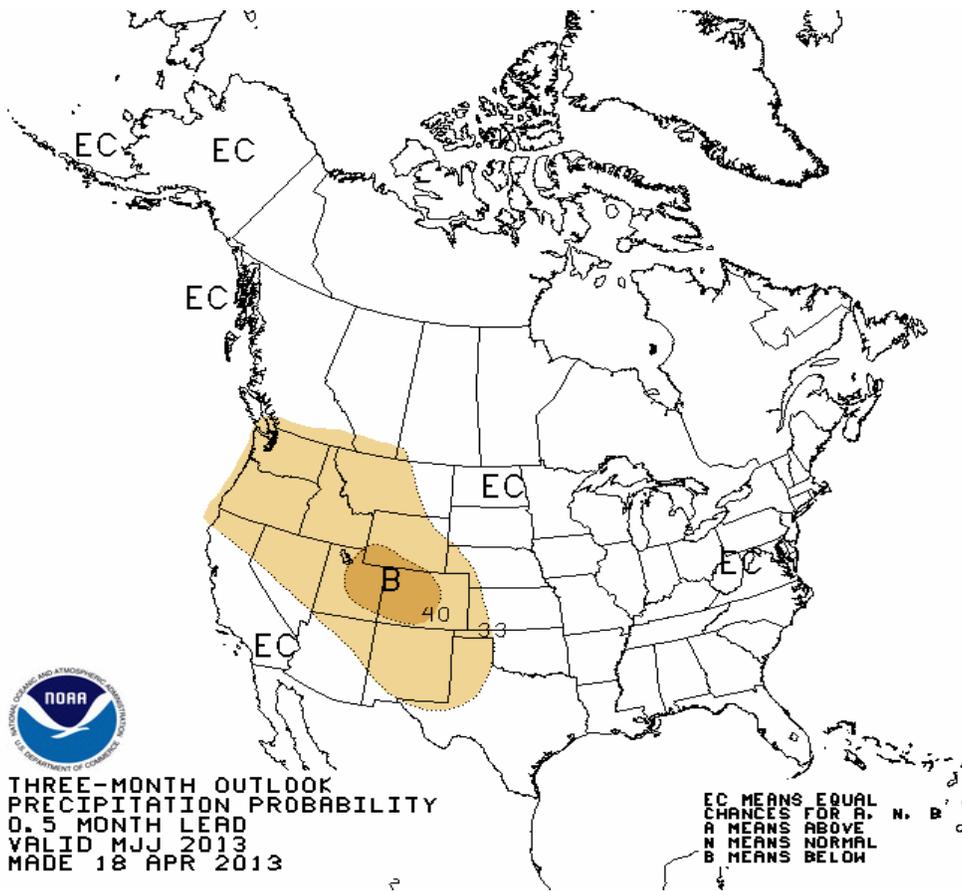
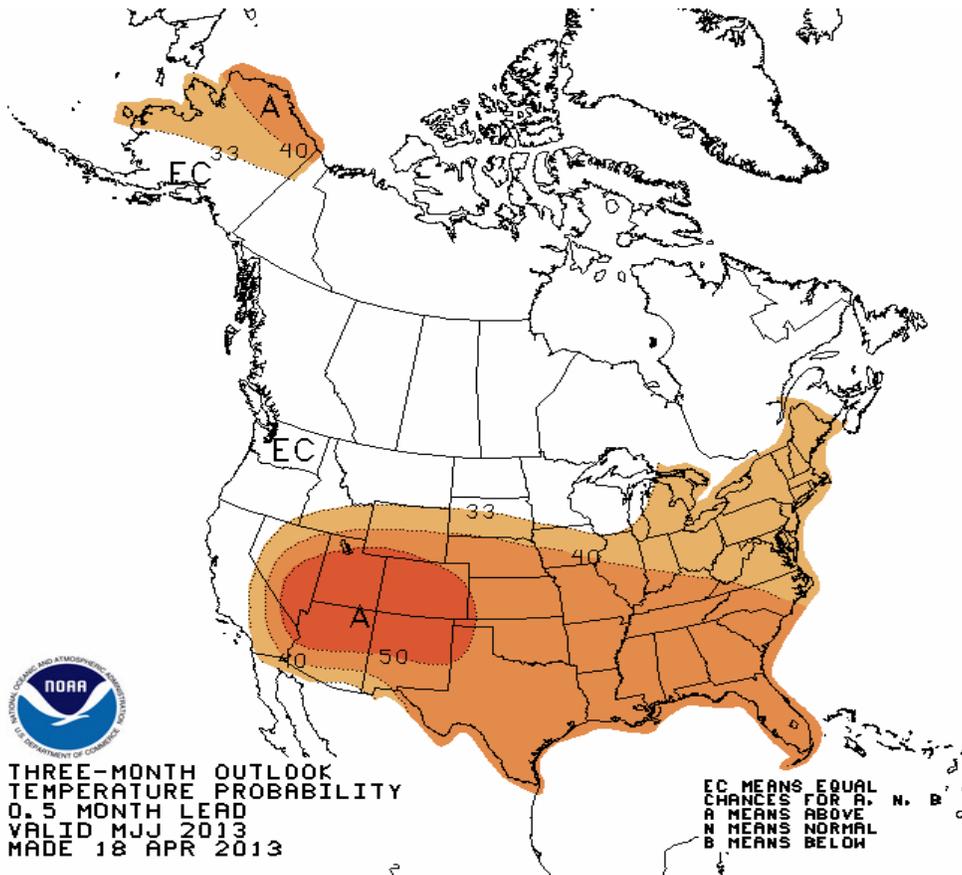
Current runoff, as shown in the USGS graphic below, is mostly below to much below average across many areas of Utah. Snow packs over much of southern Utah are close to melt out with the exception of the Beaver and upper Sevier. In southeast Utah, peak flows and in some cases, the majority of this season's stream flows are already past and stream flow will continue to decline. Peak flows in the remainder of the state will likely occur in May with rapid declines thereafter. There simply isn't sufficient snowpack to sustain high flows this year and long term base flow conditions will likely be much lower as well. Much of this year's snowmelt has gone to recharge soil moisture which is currently average in the north and much dryer and drying quickly in the south. The southeast is very dry and is reflected in the observed streamflows. April precipitation was fantastic in the north (150%-200%) and below normal in the south (25%-75%). Reservoir storage is nearly 20% less than last year, near 73% of capacity across the state. Southeast Utah is very low at 49% of reservoir capacity. Having melted the greater part of snowpack in southeastern Utah, observed runoff response has been very weak. Expect this trend to continue for many areas of the state: low volumes and low peak flows. Poor runoff conditions will and already have had impacts on agriculture across the state with water allocation cuts. The National Climate Prediction Center forecasts for the area suggest warmer and drier conditions for the next 3 months. Based on all available water supply data, (reservoir storage, runoff predictions, climate forecasts, etc) agriculture producers will have to determine how much and what type of crops to plant in order to minimize risk and maximize production in what is becoming a very challenging year.

Current Utah Streamflow - Courtesy US Geological Survey

Hednesday, May 01, 2013 10:30ET



Explanation - Percentile classes							
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not ranked

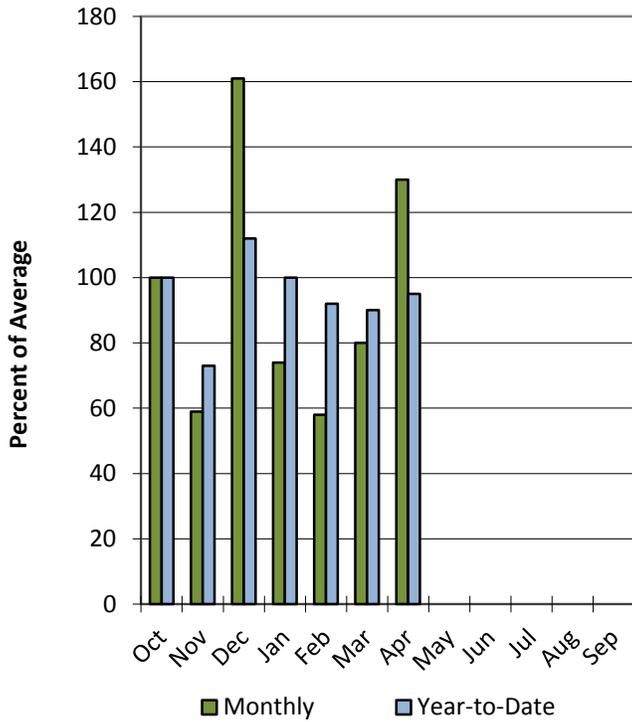


Raft River Basin

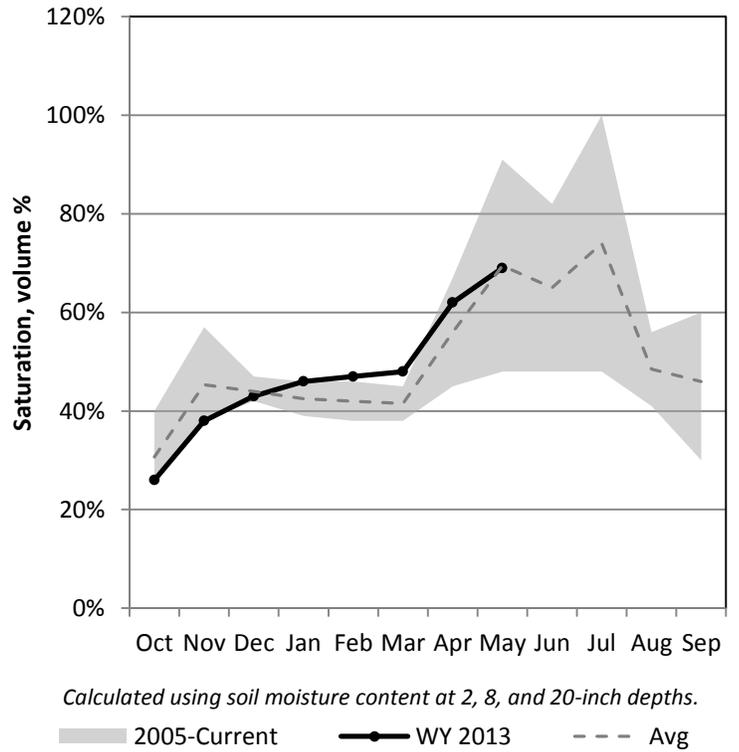
5/1/2013

Precipitation in April was above average at 130%, which brings the seasonal accumulation (Oct-Apr) to 95% of average. Soil moisture is at 69% compared to 91% last year.

Precipitation



Soil Moisture

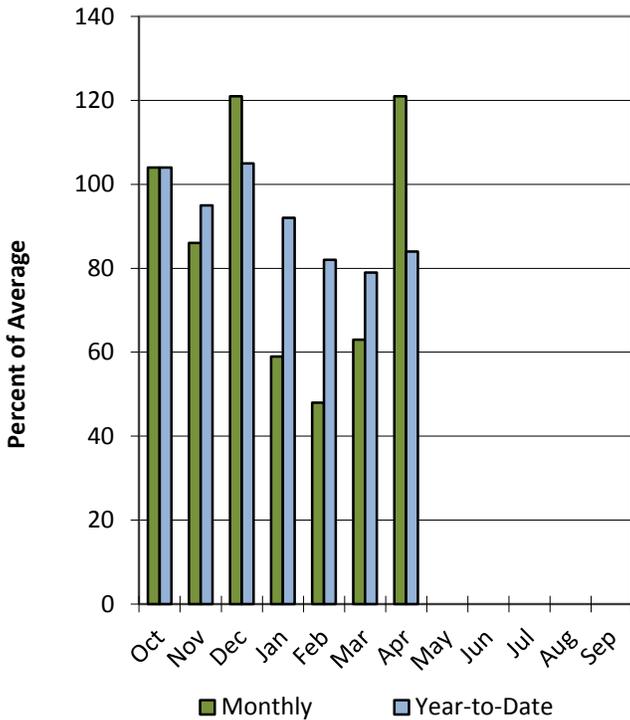


Bear River Basin

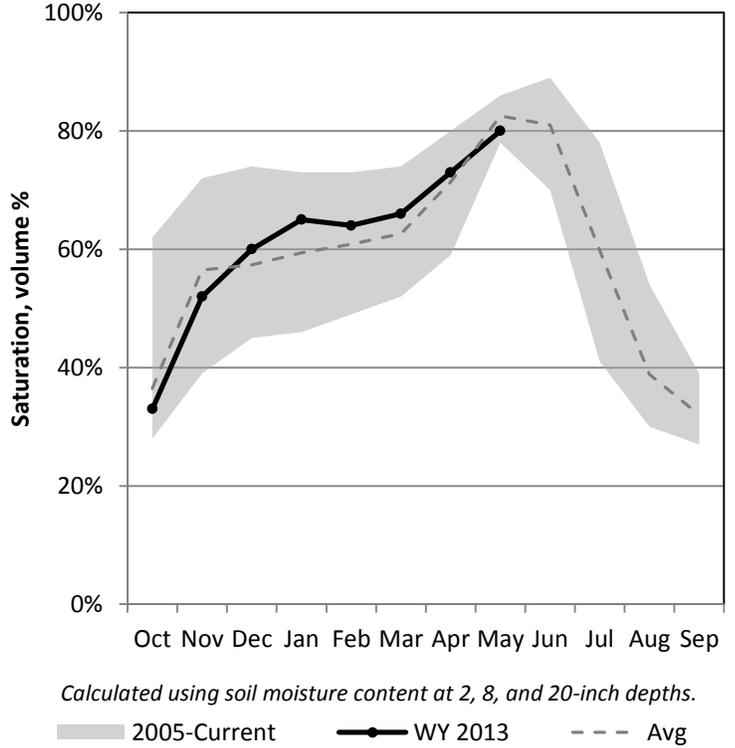
5/1/2013

Precipitation in April was above average at 121%, which brings the seasonal accumulation (Oct-Apr) to 84% of average. Soil moisture is at 80% compared to 85% last year. Reservoir storage is at 73% of capacity, compared to 92% last year. The water availability index for the Bear River is 50%.

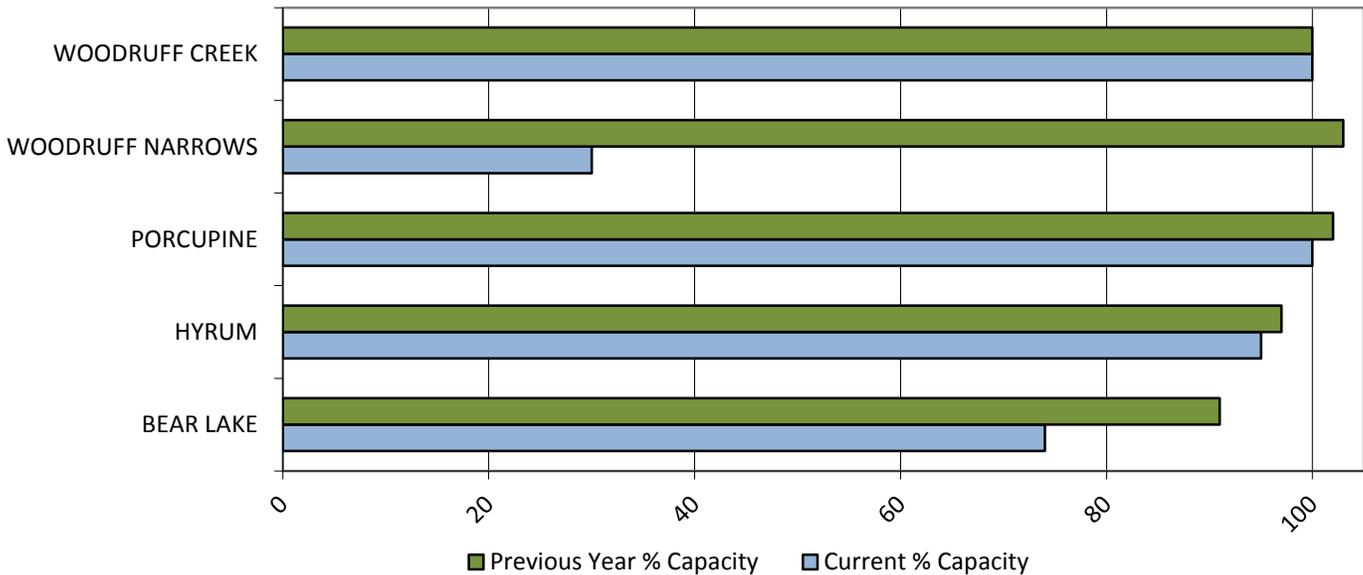
Precipitation



Soil Moisture



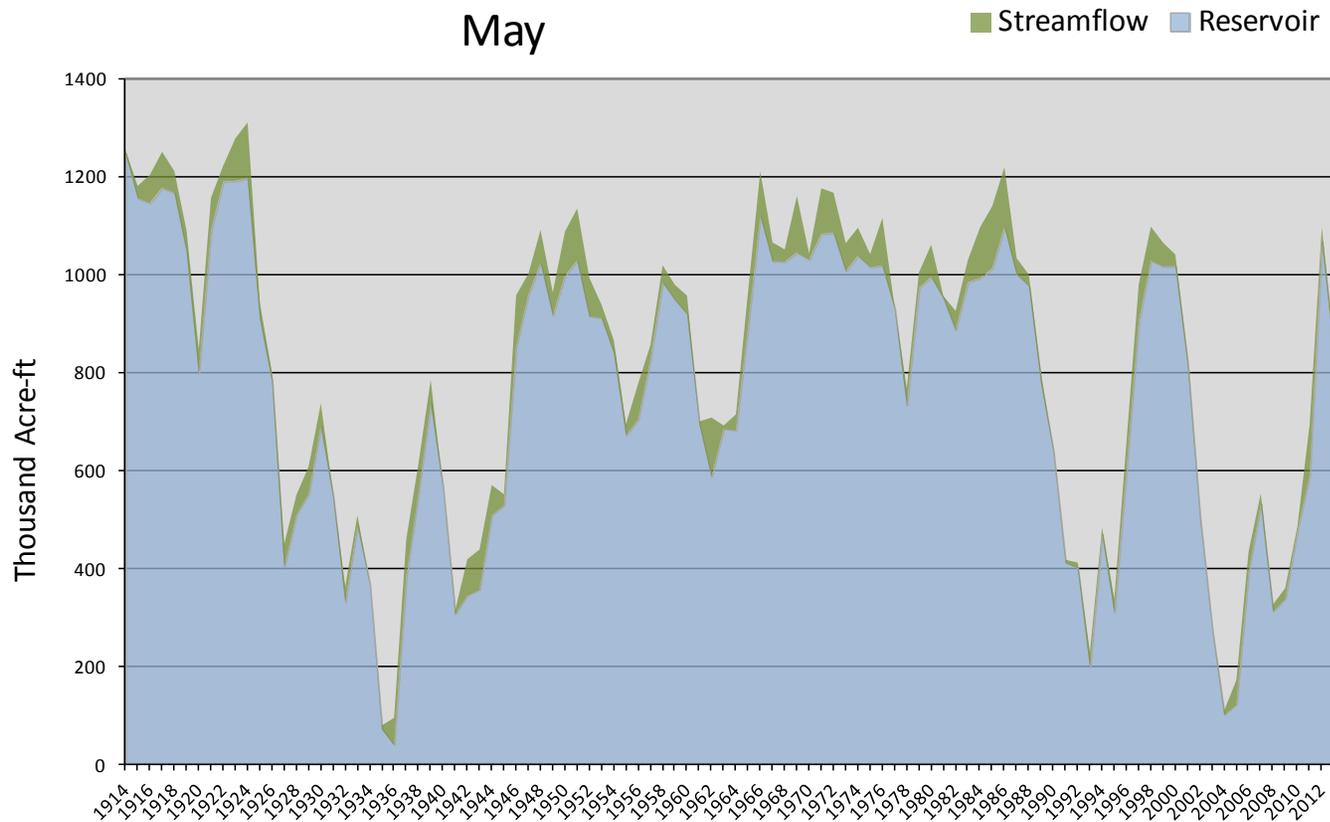
Reservoir Storage



May 1, 2013		Water Availability Index				
Basin or Region	April EOM* Bear Lake	April accumulated inflow to Bear Lake (<i>observed</i>)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Bear River	841	16	857	-0.12	49	20, 57, 54, 82

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

Bear River - Surface Water Supply Index
May

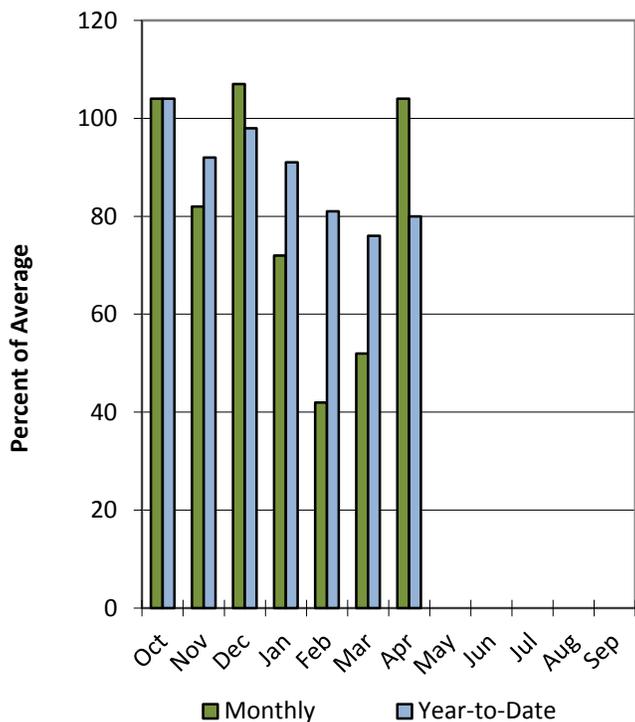


Weber & Ogden River Basins

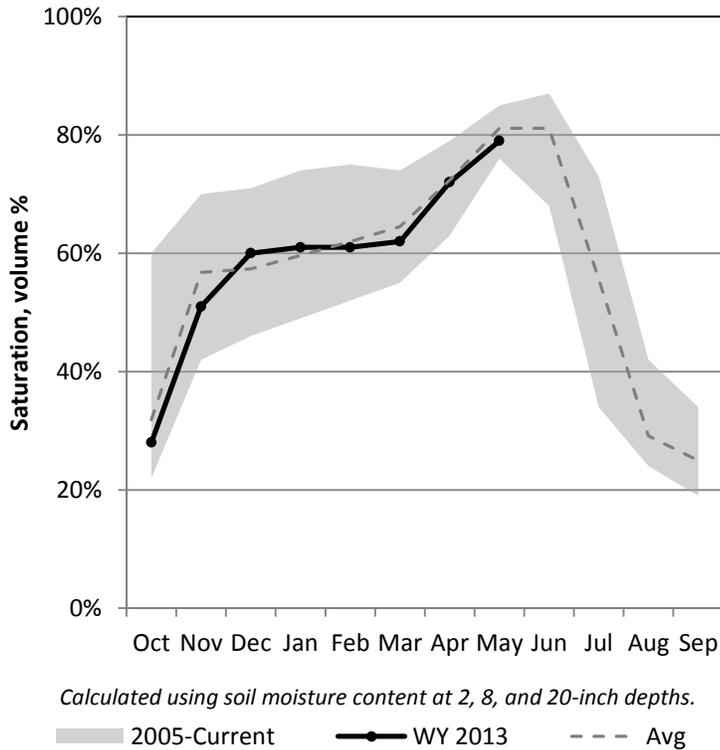
5/1/2013

Precipitation in April was near average at 104%, which brings the seasonal accumulation (Oct-Apr) to 80% of average. Soil moisture is at 79% compared to 83% last year. Reservoir storage is at 63% of capacity, compared to 94% last year. The water availability index for the Ogden River is 32% and 18% for the Weber River.

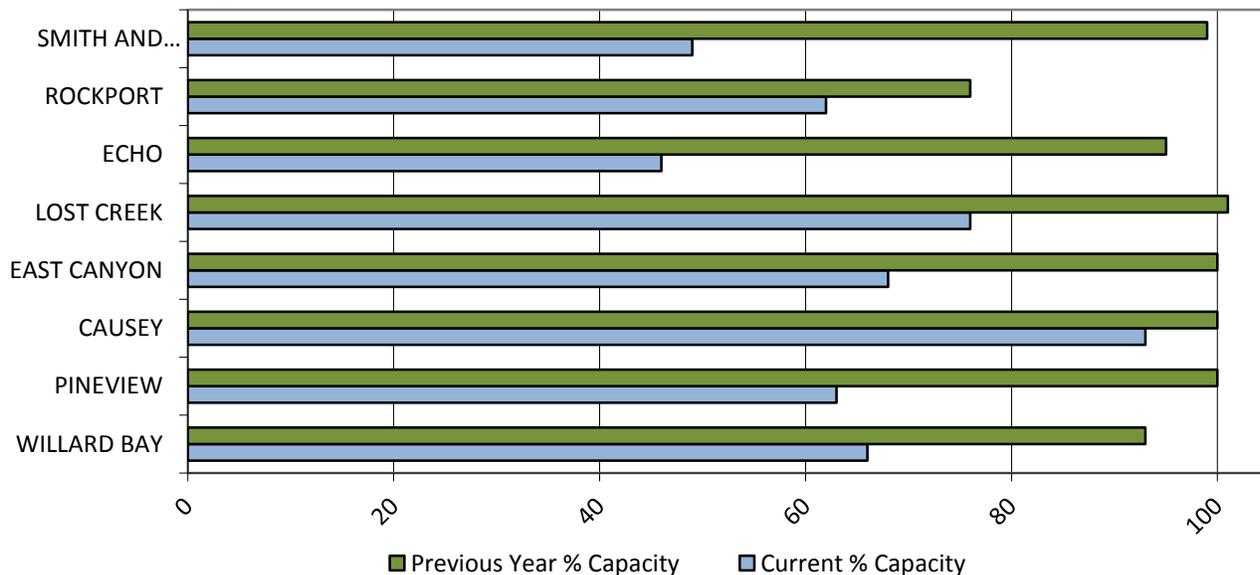
Precipitation



Soil Moisture



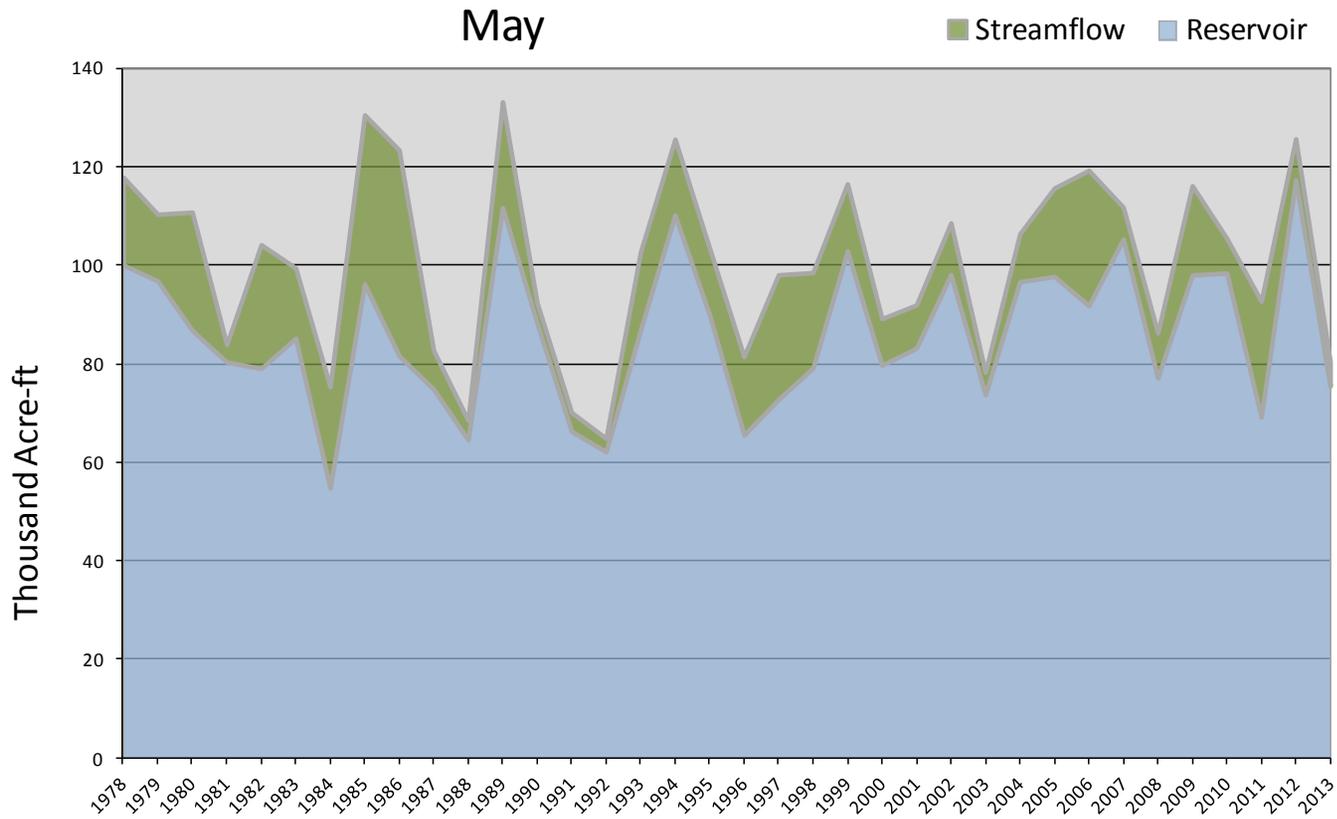
Reservoir Storage



May 1, 2013		Water Availability Index				
Basin or Region	April EOM* Pine View & Causey	April accumulated flow at South Fork Ogden (observed)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Ogden River	75.5	5.0	80.5	-2.82	16	84, 03, 96, 87

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

Ogden River - Water Availability Index

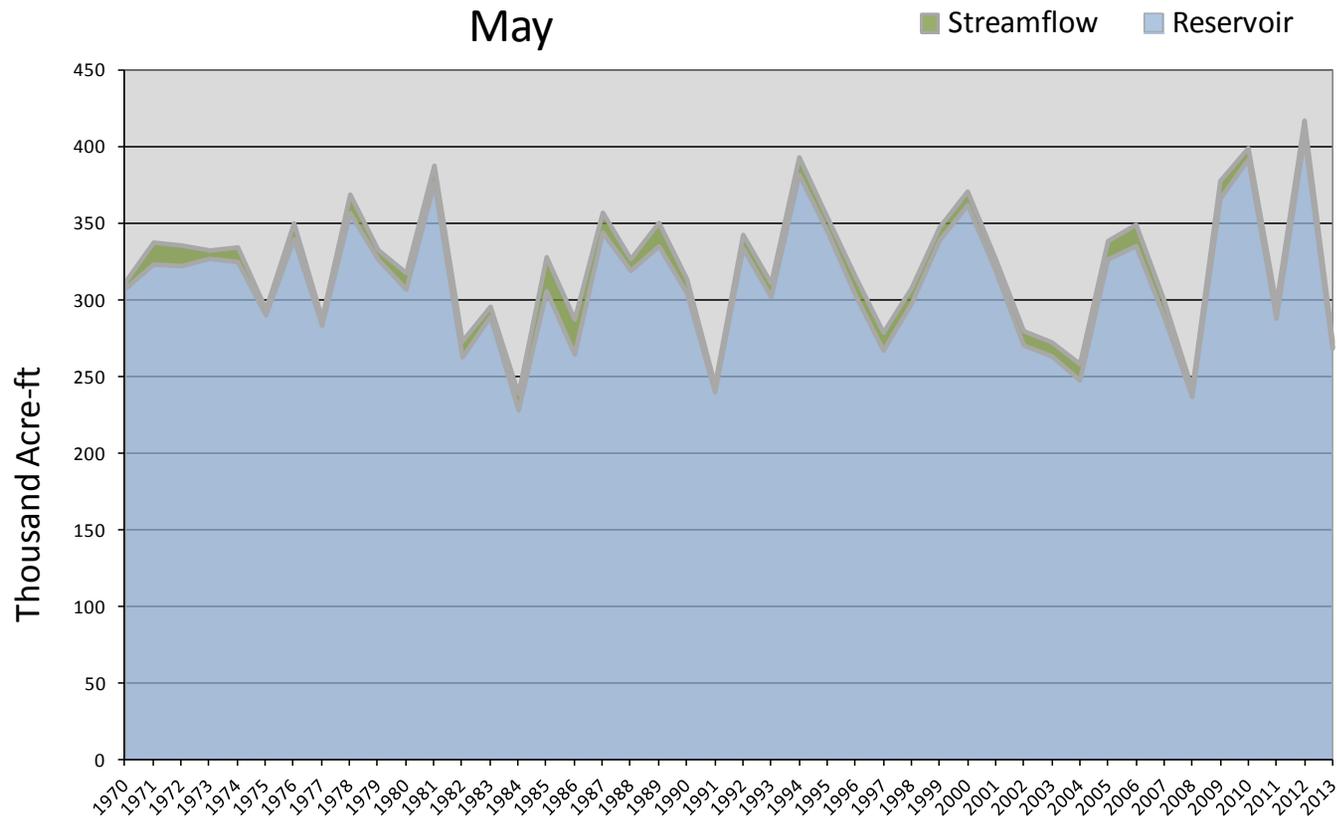


May 1, 2013		Water Availability Index				
Basin or Region	April EOM* Reservoirs	April accumulated flow at Weber near Oakley (<i>observed</i>)	Reservoirs + Streamflow	WAI [#]	Percentile	Years with similar WAI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Weber River	268	5	273	-2.87	16	03, 82, 97, 02

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

Weber River - Water Availability Index

May

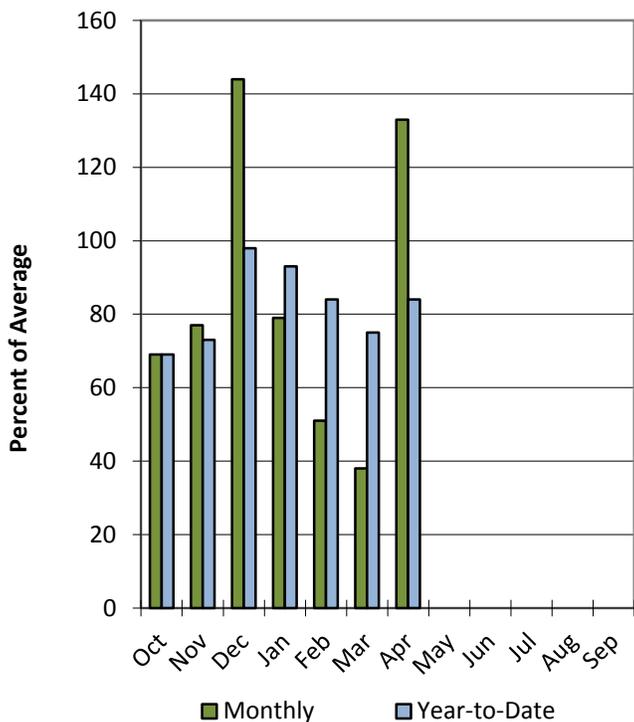


Tooele & Vernon Creek Basins

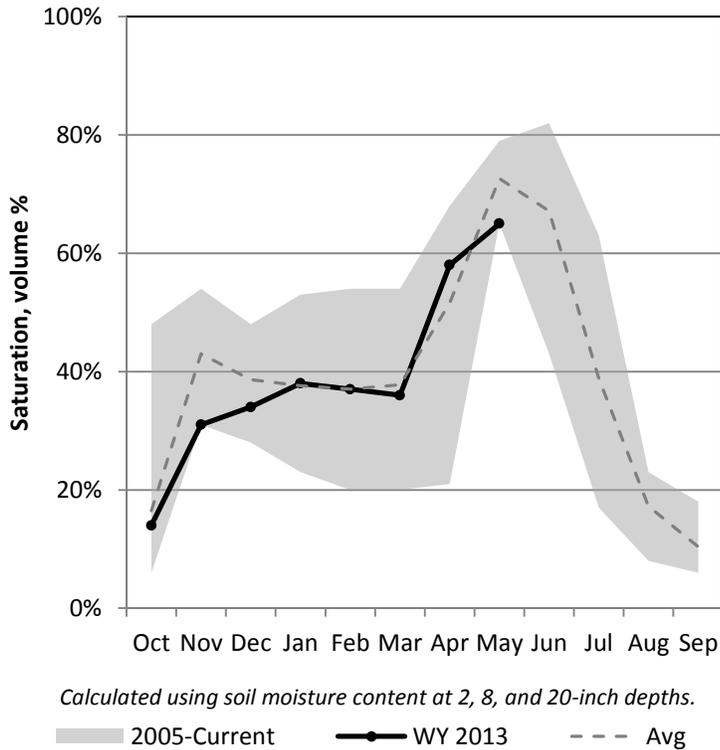
5/1/2013

Precipitation in April was much above average at 133%, which brings the seasonal accumulation (Oct-Apr) to 84% of average. Soil moisture is at 65% compared to 76% last year. Reservoir storage is at 69% of capacity, compared to 88% last year.

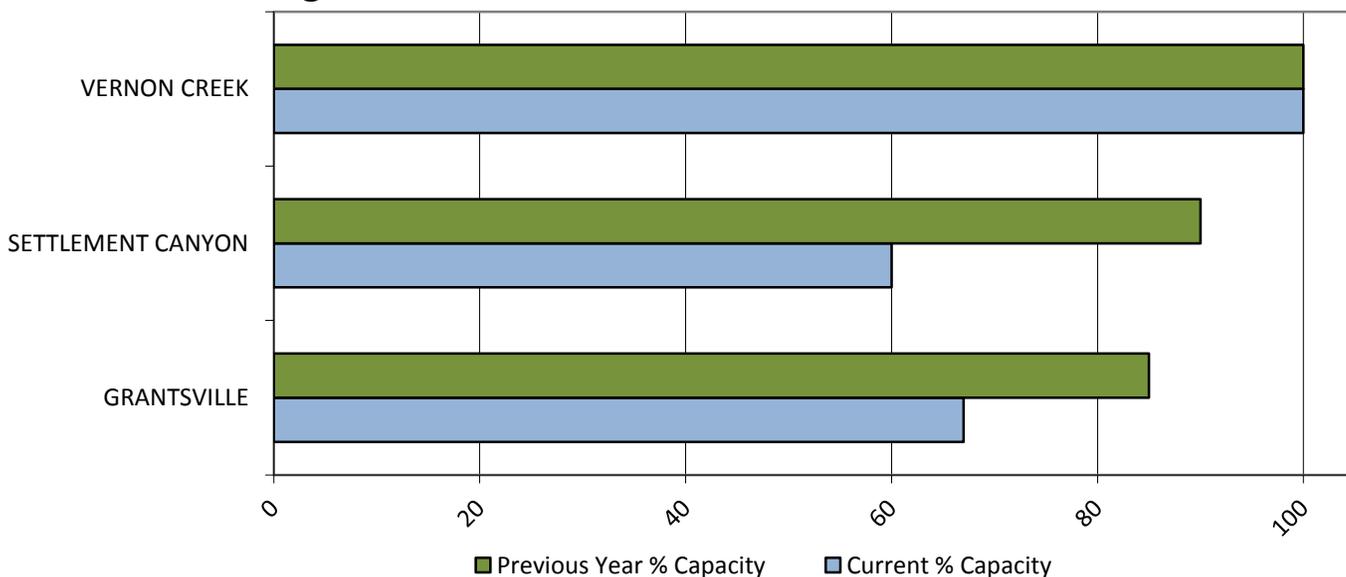
Precipitation



Soil Moisture



Reservoir Storage

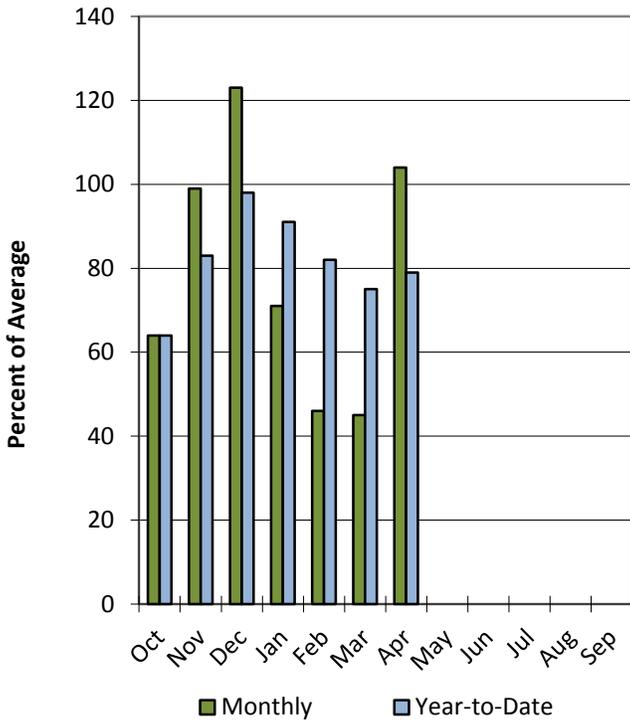


Provo & Jordan River Basins

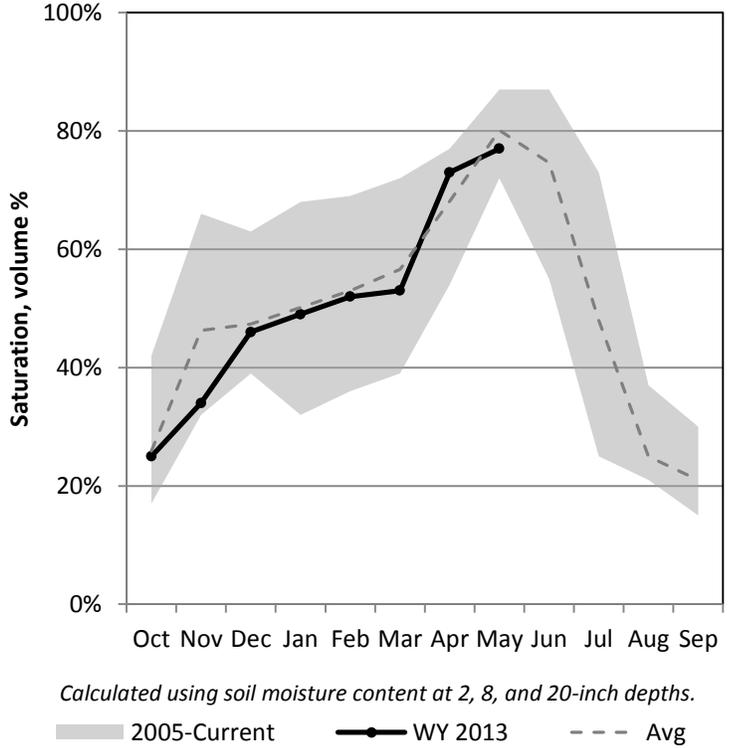
5/1/2013

Precipitation in April was near average at 104%, which brings the seasonal accumulation (Oct-Apr) to 79% of average. Soil moisture is at 77% compared to 79% last year. Reservoir storage is at 80% of capacity, compared to 93% last year. The water availability index for the Provo River is 0.21%.

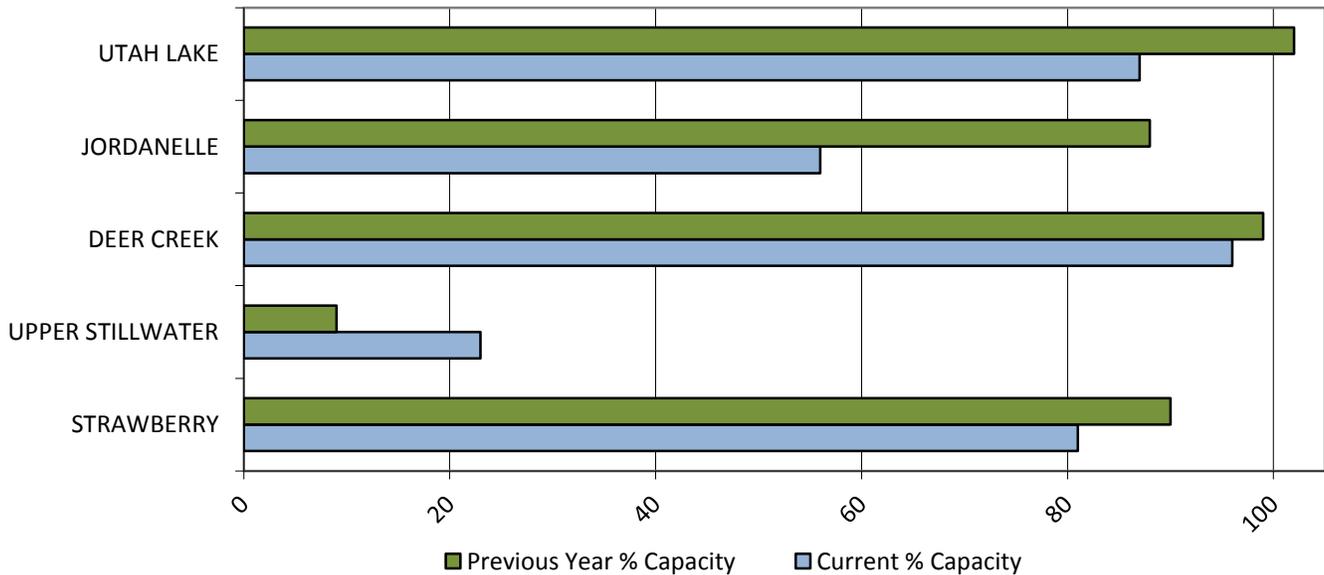
Precipitation



Soil Moisture



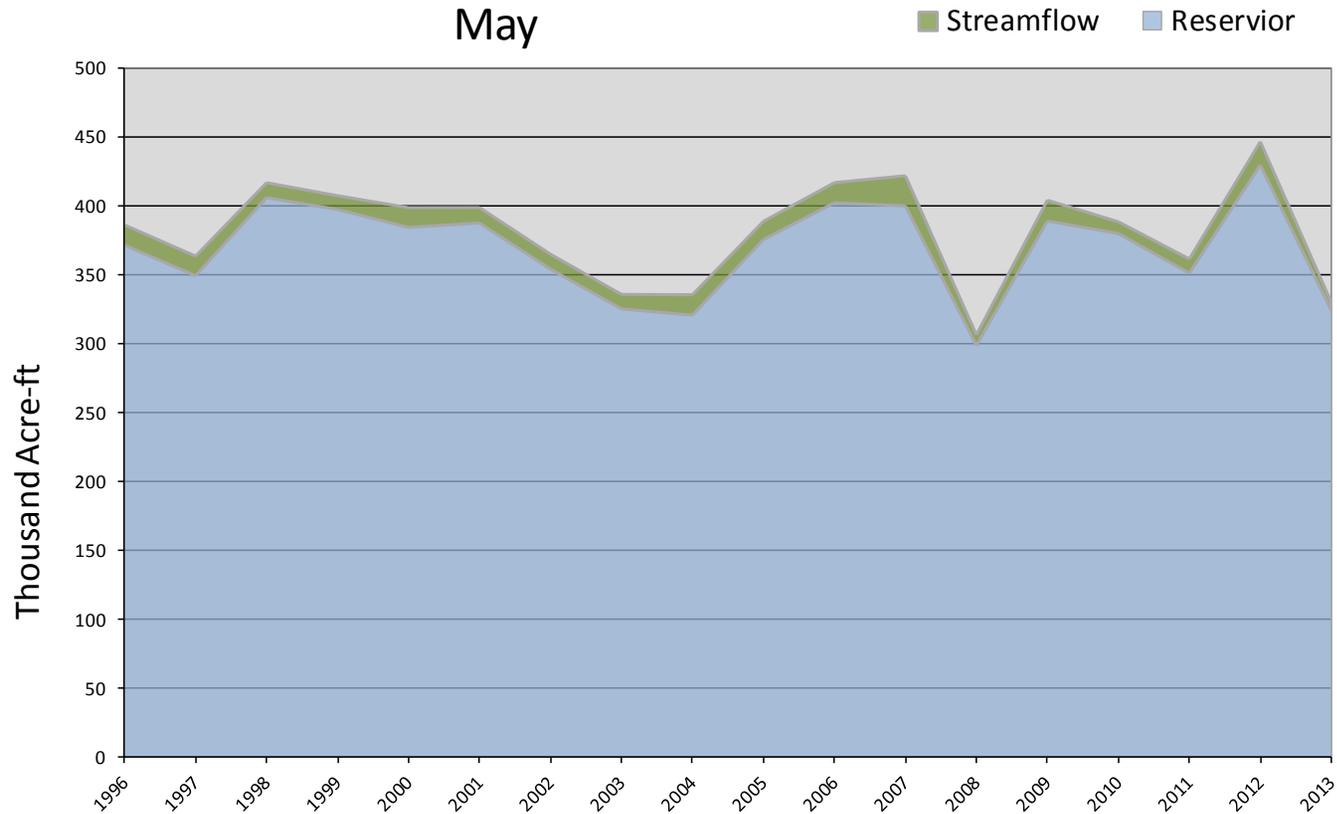
Reservoir Storage



5/1/2013		Water Availability Index				
Basin or Region	April EOM* Deer Creek, Jordanelle	April accumulated flow Provo River at Woodland (observed)	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	KAF [^]	KAF	KAF		%	
Provo	324	5.8	330	-3.29	11%	11,03,04,08

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

Provo River - Water Availability Index
May

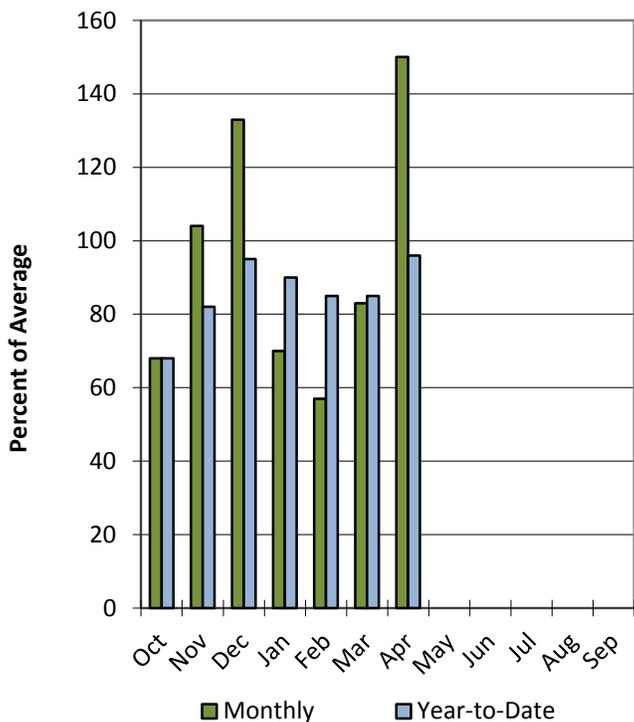


Northeastern Uintah Basin

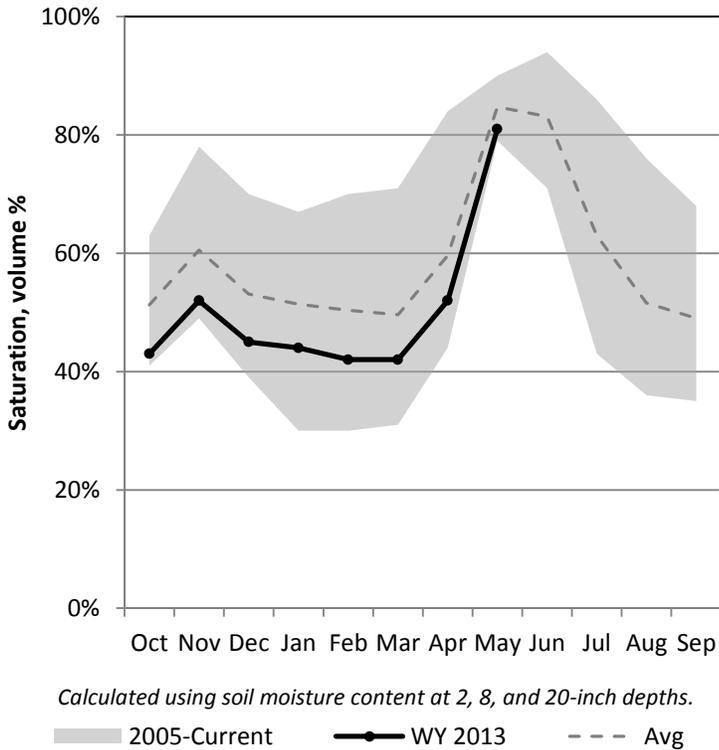
5/1/2013

Precipitation in April was much above average at 150%, which brings the seasonal accumulation (Oct-Apr) to 96% of average. Soil moisture is at 81% compared to 89% last year. Reservoir storage is at 80% of capacity, compared to 85% last year.

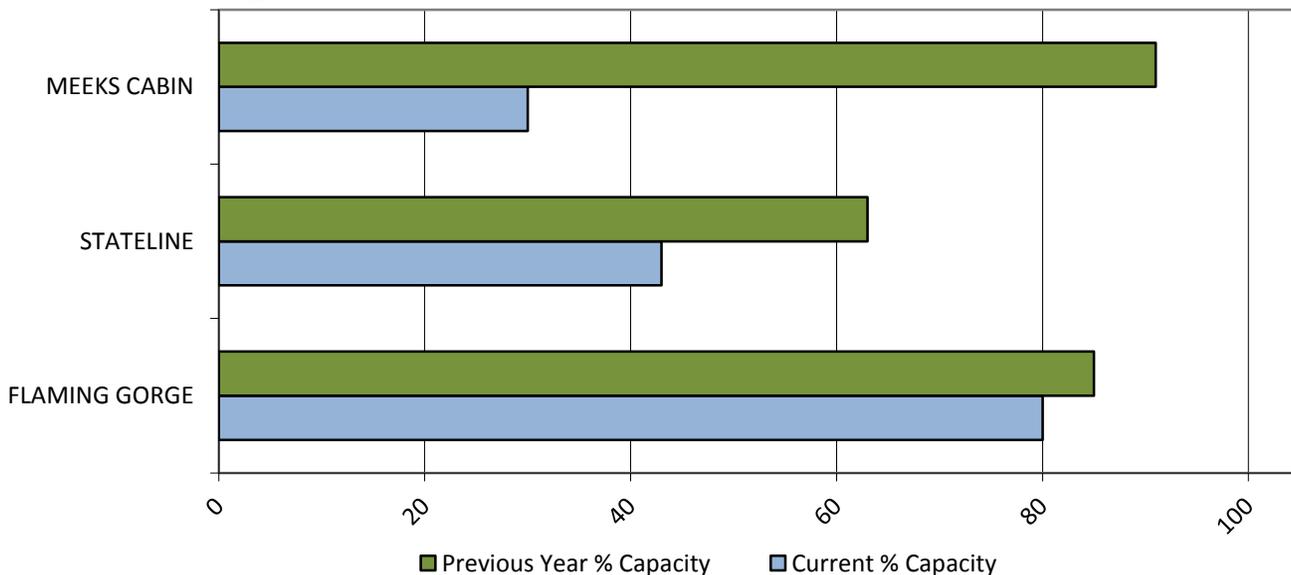
Precipitation



Soil Moisture



Reservoir Storage

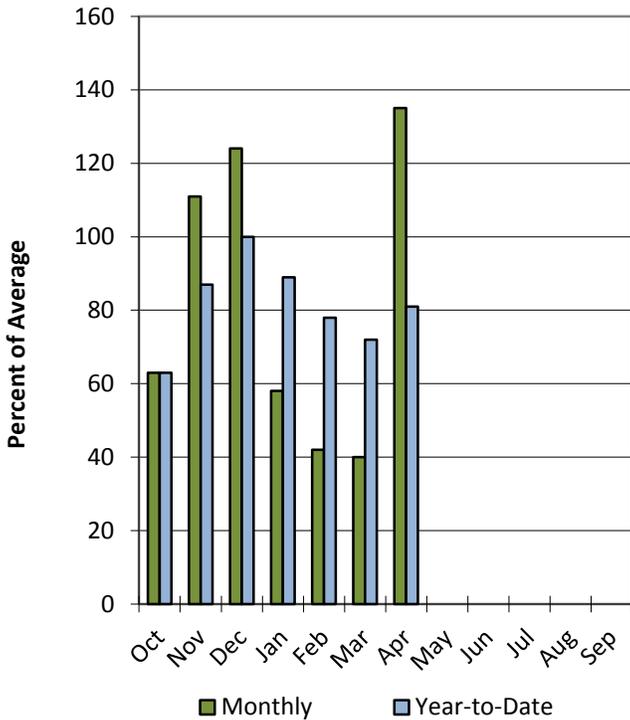


Duchesne River Basin

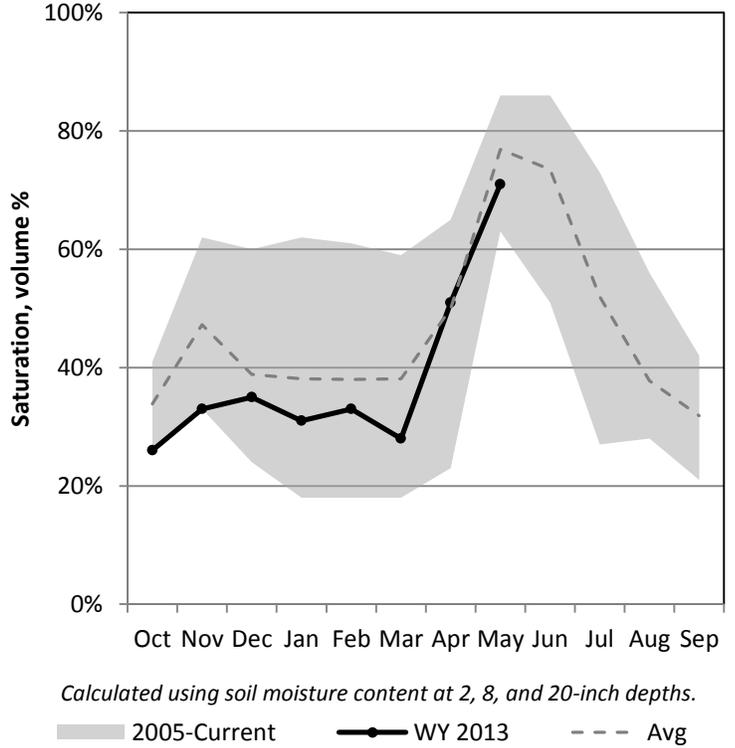
5/1/2013

Precipitation in April was much above average at 135%, which brings the seasonal accumulation (Oct-Apr) to 81% of average. Soil moisture is at 71% compared to 78% last year. Reservoir storage is at 80% of capacity, compared to 89% last year. The water availability index for the Western Uintahs is 20% and 14% for the Eastern Uintahs.

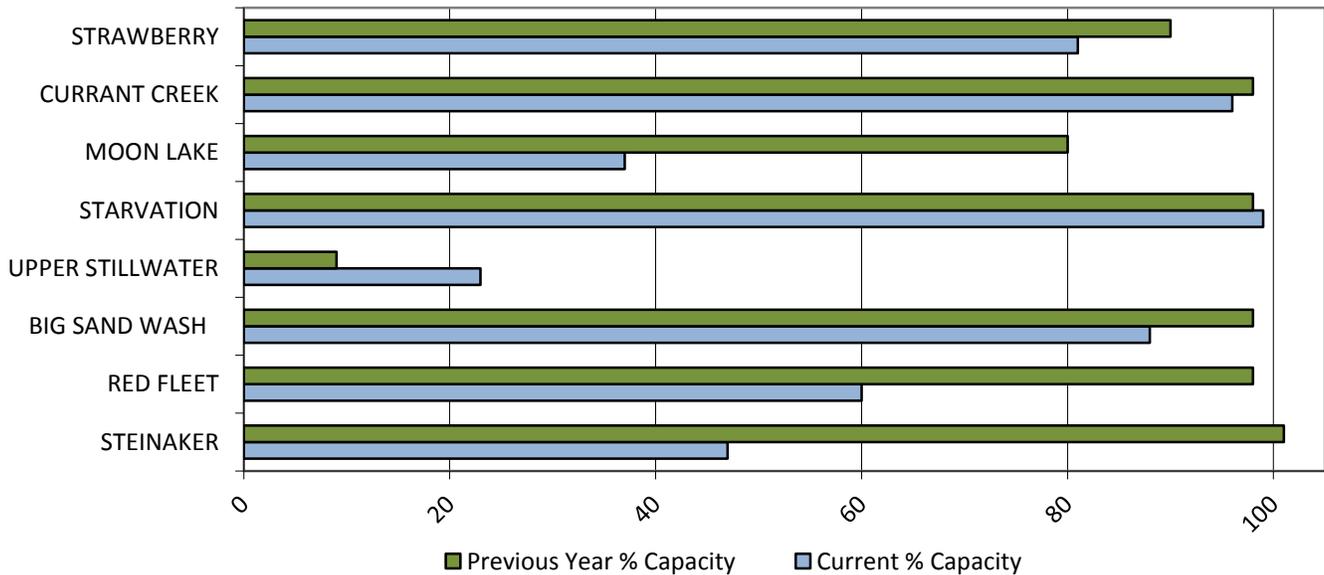
Precipitation



Soil Moisture



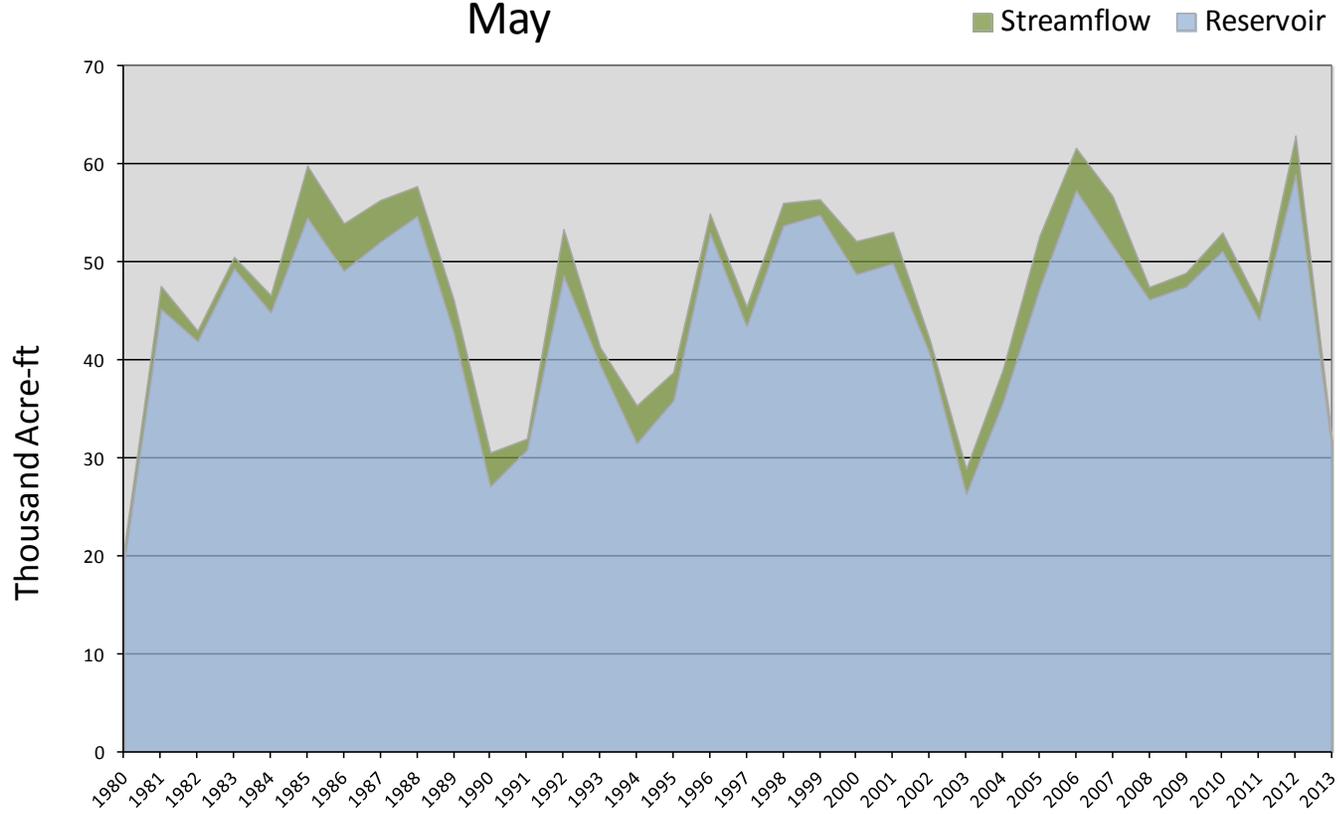
Reservoir Storage



May 1, 2013		Water Availability Index				
Basin or Region	April EOM* Red Fleet and Steinaker	April accumulated flow Big Brush Creek (<i>observed</i>)	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	KAF [^]	KAF	KAF		%	
Eastern Uintah	30.9	0.8	32	-3.21	11	03, 90, 91, 94

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

Eastern Uintah - Water Availability Index
May



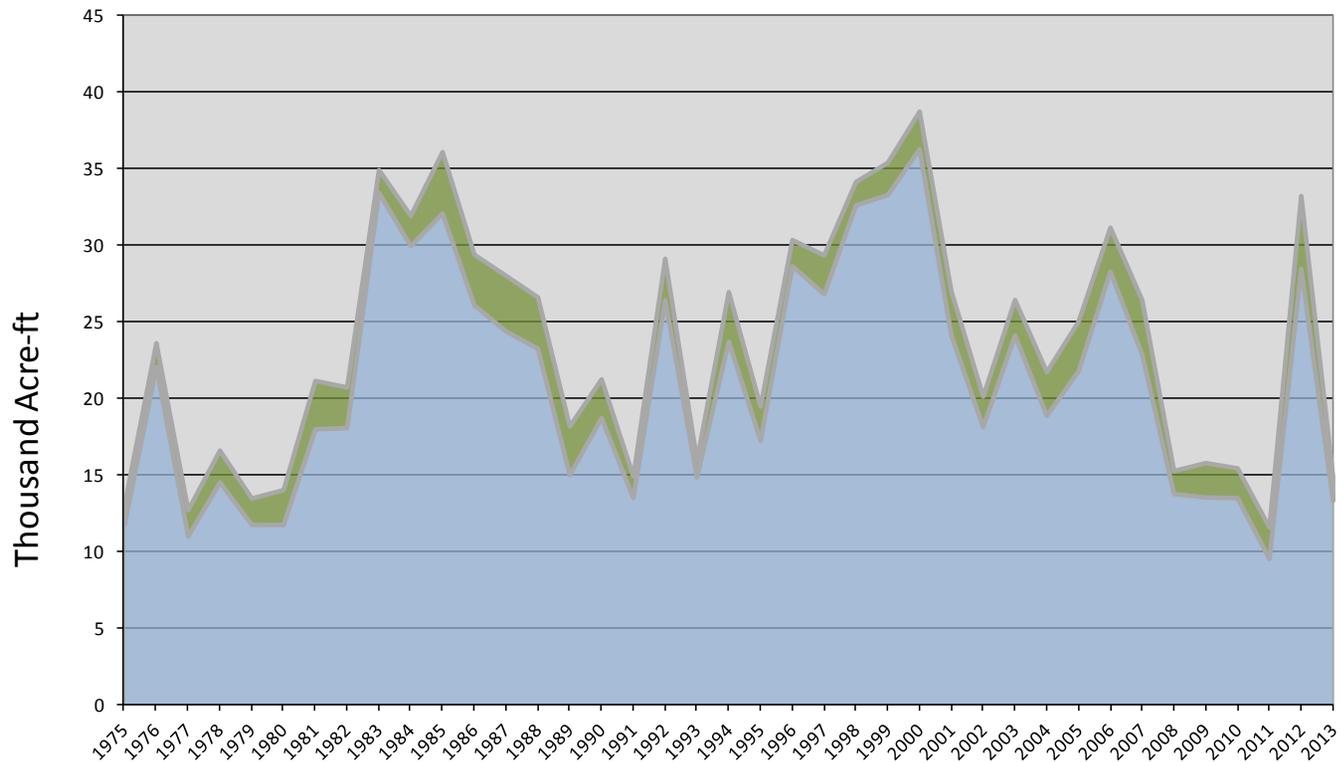
Water Availability Index						
May 1, 2013						
Basin or Region	April EOM* Moon Lake	April accumulated flow Lake Fork Creek above Moon Lake (<i>observed</i>)	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	KAF [^]	KAF	KAF		%	
Moon Lake	13.3	1.6	14.9	-2.92	15	79, 80, 91, 08

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

Moon Lake - Water Availability Index

May

■ Streamflow ■ Reservoirs

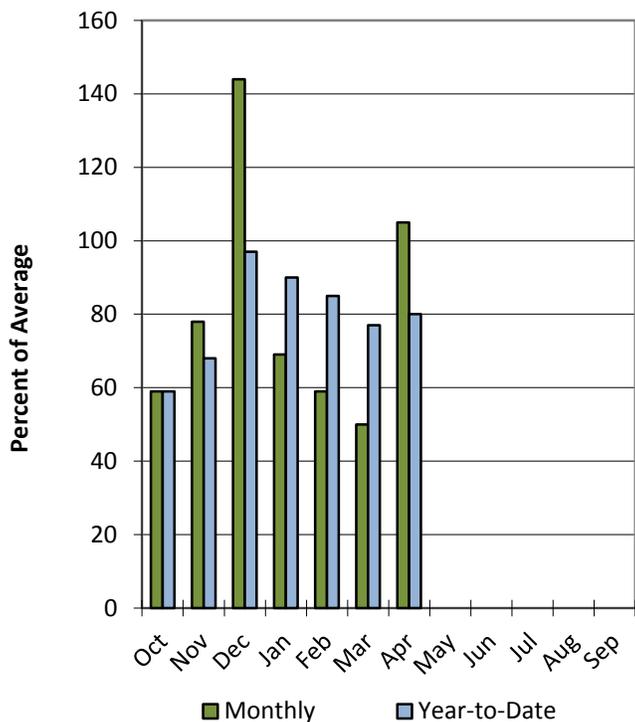


Price & San Rafael Basins

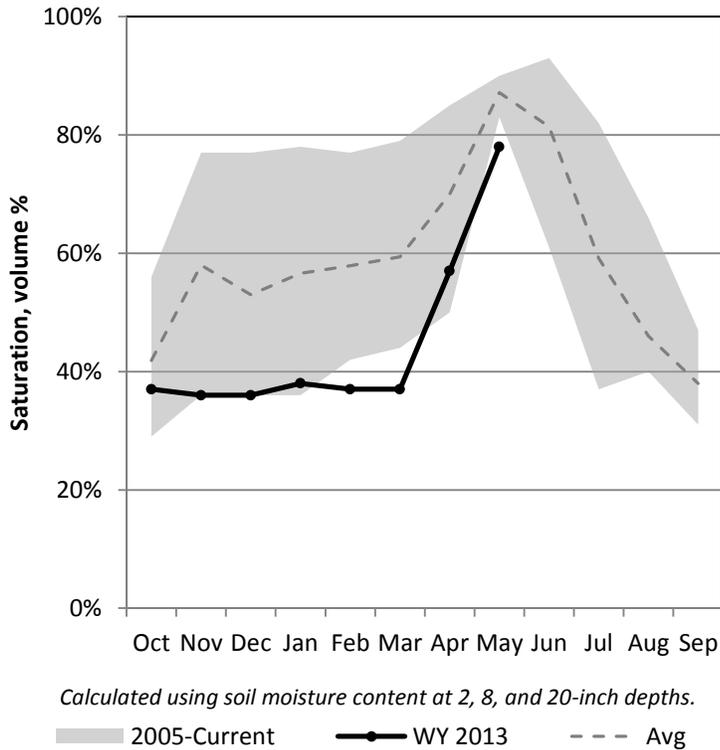
5/1/2013

Precipitation in April was near average at 105%, which brings the seasonal accumulation (Oct-Apr) to 80% of average. Soil moisture is at 78% compared to 90% last year. Reservoir storage is at 49% of capacity, compared to 83% last year. The water availability index for the Price River is 45%, and 23% for Joe's Valley.

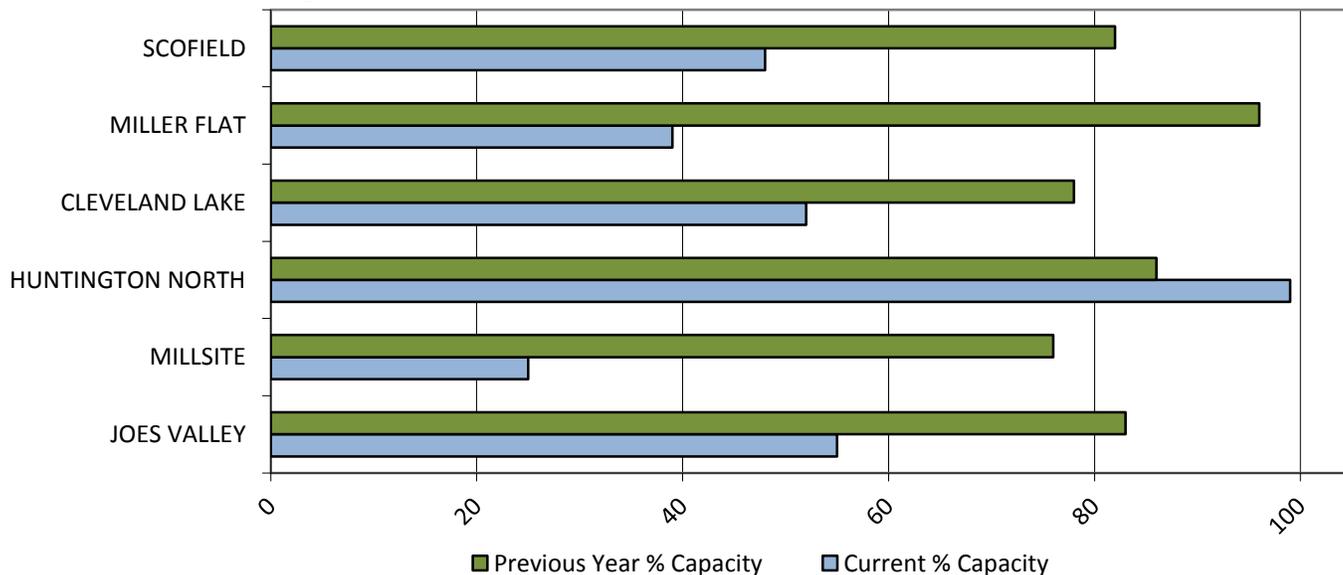
Precipitation



Soil Moisture



Reservoir Storage



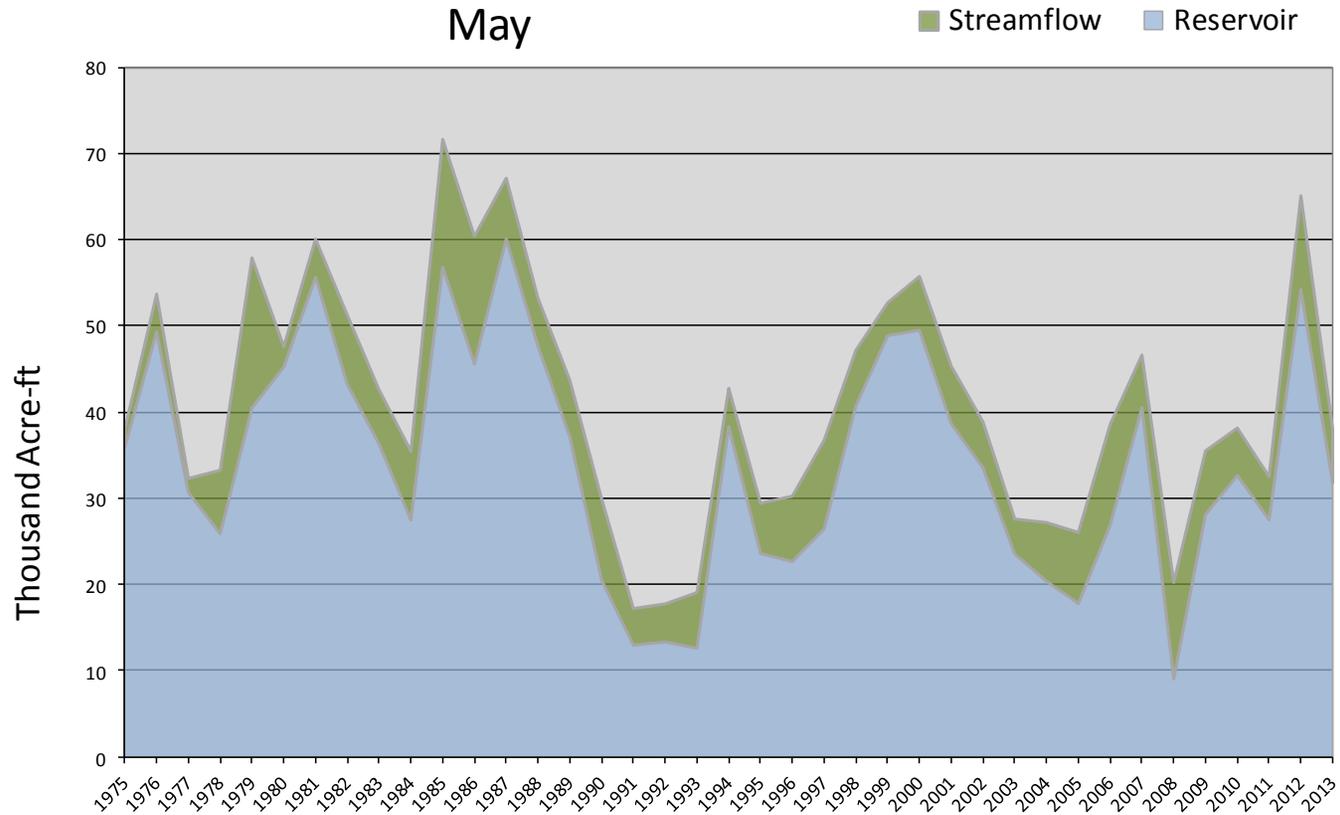
May 1, 2013

Water Availability Index

Basin or Region	April EOM* Scofield	April accumulated inflow to Scofield (calculated)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Price River	31.8	6.3	38.1	-0.42	45	97, 75, 10, 06

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

Price River - Water Availability Index



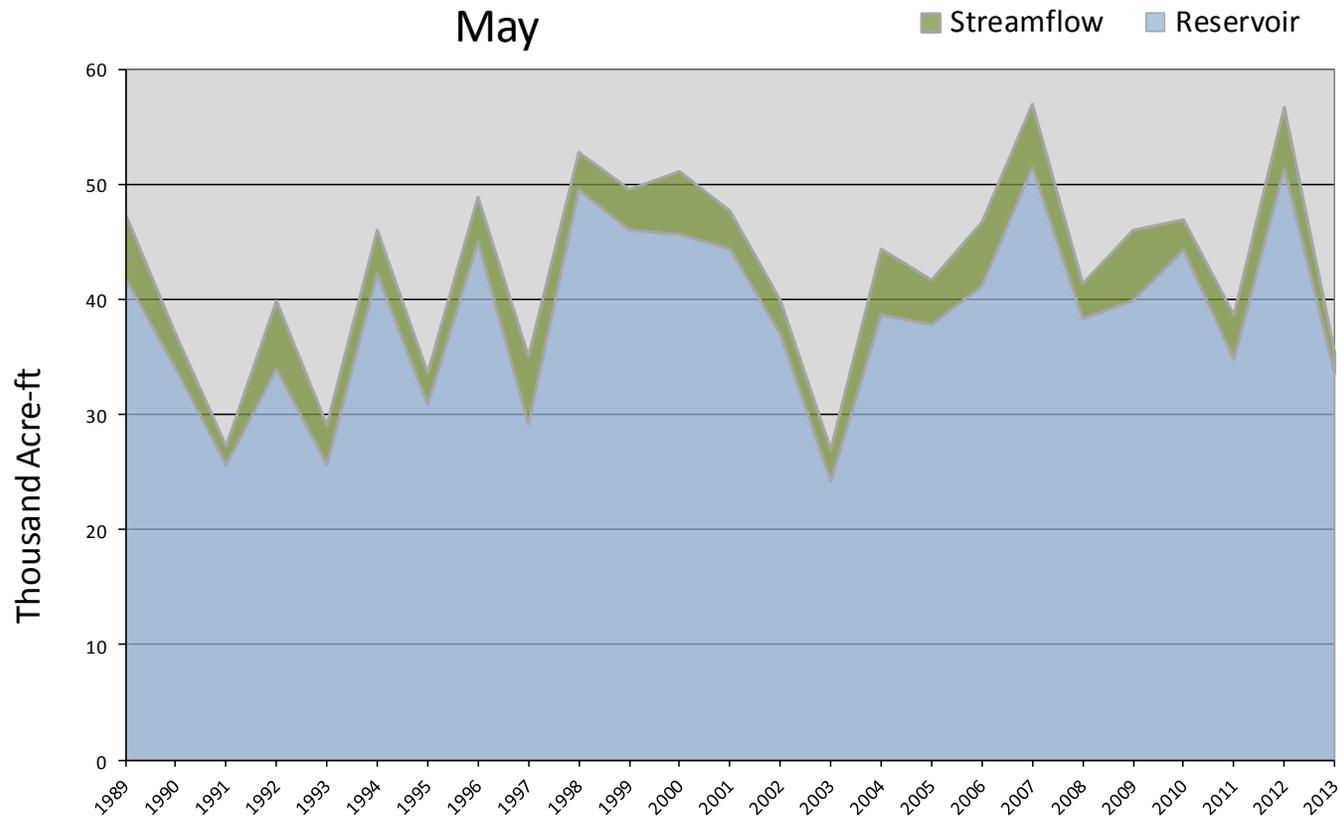
May 1, 2013

Water Availability Index

Basin or Region	April EOM* Joe's Valley	April accumulated inflow to Joe's Valley (calculated)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Joe's Valley	33.6	1.8	35.4	-2.24	23	95, 97, 90, 11

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

Joe's Valley - Water Availability Index

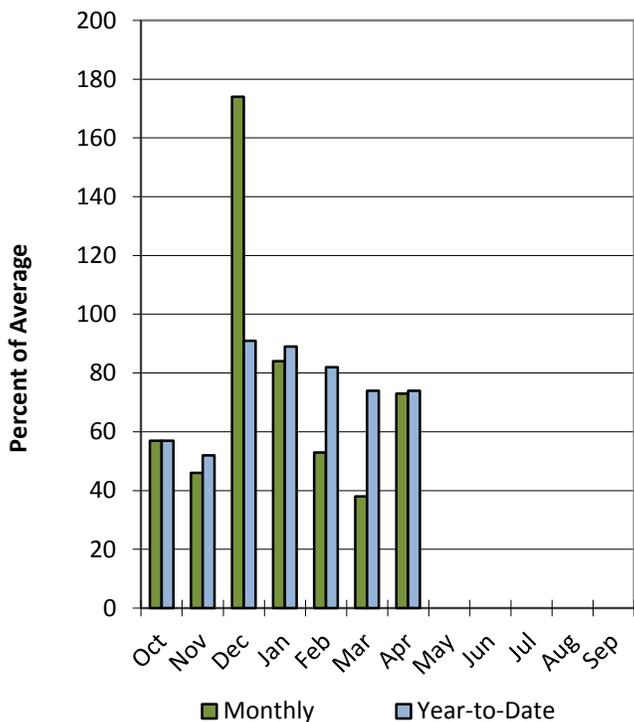


Southeastern Utah Basin

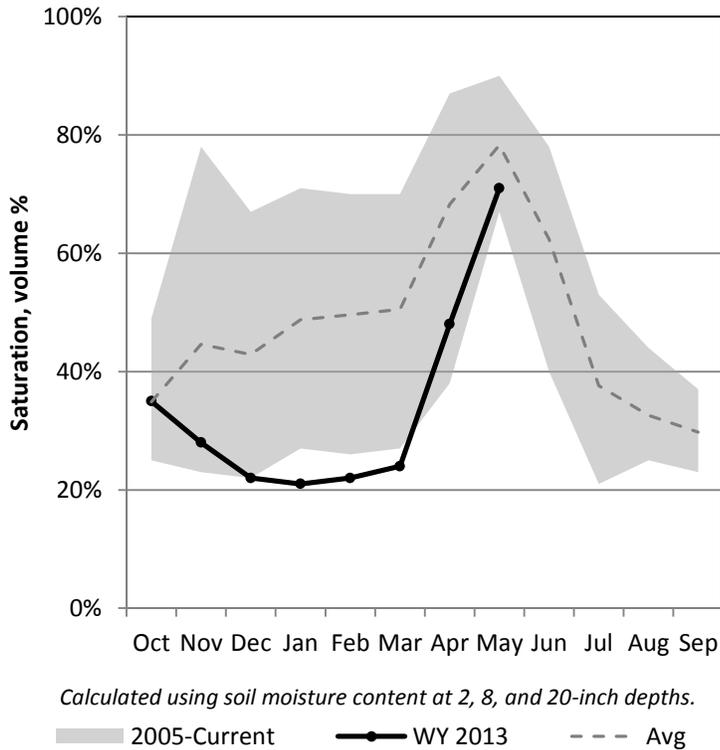
5/1/2013

Precipitation in April was below average at 73%, which brings the seasonal accumulation (Oct-Apr) to 74% of average. Soil moisture is at 71% compared to 72% last year. Reservoir storage is at 20% of capacity, compared to 65% last year. The water availability index for Moab is 4%.

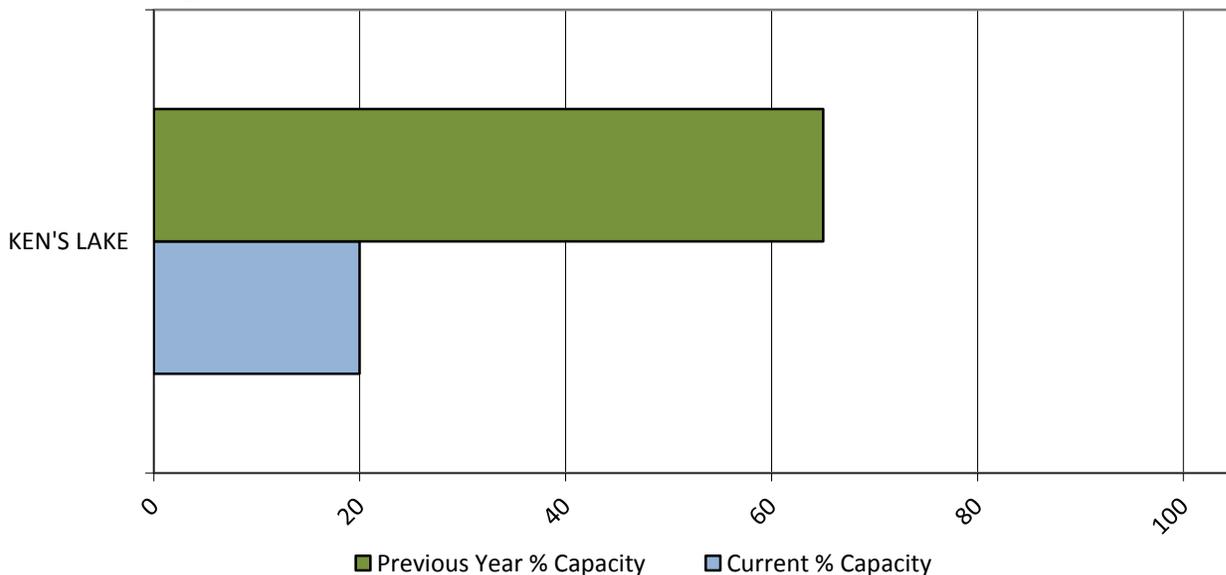
Precipitation



Soil Moisture



Reservoir Storage



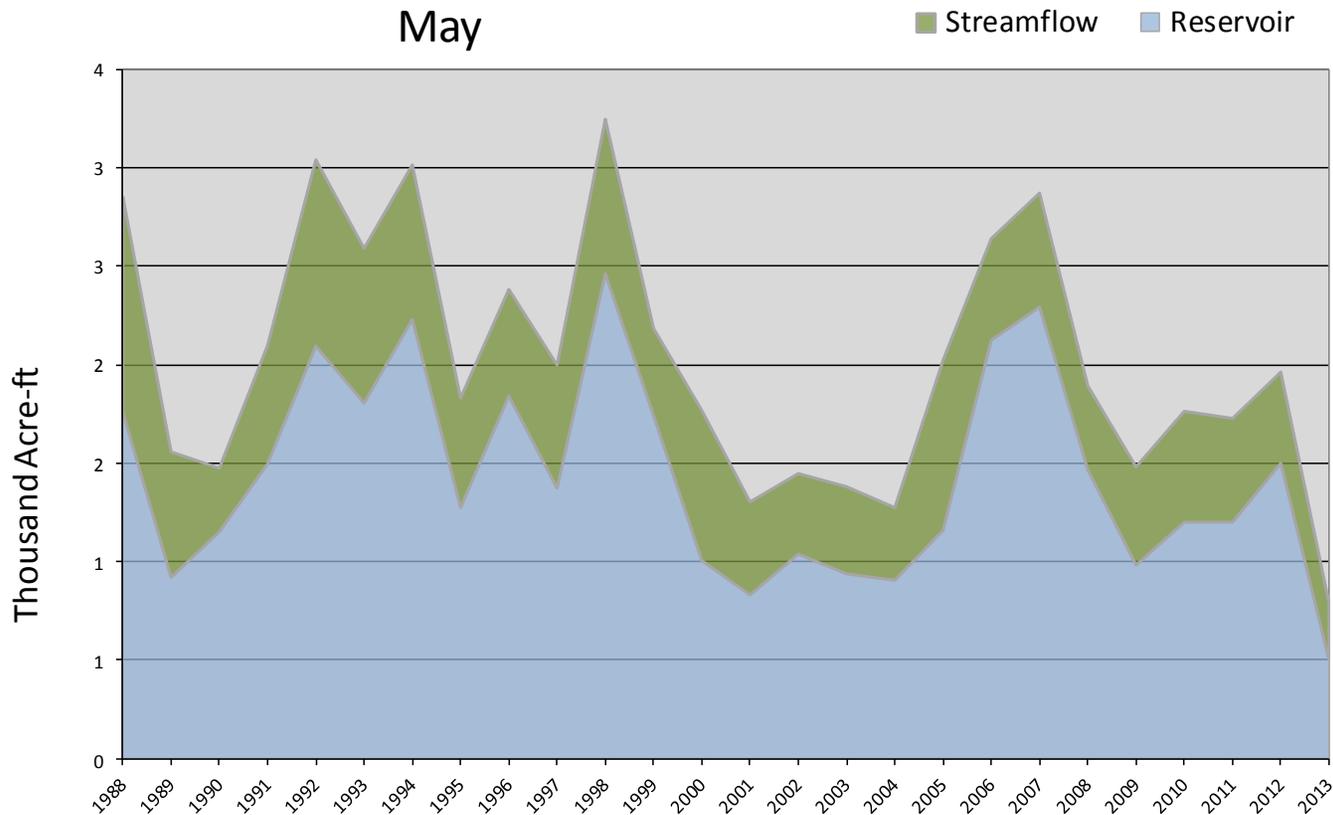
May 1, 2013

Water Availability Index

Basin or Region	April			WAI [#]	Percentile	Years with similar WAI
	April EOM* Ken's Lake Reservoir	accumulated flow Mill Creek at Sheley (<i>observed</i>)	Reservoir + Streamflow			
	KAF [^]	KAF	KAF		%	
Moab	0.5	0.3	0.8	-3.86	4	04, 01

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

Moab - Water Availability Index

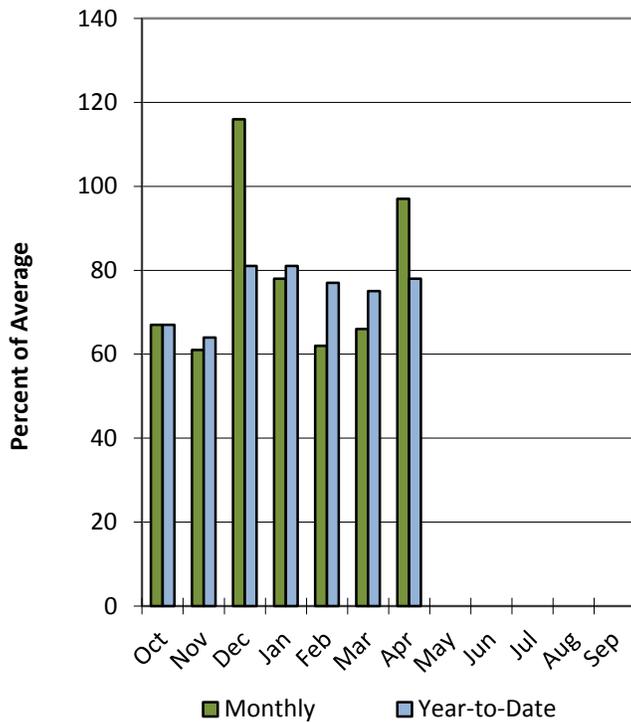


Dirty Devil Basin

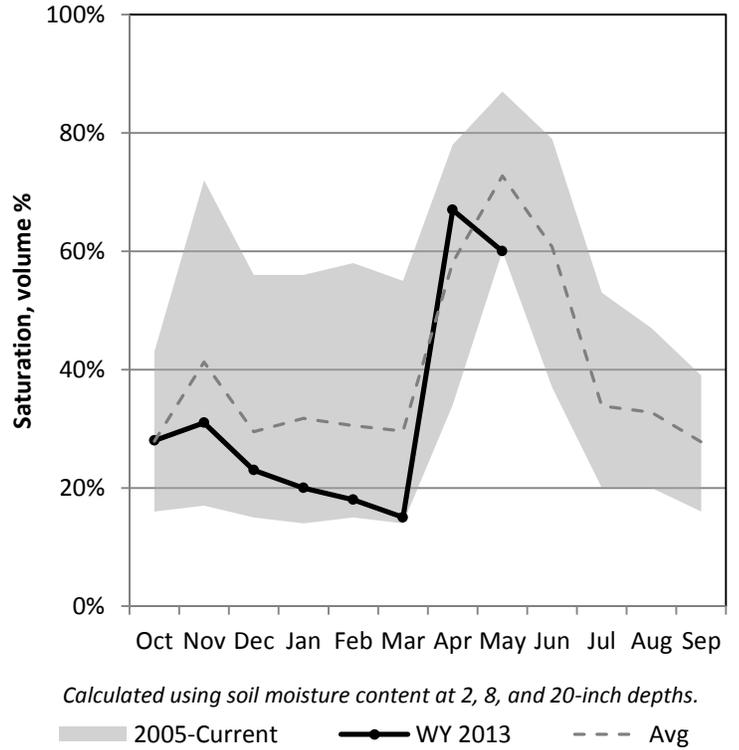
5/1/2013

Precipitation in April was near average at 97%, which brings the seasonal accumulation (Oct-Apr) to 78% of average. Soil moisture is at 60% compared to 60% last year.

Precipitation



Soil Moisture

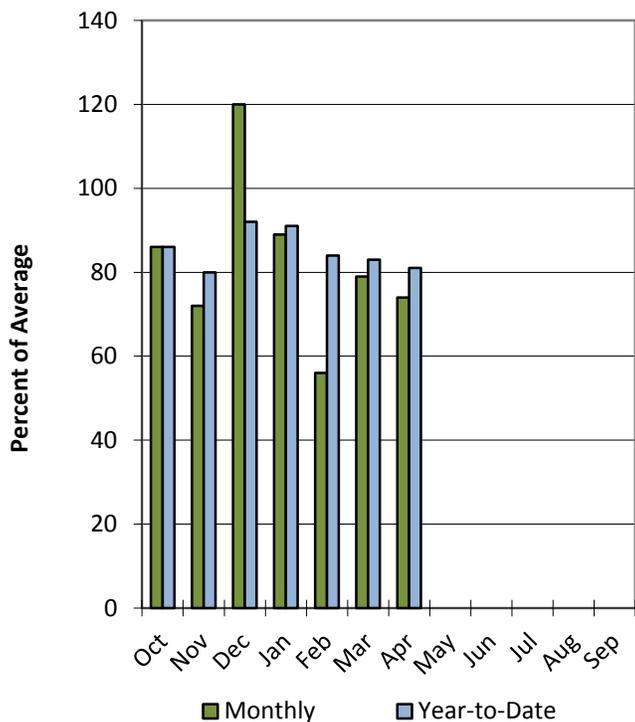


Escalante River Basin

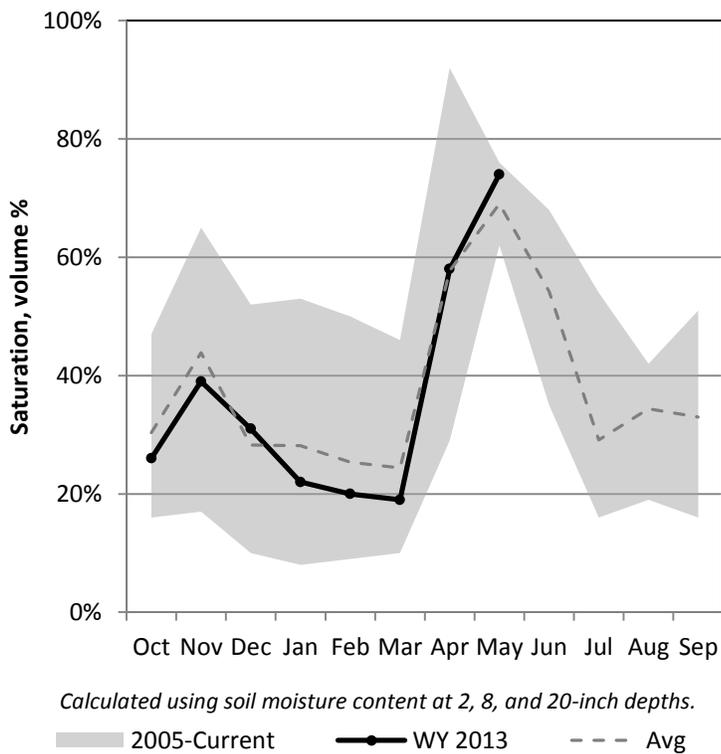
5/1/2013

Precipitation in April was below average at 74%, which brings the seasonal accumulation (Oct-Apr) to 81% of average. Soil moisture is at 74% compared to 62% last year.

Precipitation



Soil Moisture

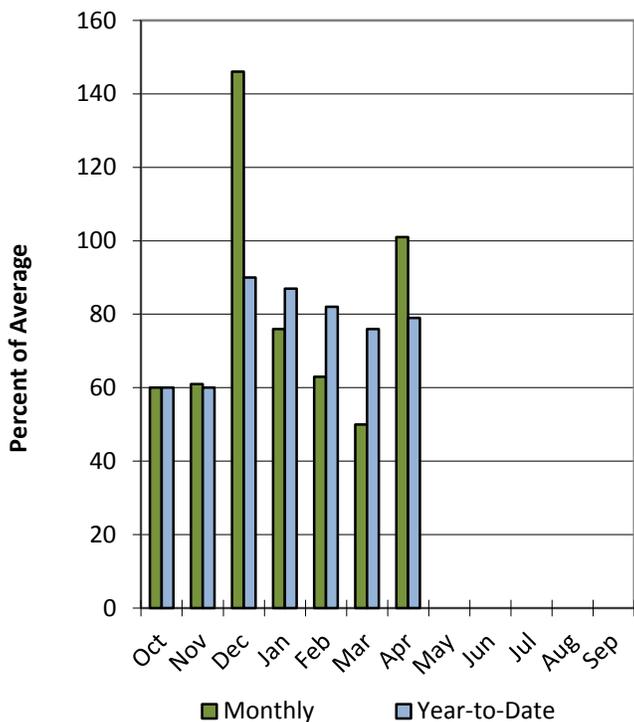


San Pitch River Basin

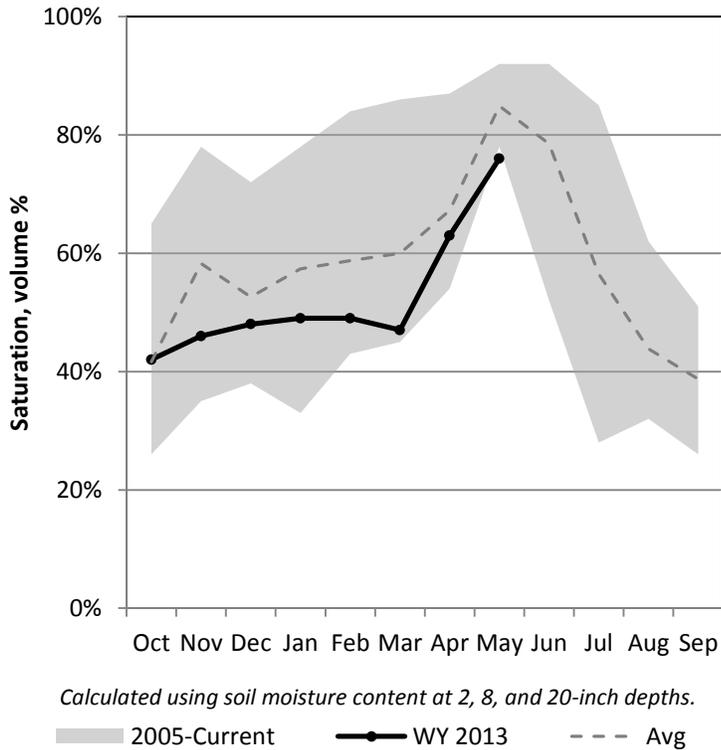
5/1/2013

Precipitation in April was near average at 101%, which brings the seasonal accumulation (Oct-Apr) to 79% of average. Soil Moisture is at 76% compared to 90% last year. Reservoir storage is at 54% of capacity, compared to 101% last year.

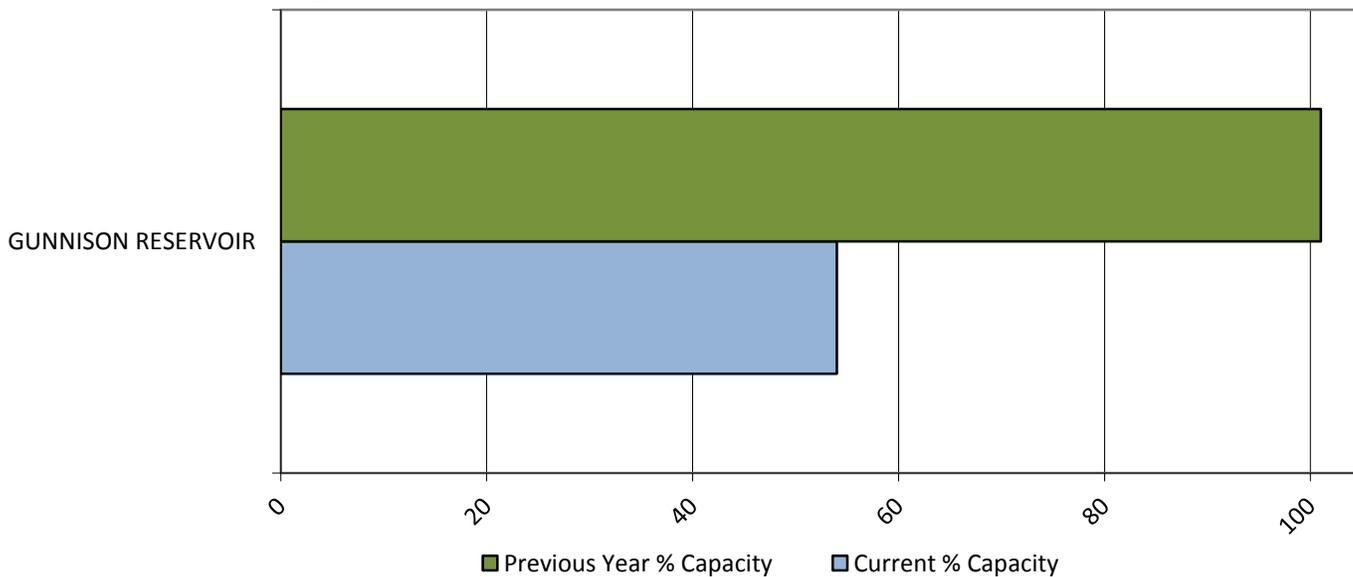
Precipitation



Soil Moisture



Reservoir Storage

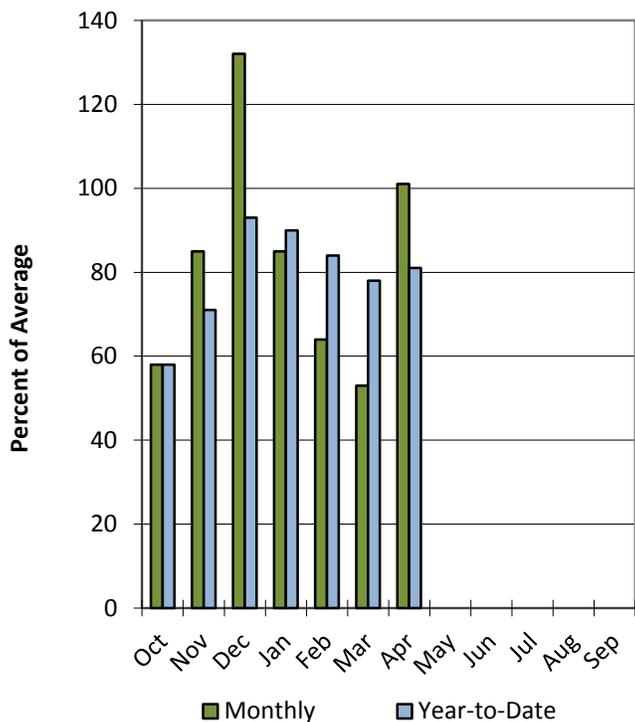


Upper Sevier River Basin

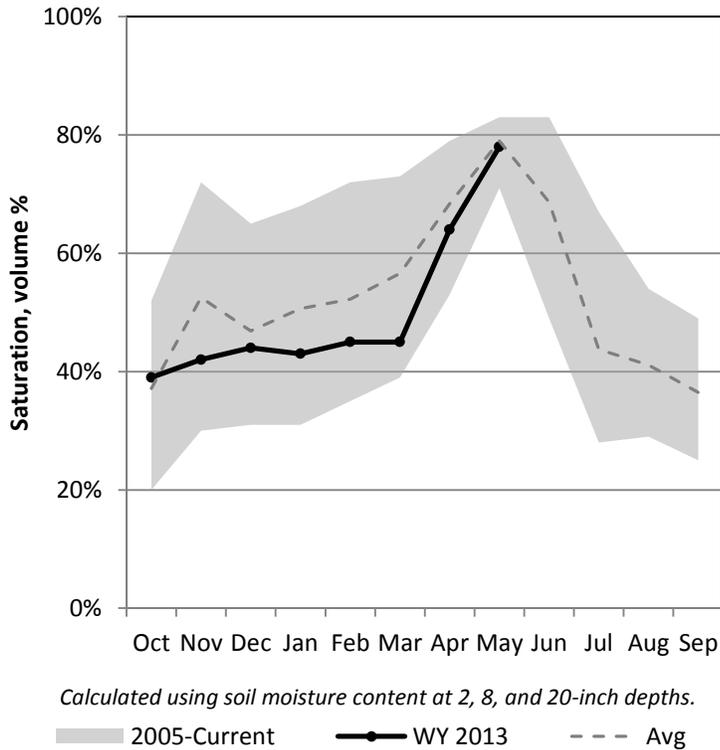
5/1/2013

Precipitation in April was near average at 101%, which brings the seasonal accumulation (Oct-Apr) to 81% of average. Soil moisture is at 78% compared to 76% last year. Reservoir storage is at 76% of capacity, compared to 87% last year. The water availability index for the Upper Sevier is 62%.

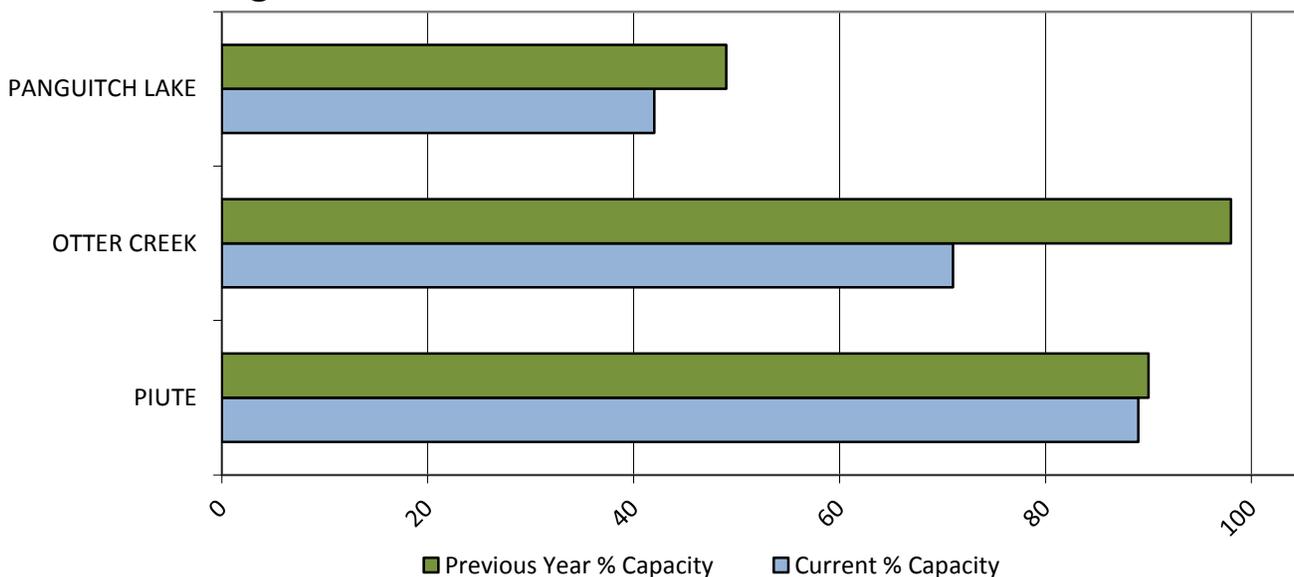
Precipitation



Soil Moisture

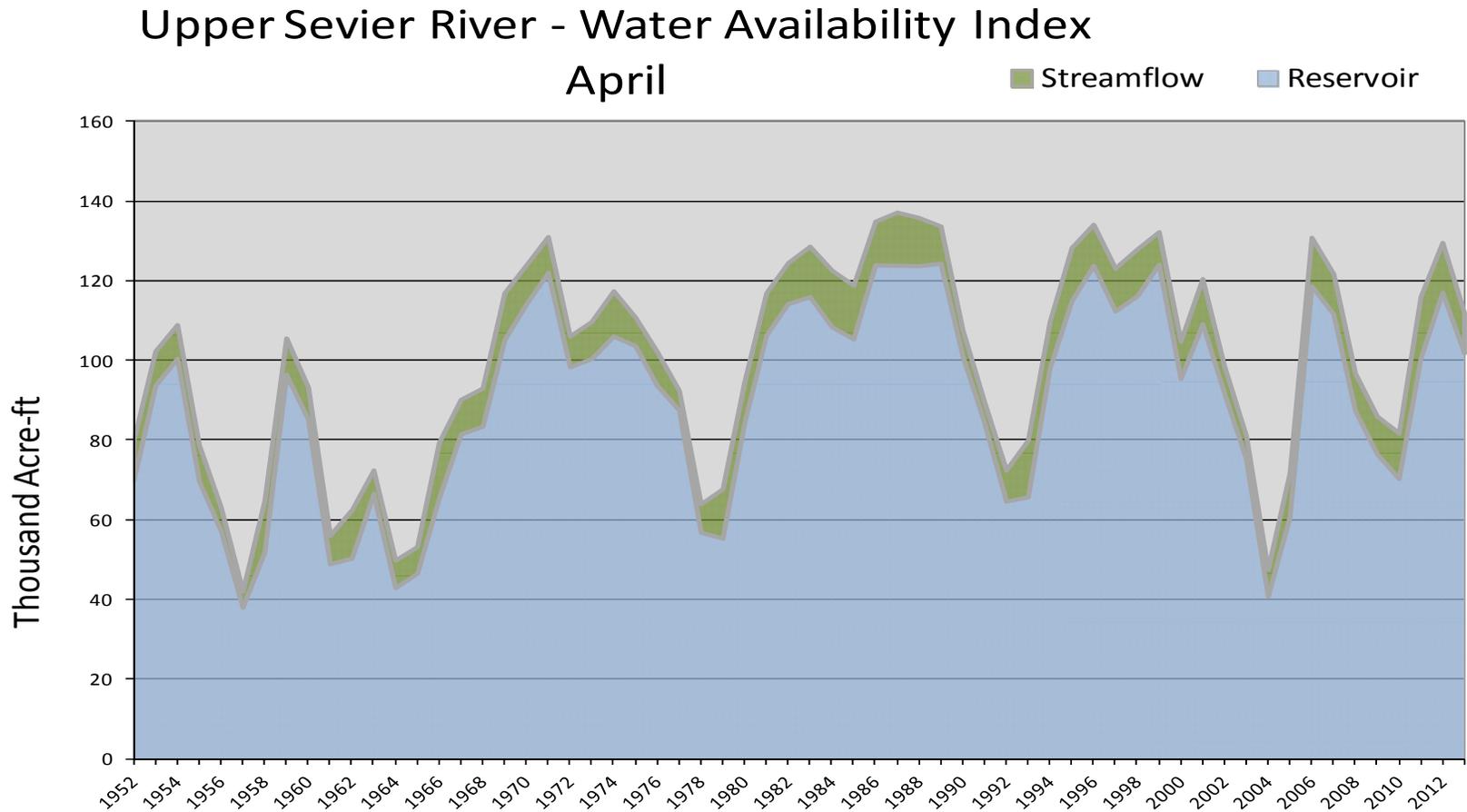


Reservoir Storage



April 1, 2013		Water Availability Index				
Basin or Region	March EOM* Otter Creek and Piute	March accumulated flow at Kingston (<i>observed</i>)	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Upper Sevier River	102.0	10.1	112.1	0.99	62	94, 75, 11, 81

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

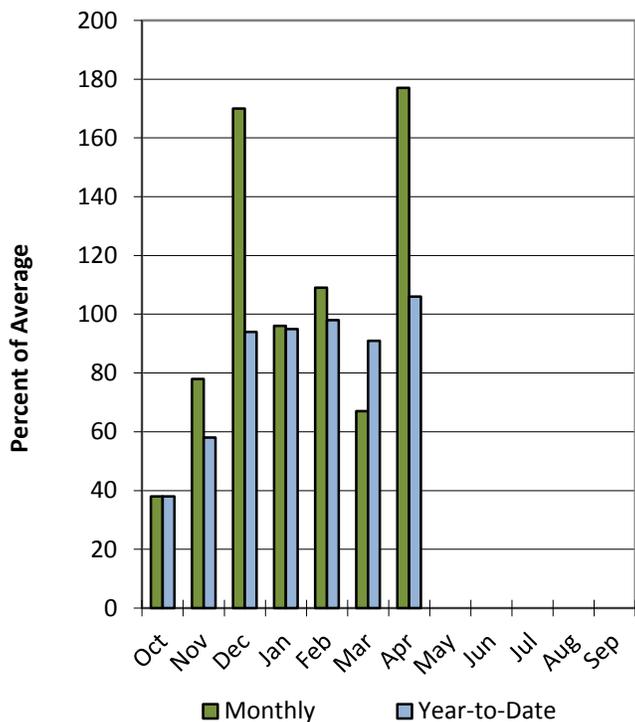


Lower Sevier River Basin

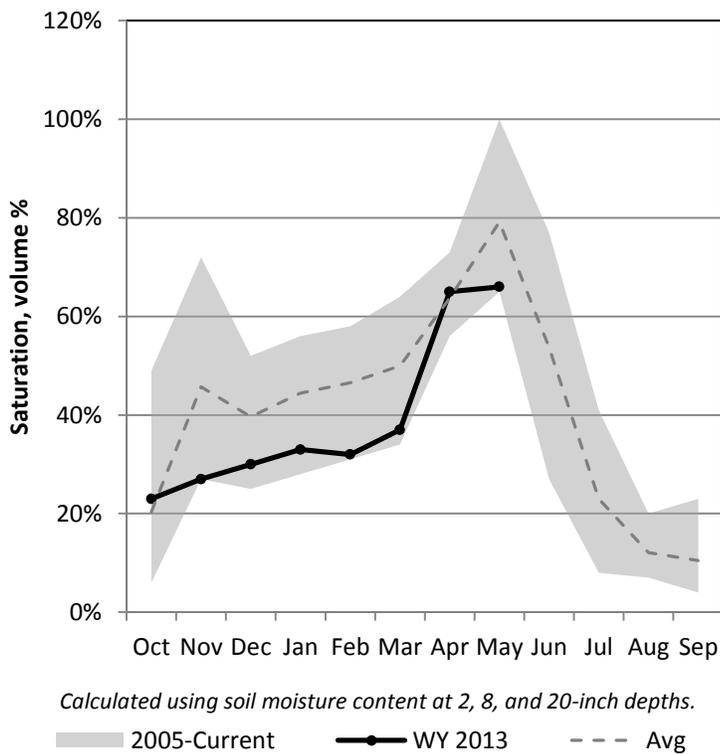
5/1/2013

Precipitation in April was much above average at 177%, which brings the seasonal accumulation (Oct-Apr) to 106% of average. Soil moisture is at 66% compared to 65% last year. Reservoir storage is at 74% of capacity, compared to 97% last year. The water availability index for the Lower Sevier is 45%.

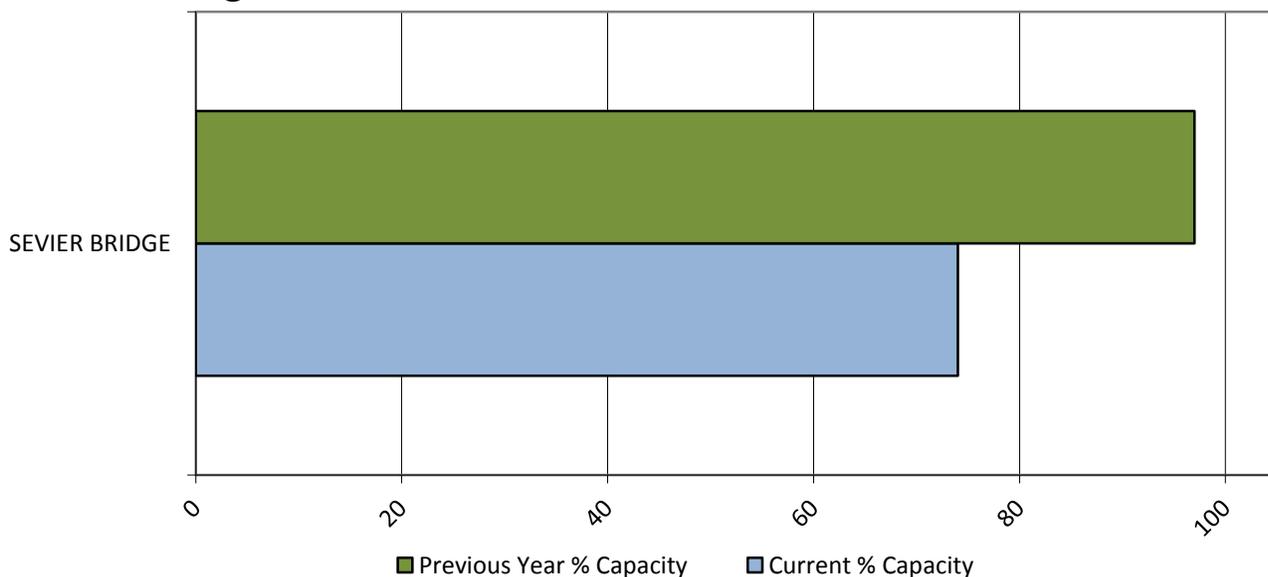
Precipitation



Soil Moisture

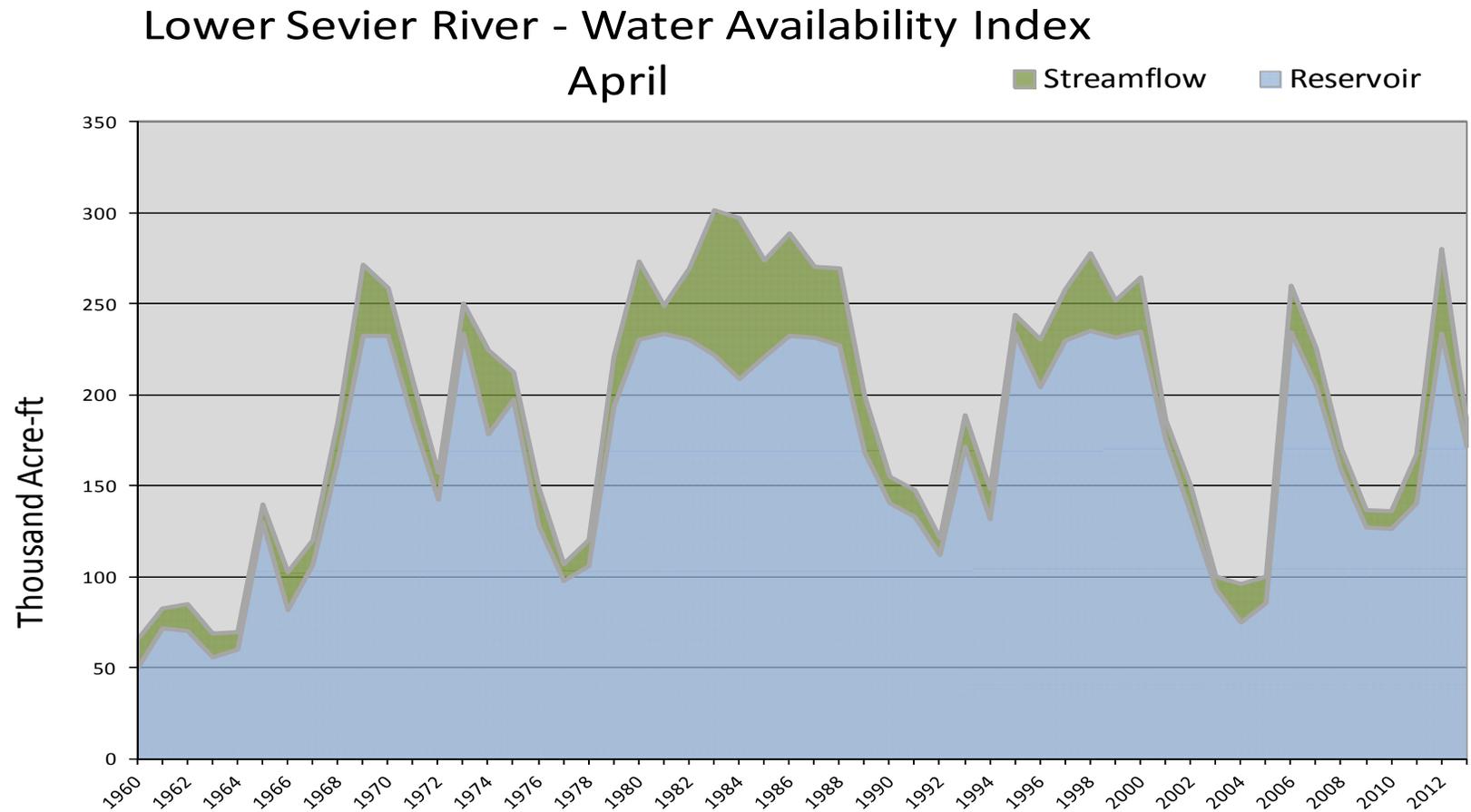


Reservoir Storage



April 1, 2013		Water Availability Index				
Basin or Region	March EOM* Sevier Bridge	March accumulated flow Sevier at Gunnison (<i>observed</i>)	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Lower Sevier River	172.0	13.6	185.6	-0.38	45	11, 08, 68, 01

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

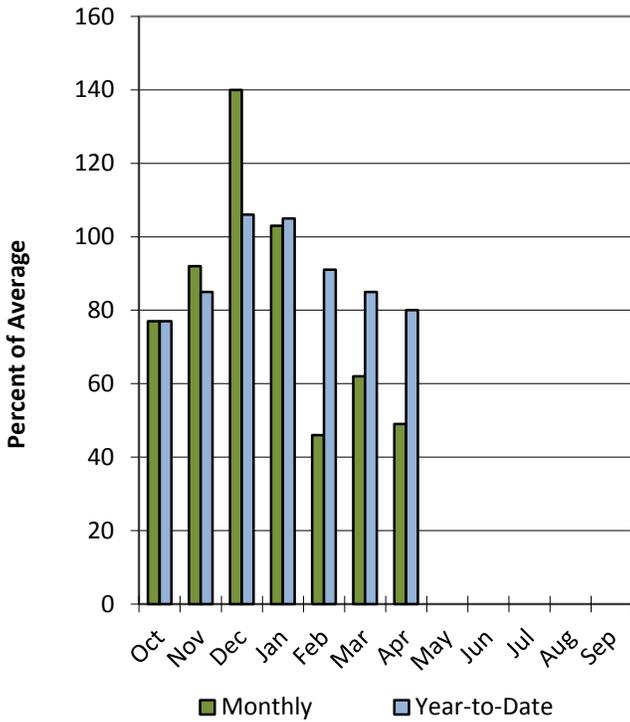


Beaver River Basin

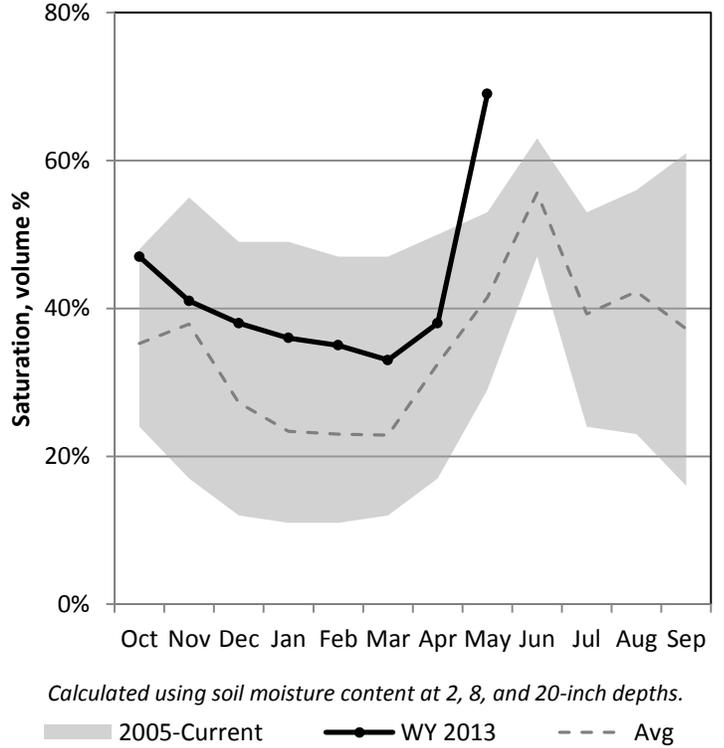
5/1/2013

Precipitation in April was much below average at 49%, which brings the seasonal accumulation (Oct-Apr) to 80% of average. Soil moisture is at 69% compared to 45% last year. Reservoir storage is at 60% of capacity, compared to 103% last year. The water availability index for the Beaver River is 51%.

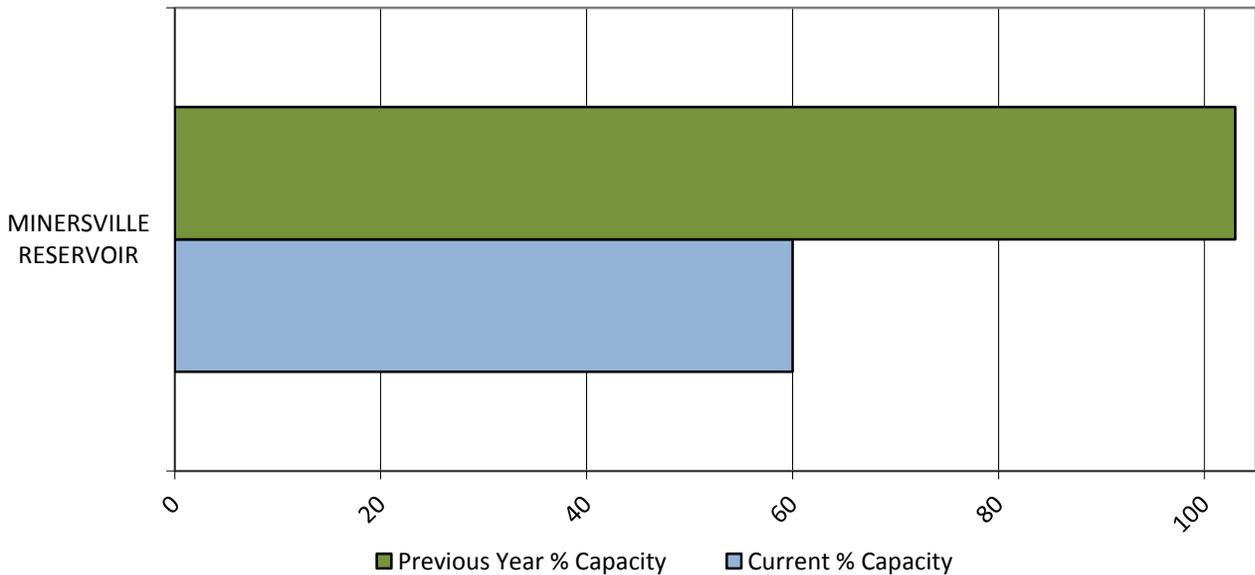
Precipitation



Soil Moisture

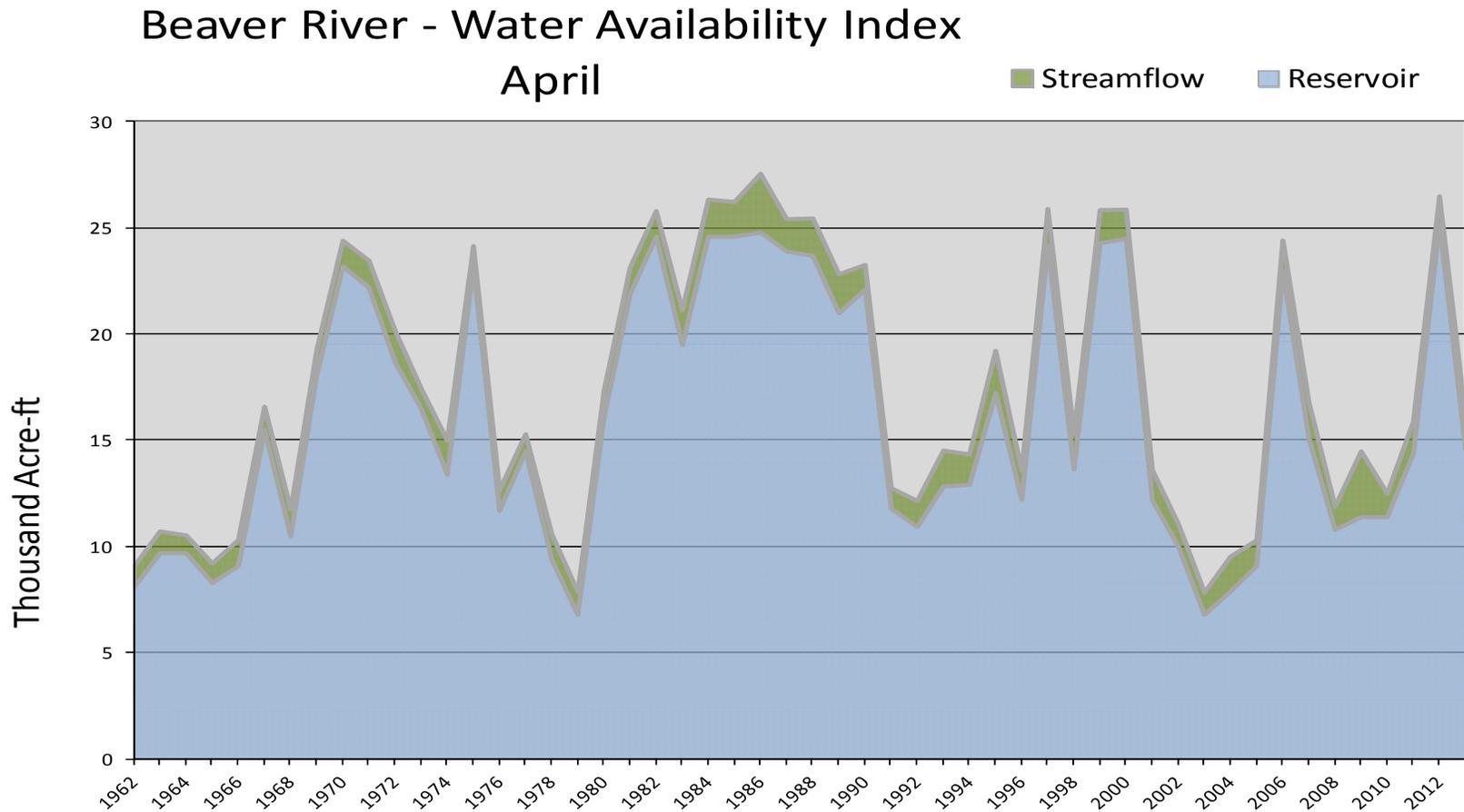


Reservoir Storage



April 1, 2013		Water Availability Index				
Basin or Region	March EOM* Minersville Reservoir	March accumulated flow Beaver River at Beaver (<i>observed</i>)	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Beaver	14.6	1.5	16.1	0.08	51	98,11,67,07

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

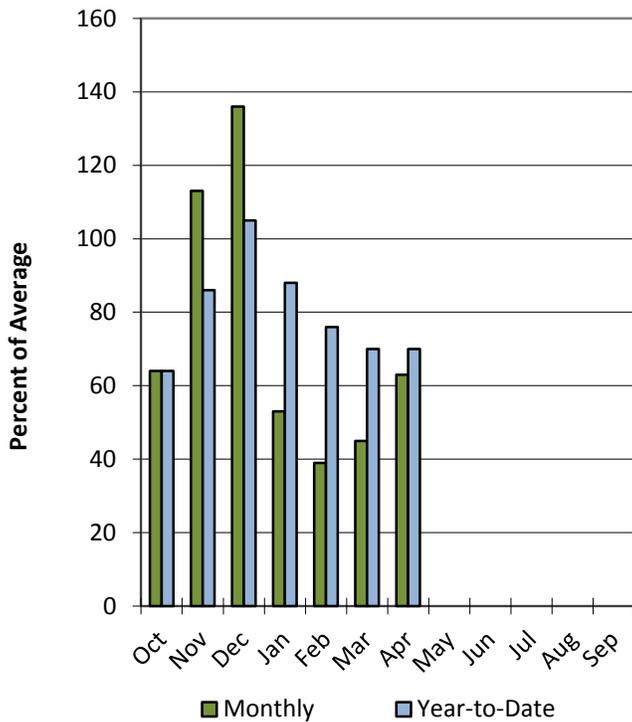


Southwestern Utah Basin

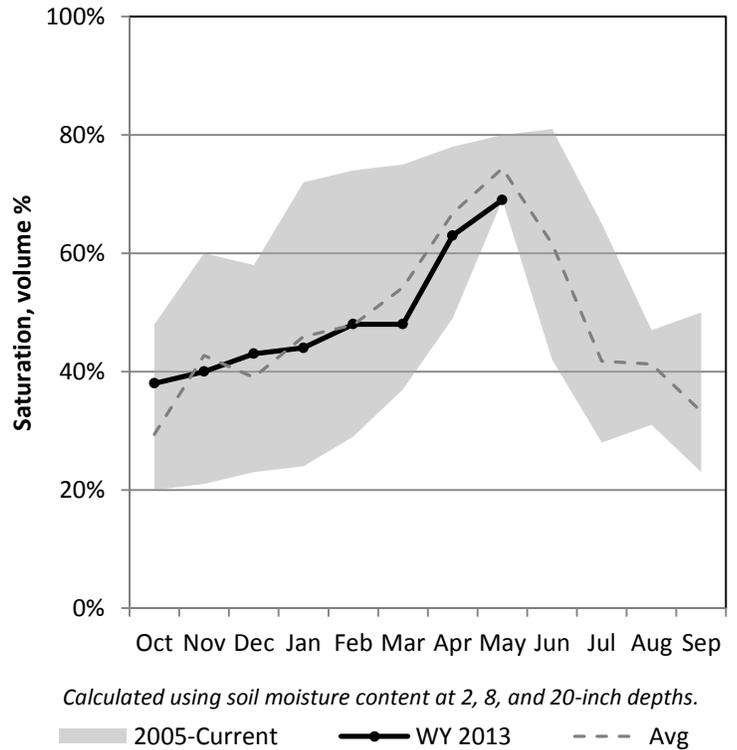
5/1/2013

Precipitation in April was much below average at 63%, which brings the seasonal accumulation (Oct-Apr) to 70% of average. Soil moisture is at 69% compared to 72% last year. Reservoir storage is at 47% of capacity, compared to 64% last year. The water availability index for the Virgin River is 12%.

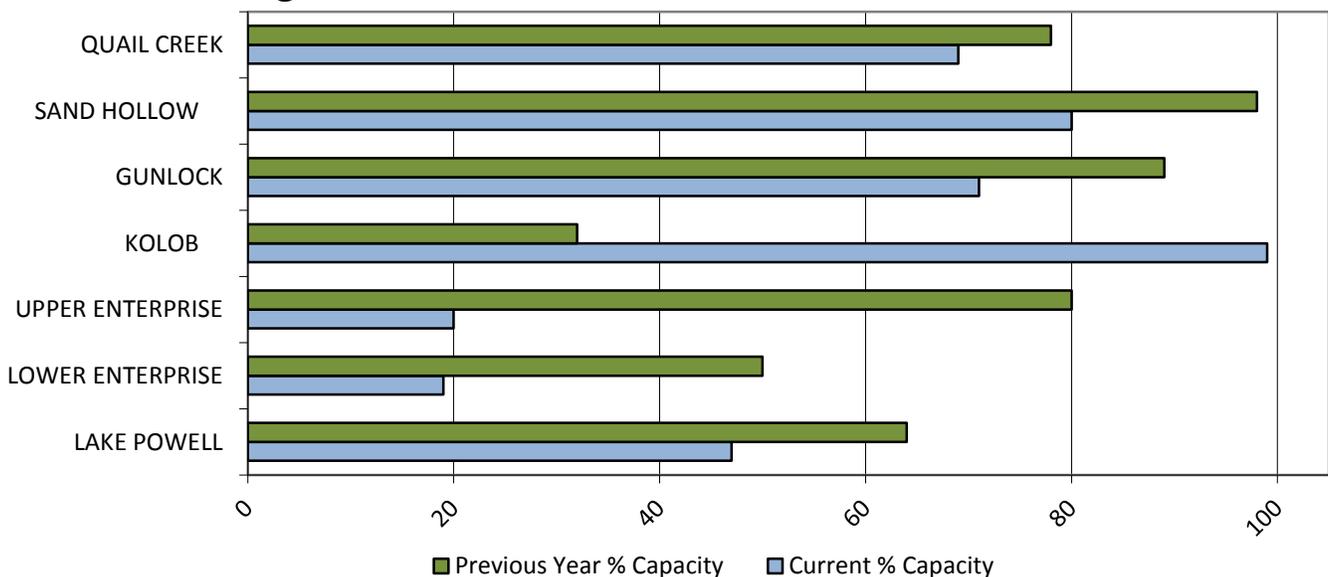
Precipitation



Soil Moisture



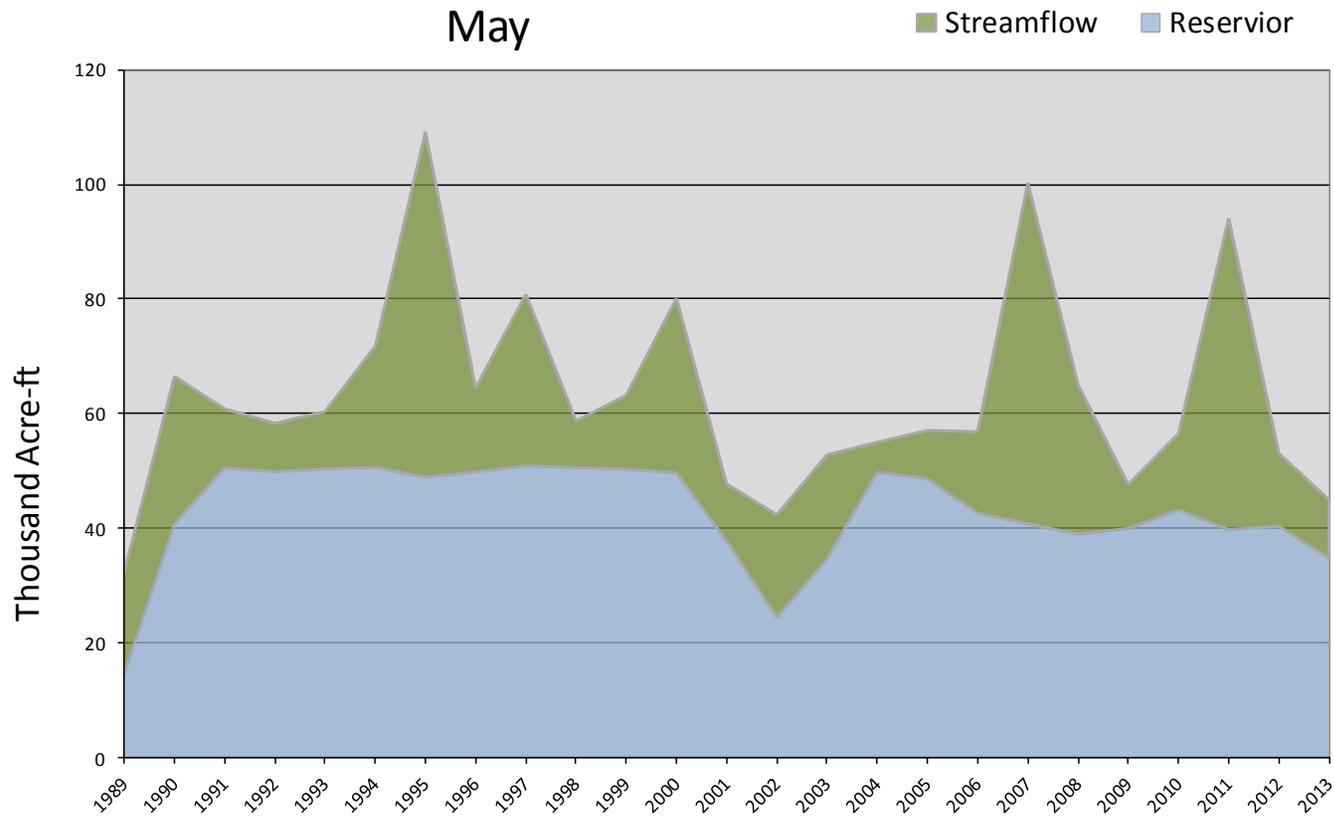
Reservoir Storage



5/1/2013		Water Availability Index				
Basin or Region	April EOM* Reservoir	April accumulated flow Virgin and Santa Clara Rivers (<i>observed</i>)	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Virgin River	34.8	10.2	45.0	-0.96	38	95,05,06,07

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

Southwest - Water Availability Index



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**Utah Climate and
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