

Utah Climate and Water Report

October, 2013



Cedar Breaks National Monument

Photo by Beau Uriona, NRCS

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.

Report Content

1) Climate and Water Information – Soil Climate Analysis Network

- a) North Central
- b) Northern Mountains
- c) Uintah Basin
- d) Southeast
- e) South Central
- f) Western and Dixie

2) General Hydrological Conditions

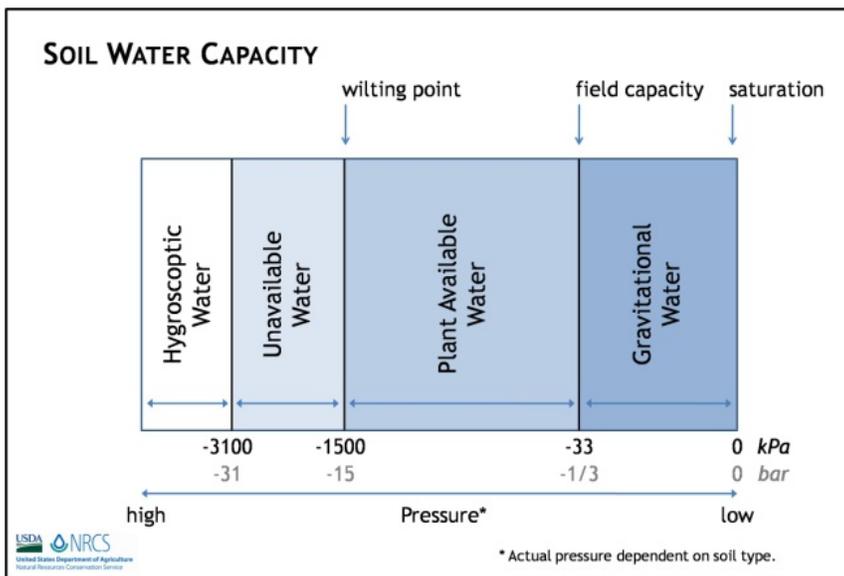
- a) SNOTEL Current Snow Water Equivalent (SWE) % of Normal
- b) SNOTEL Water Year to Date Precipitation
- c) Bear River Basin
 - Water Availability Index
- d) Weber and Ogden River Basins
 - Water Availability Index
- e) Utah Lake, Jordan River, and Tooele Valley Basins
 - Water Availability Index
- f) Uintah Basin
 - Water Availability Index
- g) Southeast River Basins
 - Water Availability Index
- h) Sevier and Beaver River Basins
 - Water Availability Index
- i) E. Garfield, Kane, Washington, and Iron Co.
 - Water Availability Index

Climate and Water Information

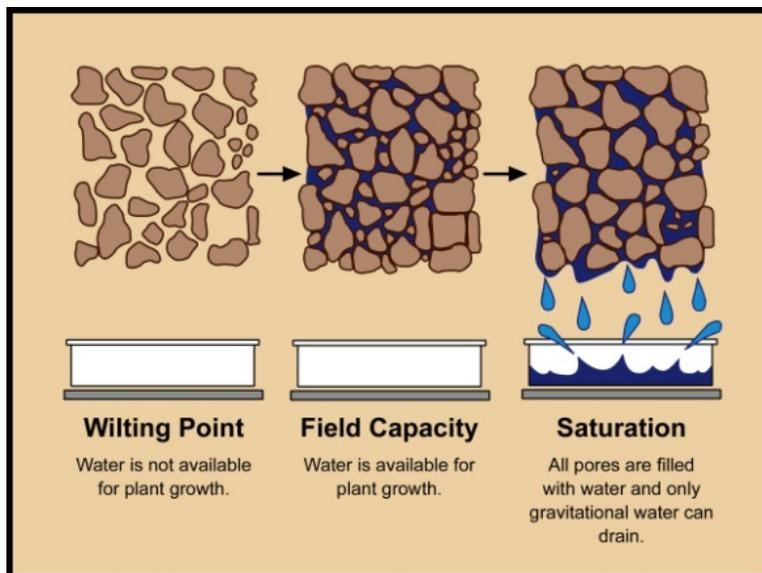
Soil Climate Analysis Network

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.

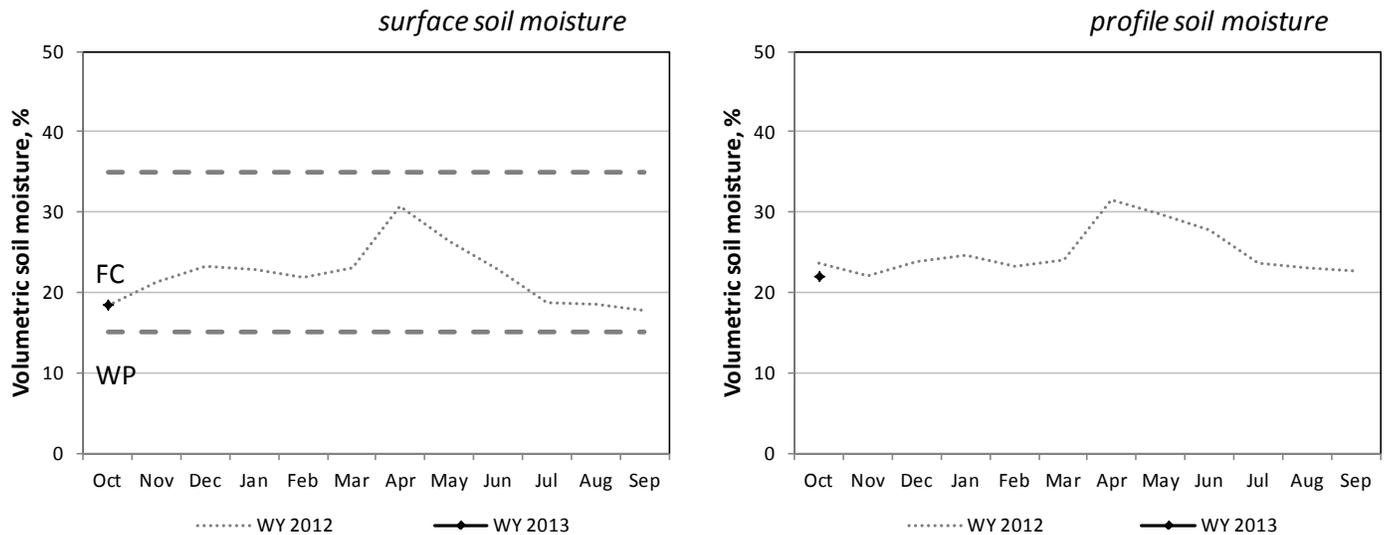
North Central

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	9.9	1.8	15	14	19	23	18	55	58	59	59	62
Cache Junction	12.1	1.4	17	16	25	26	25	55	57	57	58	60
Grantsville	10.4	1.6	4	18	25	28		56	61	63	64	

* 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.

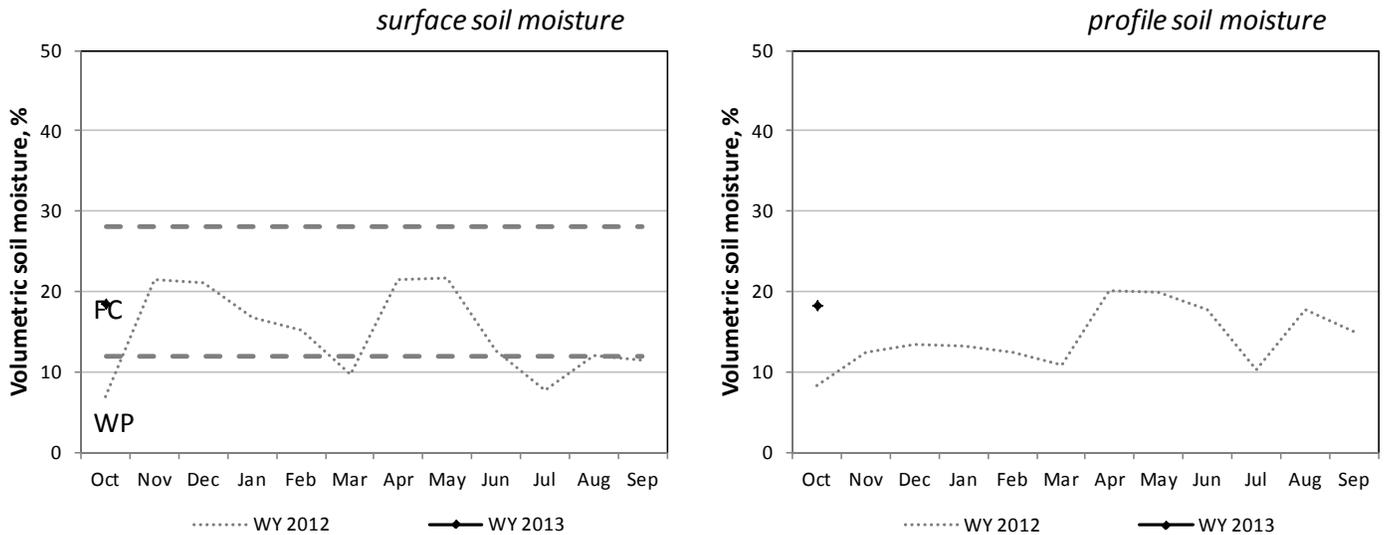
Northern Mountains

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	12.1	2.8	12	15	18	10	11	48	50	50	49	51
Buffalo Jump	10.5	3.0	12	15	16	8	-	51	52	52	52	-
Morgan	15.9	1.9	24	22	26	19	37	59	59	60	57	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.

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.

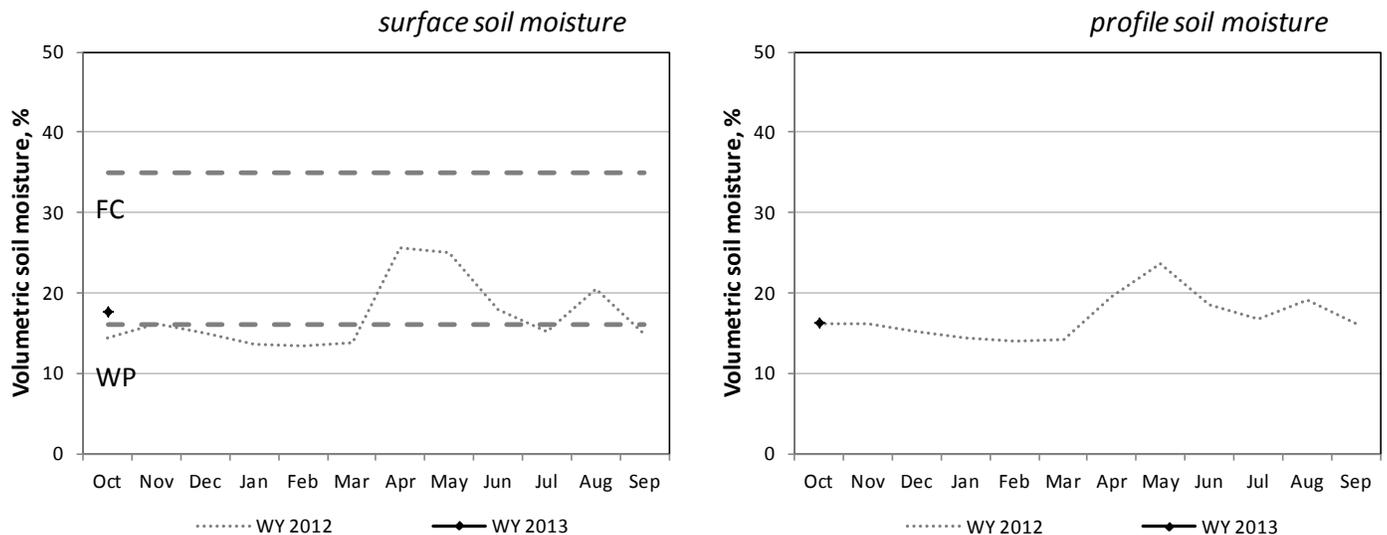
Uintah Basin

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>volume %</i>					<i>°F</i>				
UINTAH BASIN												
Mountain Home	7.0	0.1	16	22	25	18	11	50	51	51	52	54
Little Red Fox	8.9	1.8	9	18	19	21	19	51	58	59	57	59
Split Mountain	7.5	2.0	14	25	11	14	13	55	59	61	61	64

* 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.

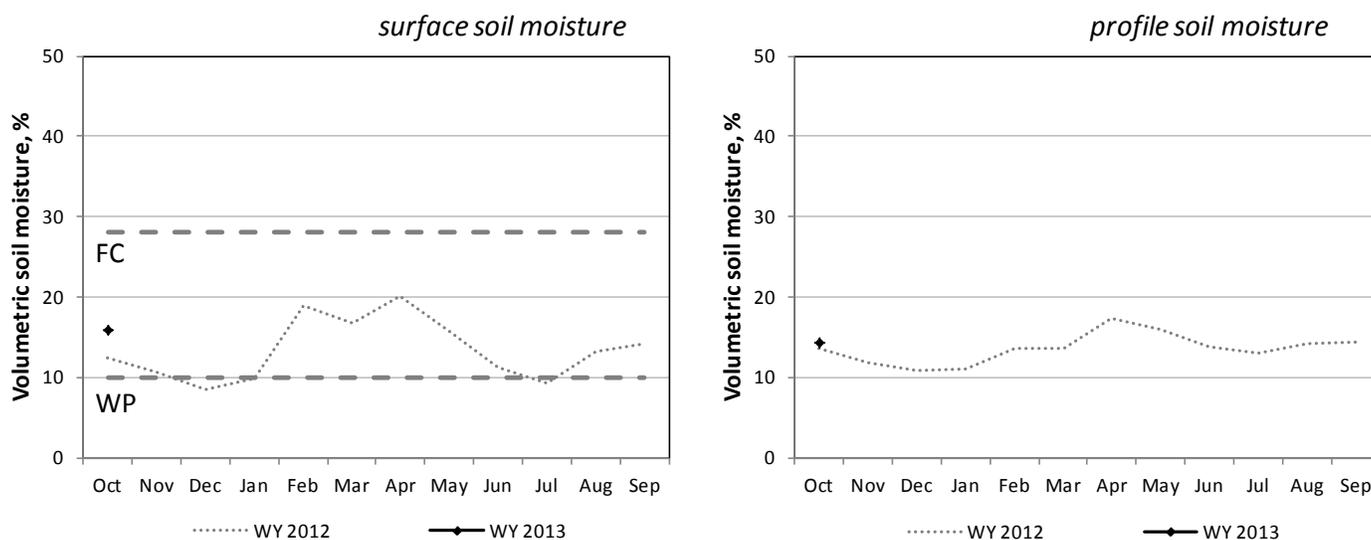
Southeast

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"
			in.					in.				
			volume %					°F				
SOUTHEAST												
Price	9.5	2.7	2	19	23	15	19	56	60	62	61	63
Green River	5.7	2.0	8	10	10	5	9	56	59	62	64	68
Harm's Way	12.1	2.7	11	0	22	14	7	59	55	58	57	60
West Summit	10.7	3.2	19	25	26	15	17	49	52	55	54	58
Eastland	10.4	3.1	21	18	21	23	21	52	55	56	57	60
Alkali Mesa	8.6	0.4	10	12	16	19	14	57	55	60	62	64
McCracken Mesa	8.6	1.6	16	22	17	17	14	60	65	66	65	68

* 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.

Southeast



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.

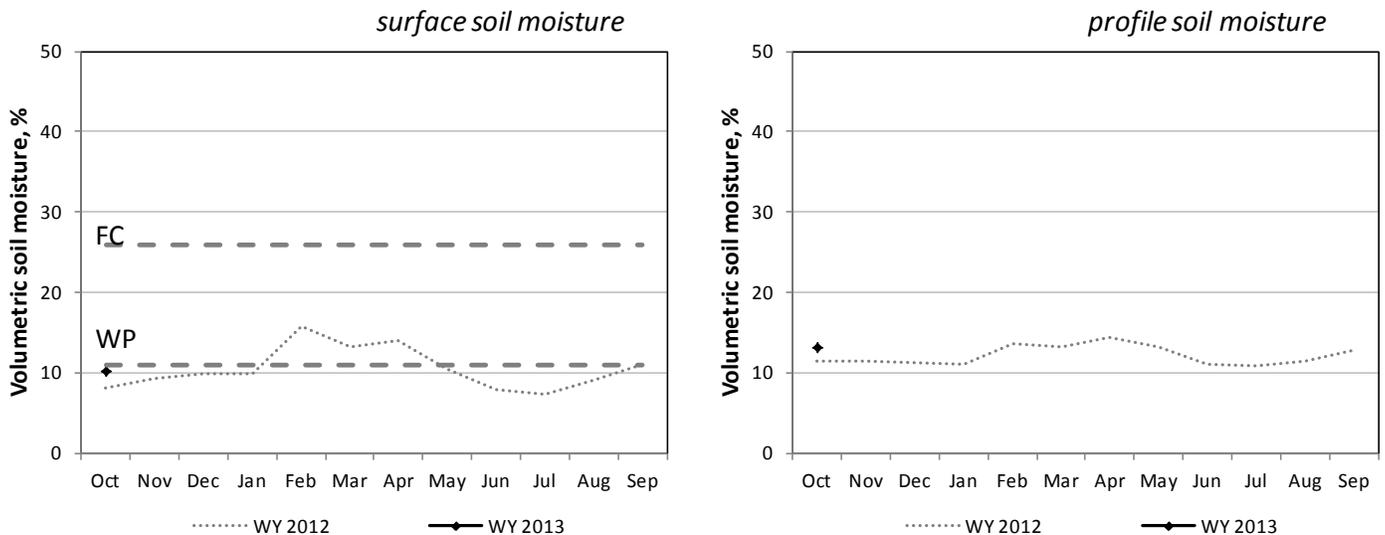
South Central

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	9.5	1.3	16	18	14	7	5	57	58	59	60	63
Ephraim	10.4	1.7	10	11	17	16	35	53	56	57	57	60
Holden	8.5	1.4	6	9	4	12	14	58	60	61	62	66
Milford	7.5	0.8	10	15	15	29	18	63	65	64	64	66
Manderfield	12.6	1.5	1	13	13	11	5	51	57	57	57	59
Circleville	7.9	2.3	26	9	11	9	23	58	61		60	61
Panguitch	10.7	3.2	10	20	16	21	30	47	48	48	51	55
Cave Valley	18.0	2.5		1	4	5	7	48	56	59	60	60
Vermillion	11.2	3.0	0	5	6	11	8	51	54	58	57	59
Spooky	9.2	3.2	3	4	6	21	2	66	64	66	65	67

* 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.

South 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.

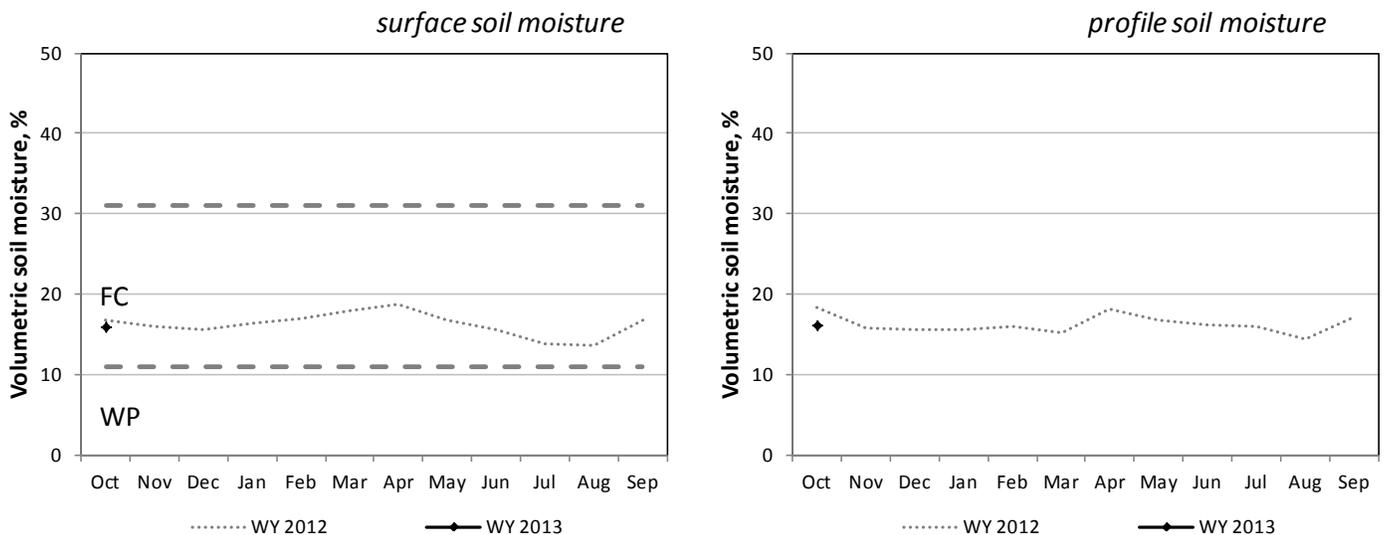
Western and Dixie

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	9.8	2.1	4	12	11	15	16	51	54	57	56	59
Park Valley	10.1	1.7	0	5	11	16	24	53	58	60	61	63
Goshute			13	0	53	41	35	52	57	60	59	62
Dugway	9.3	1.8	30	34	38		13	60	63	64	63	63
Tule Valley	6.6	1.1	14	13	25	16	11	61	68	72	69	70
Hal's Canyon	6.5	2.0	5	9	12	11	10	58	61	64	62	65
Enterprise	9.5	1.3	5	22	22	14	15	58	63	63	63	65
DIXIE												
Sand Hollow	9.5	1.9	1	0	1	3	1	64	69	71	70	73

* 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.

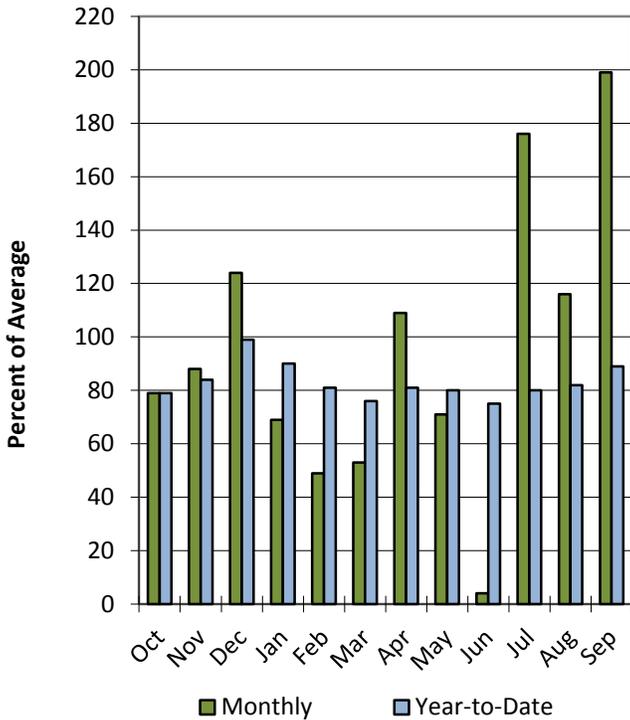
Additional data available at the SCAN website, including: hourly air temperature, relative humidity, wind speed, wind direction, barometric pressure, precipitation, solar radiation, soil temperature, and soil moisture.

Statewide Utah

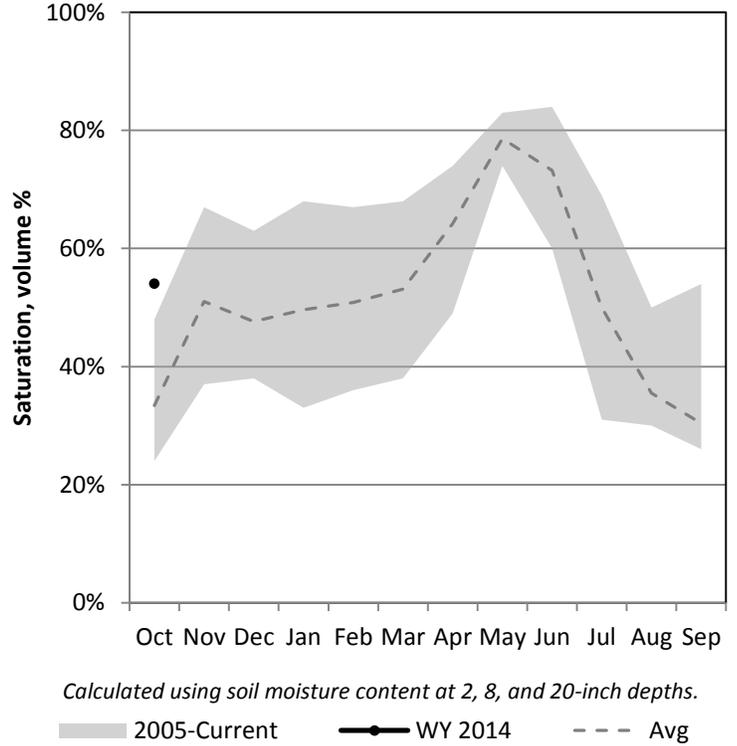
10/1/2013

Precipitation in September was much above average at 199%, which brings the seasonal accumulation (Oct-Sep) to 89% of average. Soil moisture is at 54% compared to 32% last year. Reservoir storage is at 65% of capacity, compared to 86% last year.

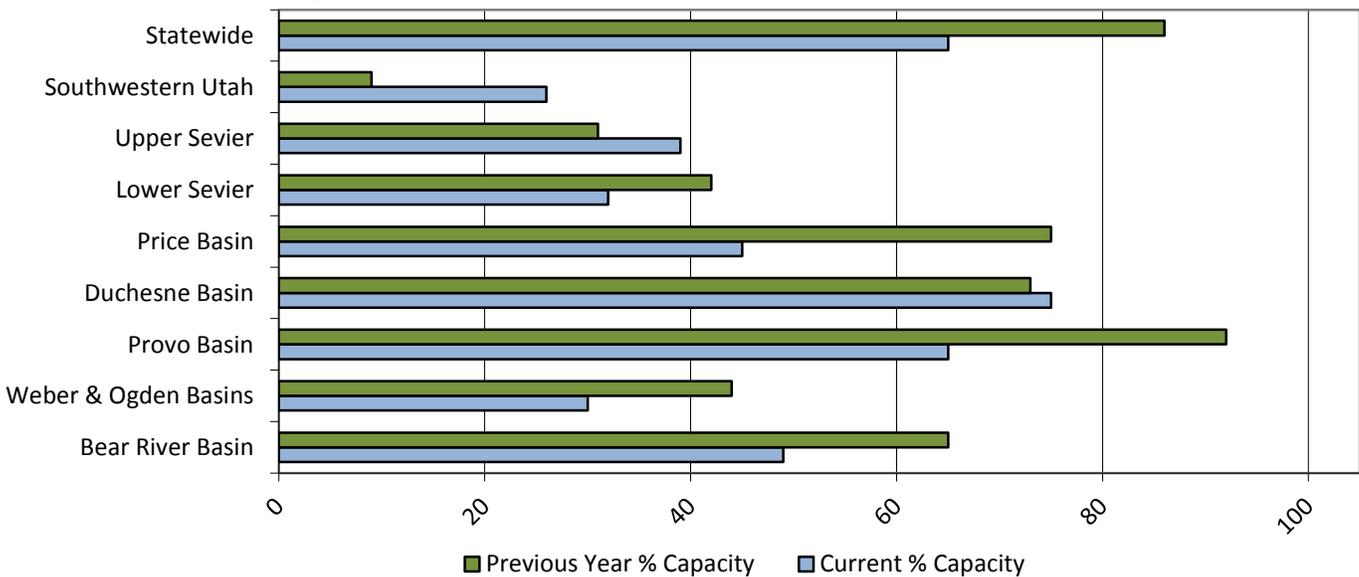
Precipitation



Soil Moisture



Reservoir Storage

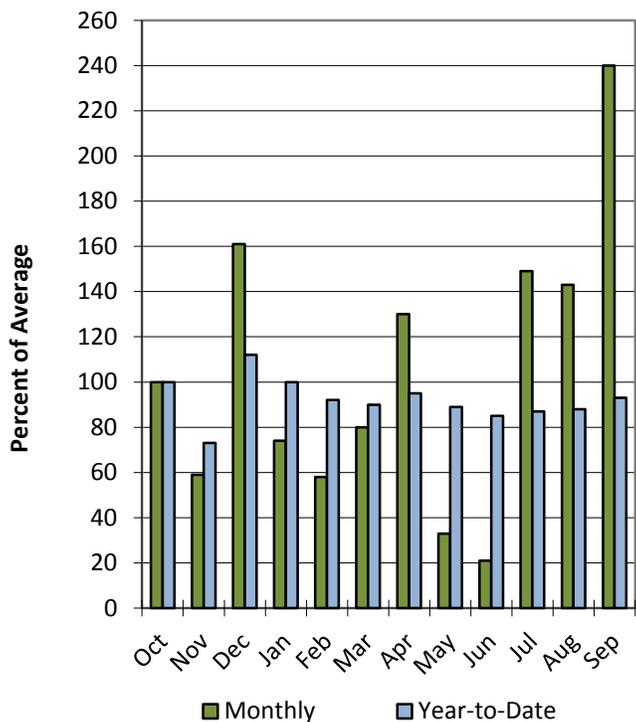


Raft River Basin

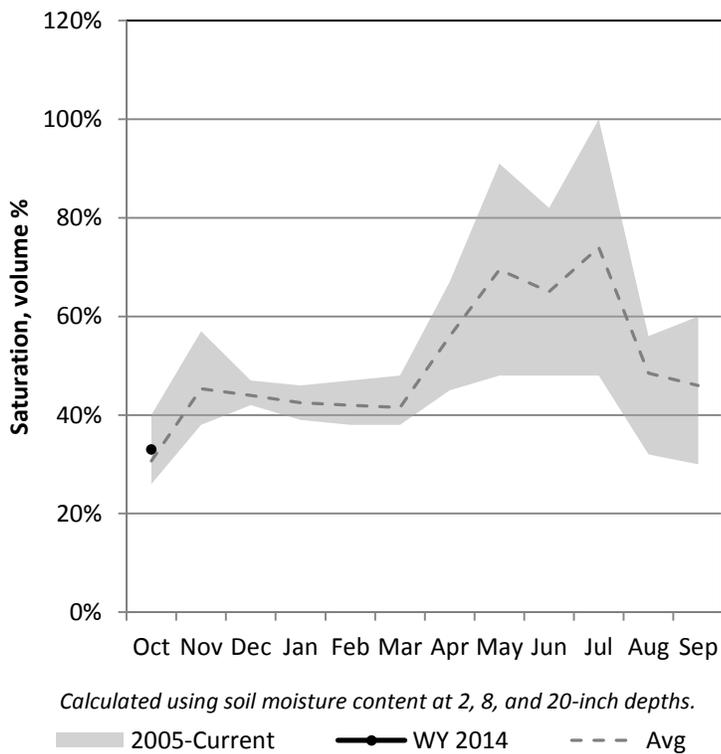
10/1/2013

Precipitation in September was much above average at 240%, which brings the seasonal accumulation (Oct-Sep) to 93% of average. Soil moisture is at 33% compared to 26% last year.

Precipitation



Soil Moisture

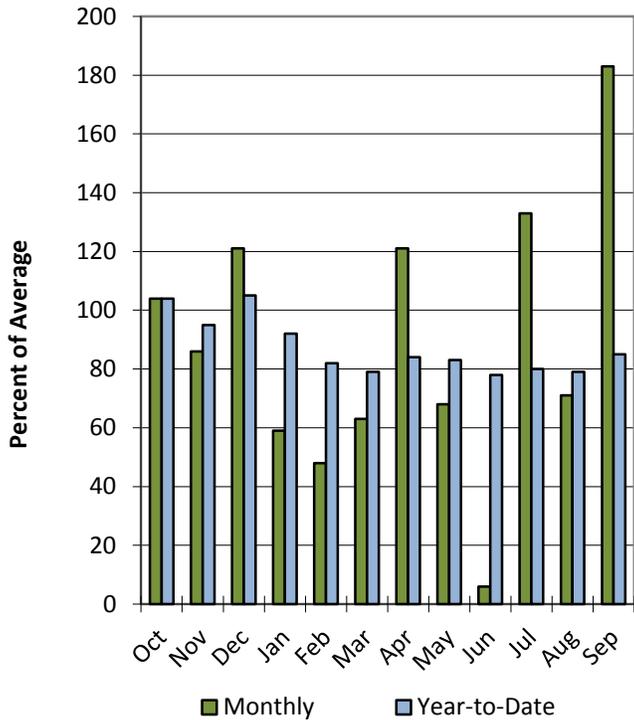


Bear River Basin

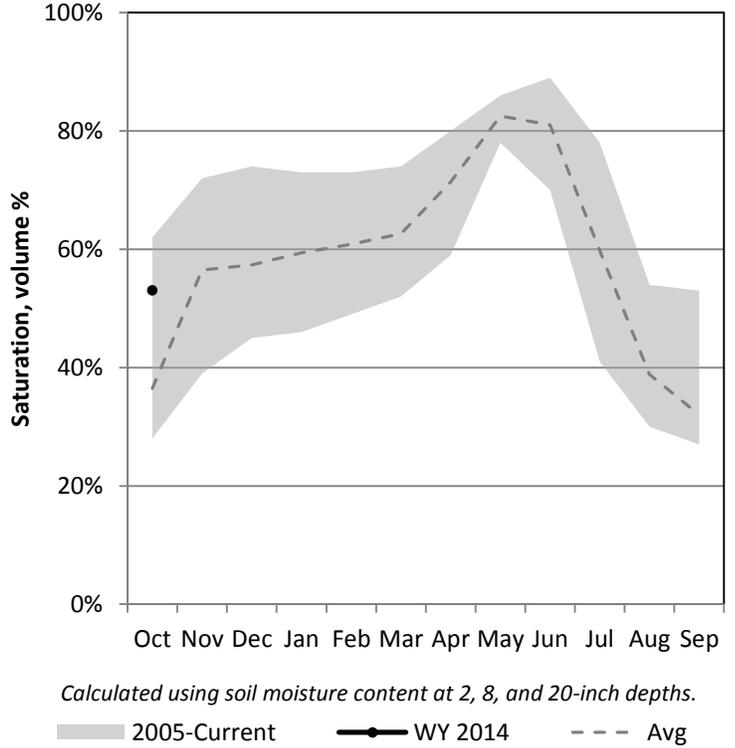
10/1/2013

Precipitation in September was much above average at 183%, which brings the seasonal accumulation (Oct-Sep) to 85% of average. Soil moisture is at 53% compared to 33% last year. Reservoir storage is at 49% of capacity, compared to 65% last year. The water availability index for the Bear River is 36%.

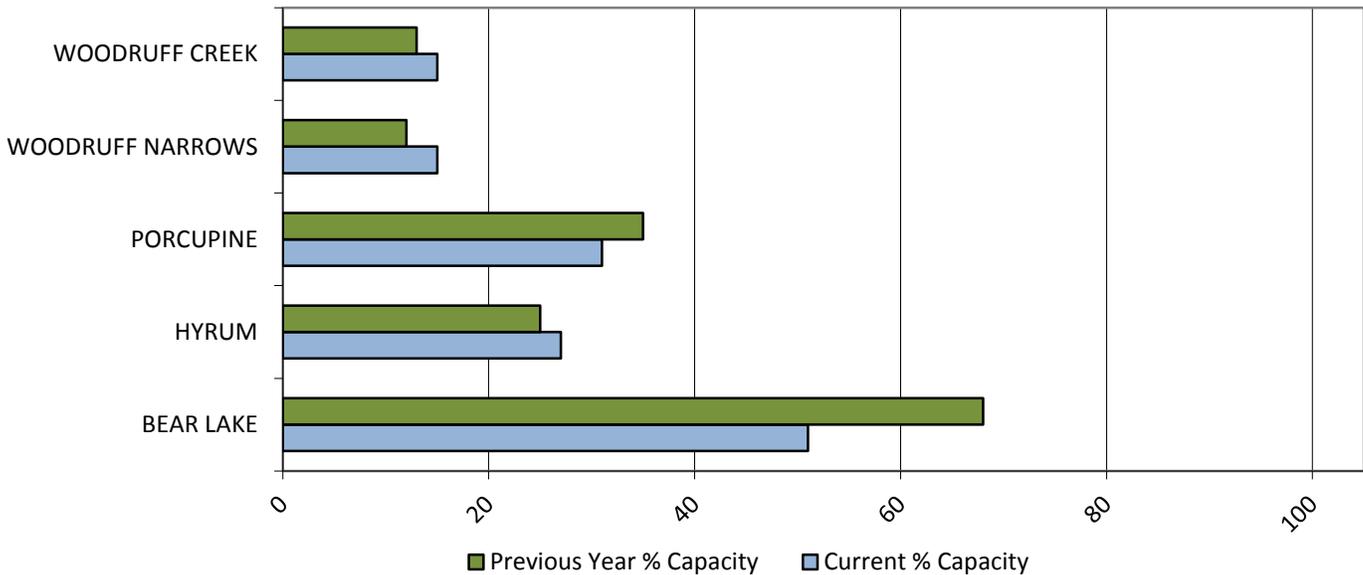
Precipitation



Soil Moisture



Reservoir Storage



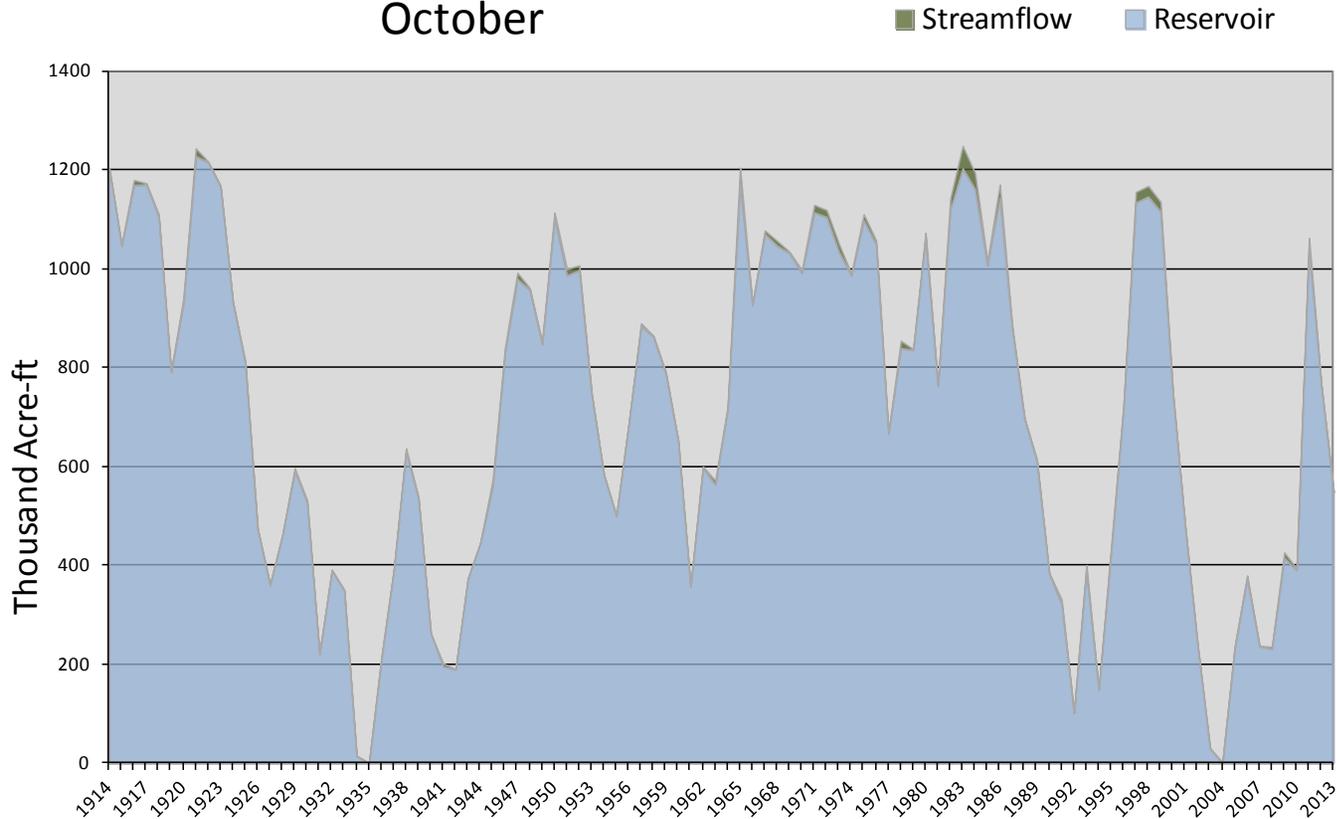
October 1, 2013

Water Availability Index

Basin or Region	September EOM* Bear Lake	September accumulated inflow to Bear Lake (<i>observed</i>)	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Bear River	548	1.2	549	-1.20	36	30, 39, 63, 45

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

Bear Lake - Water Availability Index October



October 1, 2013

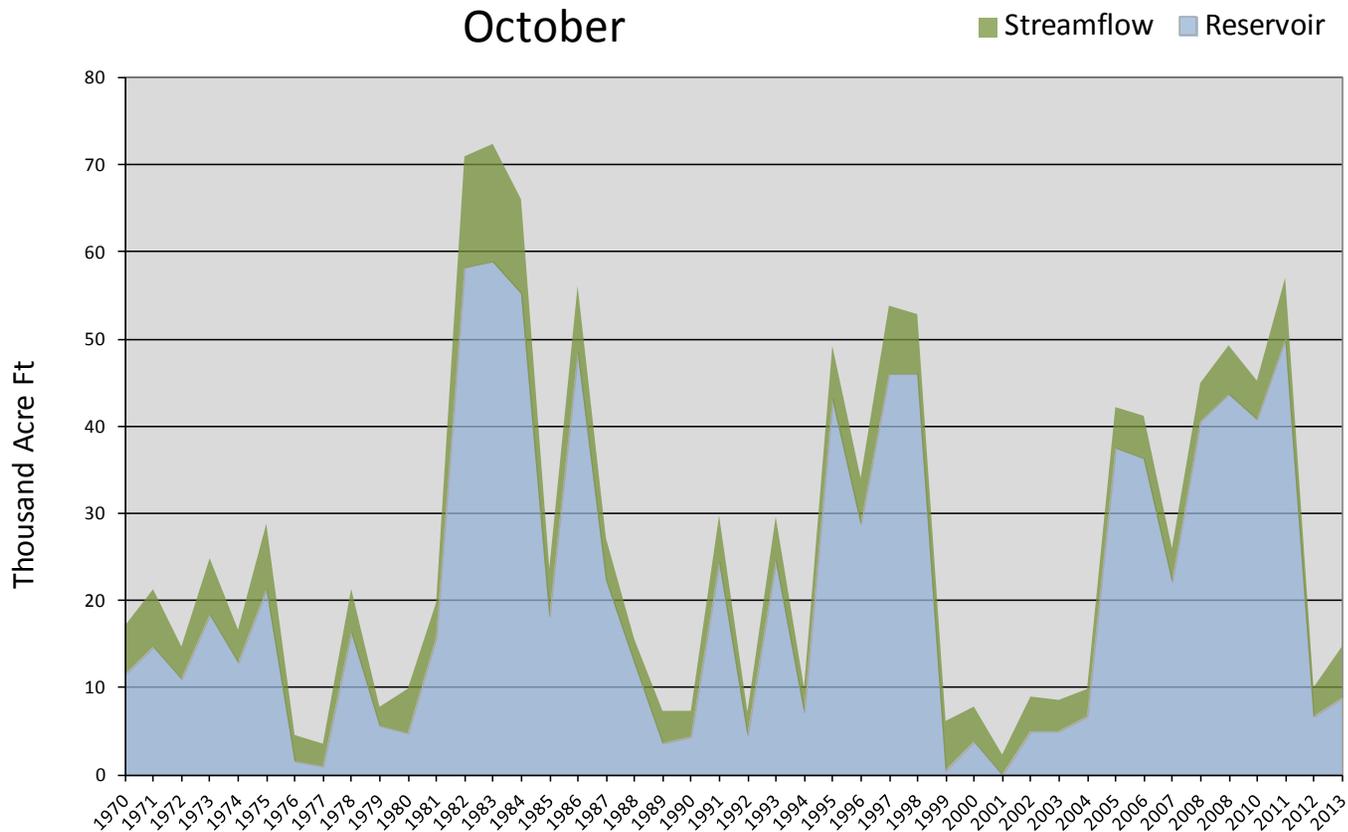
Water Availability Index

Basin or Region	Sept EOM* Woodruff Narrows Reservoir <i>KAF^</i>	September Observed Streamflow Bear at Stateline <i>KAF</i>	Reservoir + Streamflow <i>KAF</i>	WAI#	Percentile %	Years with similar WAI
Woodruff Narrows	8.8	5.9	14.7	-1.20	36	94, 12, 72, 88

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

Woodruff Narrows - Water Availability Index

October



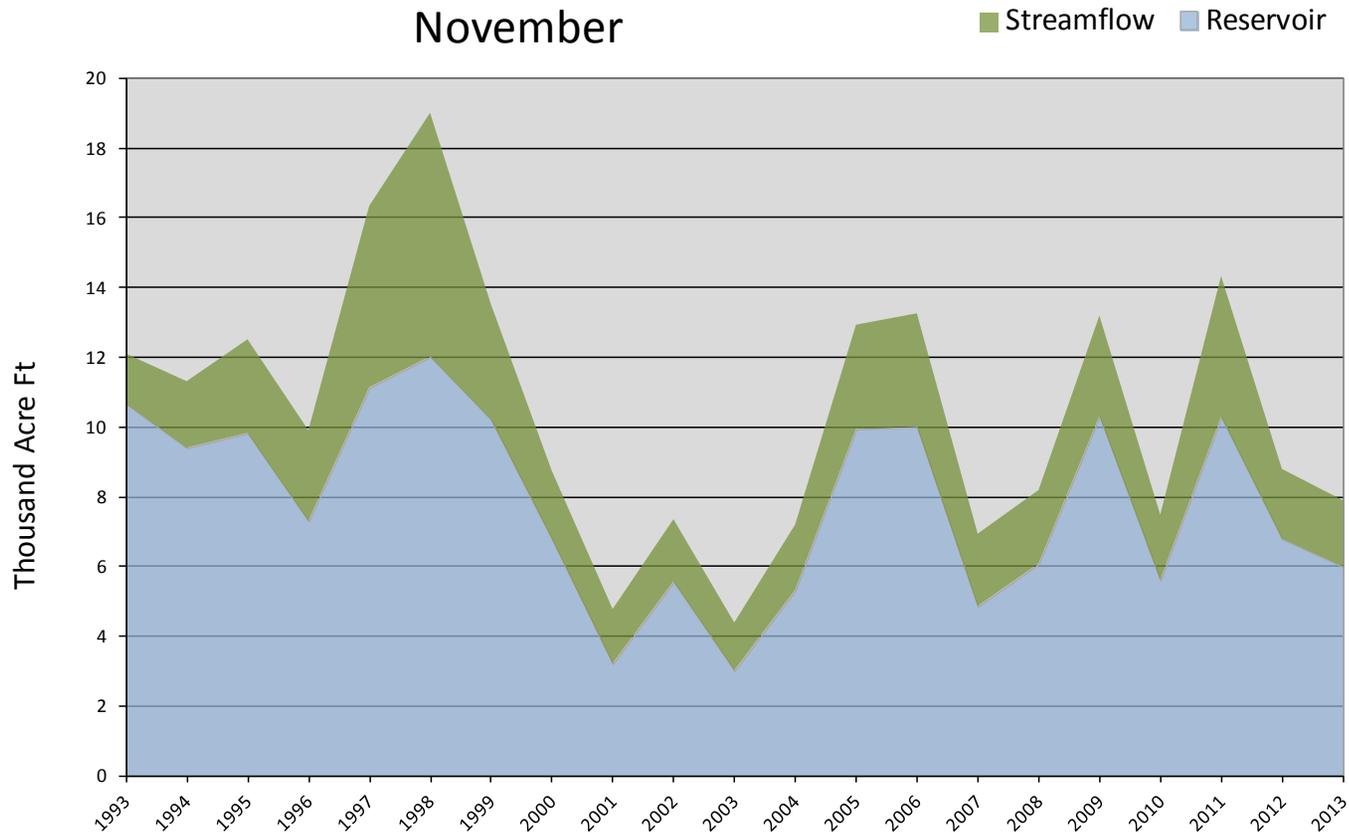
October 1, 2013

Water Availability Index

Basin or Region	Sept EOM*	September	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	Hyrum Reservoir	Observed Streamflow Little Bear nr Paradise				
	KAF [^]	KAF	KAF		%	
Little Bear	4.1	1.4	5.5	-1.52	32	04, 12, 05, 00

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

Little Bear River - Water Availability Index
November

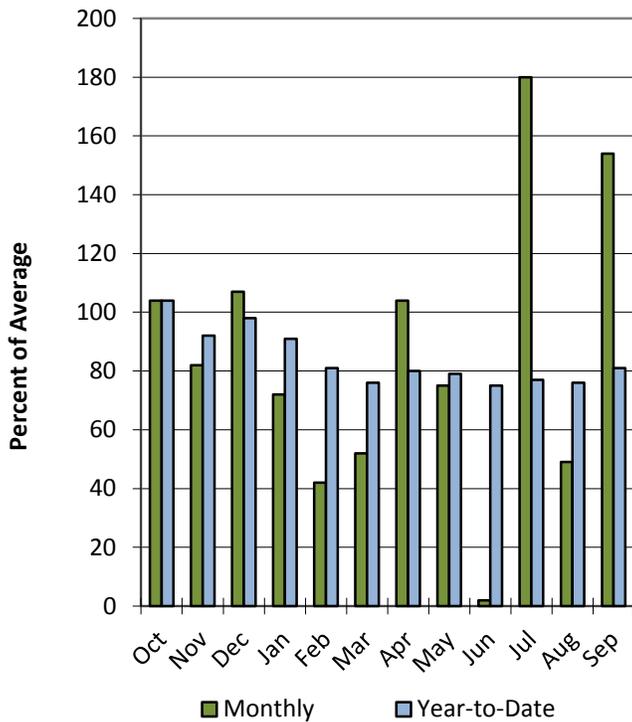


Weber & Ogden River Basins

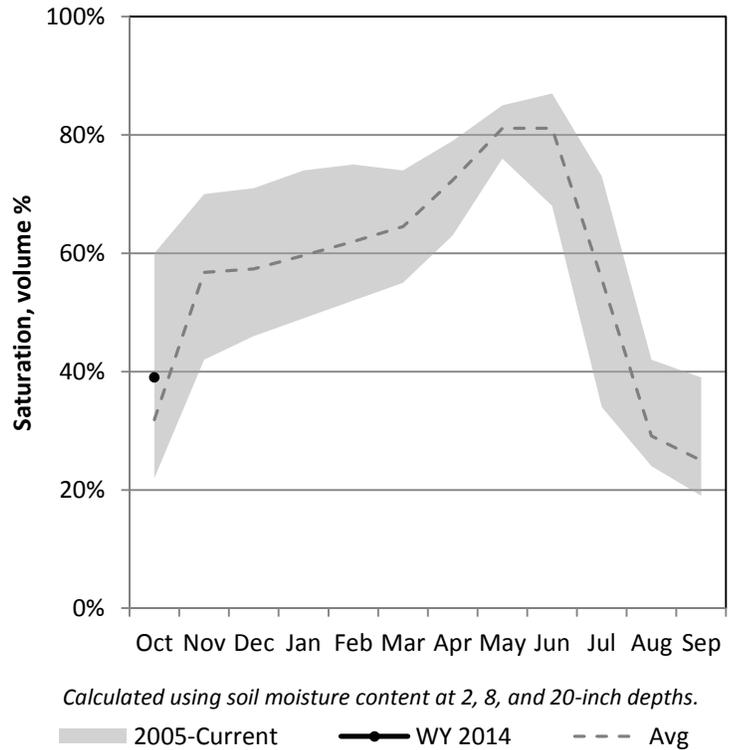
10/1/2013

Precipitation in September was much above average at 154%, which brings the seasonal accumulation (Oct-Sep) to 81% of average. Soil moisture is at 39% compared to 28% last year. Reservoir storage is at 30% of capacity, compared to 44% last year. The water availability index for the Ogden River is 36% and 32% for the Weber River.

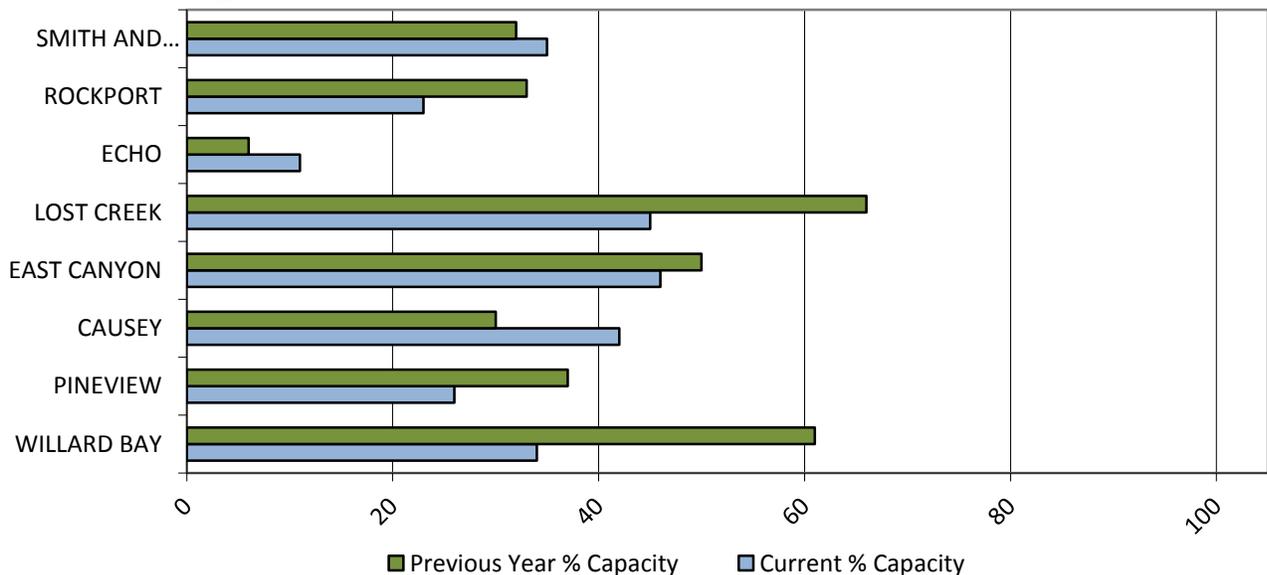
Precipitation



Soil Moisture



Reservoir Storage



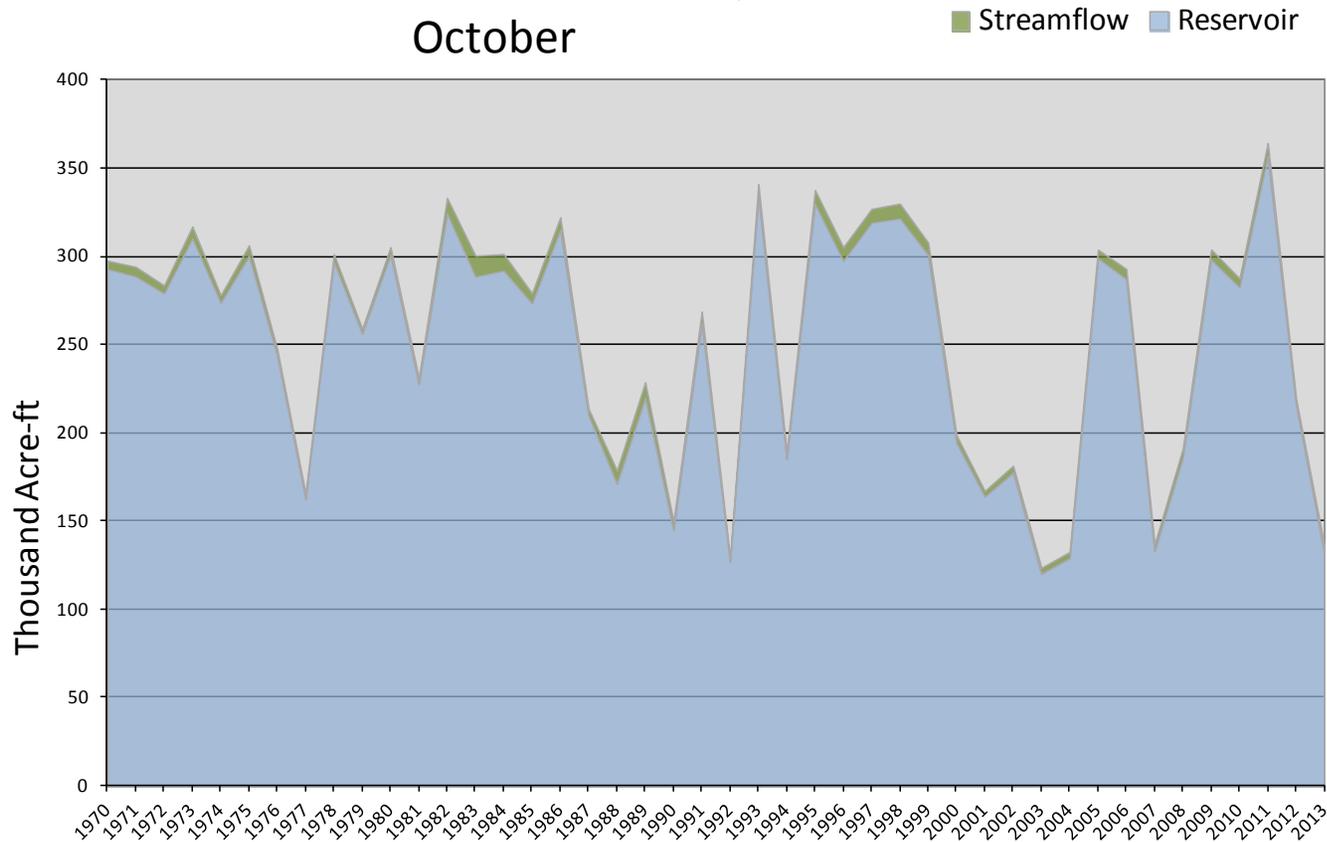
October 1, 2013

Water Availability Index

Basin or Region	September EOM* Reservoirs	September accumulated flow at Weber near Oakley (observed)	Reservoirs + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Weber River	132	4	136	-3.43	9	92, 04, 07, 90

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

Weber River - Water Availability Index October



October 1, 2013

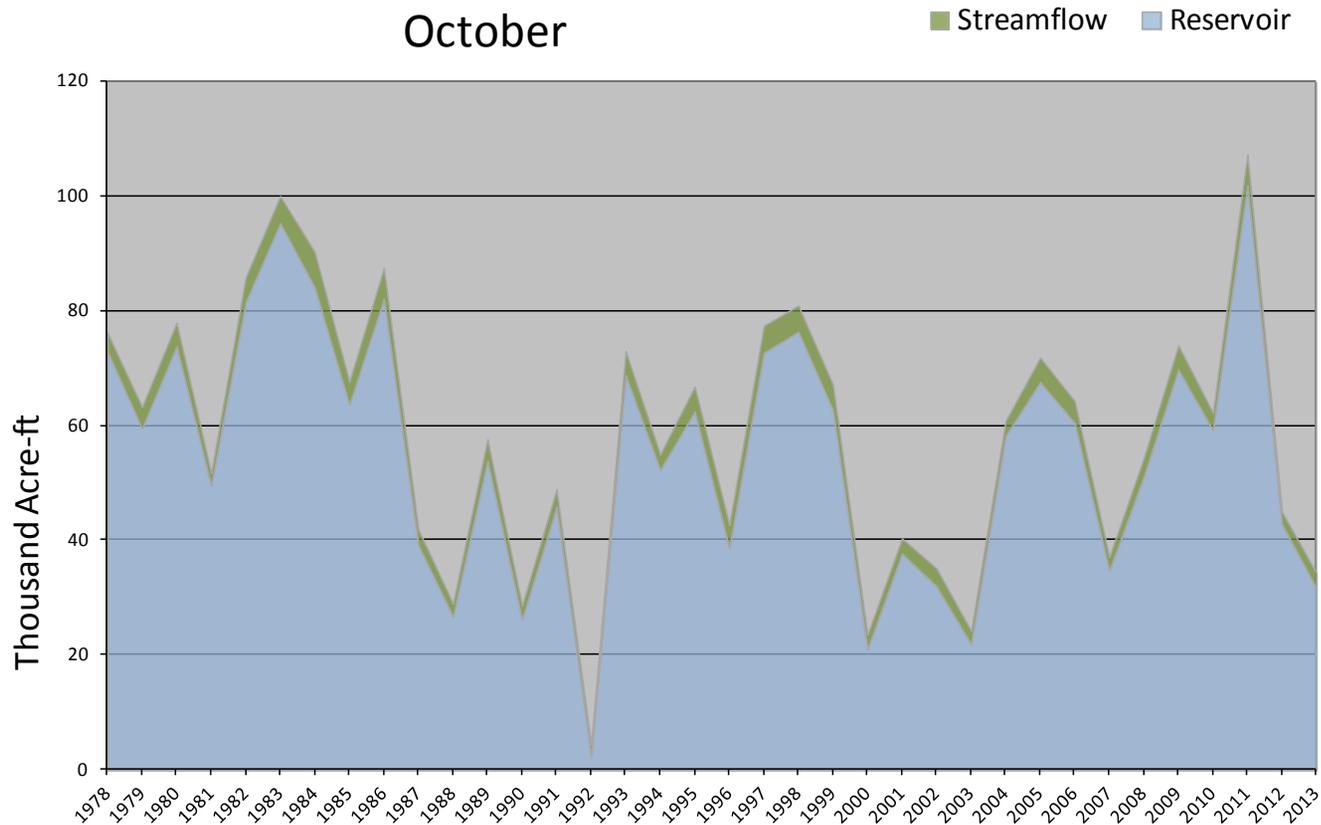
Water Availability Index

Basin or Region	September EOM* Pine View & Causey	September accumulated flow at South Fork Ogden (observed)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Ogden River	32	3	34	-2.82	16	90, 88, 02, 07

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

Ogden River - Water Availability Index

October

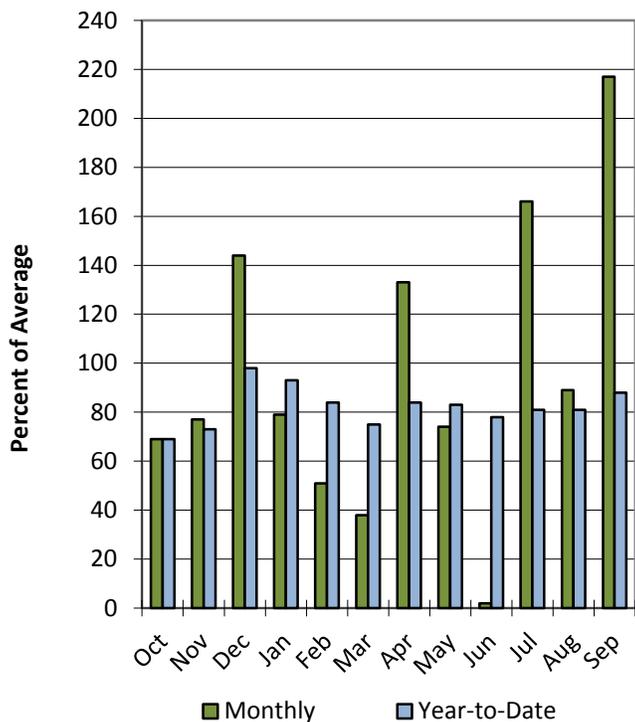


Tooele & Vernon Creek Basins

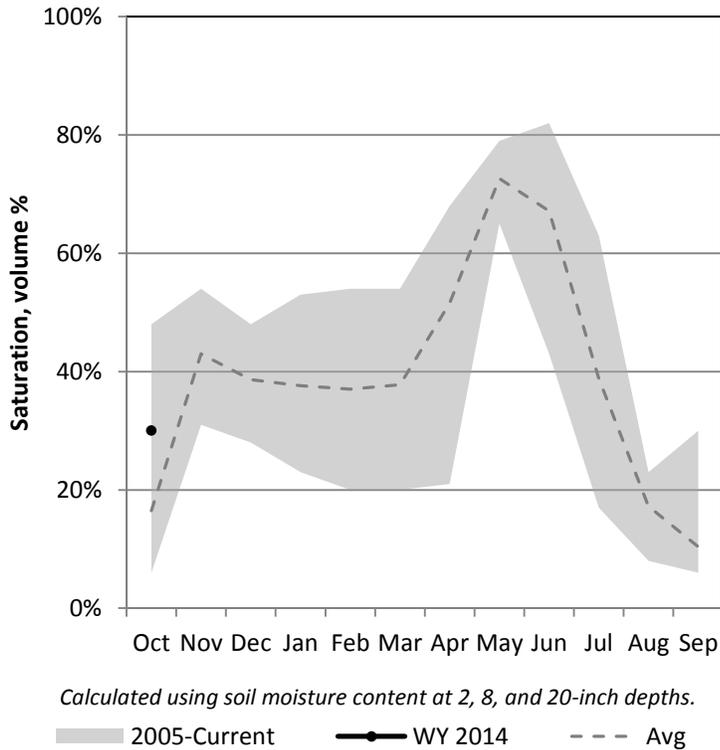
10/1/2013

Precipitation in September was much above average at 217%, which brings the seasonal accumulation (Oct-Sep) to 88% of average. Soil moisture is at 30% compared to 14% last year. Reservoir storage is at 22% of capacity, compared to 12% last year.

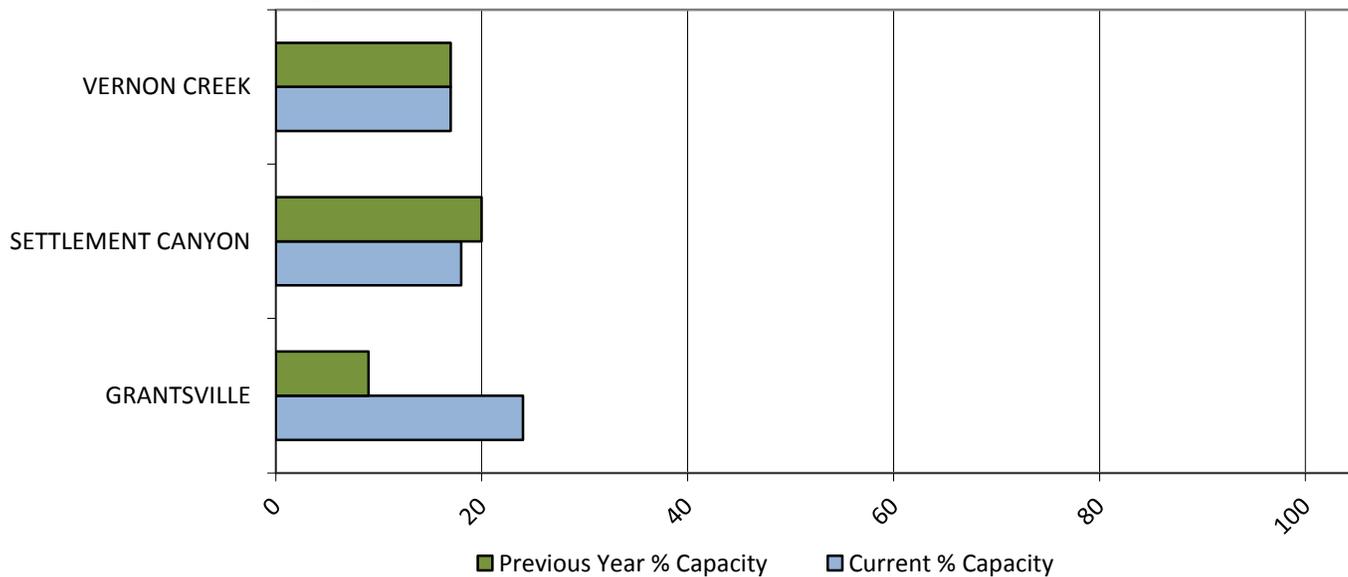
Precipitation



Soil Moisture



Reservoir Storage

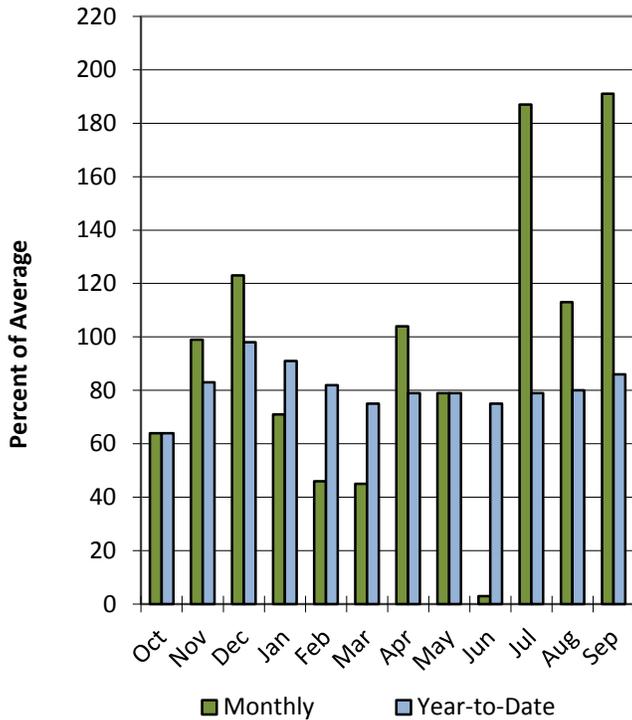


Provo & Jordan River Basins

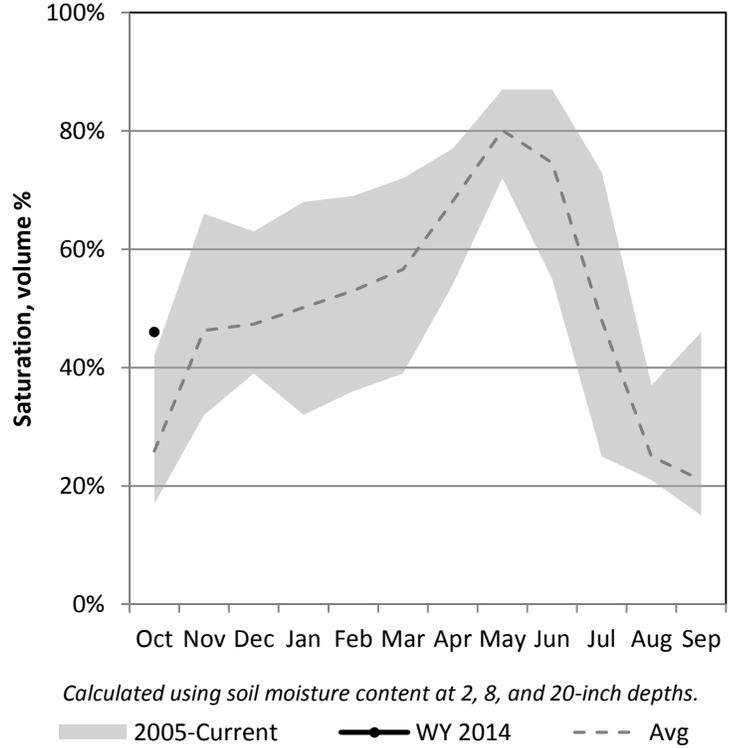
10/1/2013

Precipitation in September was much above average at 191%, which brings the seasonal accumulation (Oct-Sep) to 86% of average. Soil moisture is at 46% compared to 25% last year. Reservoir storage is at 65% of capacity, compared to 73% last year. The water availability index for the Provo River is 16%.

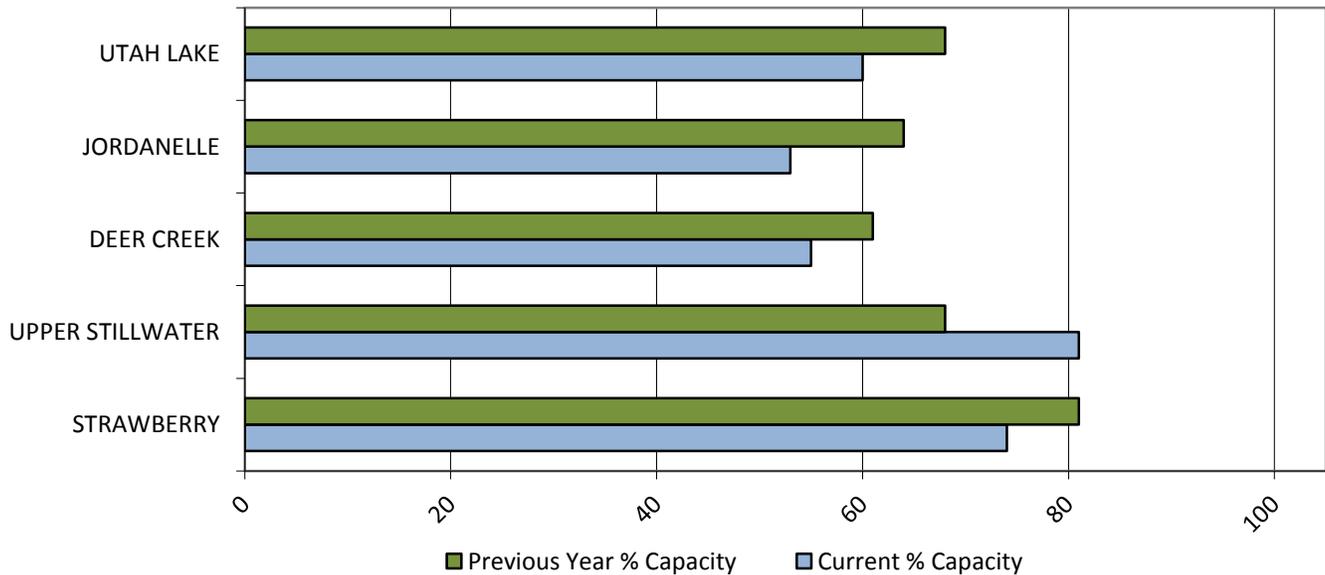
Precipitation



Soil Moisture



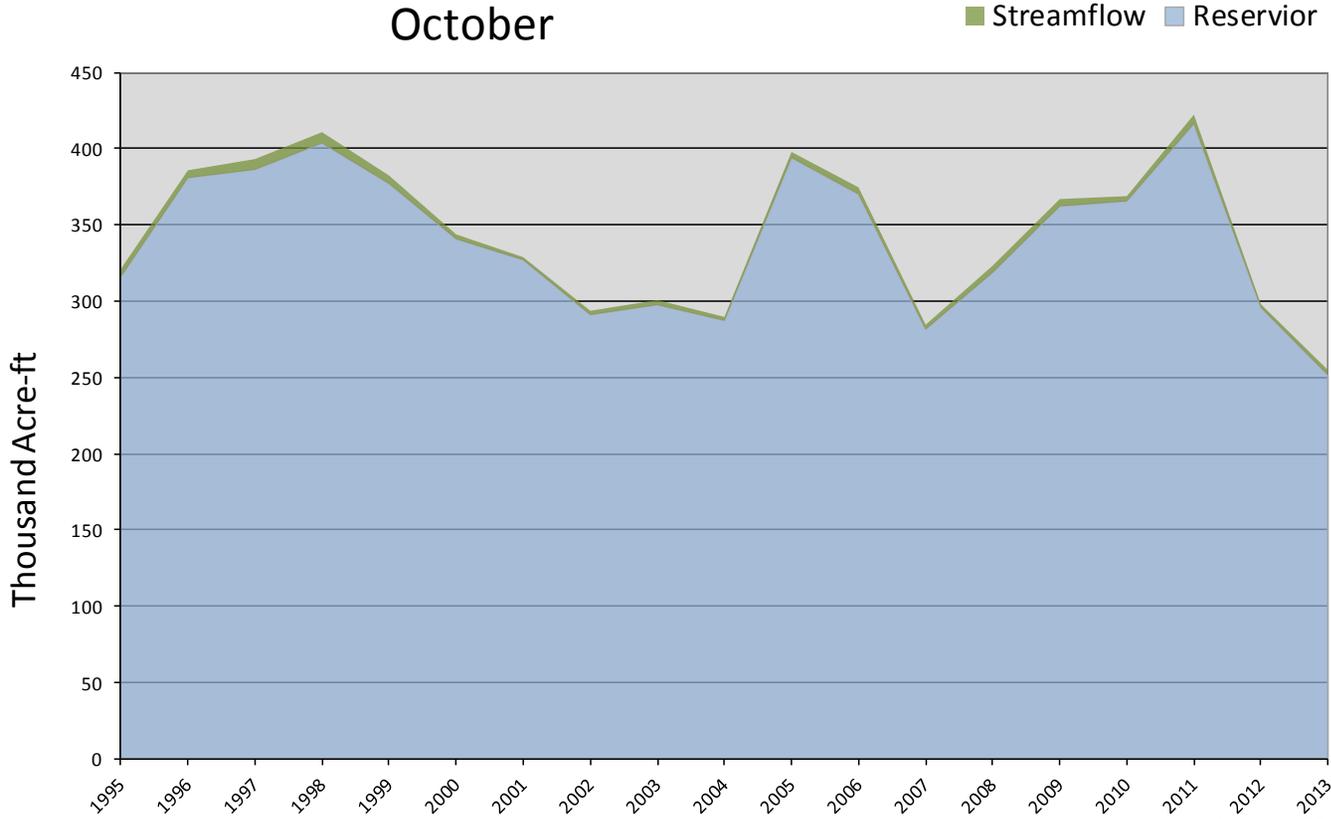
Reservoir Storage



October 1, 2013	Water Availability Index					
Basin or Region	September EOM* Deer Creek, Jordanelle	September accumulated flow Provo River at Woodland (<i>observed</i>)	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	KAF [^]	KAF	KAF		%	
Provo	252	3	255	-2.41	21%	04, 02, 03, 95

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

Provo River - Water Availability Index
October



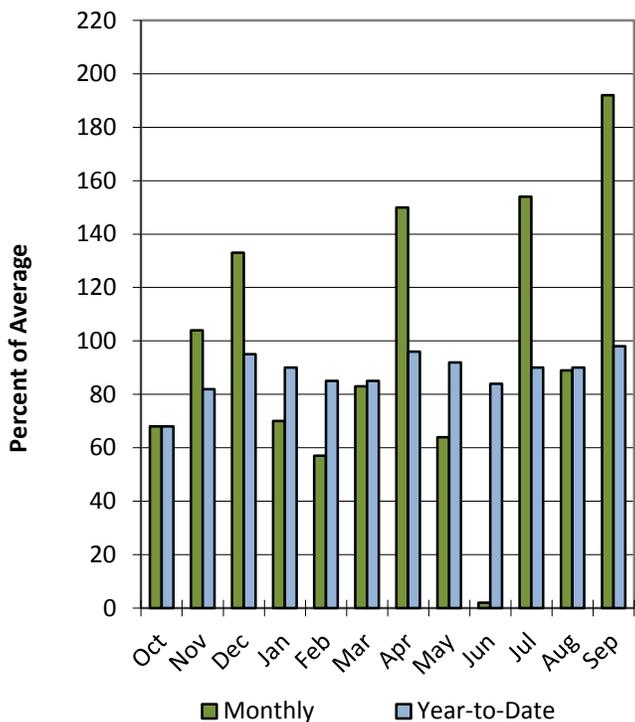
Utah Lake, Jordan River, and Tooele Valley Basins

Northeastern Uintah Basin

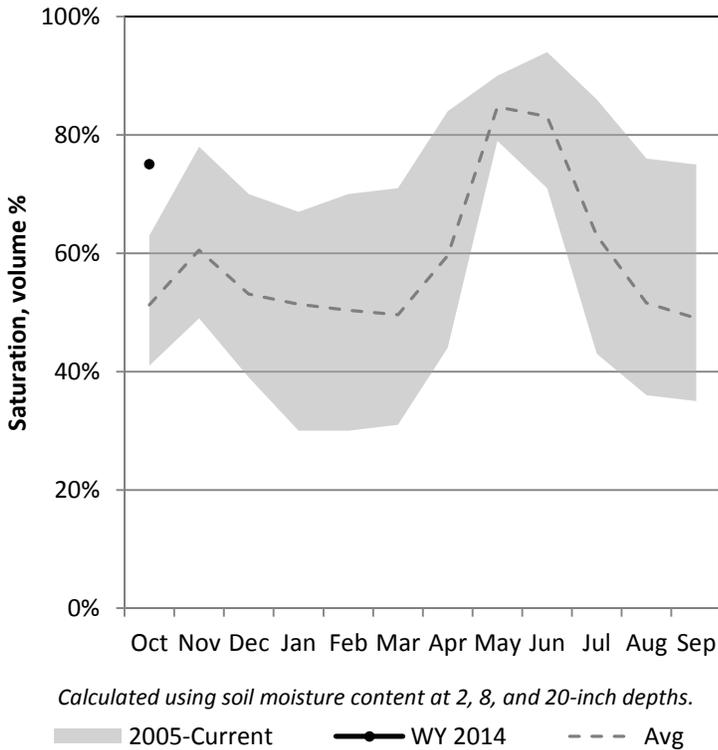
10/1/2013

Precipitation in September was much above average at 192%, which brings the seasonal accumulation (Oct-Sep) to 98% of average. Soil moisture is at 75% compared to 43% last year. Reservoir storage is at 75% of capacity, compared to 80% last year.

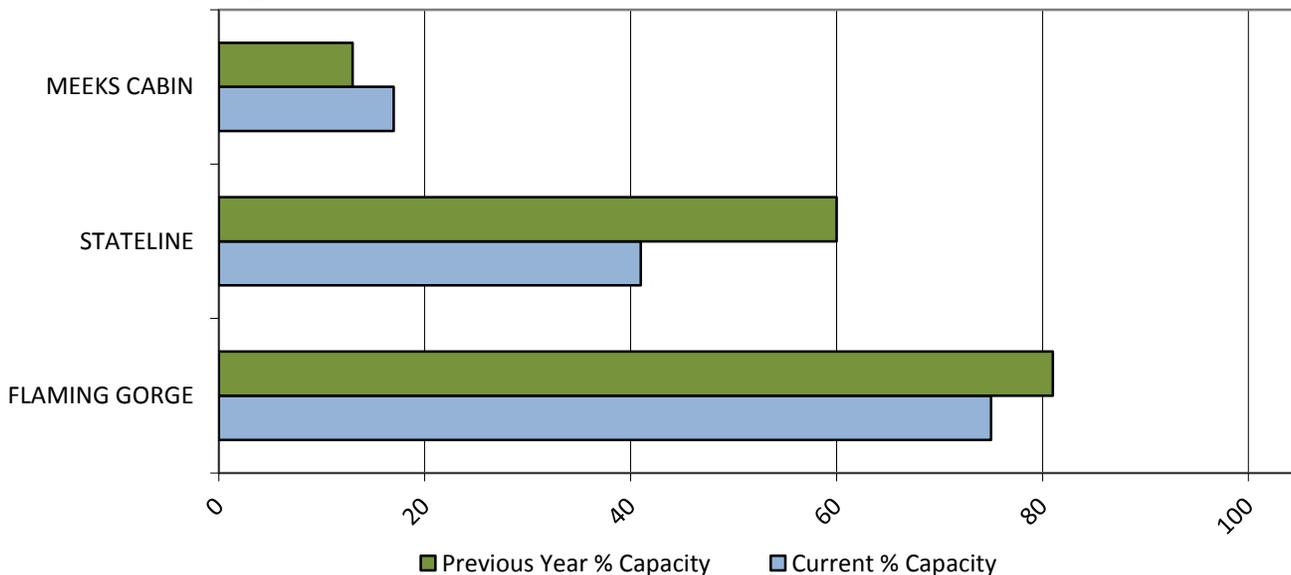
Precipitation



Soil Moisture



Reservoir Storage



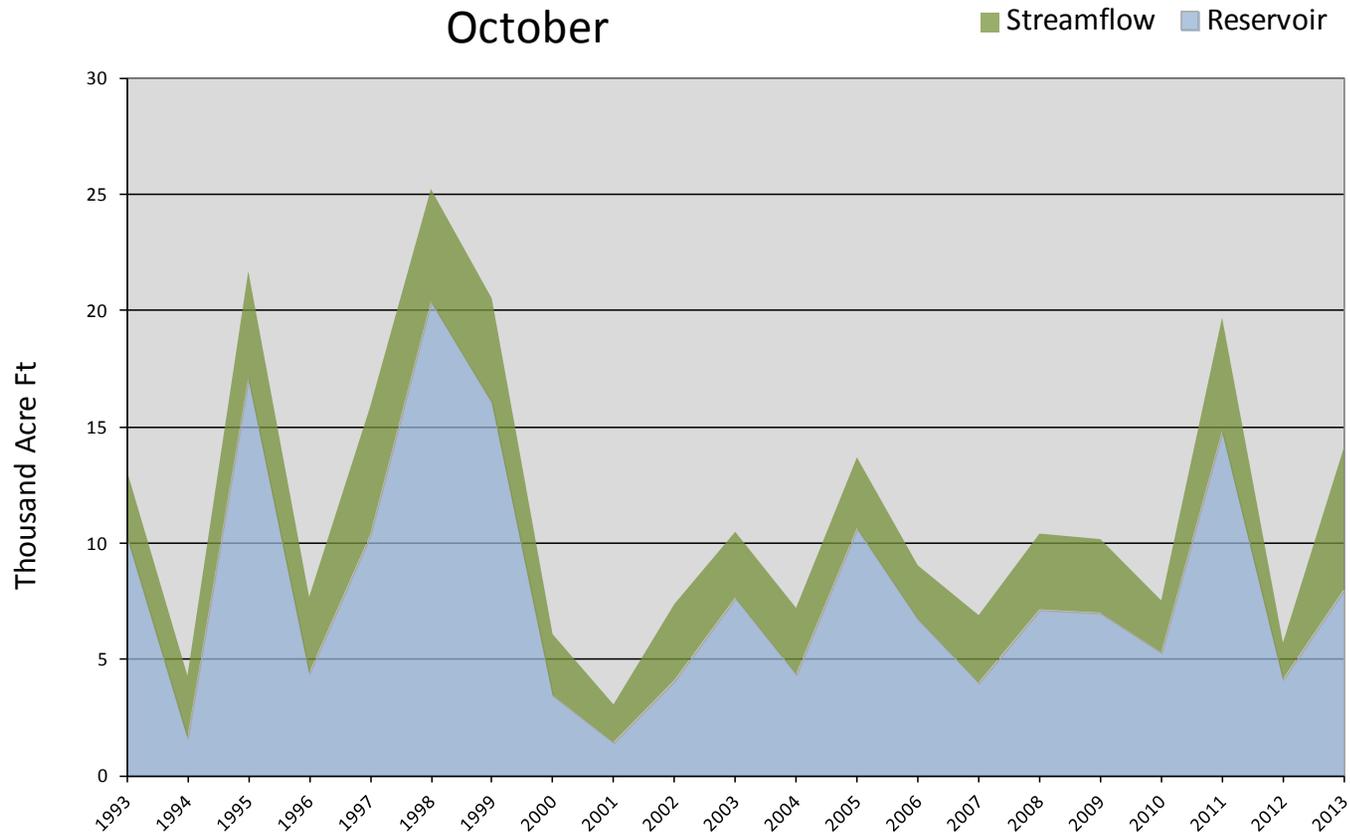
October 1, 2013

Water Availability Index

Basin or Region	Sept EOM* Meeks Cabin Reservoir	September Observed Streamflow Blacks Fork nr Robertson	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Blacks Fork	8.0	6.1	14.1	1.89	73	93, 05, 97, 11

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

Blacks Fork River - Water Availability Index October



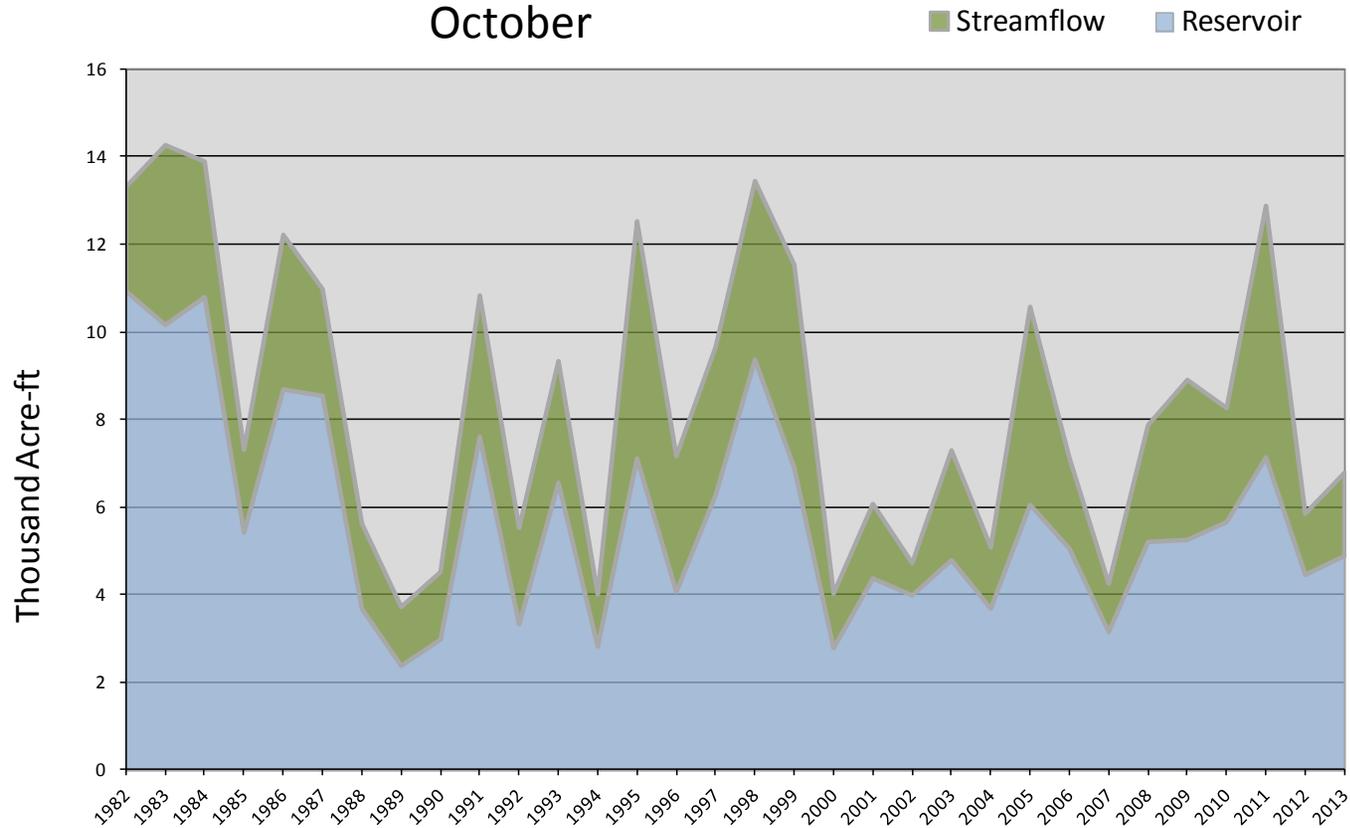
October 1, 2013

Water Availability Index

Basin or Region	September EOM* Stateline Reservoir	September Observed Flow EF Smiths Creek	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	KAF [^]	KAF	KAF		%	
Smiths Creek	4.9	1.9	6.8	-1.14	36	12, 01, 06, 96

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

Smiths Creek - Water Availability Index October

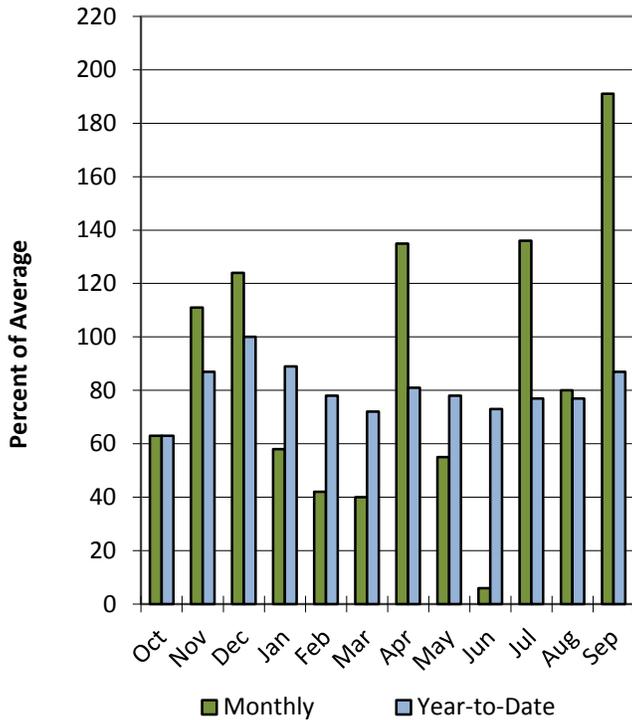


Duchesne River Basin

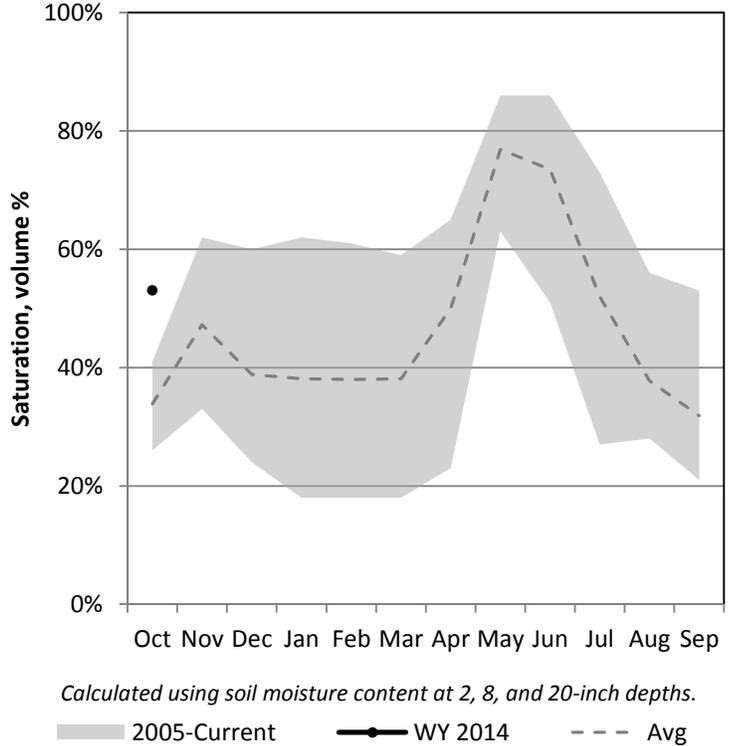
10/1/2013

Precipitation in September was much above average at 191%, which brings the seasonal accumulation (Oct-Sep) to 87% of average. Soil moisture is at 53% compared to 26% last year. Reservoir storage is at 70% of capacity, compared to 73% last year. The water availability index for the Western Uintahs is 9% and 0.21% for the Eastern Uintahs.

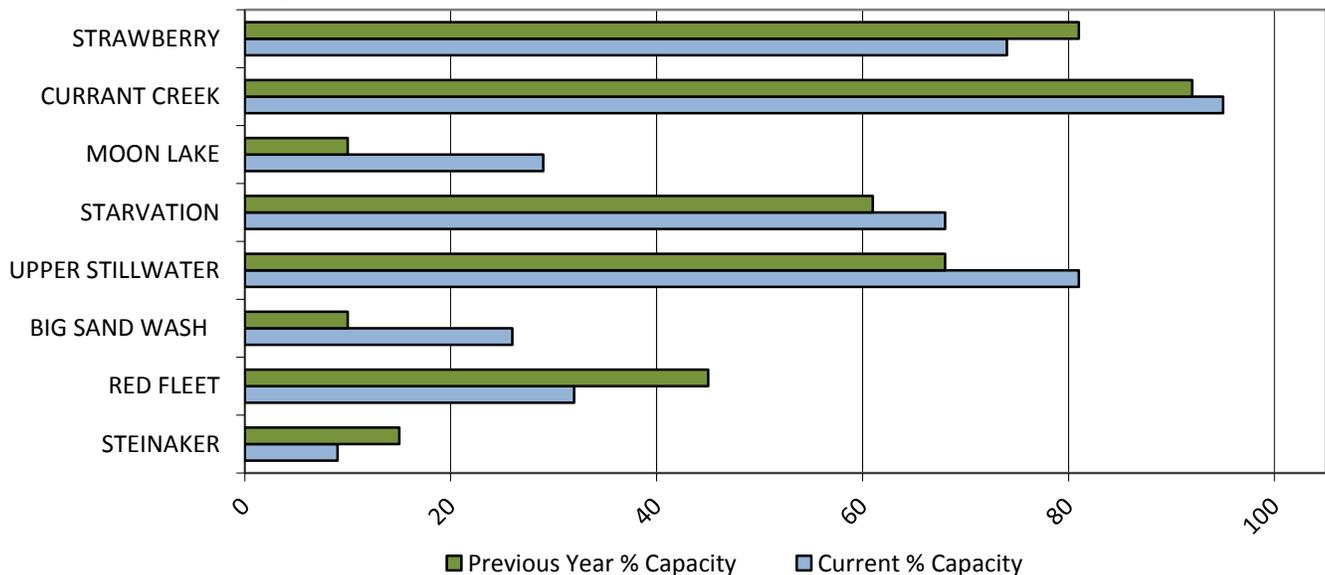
Precipitation



Soil Moisture



Reservoir Storage



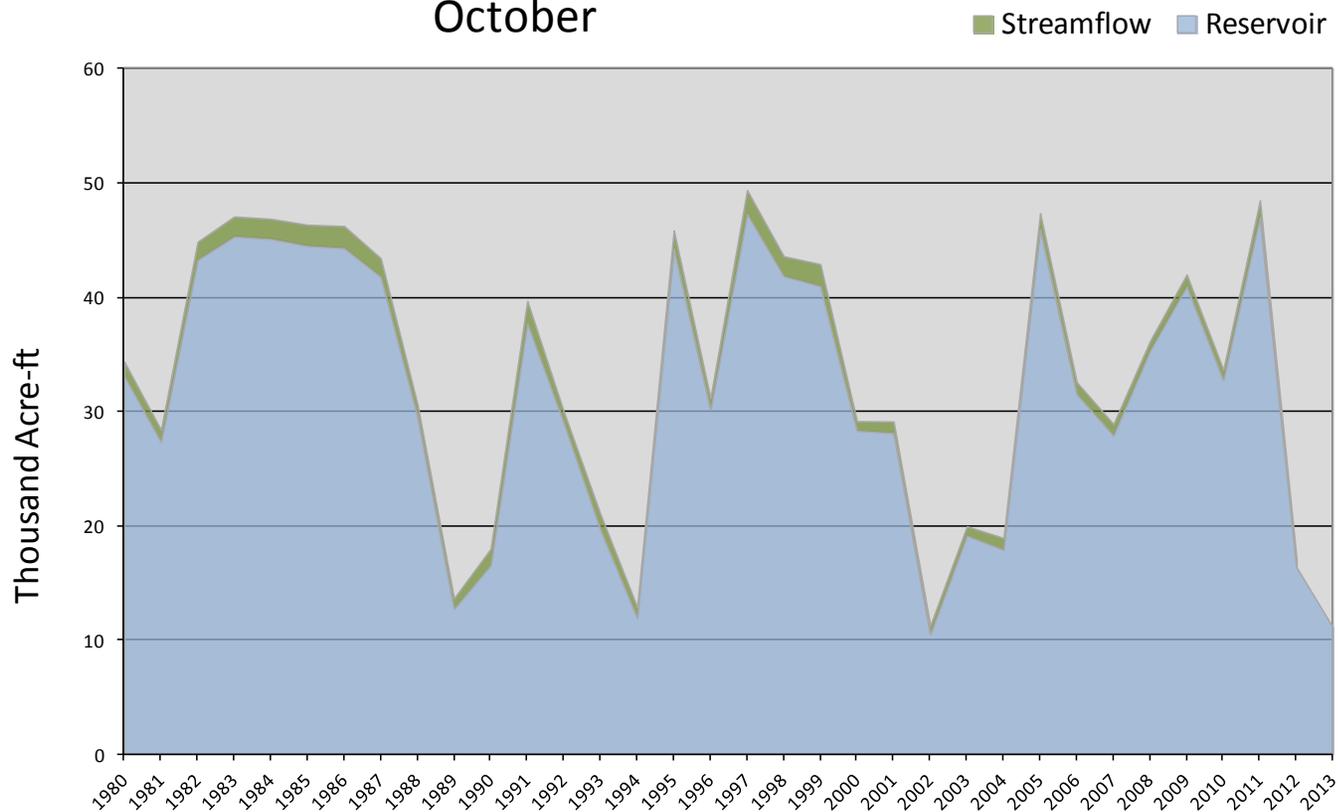
October 1, 2013

Water Availability Index

Basin or Region	September EOM* Red Fleet and Steinaker	September accumulated flow Big Brush Creek (observed)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Eastern Uintah	11.1	0.7	11.8	-3.69	6	02, 94, 89

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

Eastern Uintah - Water Availability Index October



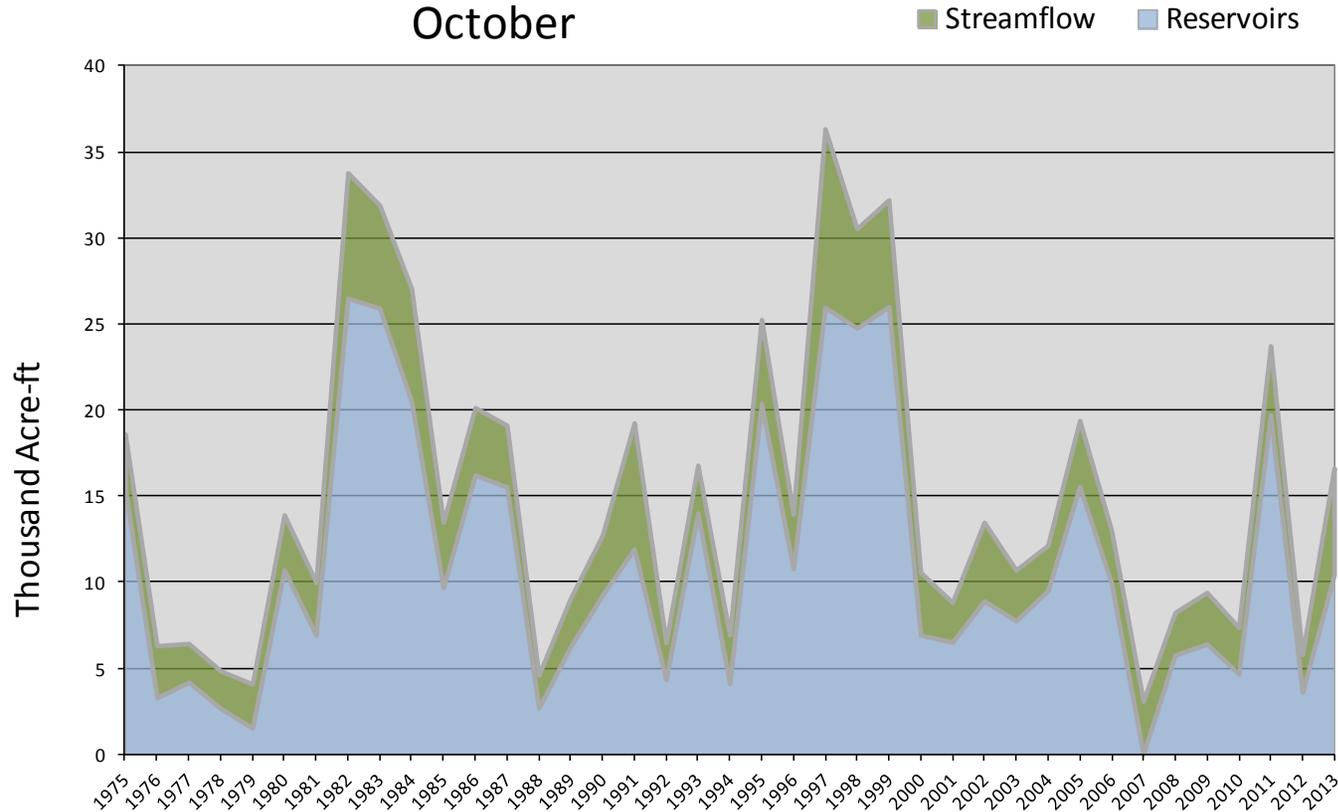
October 1, 2013

Water Availability Index

Basin or Region	September EOM* Moon Lake	September accumulated flow Lake Fork Creek above Moon Lake (observed)	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	KAF [^]	KAF	KAF		%	
Moon Lake	10.4	6.2	16.6	1.04	63	80, 96, 93, 75

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

Moon Lake - Water Availability Index
October

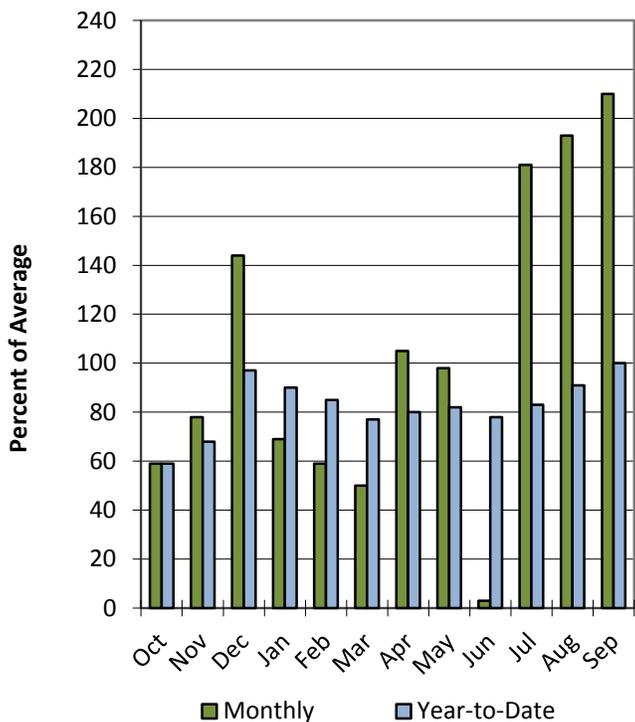


Price & San Rafael Basins

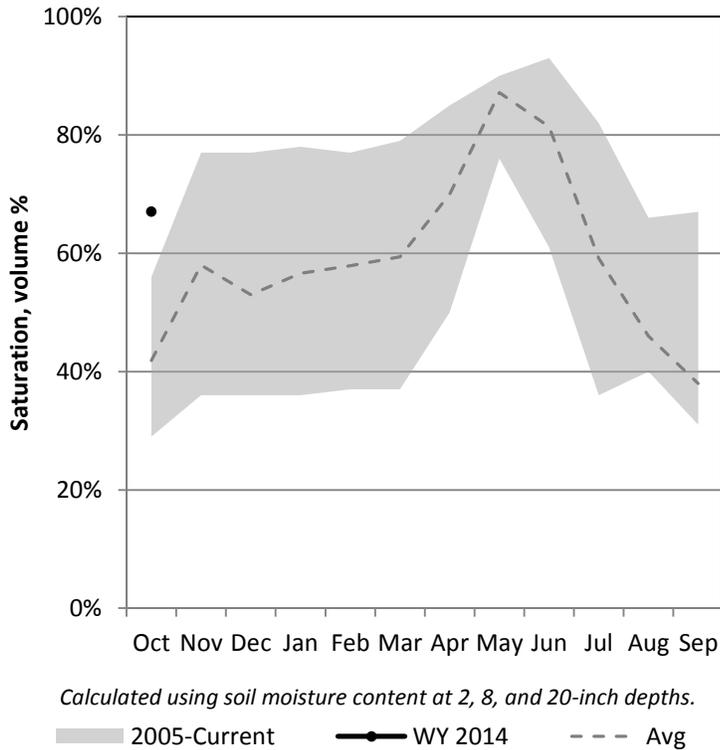
10/1/2013

Precipitation in September was much above average at 210%, which brings the seasonal accumulation (Oct-Sep) to 100% of average. Soil moisture is at 67% compared to 37% last year. Reservoir storage is at 39% of capacity, compared to 45% last year. The water availability index for the Price River is 63%, and 6% for Joe's Valley.

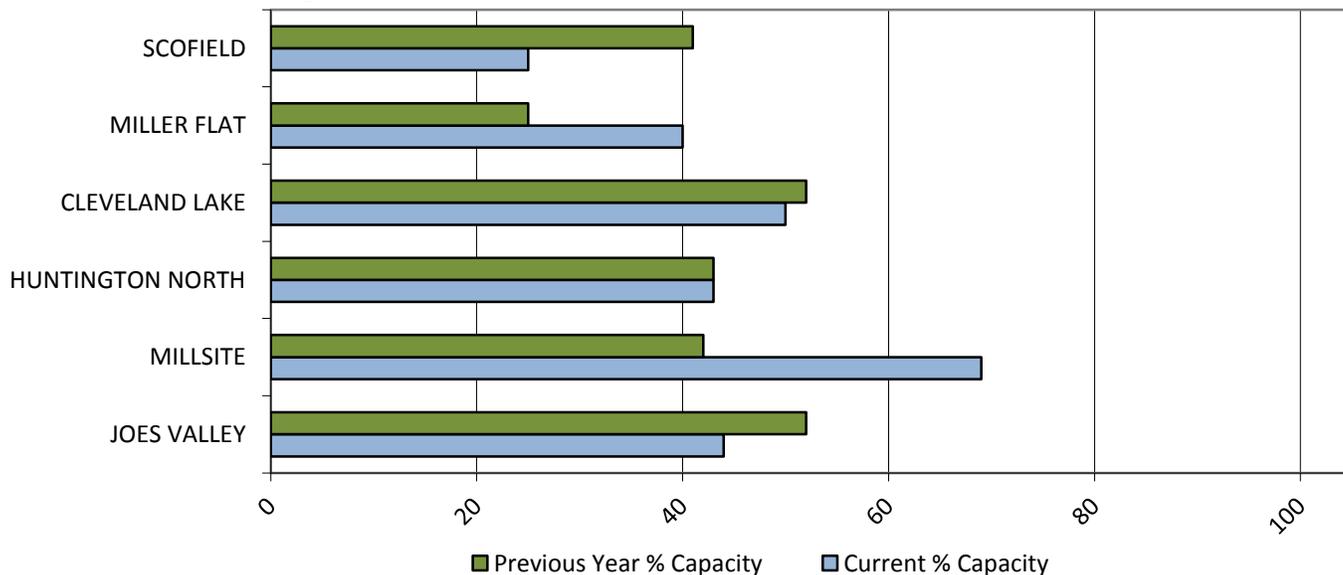
Precipitation



Soil Moisture



Reservoir Storage



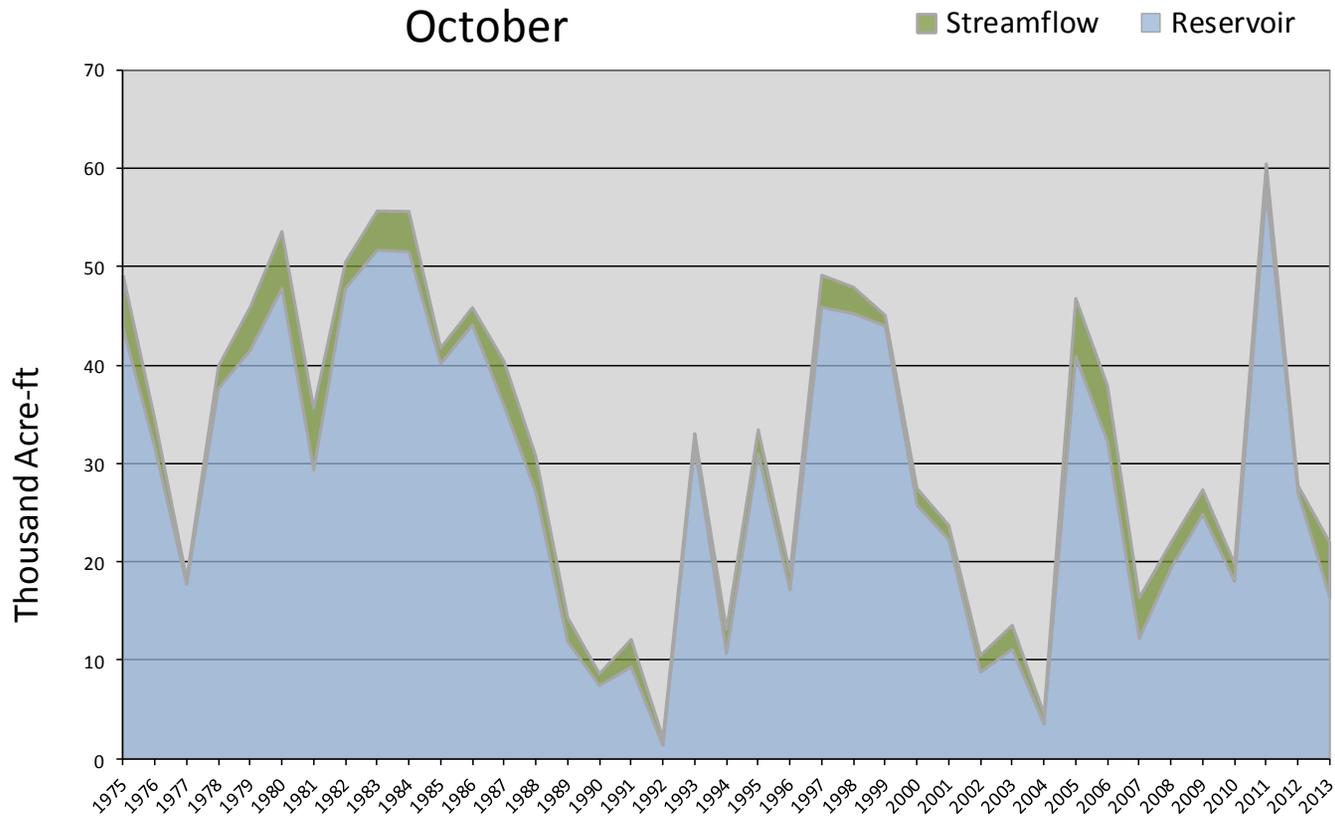
October 1, 2013

Water Availability Index

Basin or Region	September EOM* Scofield	September accumulated inflow to Scofield (calculated)	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	KAF [^]	KAF	KAF		%	
Price River	16.4	5.5	21.9	-1.46	33	96, 10, 08, 01

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

Price River - Water Availability Index October



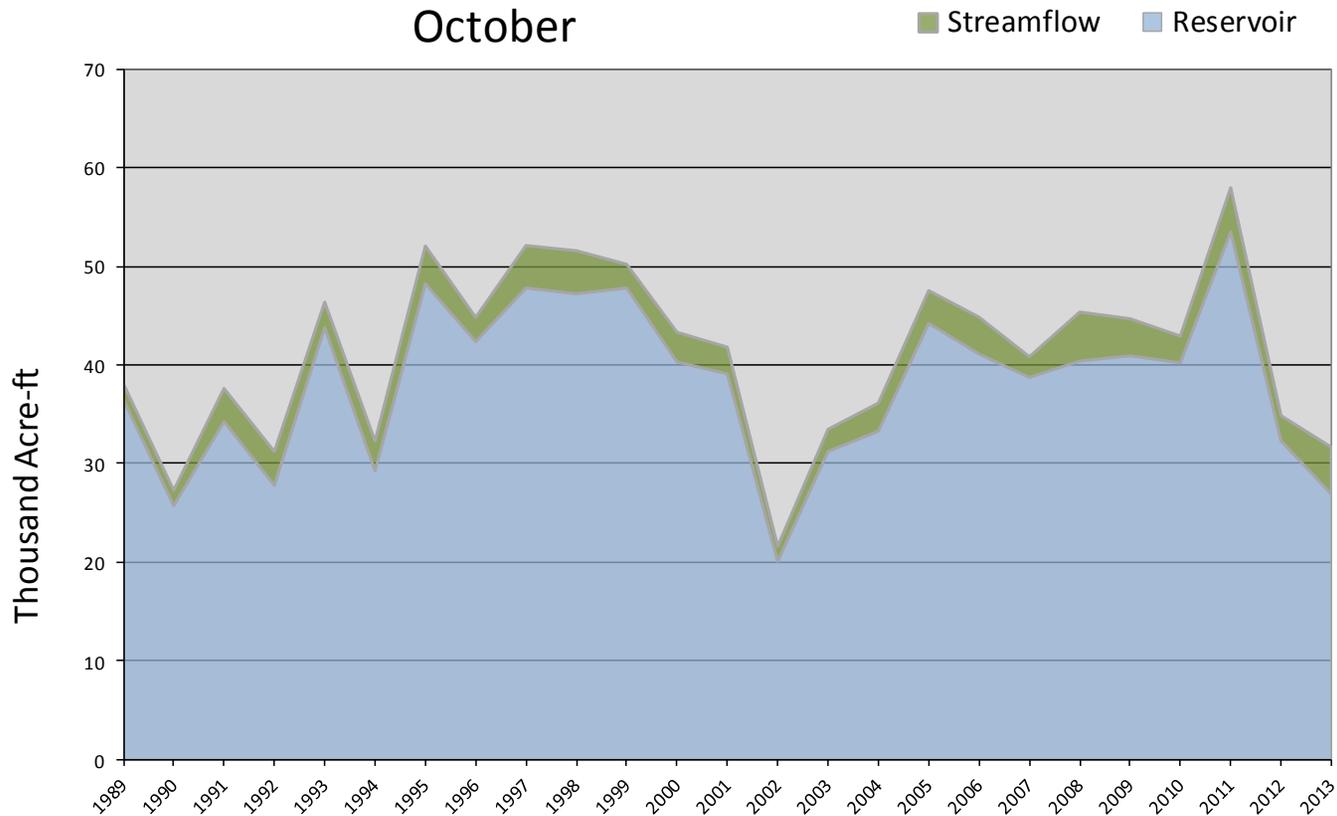
October 1, 2013

Water Availability Index

Basin or Region	September EOM* Joe's Valley	September accumulated inflow to Joe's Valley (calculated)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Joe's Valley	26.9	4.8	31.7	-2.88	15	90, 92, 94, 03

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

Joe's Valley - Water Availability Index October



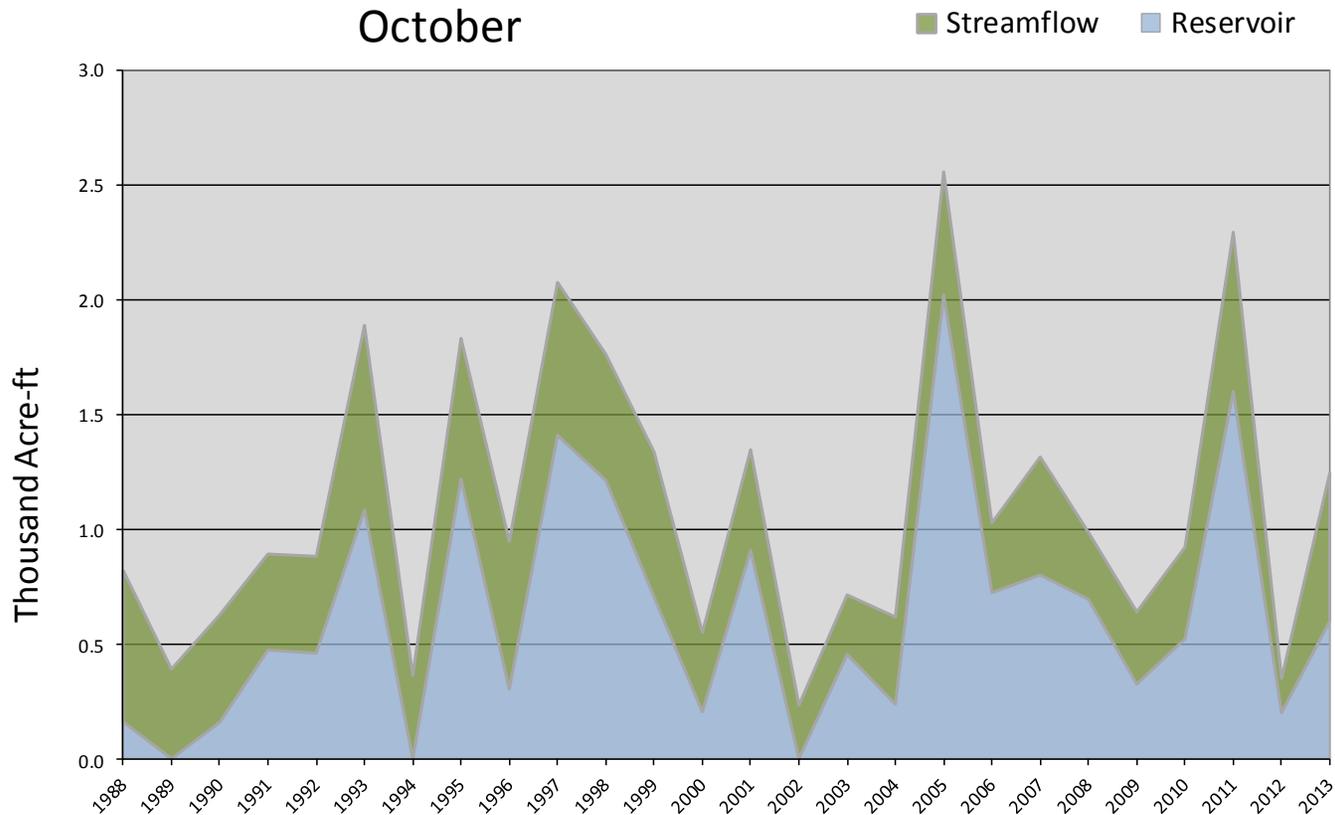
October 1, 2013

Water Availability Index

Basin or Region	September EOM* Ken's Lake Reservoir	September accumulated flow Mill Creek at Sheley (<i>observed</i>)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Moab	0.6	0.6	1.2	1.08	63	08, 06, 07, 99

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

Moab - Water Availability Index October

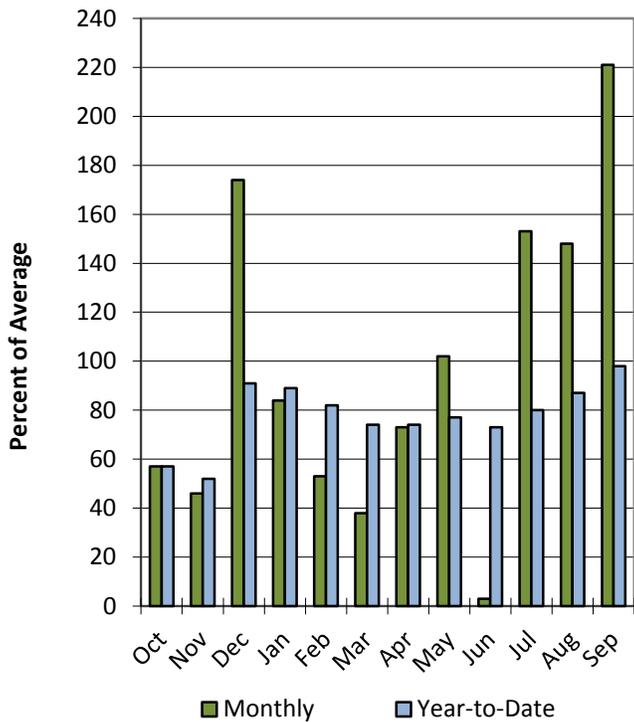


Southeastern Utah Basin

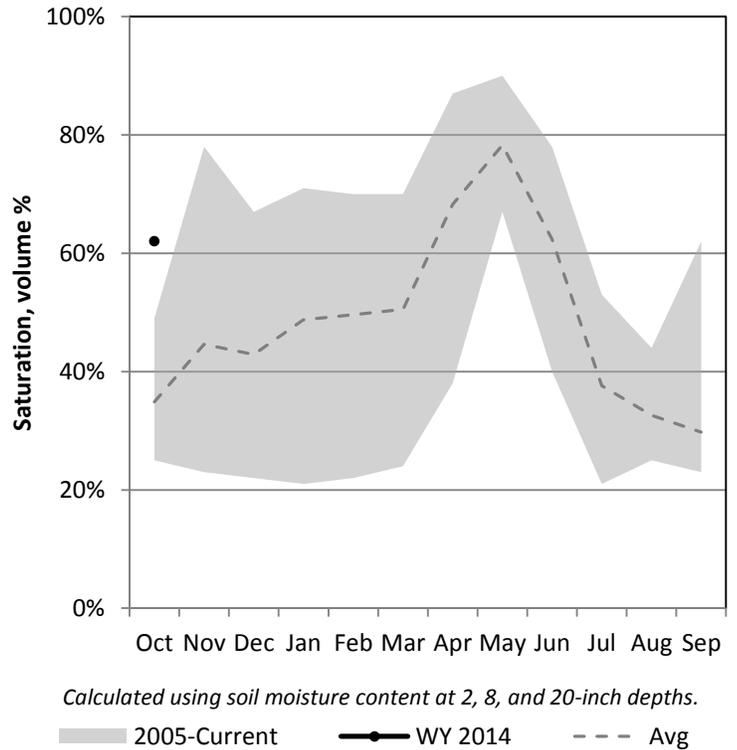
10/1/2013

Precipitation in September was much above average at 221%, which brings the seasonal accumulation (Oct-Sep) to 98% of average. Soil moisture is at 62% compared to 35% last year. Reservoir storage is at 26% of capacity, compared to 9% last year. The water availability index for Moab is 36%.

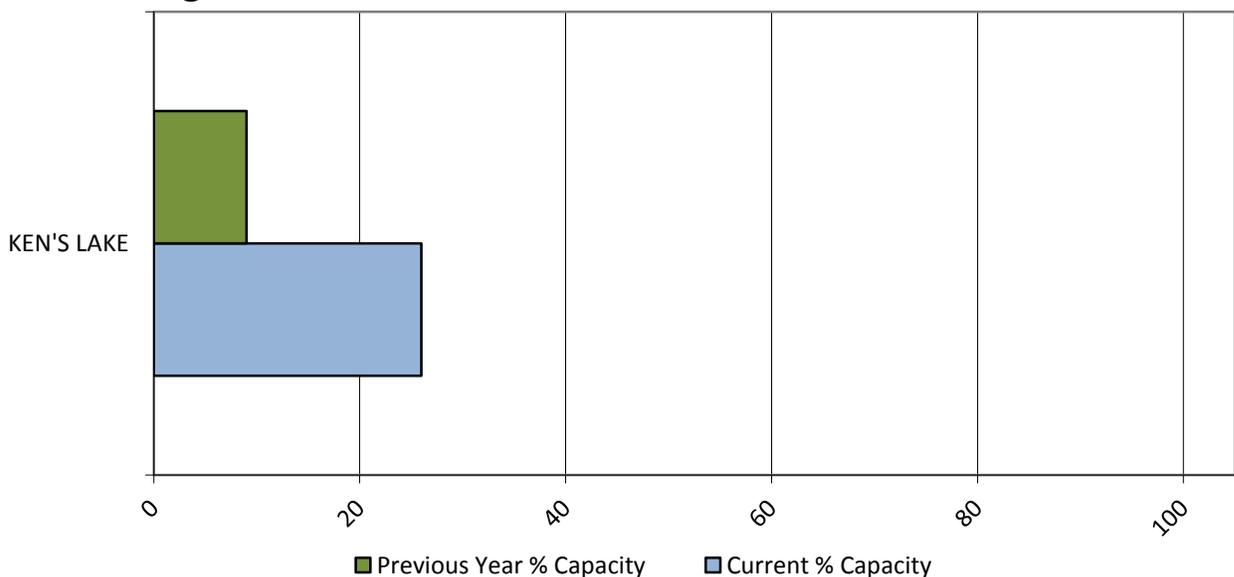
Precipitation



Soil Moisture



Reservoir Storage

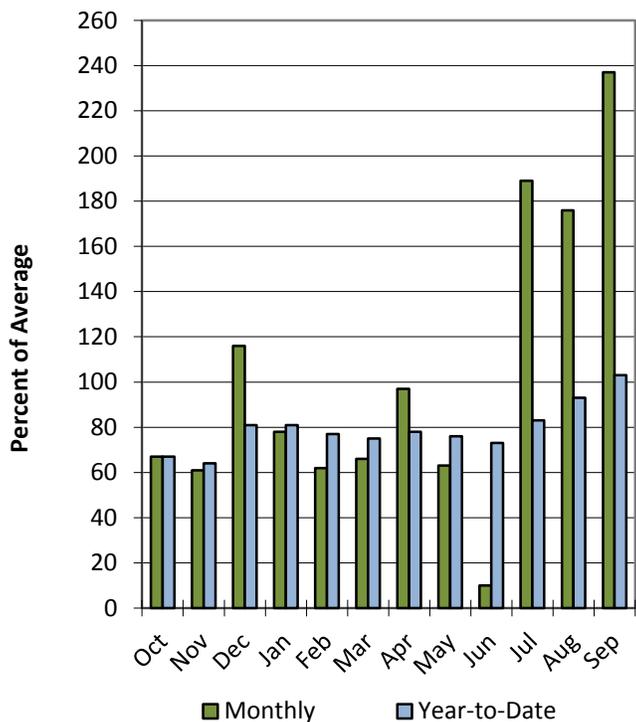


Dirty Devil Basin

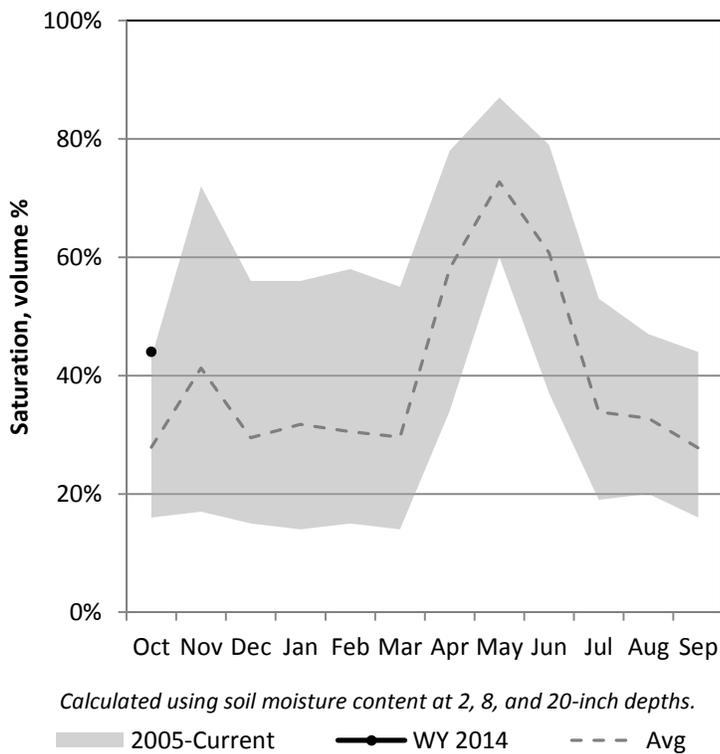
10/1/2013

Precipitation in September was much above average at 237%, which brings the seasonal accumulation (Oct-Sep) to 103% of average. Soil moisture is at 44% compared to 28% last year.

Precipitation



Soil Moisture

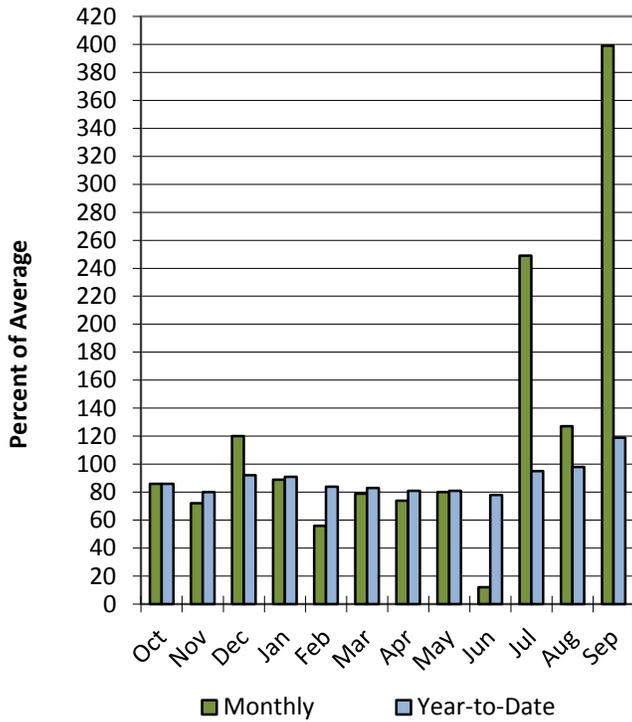


Escalante River Basin

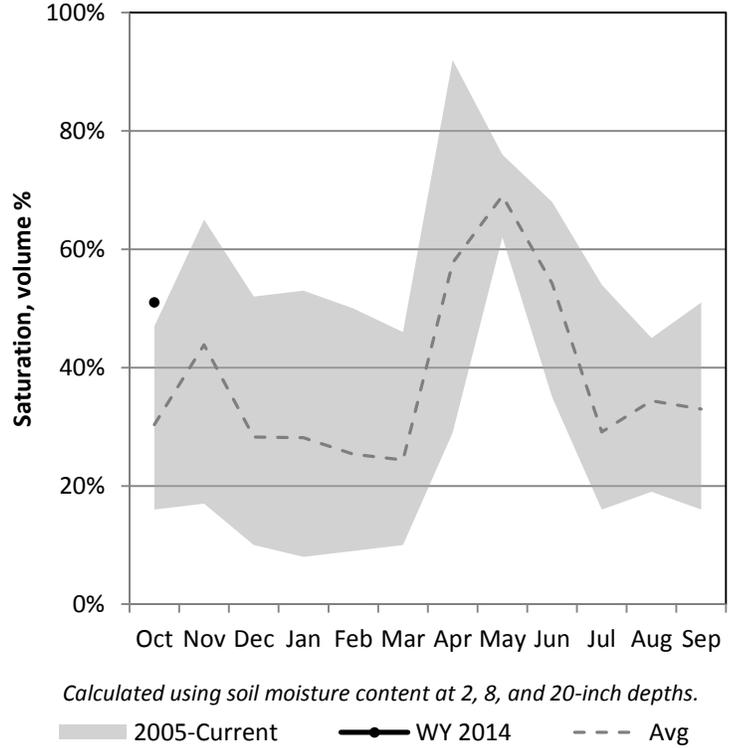
10/1/2013

Precipitation in September was much above average at 399%, which brings the seasonal accumulation (Oct-Sep) to 119% of average. Soil moisture is at 51% compared to 26% last year.

Precipitation



Soil Moisture

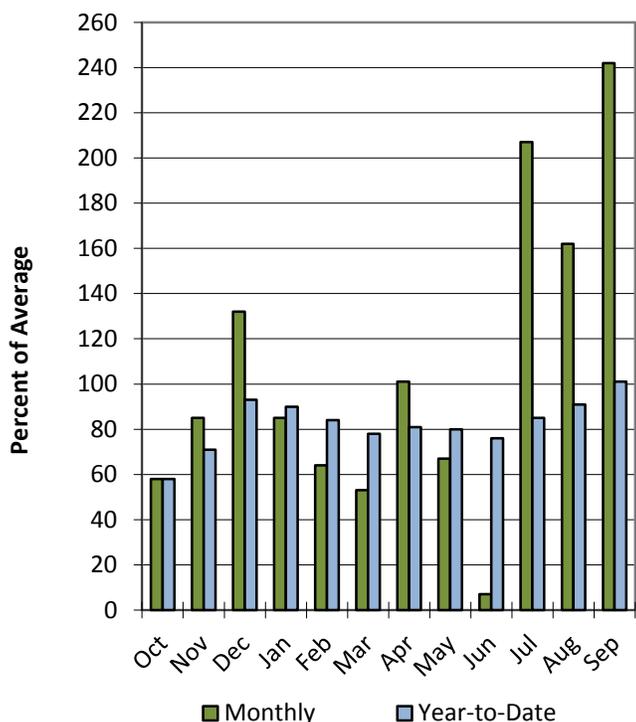


Upper Sevier River Basin

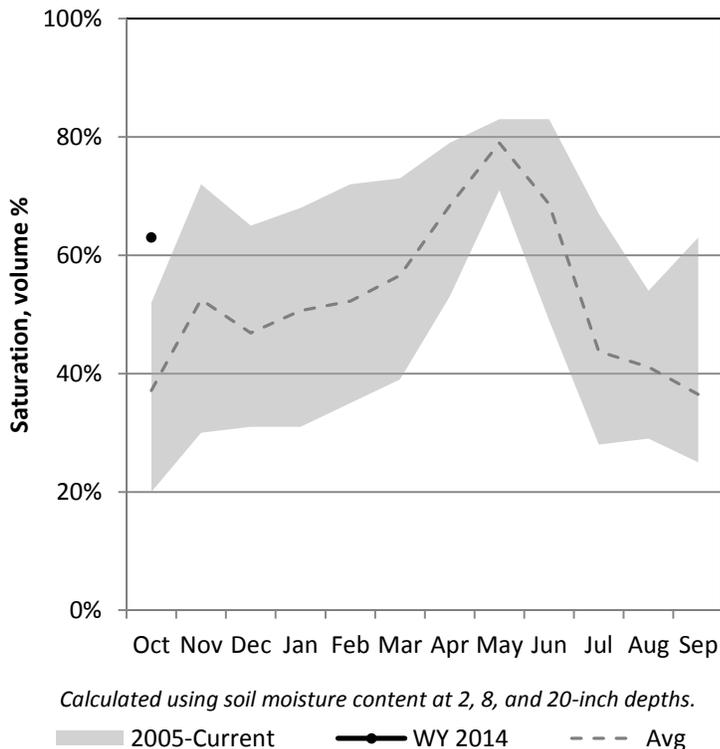
10/1/2013

Precipitation in September was much above average at 242%, which brings the seasonal accumulation (Oct-Sep) to 101% of average. Soil moisture is at 63% compared to 39% last year. Reservoir storage is at 39% of capacity, compared to 31% last year. The water availability index for the Upper Sevier is 33%.

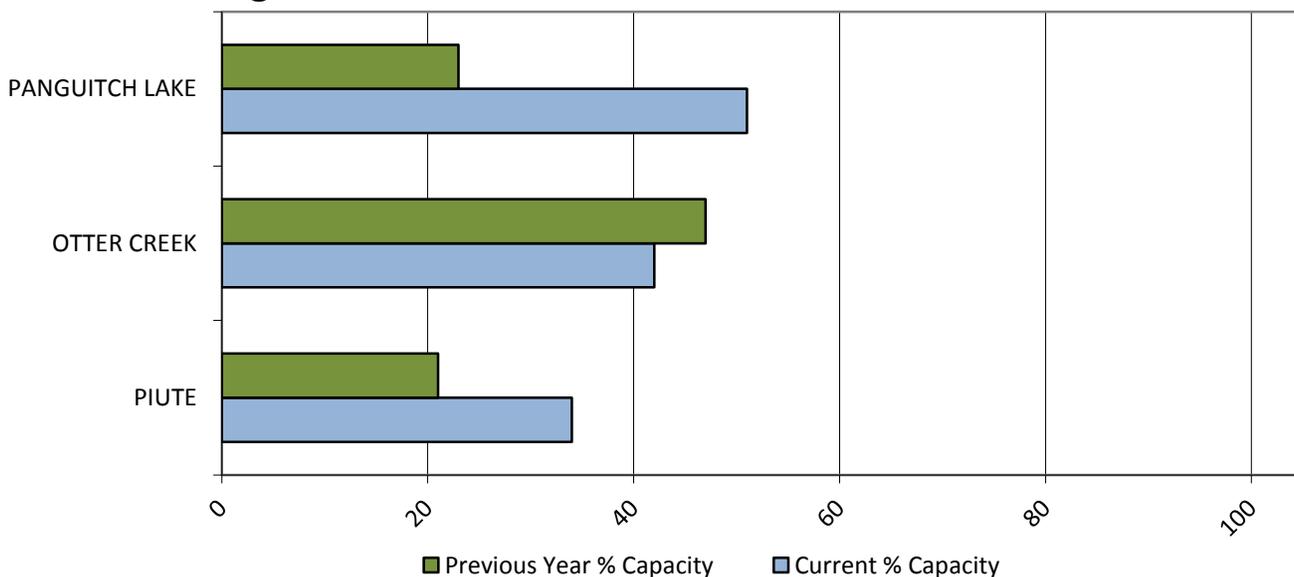
Precipitation



Soil Moisture



Reservoir Storage



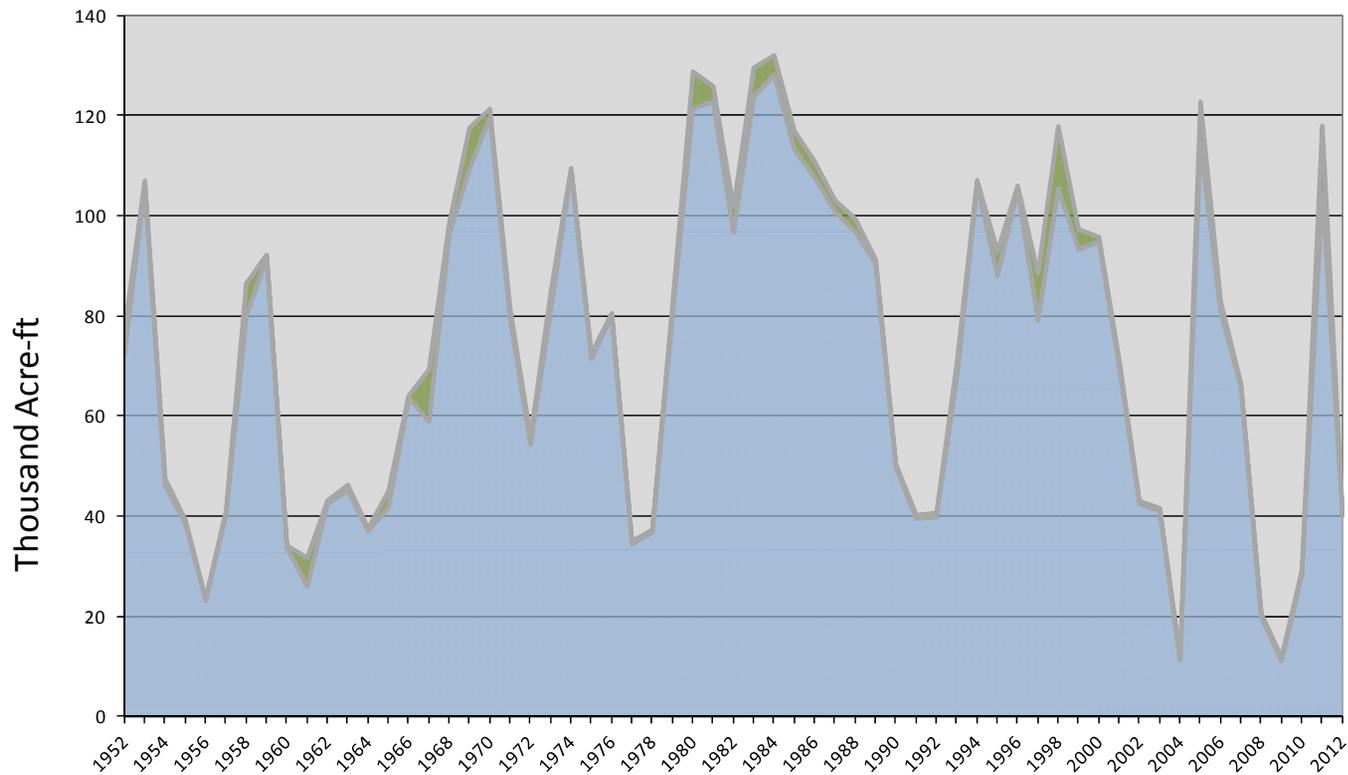
October 1, 2013		Water Availability Index				
Basin or Region	September EOM* Otter Creek and Piute	September accumulated flow at Kingston (<i>observed</i>)	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	KAF [^]	KAF	KAF		%	
Upper Sevier River	46	8.4	55	-1.12	37	54,90,72,66

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

Upper Sevier River - Water Availability Index

October

■ Streamflow ■ Reservoir

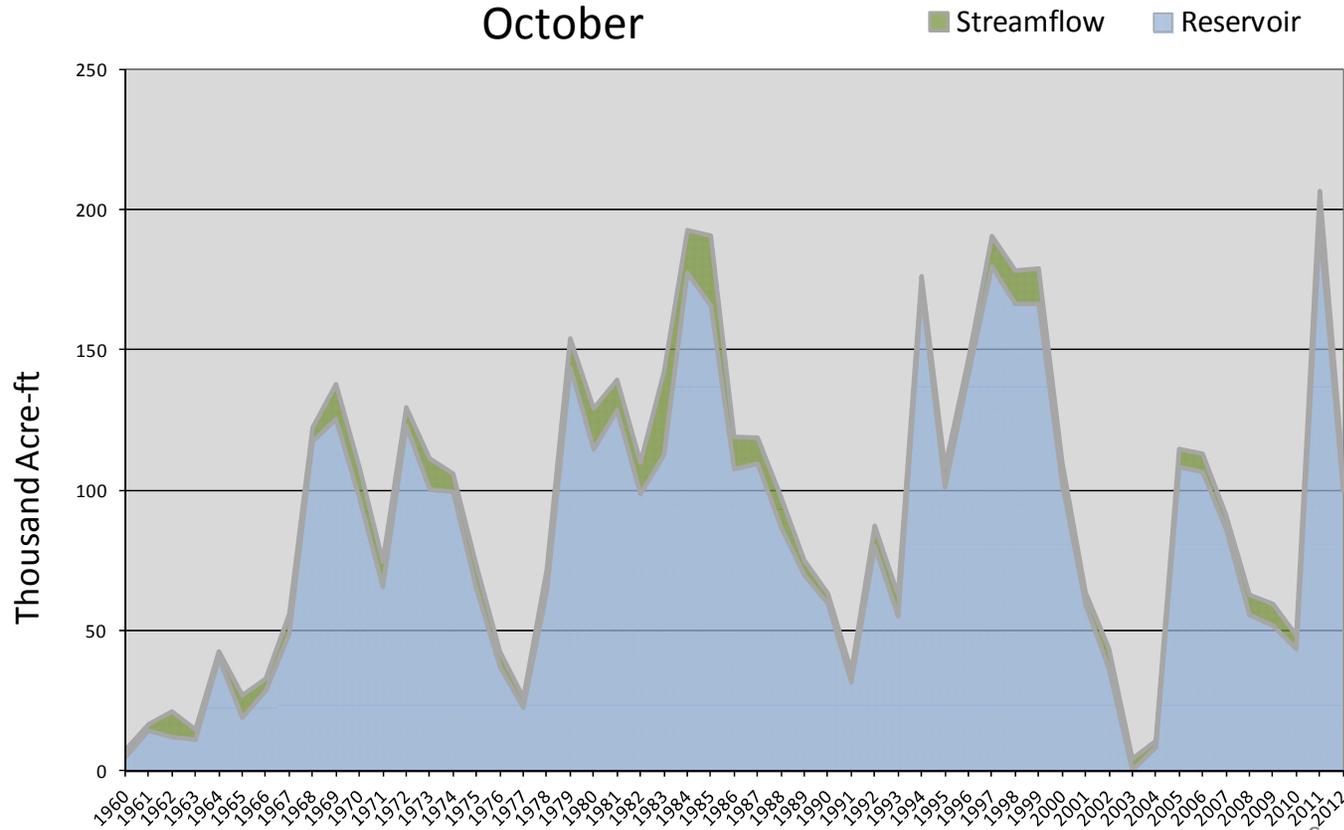


October 1, 2013		Water Availability Index				
Basin or Region	September EOM* Sevier Bridge	September accumulated flow Sevier at Gunnison (observed)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Lower Sevier River	76	9.8	86	-0.38	45	71,89,92,07

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

Lower Sevier River - Water Availability Index

October

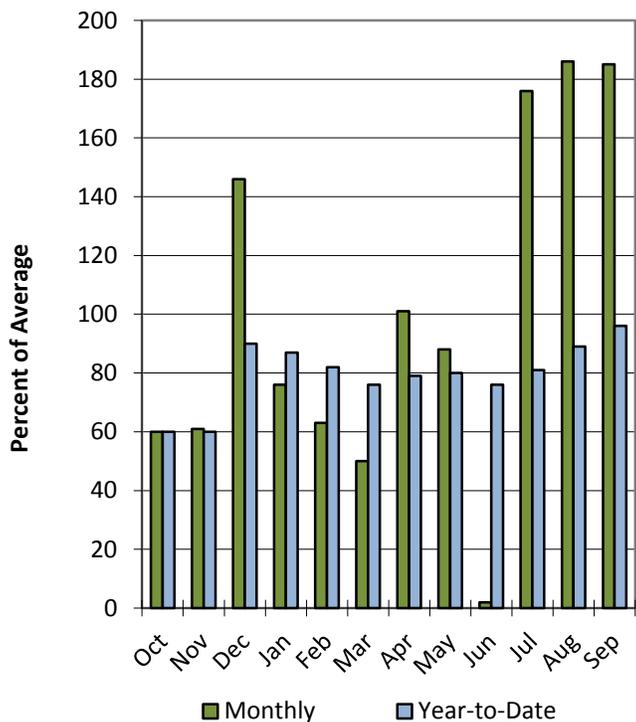


San Pitch River Basin

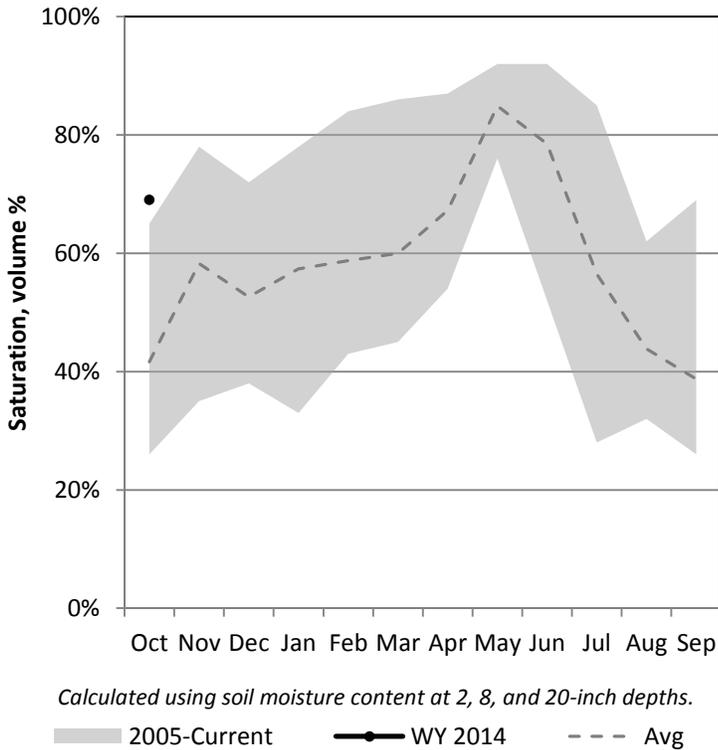
10/1/2013

Precipitation in September was much above average at 185%, which brings the seasonal accumulation (Oct-Sep) to 96% of average. Soil Moisture is at 69% compared to 42% last year. Reservoir storage is at 0% of capacity, compared to 0% last year.

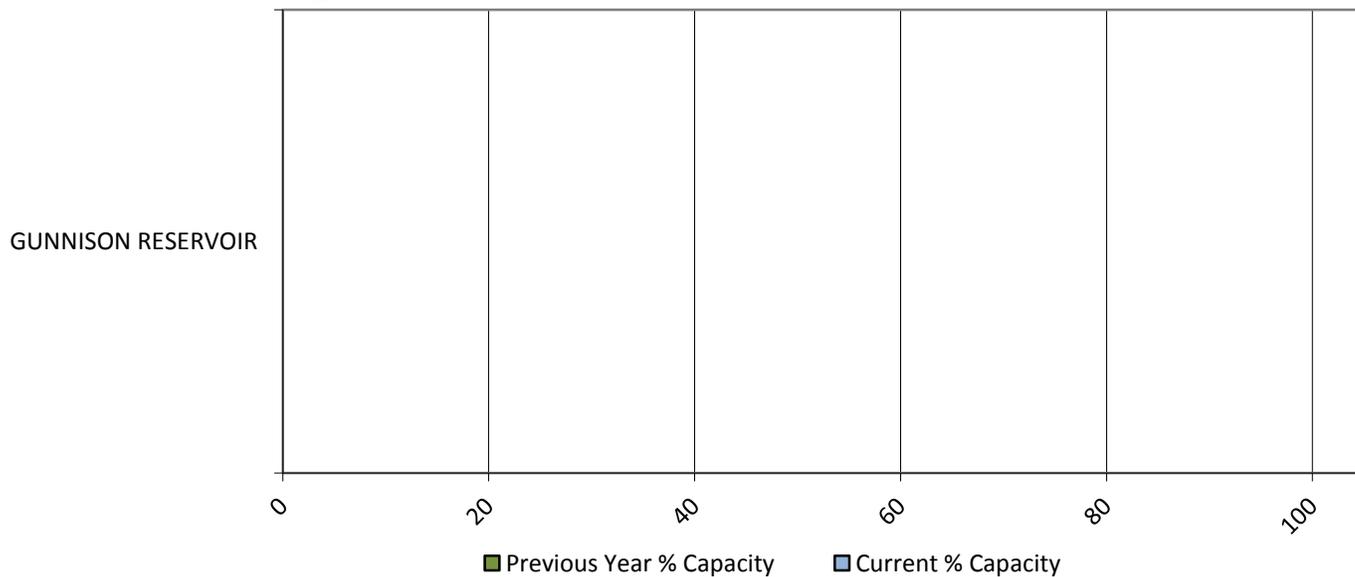
Precipitation



Soil Moisture



Reservoir Storage



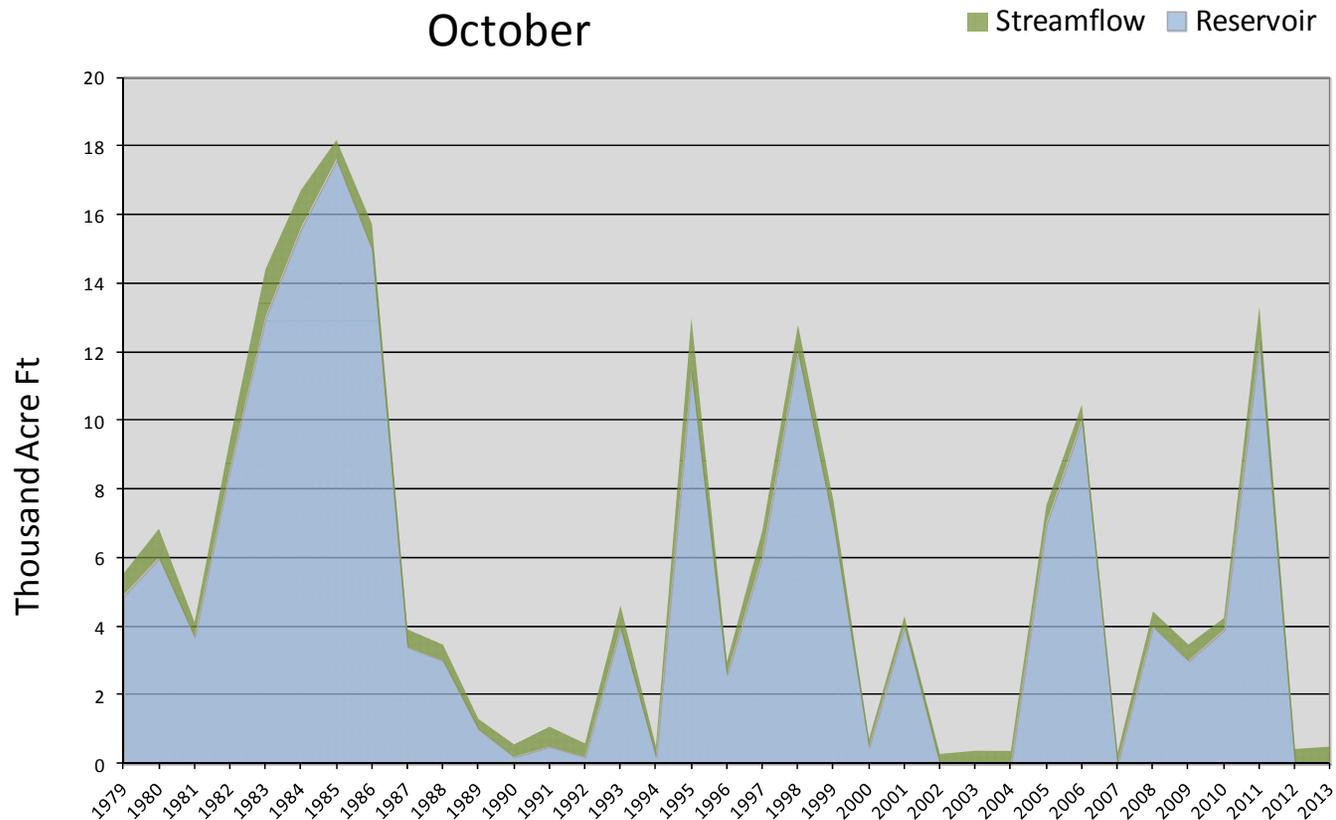
October 1, 2013

Water Availability Index

Basin or Region	Sept EOM* Gunnison Reservoir	September accumulated flow Manti Creek (observed)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Manti Creek	0.0	0.5	0.5	-2.78	17	04,03,94,90

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

San Pitch River - Water Availability Index October

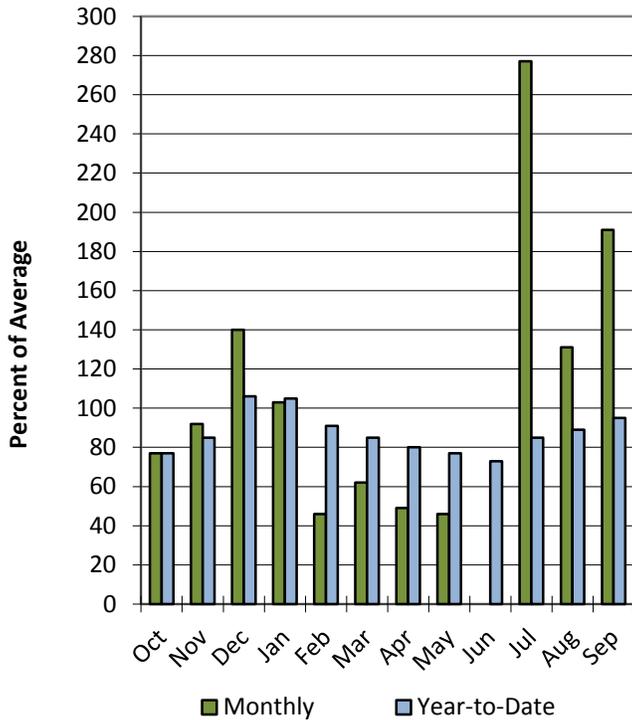


Beaver River Basin

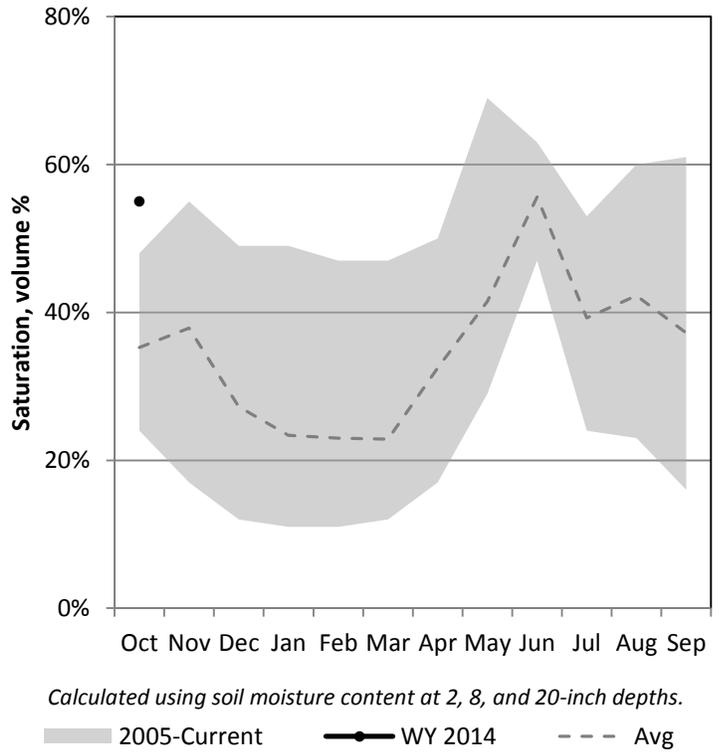
10/1/2013

Precipitation in September was much above average at 191%, which brings the seasonal accumulation (Oct-Sep) to 95% of average. Soil moisture is at 55% compared to 47% last year. Reservoir storage is at 18% of capacity, compared to 19% last year. The water availability index for the Beaver River is 63%.

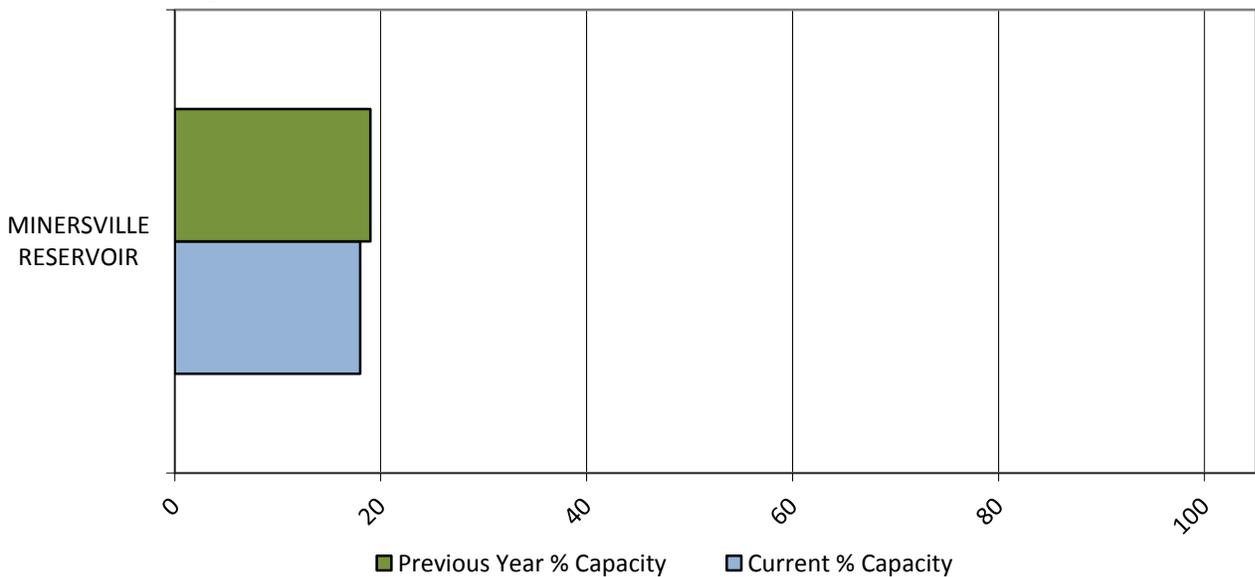
Precipitation



Soil Moisture



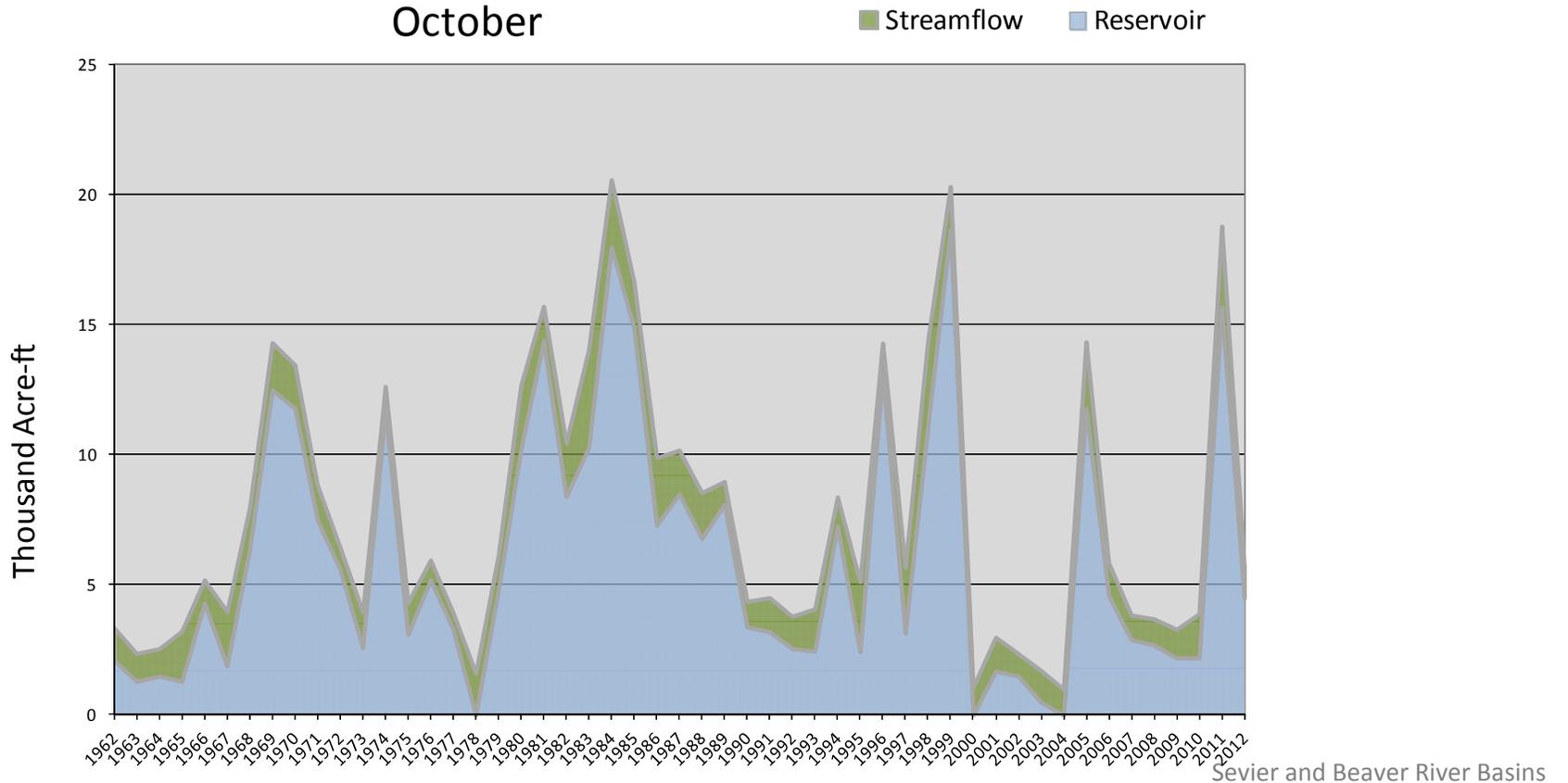
Reservoir Storage



October 1, 2013		Water Availability Index				
Basin or Region	September EOM* Minersville Reservoir	September accumulated flow Beaver River at Beaver (observed)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Beaver	4.1	1.9	6.0	0.39	53	06,76,79,72

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

Beaver River - Water Availability Index
October

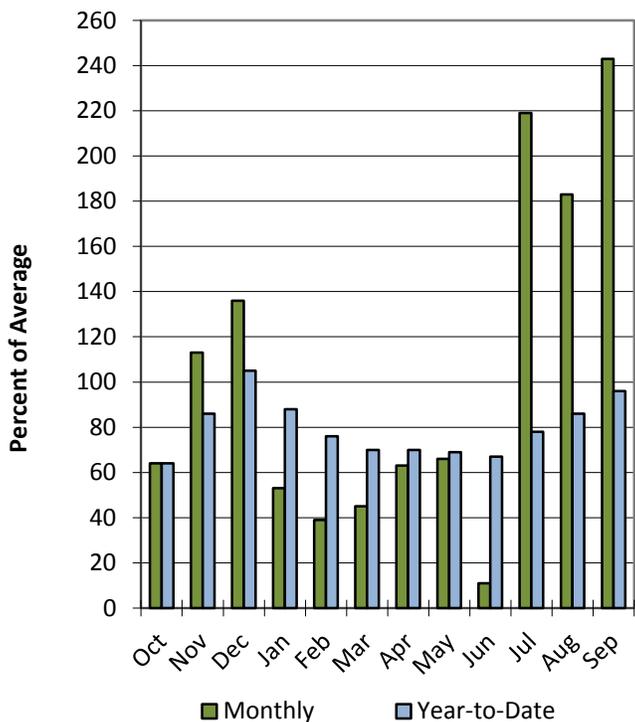


Southwestern Utah Basin

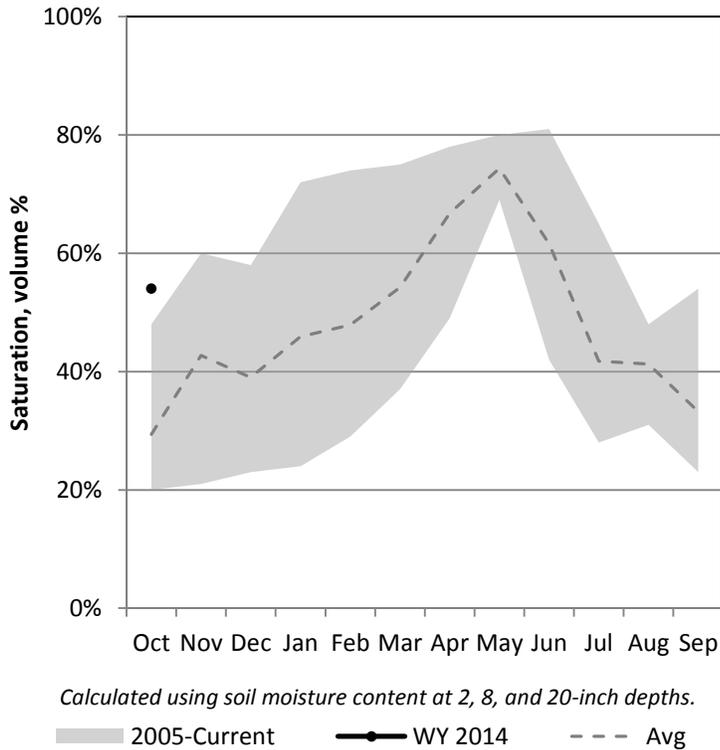
10/1/2013

Precipitation in September was much above average at 243%, which brings the seasonal accumulation (Oct-Sep) to 96% of average. Soil moisture is at 54% compared to 38% last year. Reservoir storage is at 45% of capacity, compared to 57% last year. The water availability index for the Virgin River is 37%.

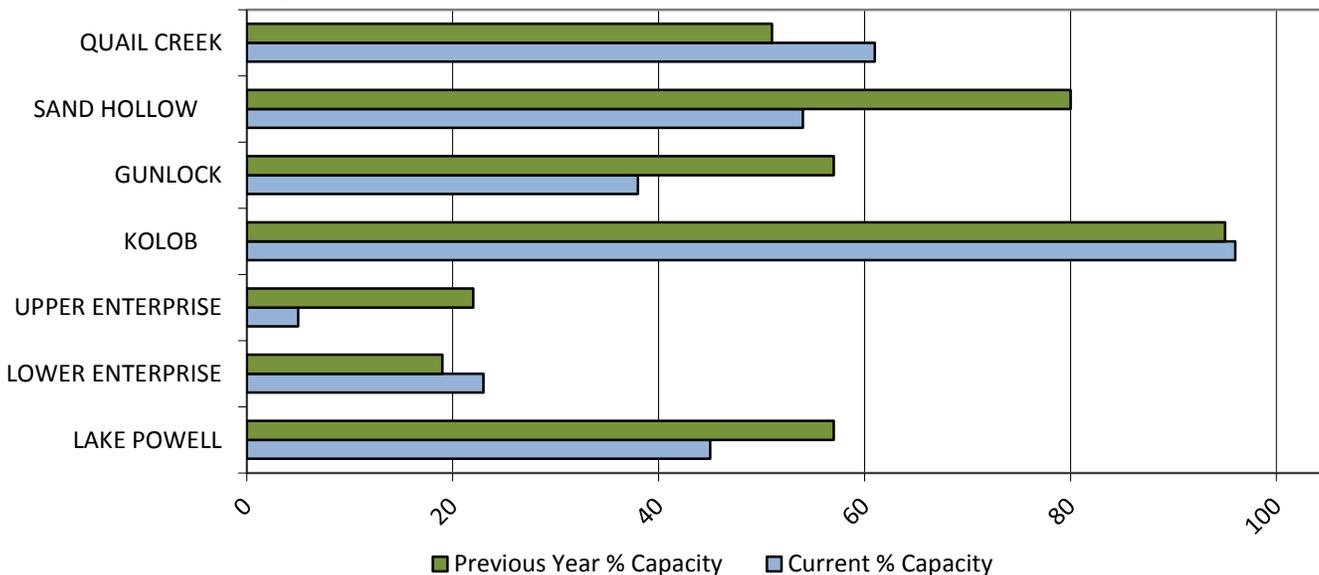
Precipitation



Soil Moisture



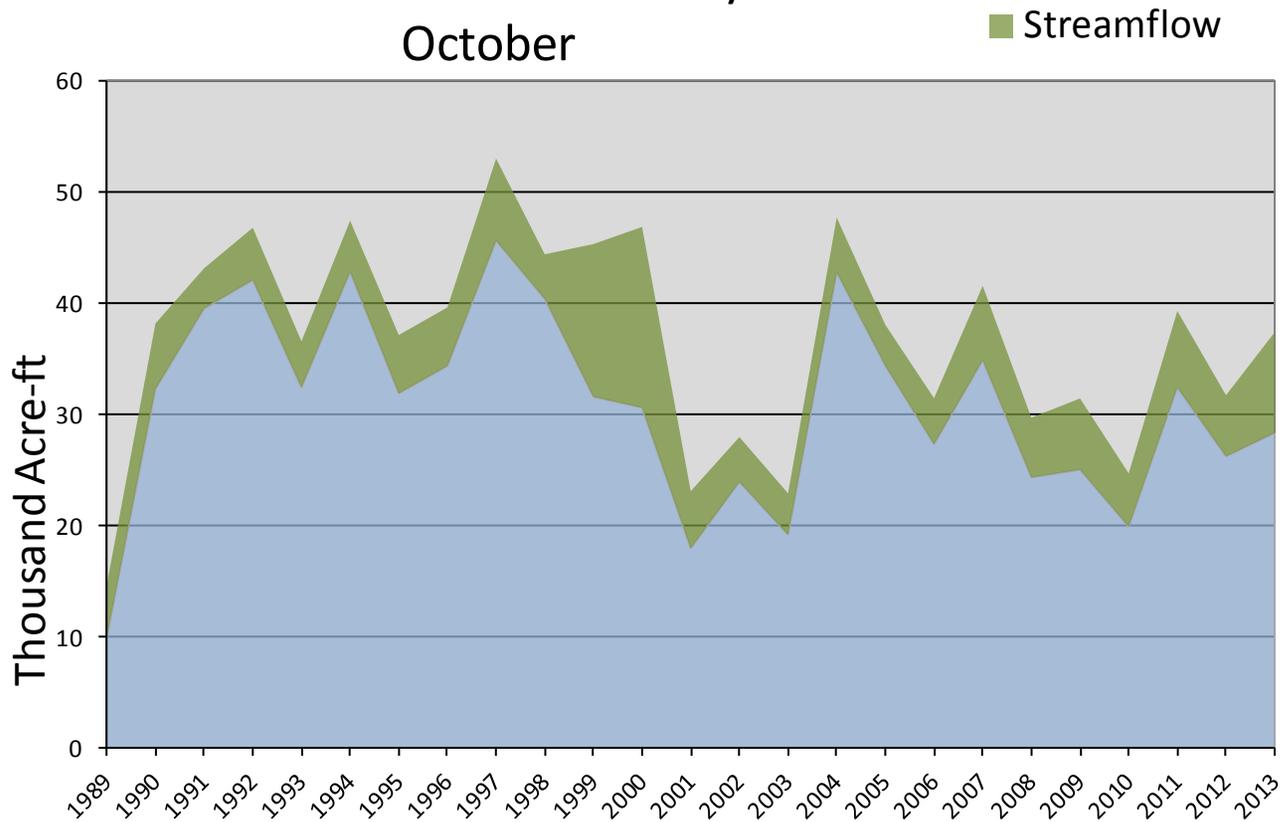
Reservoir Storage



October 1, 2013		Water Availability Index				
Basin or Region	September EOM* Reservoir	September 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>		%	
Southwest	28.3	9.1	37.4	-1.17	36	09, 06, 93, 95

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

Southwest - Water Availability Index
October



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**Utah Climate and
Water Report**
Natural Resources Conservation Service
Salt Lake City, UT

