NRCS
Natural Resources Conservation Service

Utah Climate and Water Report

February, 2013

Upper Joes Valley SNOTEL, Utah

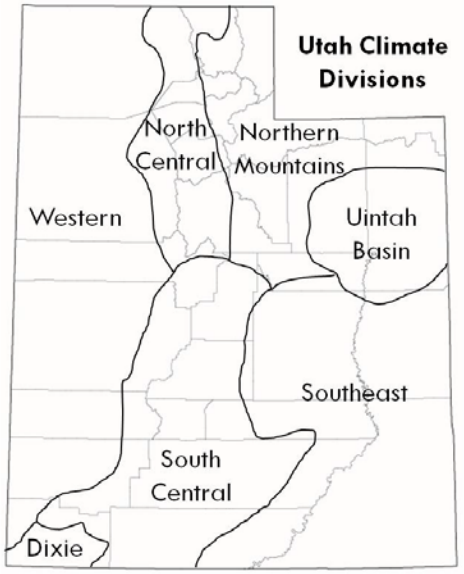
Photo by Randy Julander

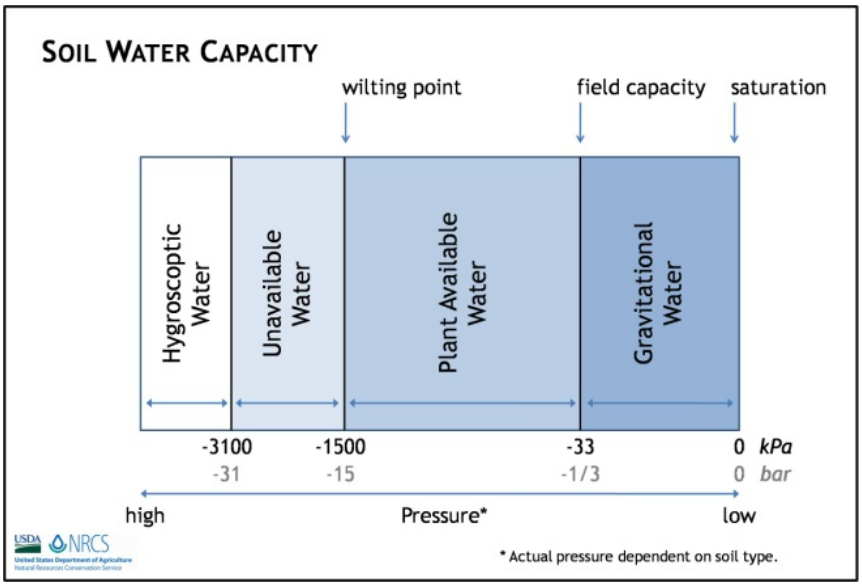
Climate and Water Information

Soil Climate Analysis Network

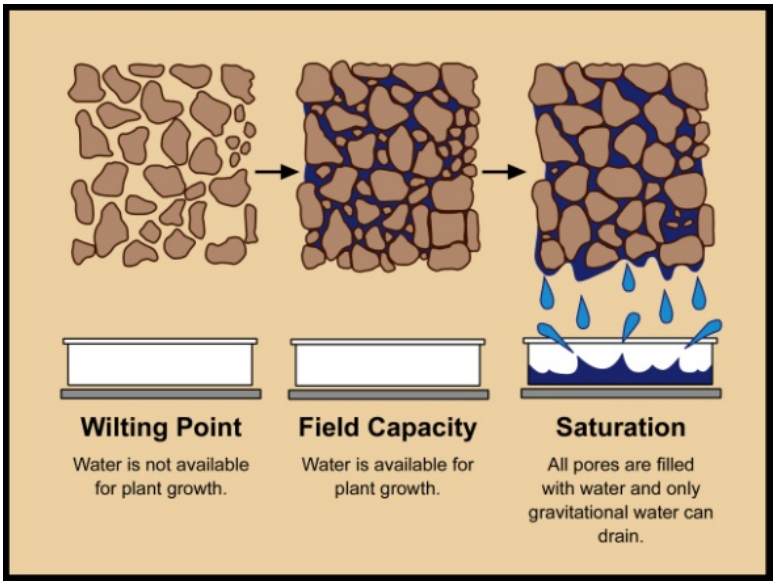
Soil Climate Analysis Network (SCAN) stations are primarily located on low- to mid-elevation, agriculturally important landscapes that maintain representative soils. Elevations range from 3,000 to 7,000 ft. The SCAN network provides real-time soil moisture and temperature data coupled with additional 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

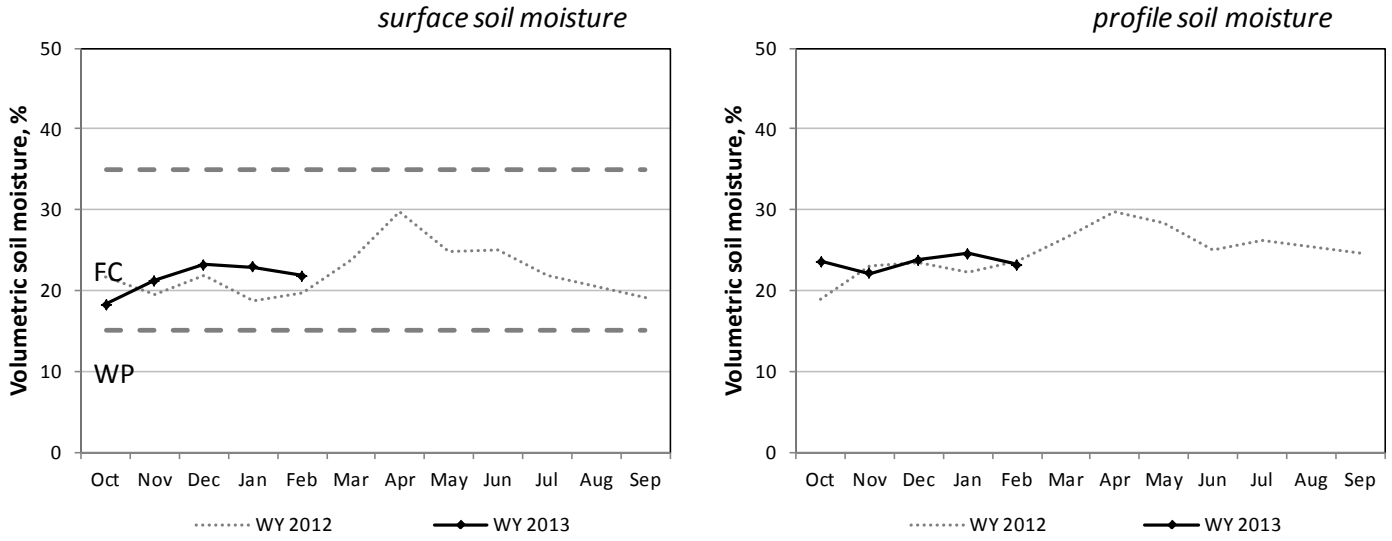
North Central

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 %*					*^{o} F*				
NORTH CENTRAL												
Blue Creek	3.5	0.6	25	24	22	20	16	32	33	34	36	40
Cache Junction	6.2	1.1	16	17	27	31	28	30	31	30	33	38
Grantsville	3.4	0.6	13	19	25	25		32	33	36	40	

* 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

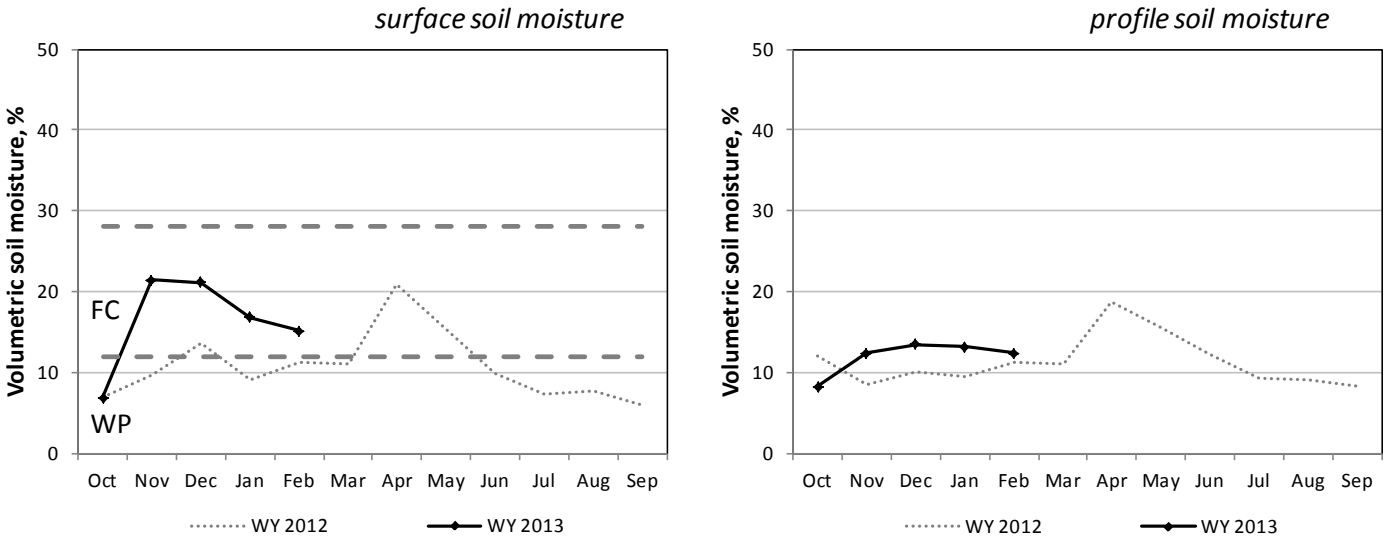
Northern Mountains

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 %*					*^{o}F*				
NORTHERN MOUNTAINS												
Chicken Ridge	4.6	0.0	9	12	15	18	11	31	32	32	34	36
Buffalo Jump	4.0	0.2	7	10	10	7	-	29	30	30	32	-
Morgan	7.5	0.9	23	23	24	13	8	32	32	32	33	33

* 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

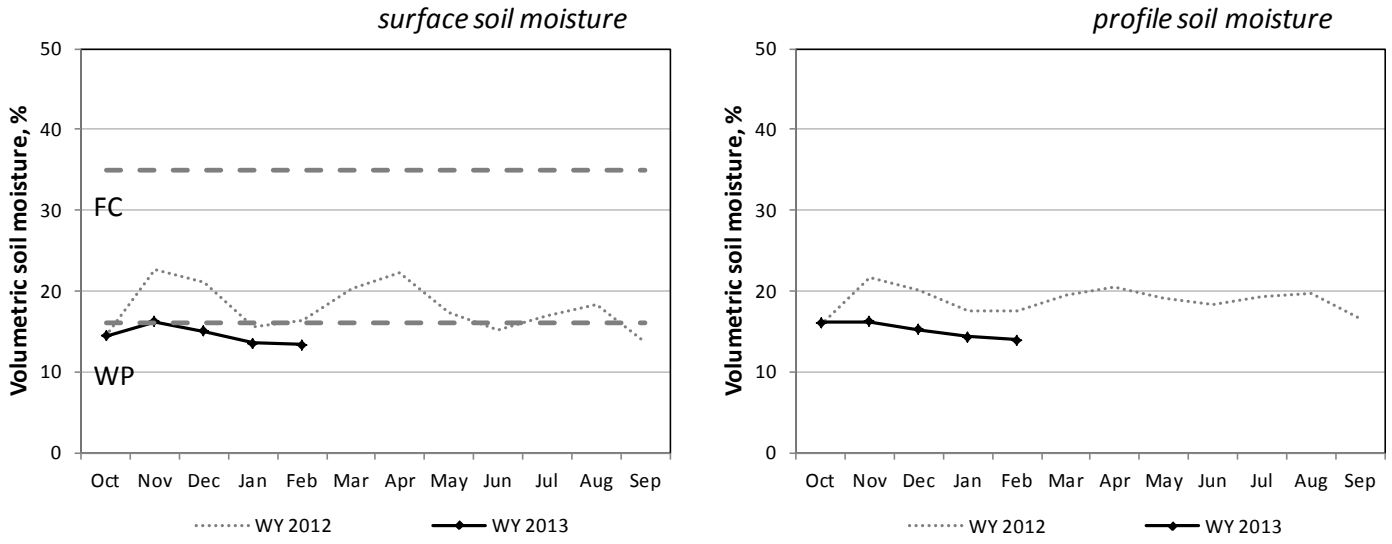
Uintah Basin

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 %*					*^{o} F*				
UINTAH BASIN												
Mountain Home	2.0	0.2	14	18	20	17	9	31	32	32	35	37
Little Red Fox	1.2	0.2	4	10	15	19	20	26	30	30	32	35
Split Mountain	2.2	0.5	6	16	11	10	10	27	28	28	32	35

* 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.

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

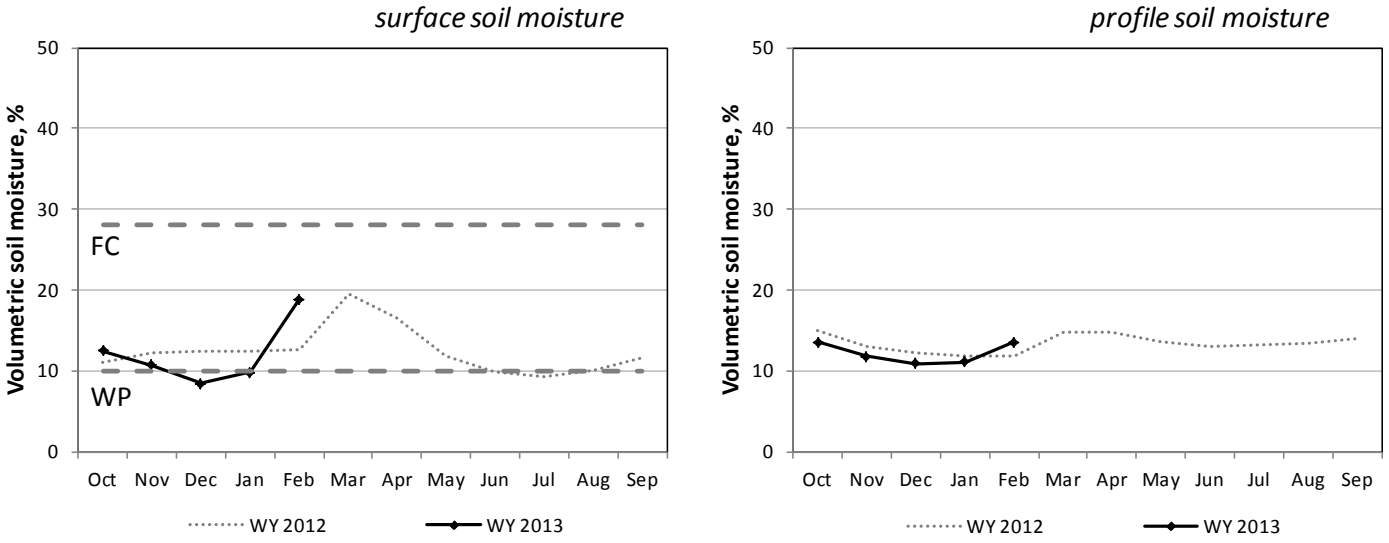
Southeast

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 %*					*^{o} F*				
SOUTHEAST												
Price	2.2	0.6	4	7	18	13	16	29	30	30	33	36
Green River	1.3	0.6	15	14	14	3	7	32	31	31	33	36
Harm's Way	2.2	1.2	16	2	26	12	5	33	32	33	36	40
West Summit	1.9	1.1	20	23	12	13	16	32	32	33	34	37
Eastland	2.5	1.4	27	25	21	20	19	33	33	34	36	39
Alkali Mesa	3.1	1.9	23	29	31	15	11	32	32	32	35	37
McCracken Mesa	3.3	1.9	21	27	26	13	11	33	35	35	37	41

* 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.

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

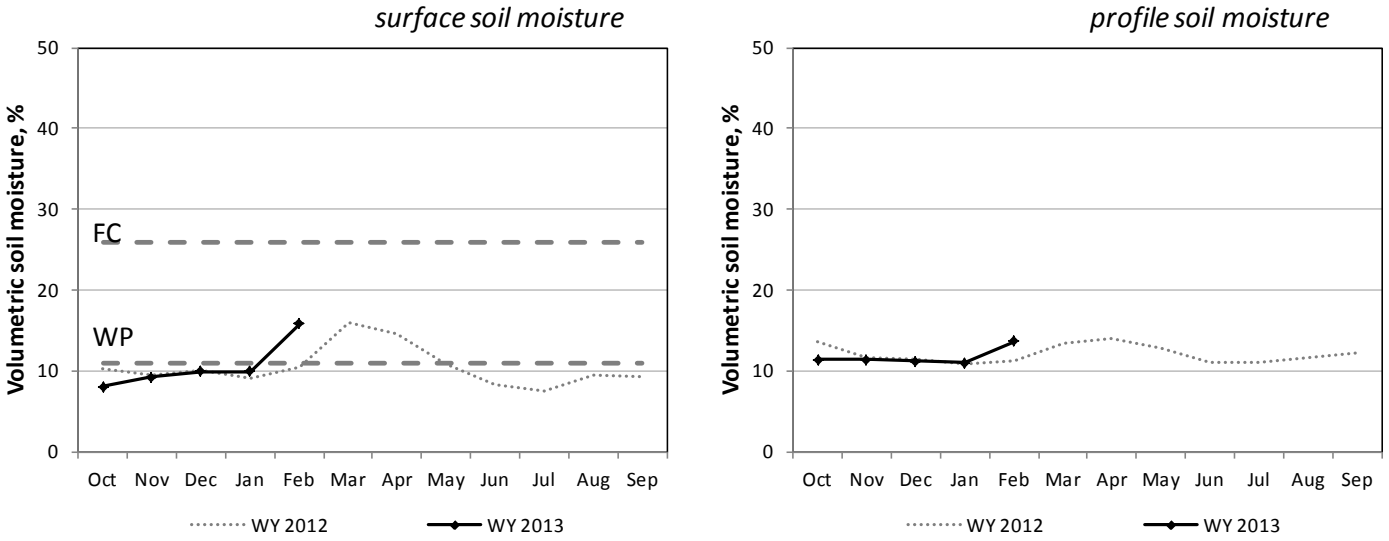
South Central

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 %*					*^{o} F*				
SOUTH CENTRAL												
Nephi	3.5	0.7	31	33	30	7	0	32	32	33	36	40
Ephraim	3.1	0.7	18	22	29	16	32	32	32	33	34	39
Holden	3.4	0.6	11	12	11	15	11	32	32	32	33	39
Milford	2.7	0.6	32	31	26	24	15	32	32	33	36	41
Manderfield	4.1	1.0	17	26	25	22	8	32	32	32	35	38
Circleville	1.2	0.5	13	4	5	7	7	31	30	31	35	
Panguitch	1.8	0.6	17	26	12	18	29	31	32	32	34	38
Cave Valley	6.8	1.3	1	5	7	6	8	32	32	32	34	36
Vermillion	3.4	1.2	0	9	9	10	7	32	32	34	35	38
Spooky	2.0	0.6	6	8	3	10	0	32	32	33	36	39

* 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.

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

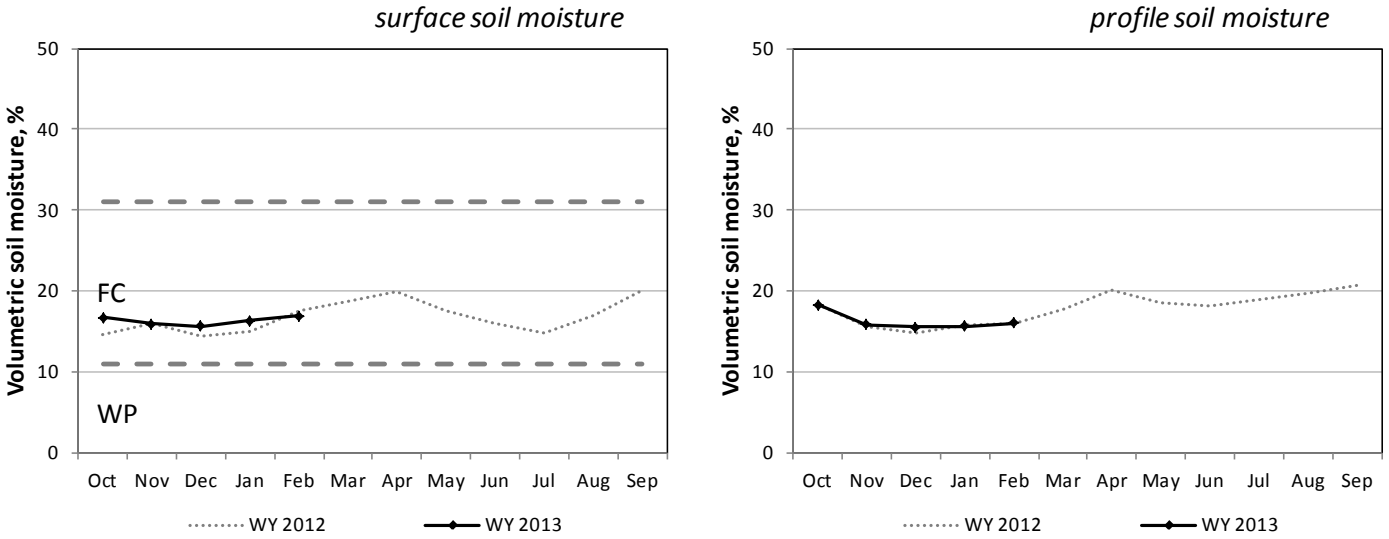
Western and Dixie

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	3.5	0.6	14	16	11	14	15	33	33	35	37	40
Park Valley	2.5	0.7	2	6	13	27	24	31	30	31	34	38
Goshute	2.7	0.6	17	25	43	34	26	31	32	32	33	38
Dugway												
Tule Valley	2.3	0.4	15	13	18	21	8	30	31	32	33	37
Hal's Canyon	1.0	0.3	7	17	12	9	8	32	32	32	34	38
Enterprise	2.7	0.5	27	33	35	13	14	31	31	32	33	38
DIXIE												
Sand Hollow	2.7	1.0	4	6	6	8	0	34	38	40	42	46

* 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.

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

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

The U.S. Department of Agriculture (USDA) prohibits discrimination against its customers. If you believe you experienced discrimination when obtaining services from USDA, participating in a USDA program, or participating in a program that receives financial assistance from USDA, you may file a complaint with USDA. Information about how to file a discrimination complaint is available from the Office of the Assistant Secretary for Civil Rights. USDA prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex (including gender identity and expression), marital status, familial status, parental status, religion, sexual orientation, political beliefs, genetic information, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) To file a complaint of discrimination, complete, sign, and mail a program discrimination complaint form, available at any USDA office location or online at www.ascr.usda.gov, or write to: USDA Office of the Assistant Secretary for Civil Rights 1400 Independence Avenue, SW. Washington, DC 20250-9410 Or call toll free at (866) 632-9992 (voice) to obtain additional information, the appropriate office or to request documents. Individuals who are deaf, hard of hearing, or have speech disabilities may contact USDA through the Federal Relay service at (800) 877-8339 or (800) 845-6136 (in Spanish). USDA is an equal opportunity provider, employer, and lender. Persons with disabilities who require alternative means for communication of program information (e.g., Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

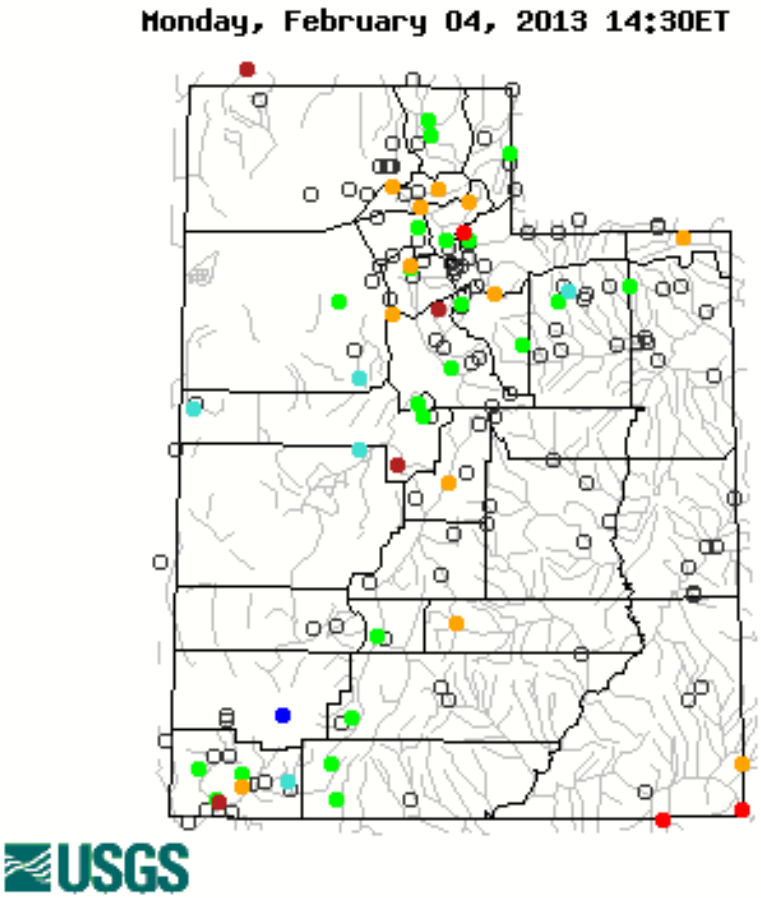
Utah Hydrologic Summary

February 1, 2013

Current Conditions

Soil moisture conditions are much below normal in southeastern Utah and near normal in most other areas. January precipitation was below to much below normal across the state (58%-87%). Snow packs across the state are below to near average. Reservoir storage is 21% less than last year statewide. Runoff is expected to be below to near average. Water supply conditions are overall below to near average across the state.

Current Utah Streamflow - Courtesy US Geological Survey



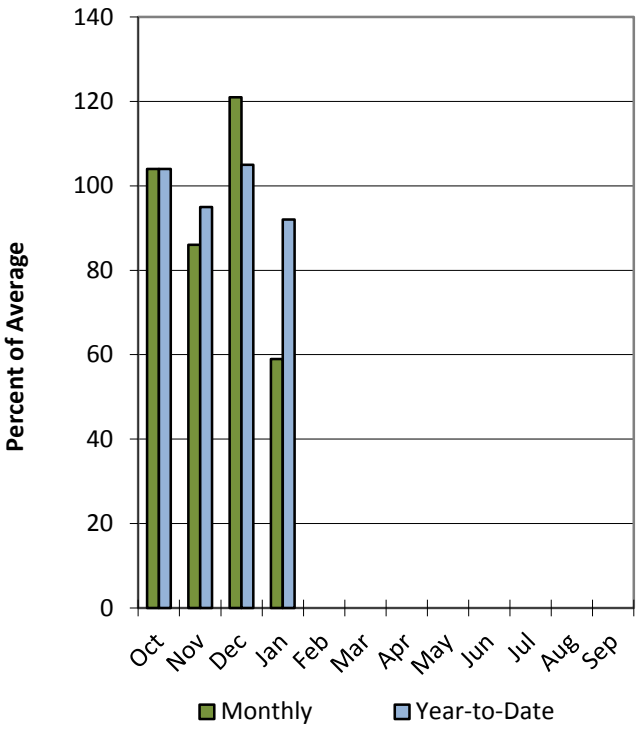
Explanation - Percentile classes							
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not ranked

Bear River Basin

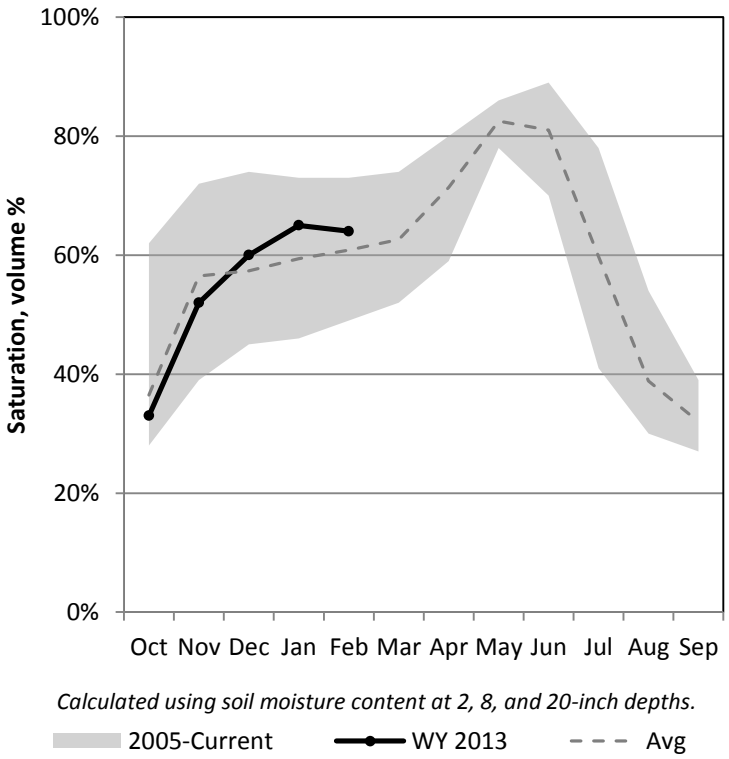
2/1/2013

Precipitation in January was much below average at 59%, which brings the seasonal accumulation (Oct-Jan) to 92% of average. Soil moisture is at 64% compared to 52% last year. Reservoir storage is at 65% of capacity, compared to 84% last year. The water availibility index for the Bear River is 50%.

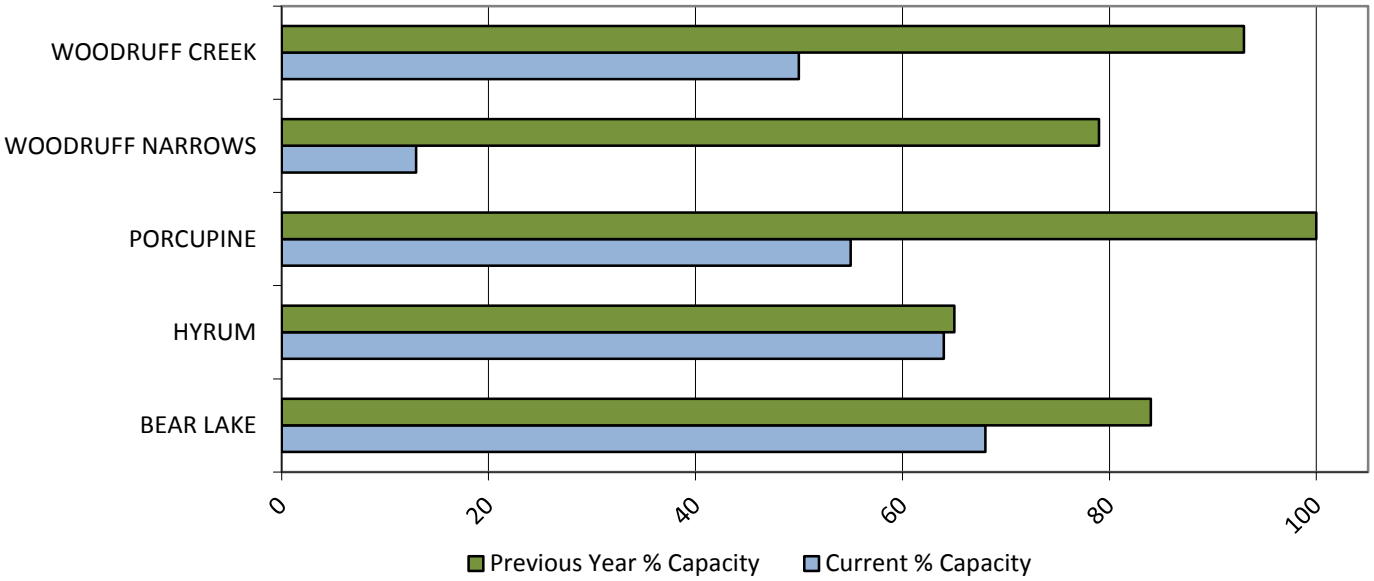
Precipitation



Soil Moisture

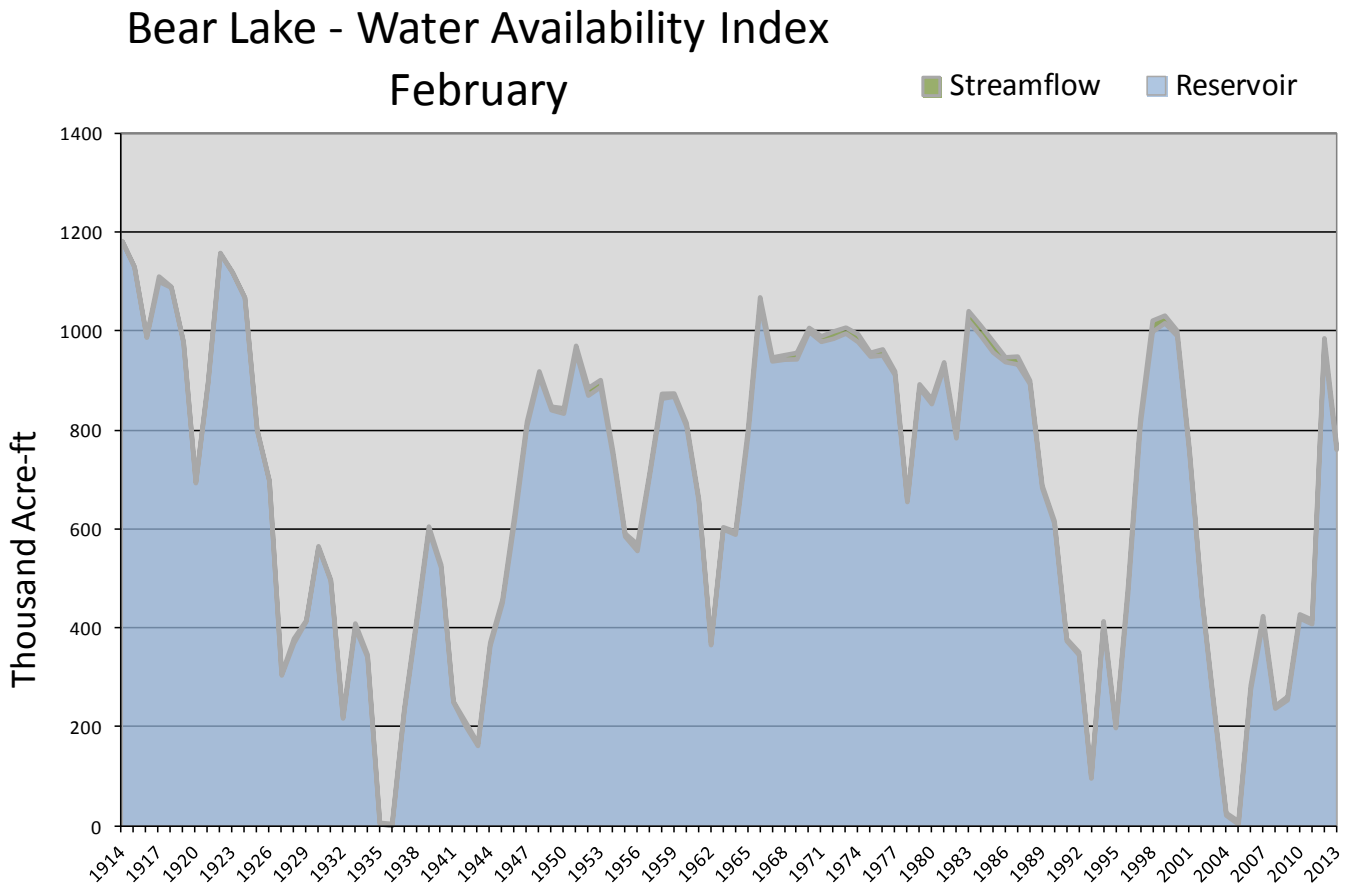


Reservoir Storage



February 1, 2013	**Water Availability Index**					
Basin or Region	January EOM* Bear Lake	January accumulated inflow to Bear Lake (*observed*)	Reservoir + Streamflow	WAI[#]	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Bear River	**761**	**8.6**	**770**	**0.04**	**50**	**54, 01, 82, 65**

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

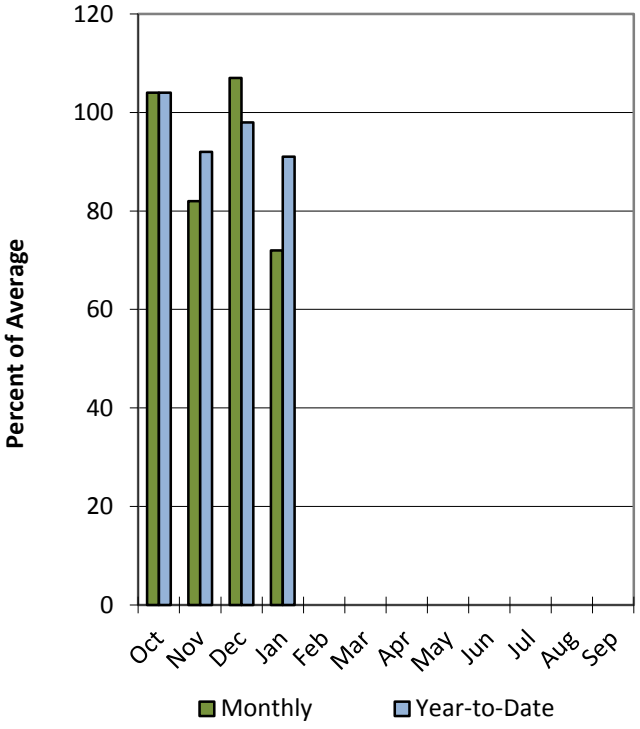


Weber & Ogden River Basins

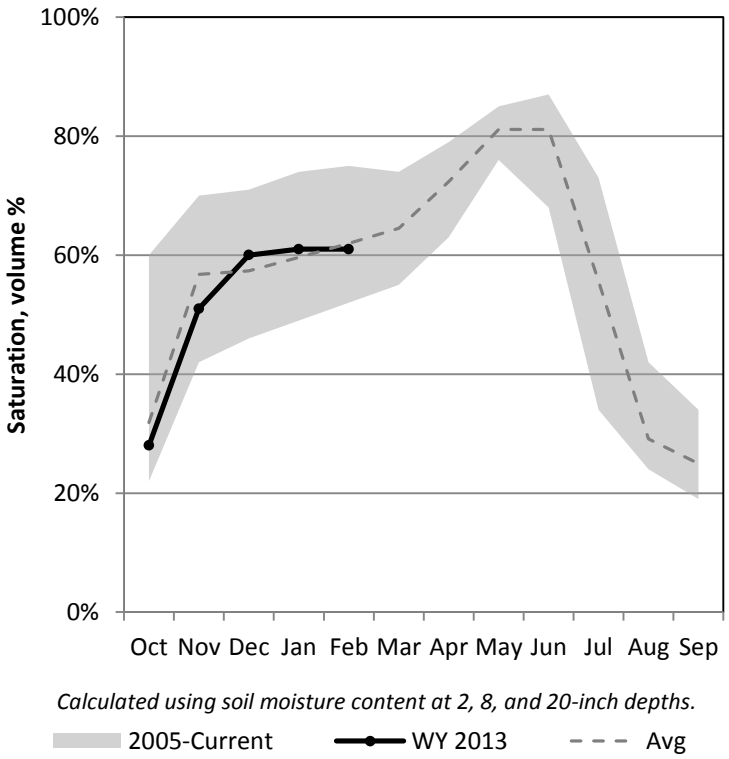
2/1/2013

Precipitation in January was below average at 72%, which brings the seasonal accumulation (Oct-Jan) to 91% of average. Soil moisture is at 61% compared to 54% last year. Reservoir storage is at 43% of capacity, compared to 71% last year. The water availibility index for the Ogden River is 38% and 22% for the Weber River.

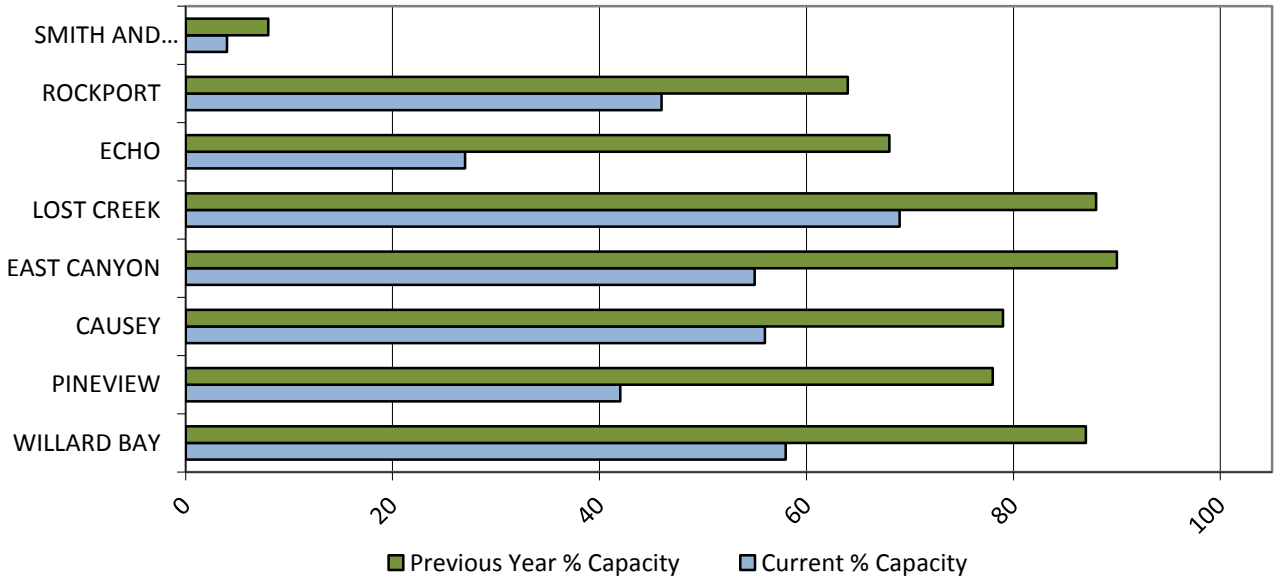
Precipitation



Soil Moisture

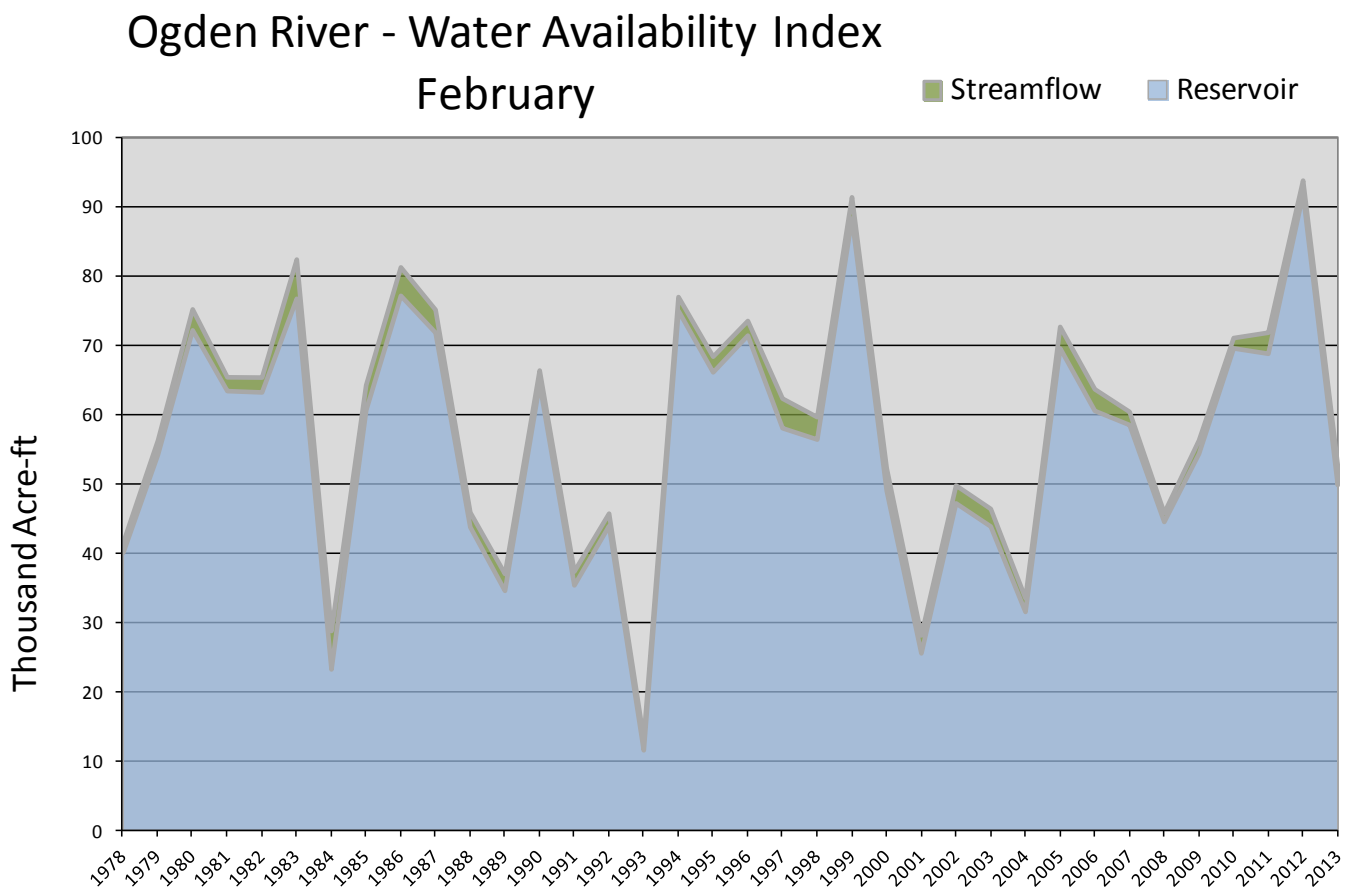


Reservoir Storage



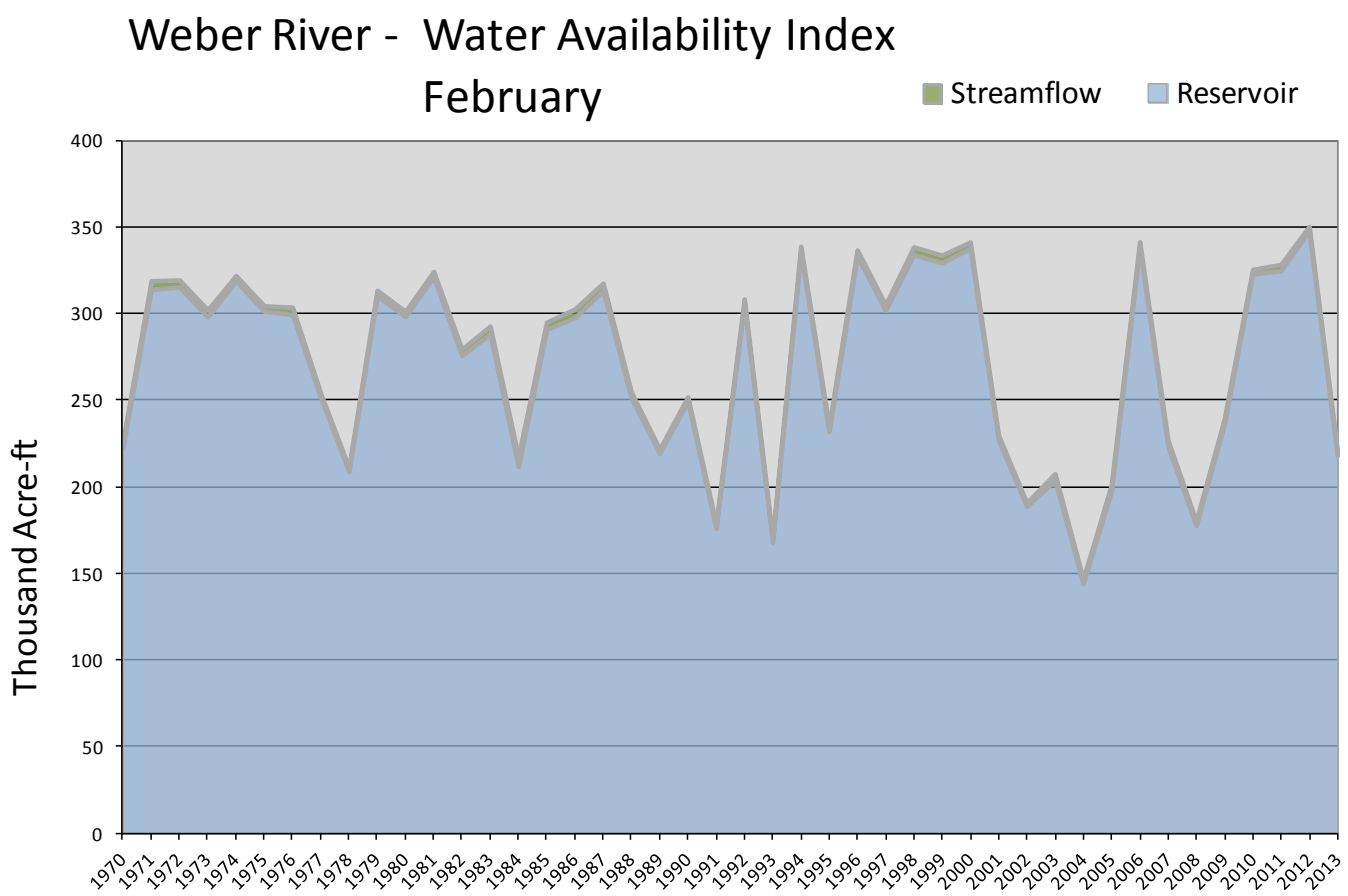
February 1, 2013	**Water Availability Index**					
Basin or Region	January EOM* Pine View & Causey	January accumulated flow at South Fork Ogden (*observed*)	Reservoir + Streamflow	WAI[#]	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Ogden River	**49.9**	**2.8**	**52.7**	**-1.01**	**38**	**02, 00, 79, 09**

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



February 1, 2013	**Water Availability Index**					
Basin or Region	January EOM* Reservoirs	January accumulated flow at Weber near Oakley (*observed*)	Reservoirs + Streamflow	WAI[#]	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Weber River	**218**	**3.0**	**221**	**-2.31**	**22**	**78, 84, 89, 70**

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

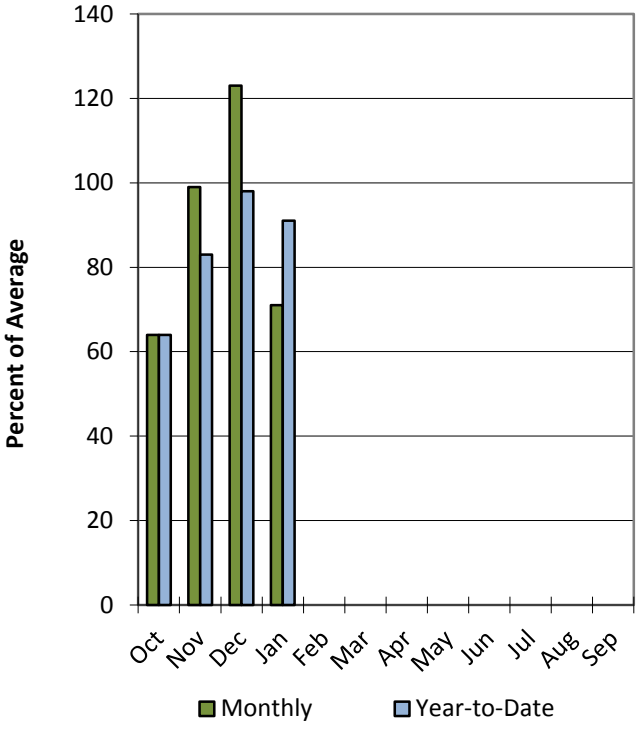


Provo & Jordan River Basins

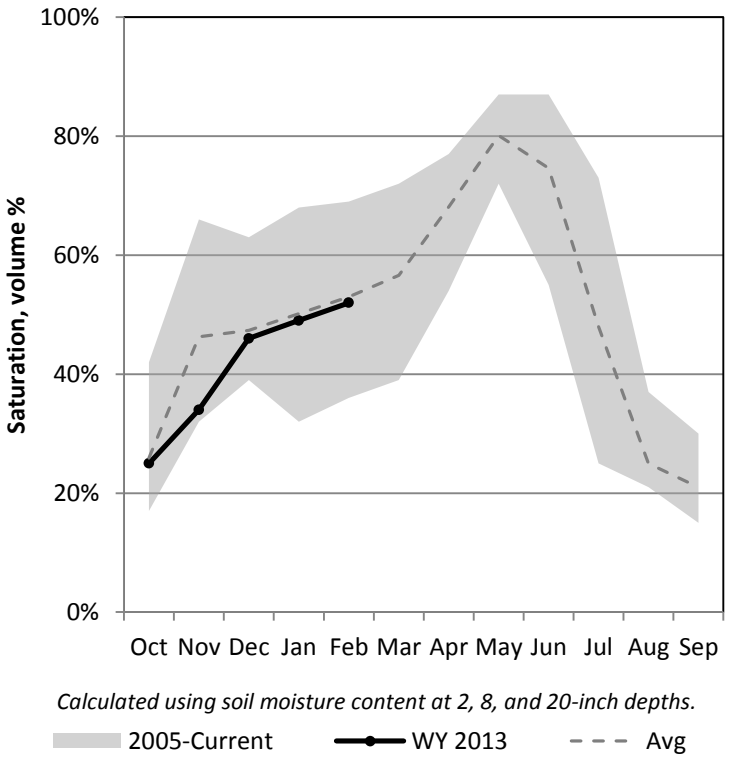
2/1/2013

Precipitation in January was below average at 71%, which brings the seasonal accumulation (Oct-Jan) to 91% of average. Soil moisture is at 52% compared to 39% last year. Reservoir storage is at 77% of capacity, compared to 93% last year. The water availibility index for the Provo River is 21%.

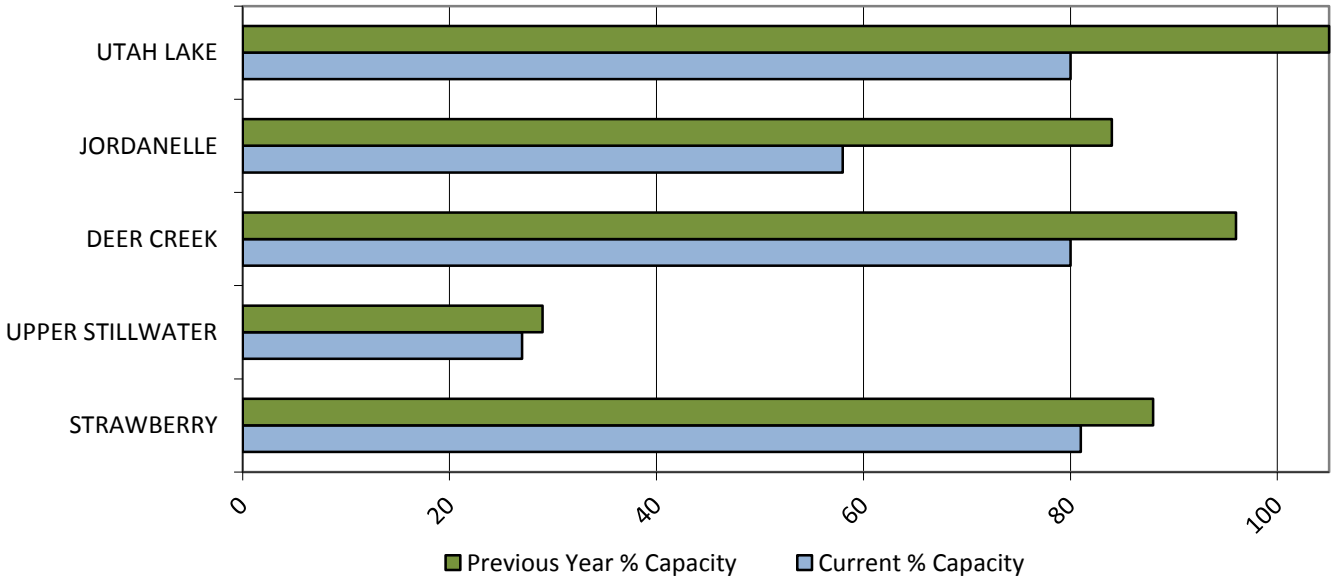
Precipitation



Soil Moisture

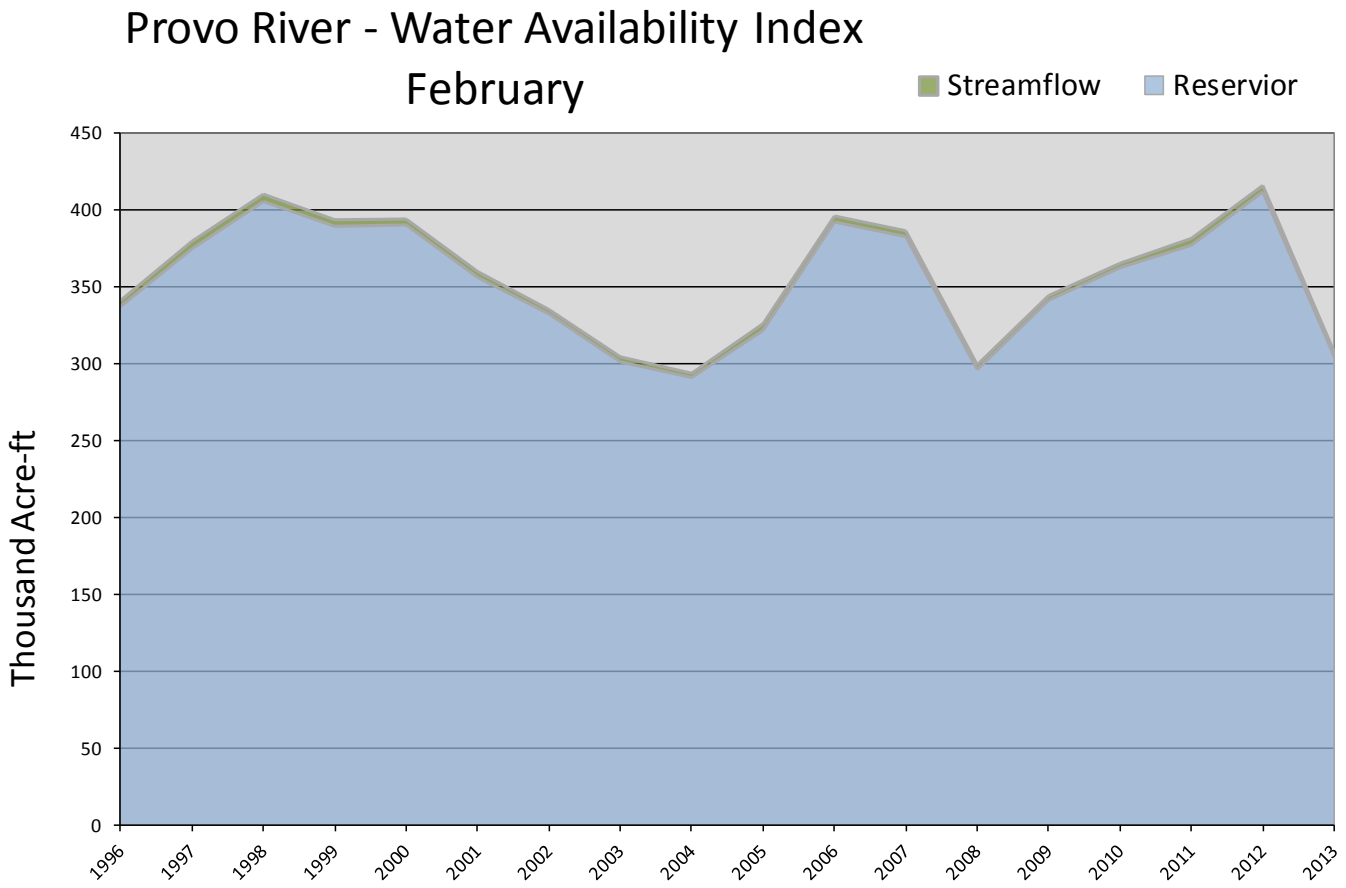


Reservoir Storage



February 1, 2013	**Water Availability Index**					
Basin or Region	January EOM* Deer Creek, Jordanelle	January accumulated flow Provo River at Woodland (*observed*)	Reservoir + Streamflow	WAI[#]	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Provo	**305**	**2.8**	**307**	**-2.41**	**21**	**08,03,05,02**

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

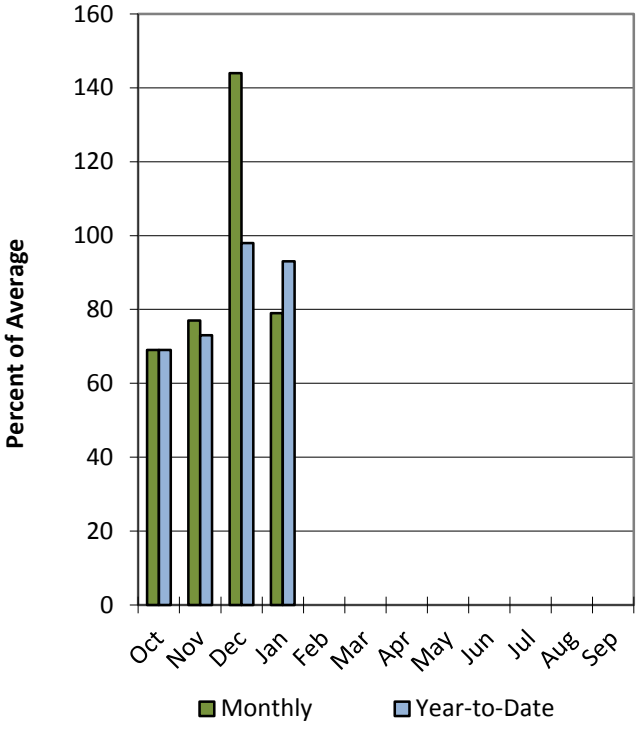


Tooele & Vernon Creek Basins

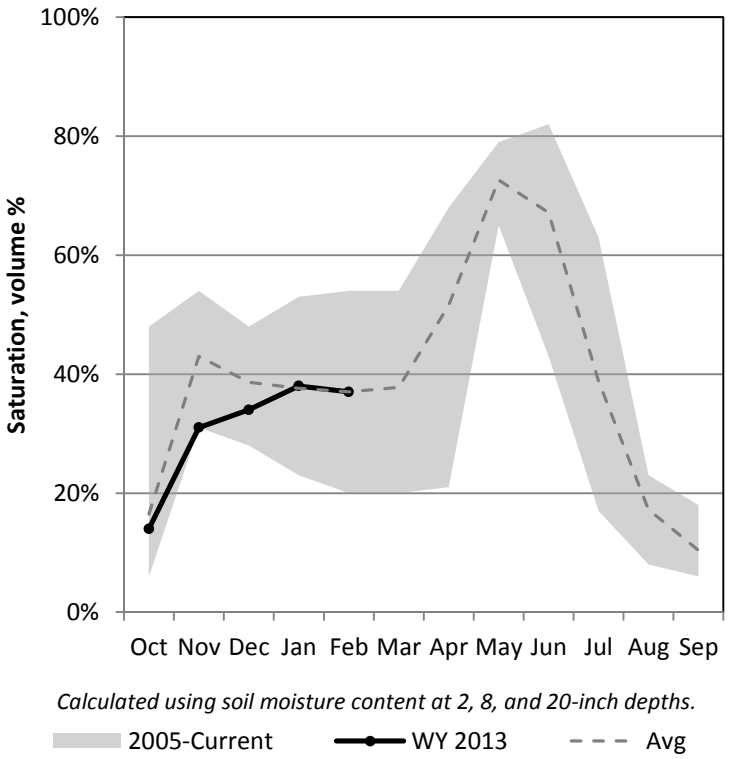
2/1/2013

Precipitation in January was below average at 79%, which brings the seasonal accumulation (Oct-Jan) to 93% of average. Soil moisture is at 37% compared to 24% last year. Reservoir storage is at 27% of capacity, compared to 76% last year.

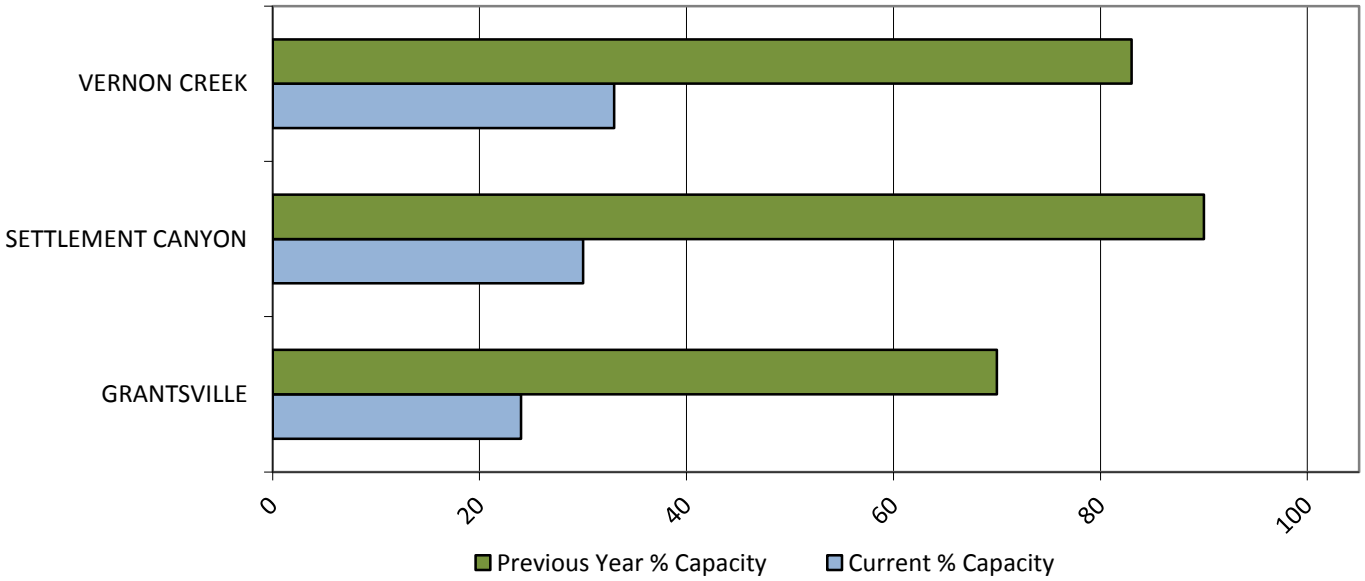
Precipitation



Soil Moisture



Reservoir Storage

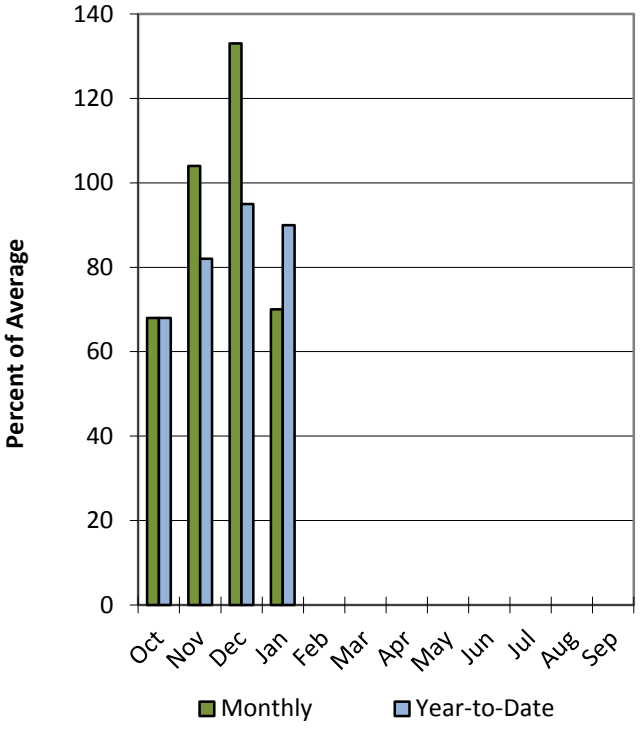


Northeastern Uintah Basin

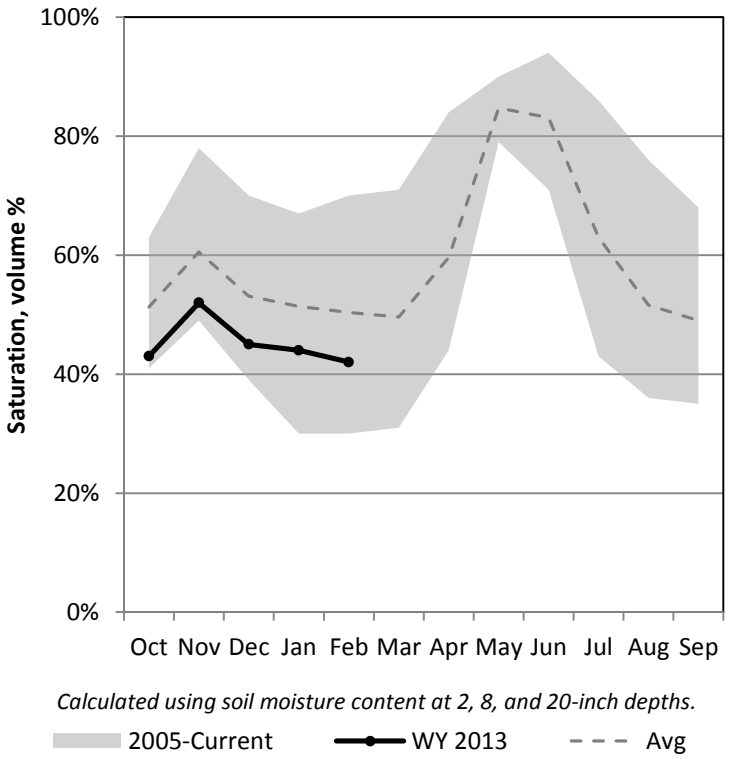
2/1/2013

Precipitation in January was below average at 70%, which brings the seasonal accumulation (Oct-Jan) to 90% of average. Soil moisture is at 42% compared to 61% last year. Reservoir storage is at 79% of capacity, compared to 89% last year.

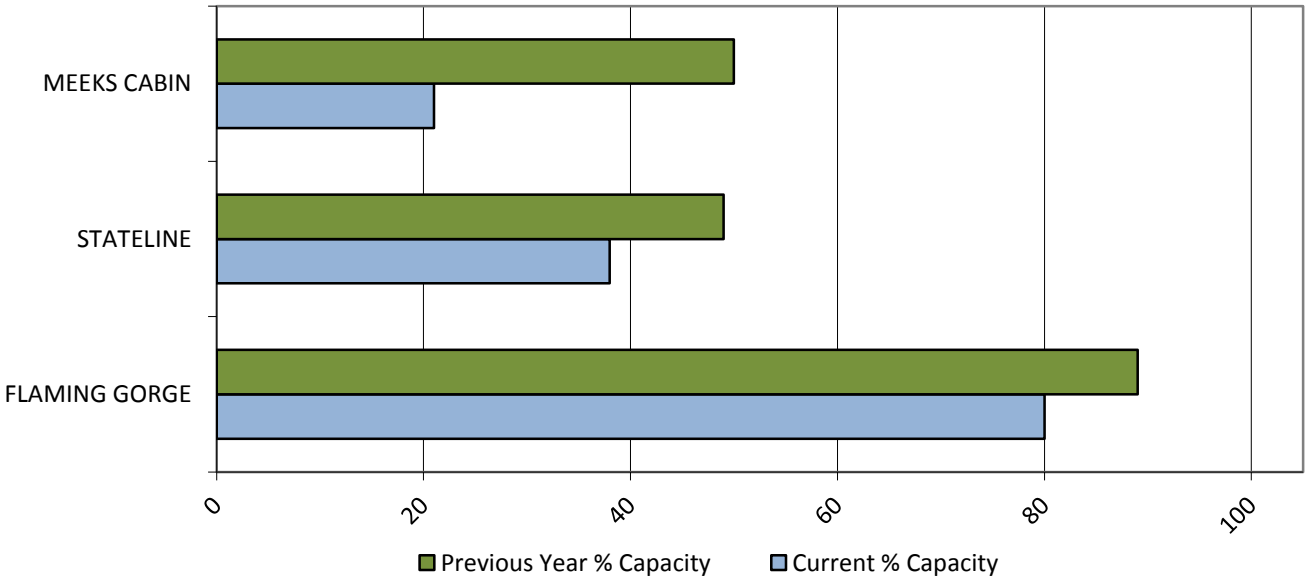
Precipitation



Soil Moisture



Reservoir Storage

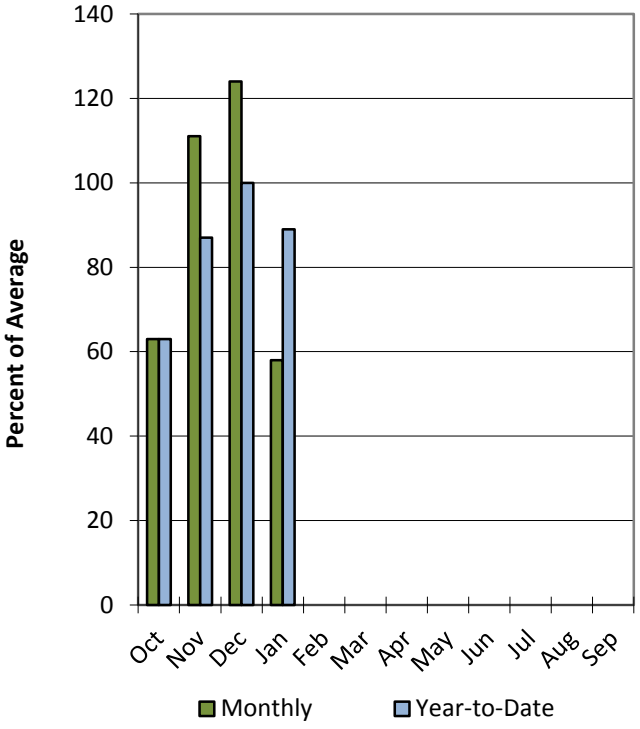


Duchesne River Basin

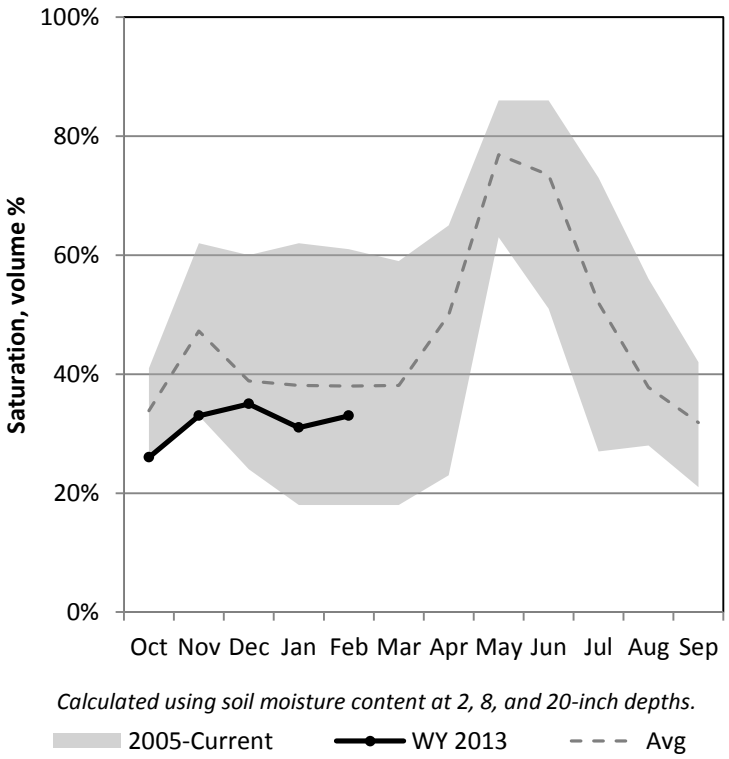
2/1/2013

Precipitation in January was much below average at 58%, which brings the seasonal accumulation (Oct-Jan) to 89% of average. Soil moisture is at 33% compared to 30% last year. Reservoir storage is at 76% of capacity, compared to 87% last year. The water availibility index for the Western Uintahs is 18% and 14% for the Eastern Uintahs.

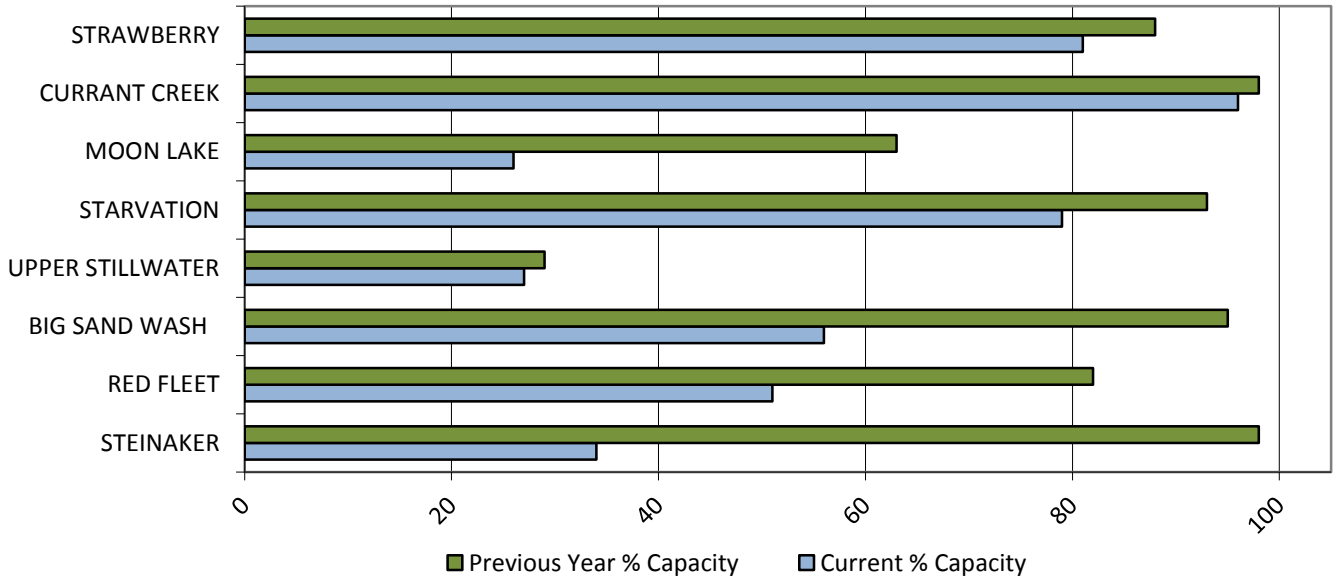
Precipitation



Soil Moisture

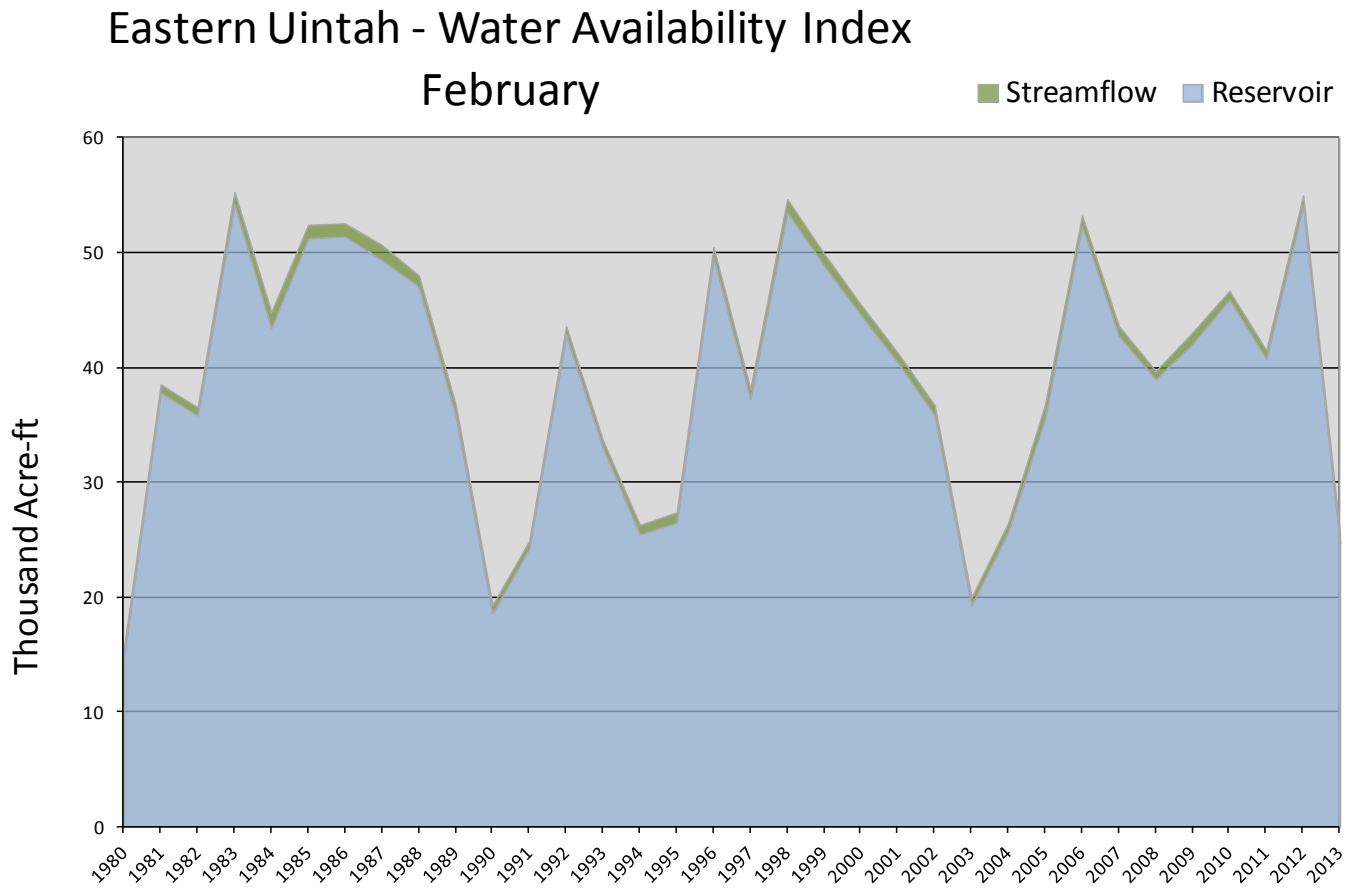


Reservoir Storage



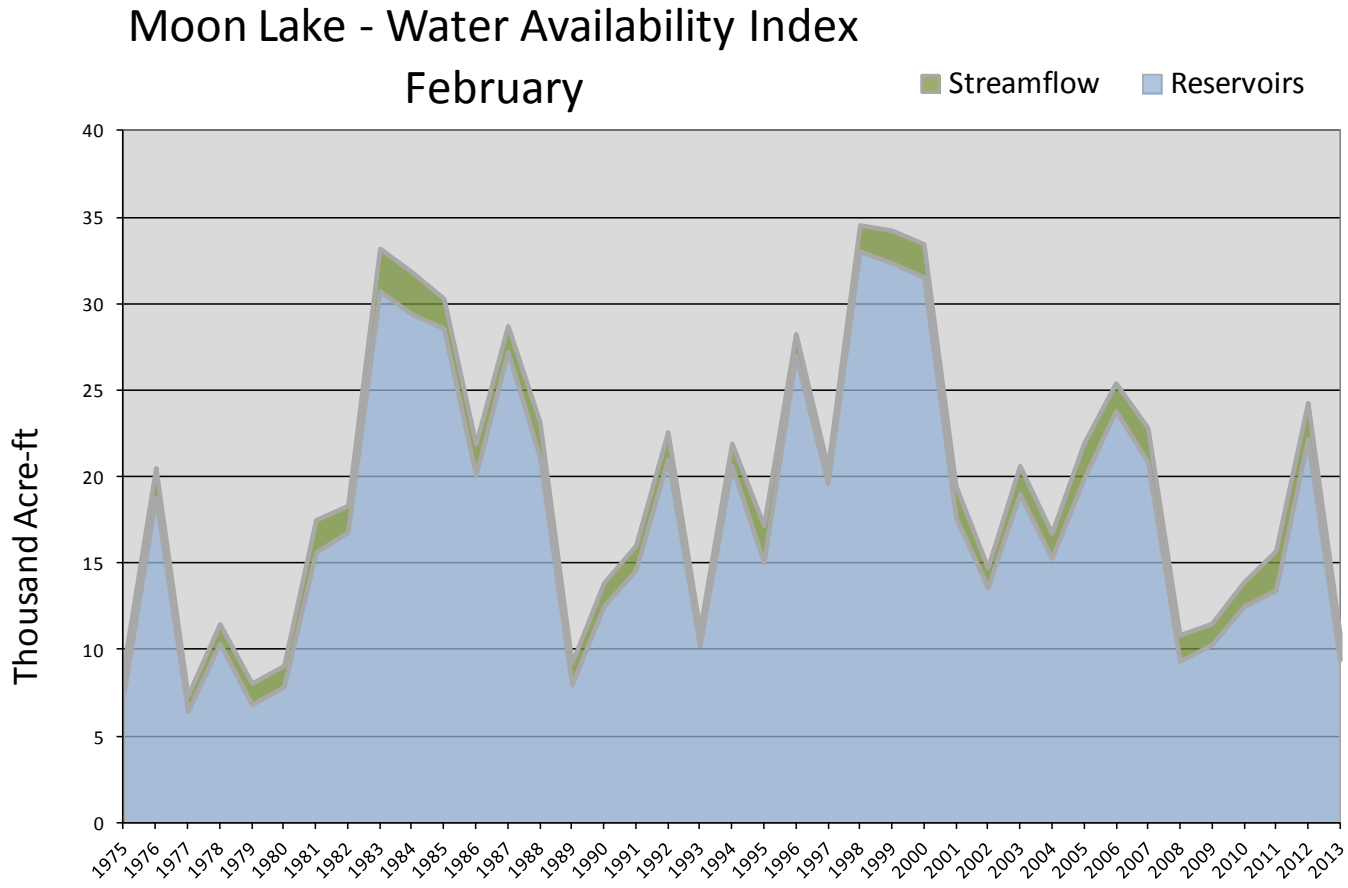
February 1, 2013	**Water Availability Index**					
Basin or Region	January EOM* Red Fleet and Steinaker	January accumulated flow Big Brush Creek (*observed*)	Reservoir + Streamflow	WAI[#]	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Eastern Uintah	**24.7**	**0.8**	**25.5**	**-2.98**	**14**	**03, 91, 94, 04**

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



February 1, 2013	**Water Availability Index**					
Basin or Region	January EOM* Moon Lake	January accumulated flow Lake Fork Creek above Moon Lake (*observed*)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Moon Lake	**9.4**	**1.5**	**10.9**	**-2.71**	**18**	**89, 08, 93, 78**

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

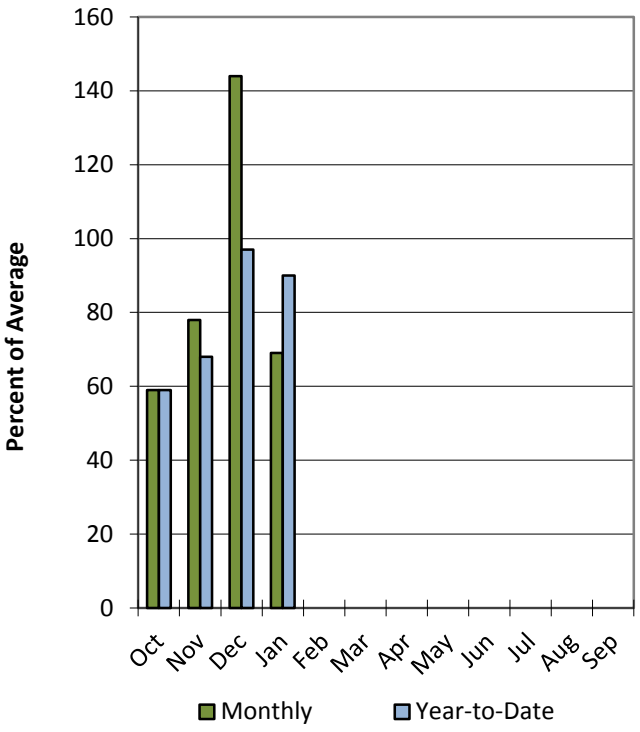


Price & San Rafael Basins

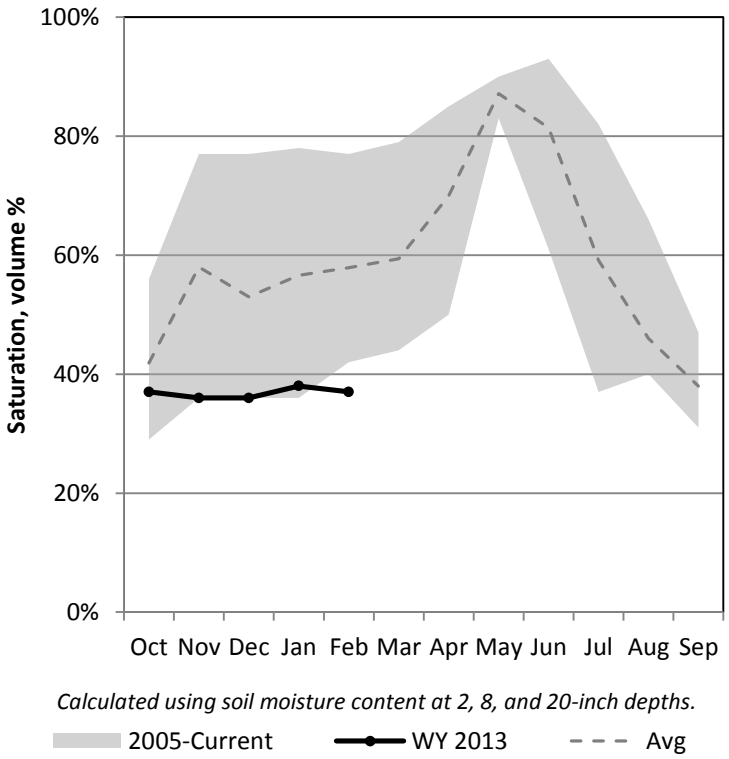
2/1/2013

Precipitation in January was much below average at 69%, which brings the seasonal accumulation (Oct-Jan) to 90% of average. Soil moisture is at 37% compared to 53% last year. Reservoir storage is at 49% of capacity, compared to 77% last year. The water availibility index for the Price River is 45%, and 31% for Joe's Valley.

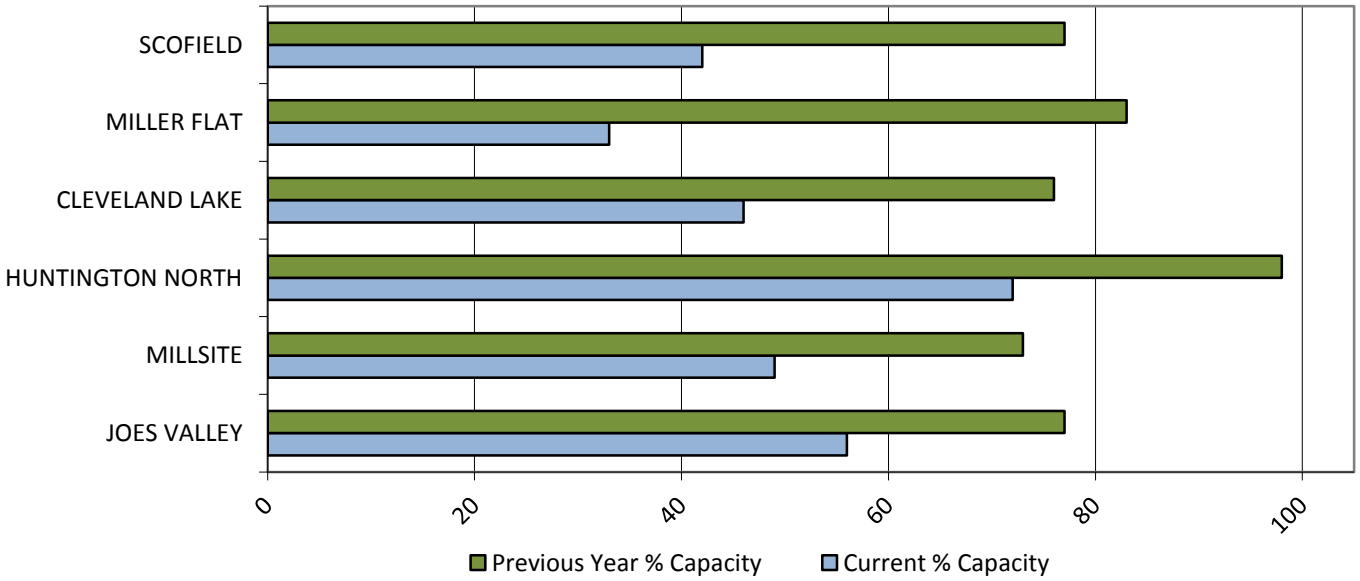
Precipitation



Soil Moisture

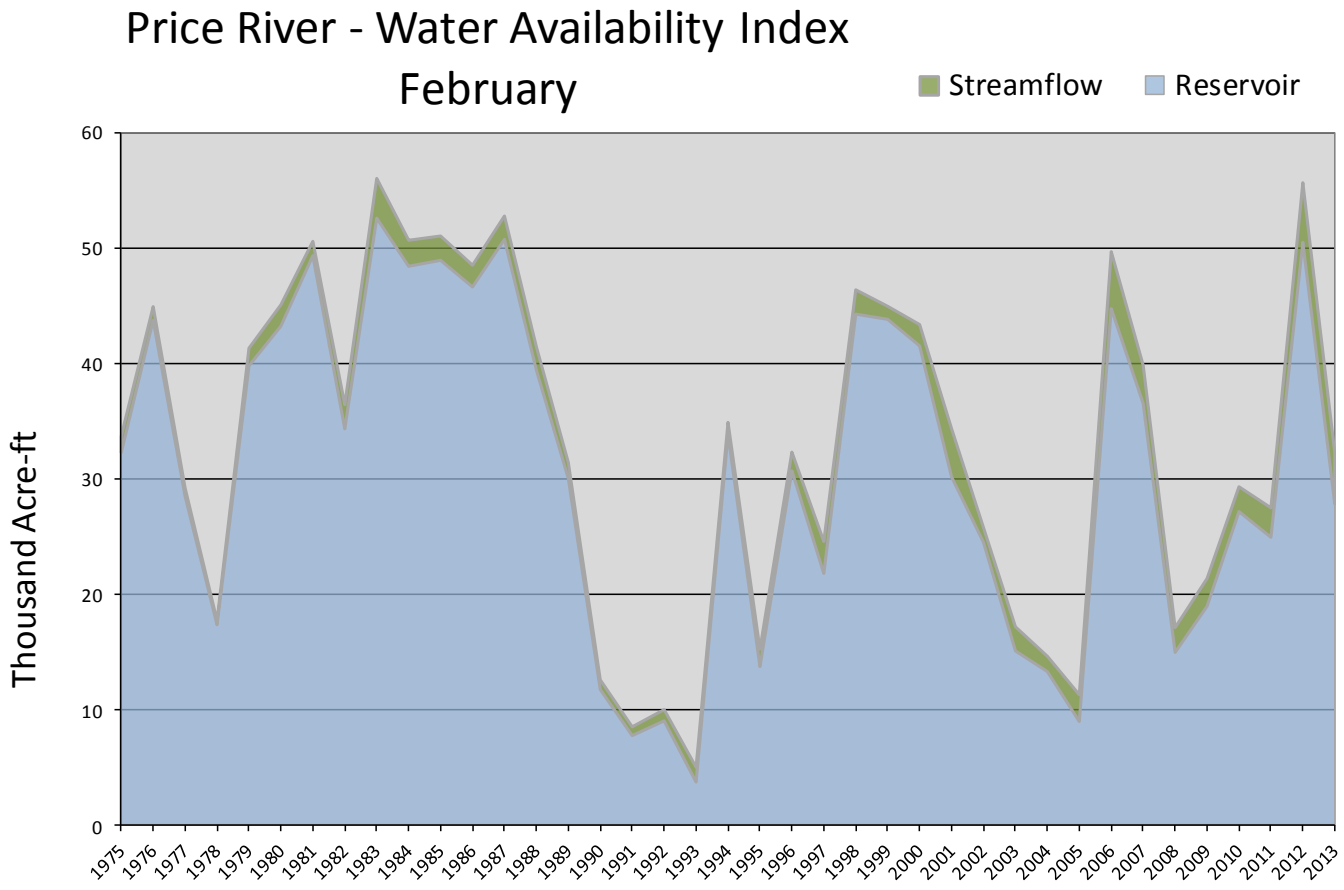


Reservoir Storage



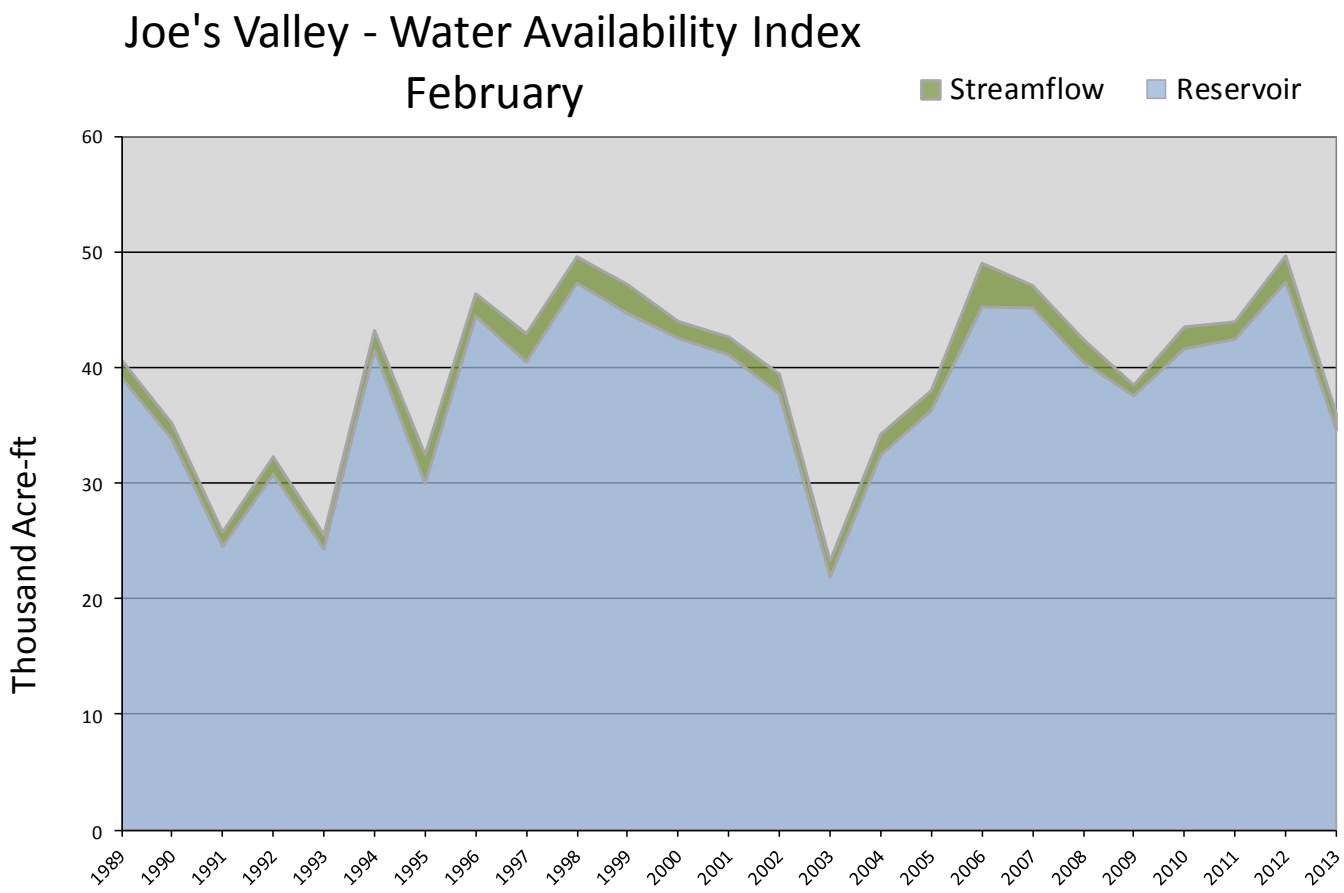
February 1, 2013	**Water Availability Index**					
Basin or Region	January EOM* Scofield	January accumulated inflow to Scofield (*calculated*)	Reservoir + Streamflow	WAI[#]	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Price River	**27.8**	**4.4**	**32.2**	**-0.42**	**45**	**10, 89, 96, 75**

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



February 1, 2013	**Water Availability Index**					
Basin or Region	January EOM* Joe's Valley	January accumulated inflow to Joe's Valley (*calculated*)	Reservoir + Streamflow	WAI[#]	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Joe's Valley	**34.6**	**1.4**	**36.0**	**-1.60**	**31**	**04, 90, 05, 09**

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

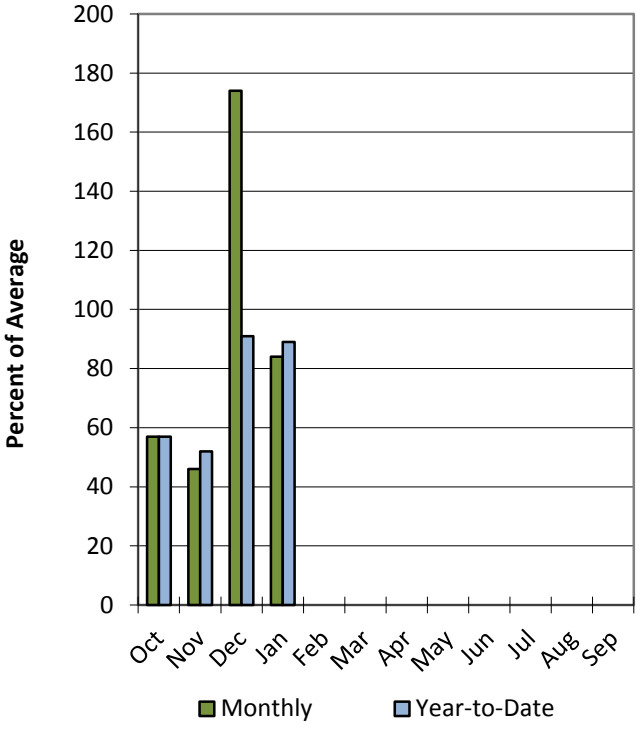


Southeastern Utah Basin

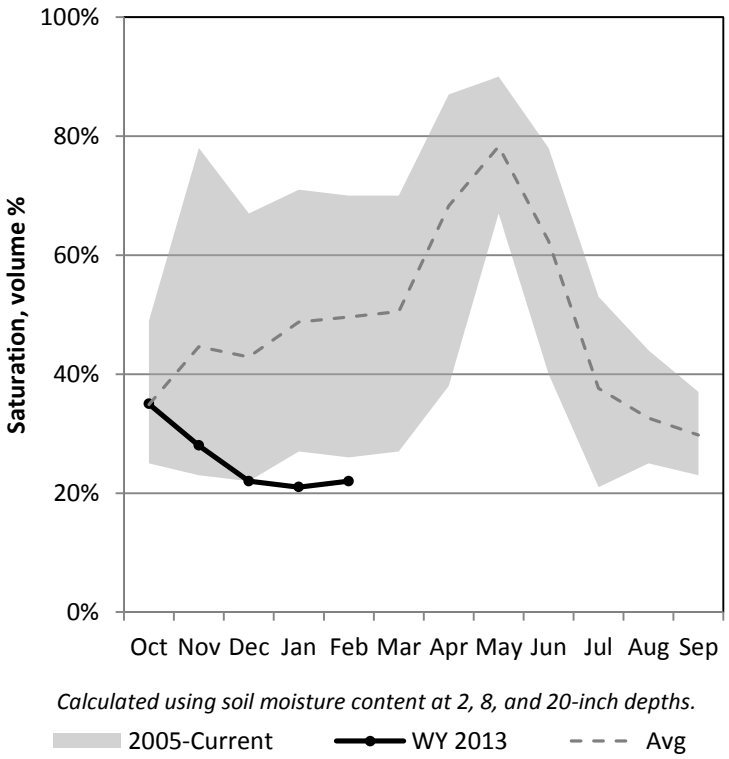
2/1/2013

Precipitation in January was below average at 84%, which brings the seasonal accumulation (Oct-Jan) to 89% of average. Soil moisture is at 22% compared to 51% last year. Reservoir storage is at 13% of capacity, compared to 78% last year. The water availibility index for Moab is 4%.

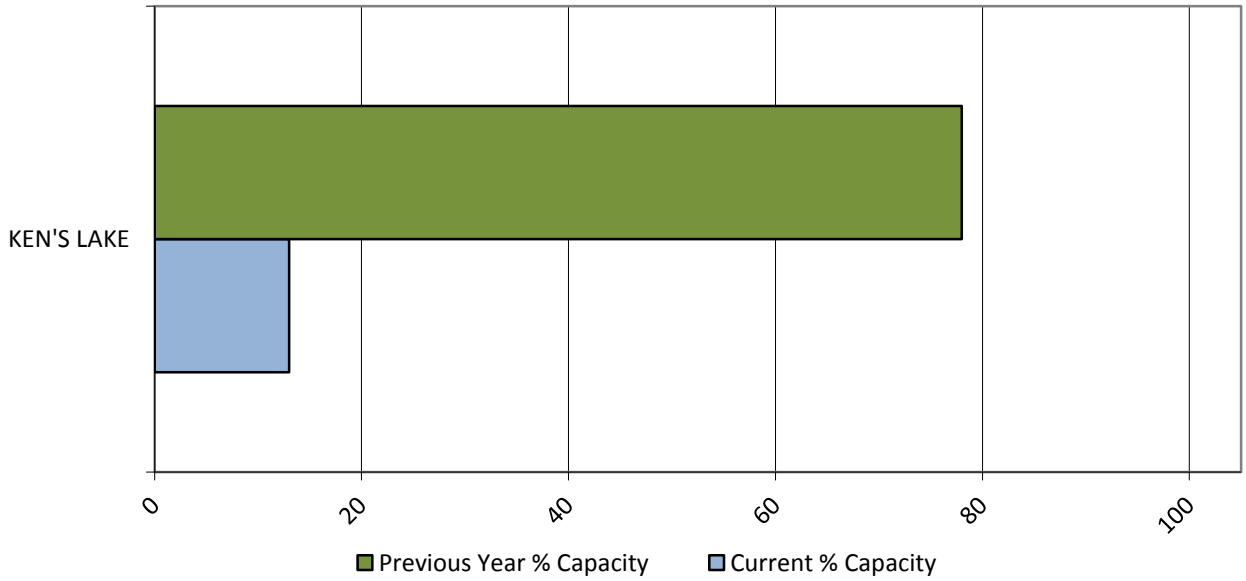
Precipitation



Soil Moisture

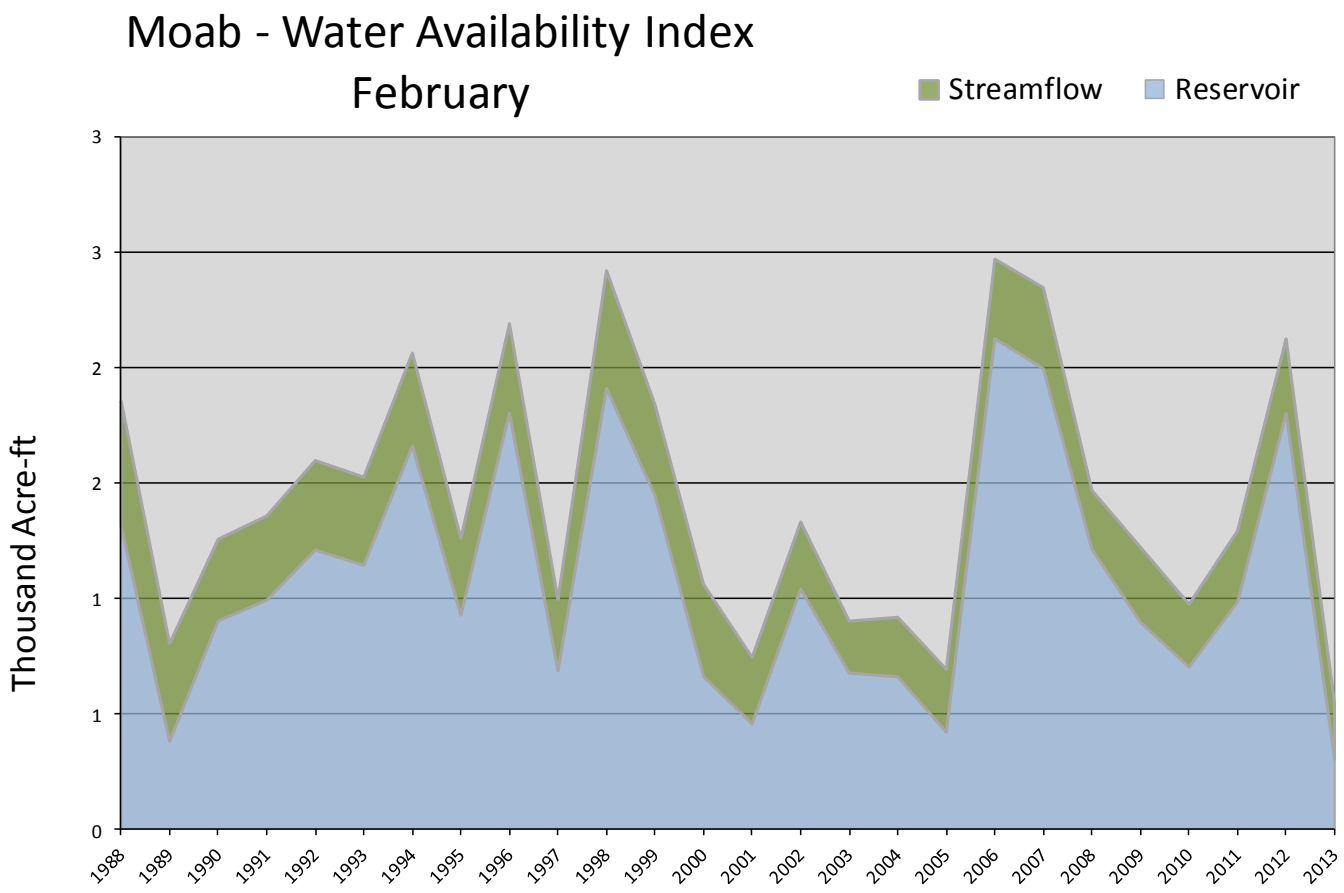


Reservoir Storage



February 1, 2013	**Water Availability Index**					
Basin or Region	January EOM* Ken's Lake Reservoir	January accumulated flow Mill Creek at Sheley (*observed*)	Reservoir + Streamflow	WAI[#]	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Moab	**0.3**	**0.2**	**0.5**	**-3.86**	**4**	**05, 01**

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

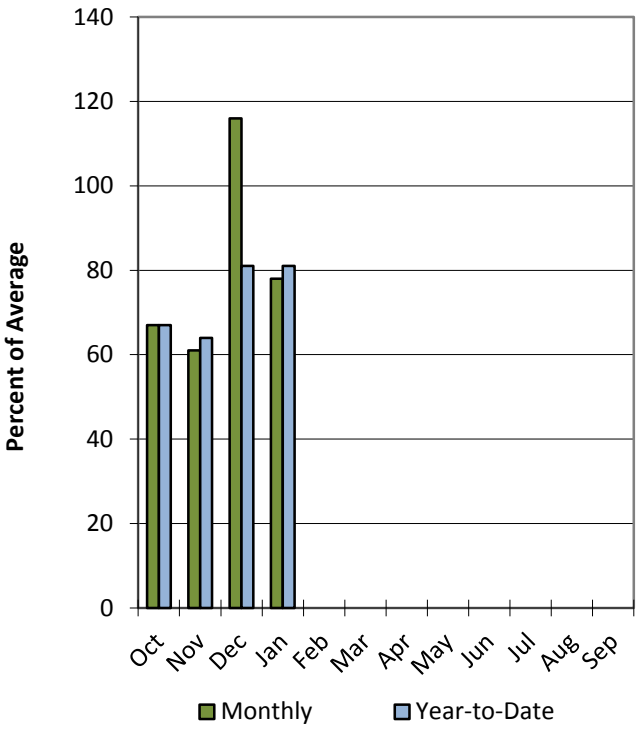


Dirty Devil Basin

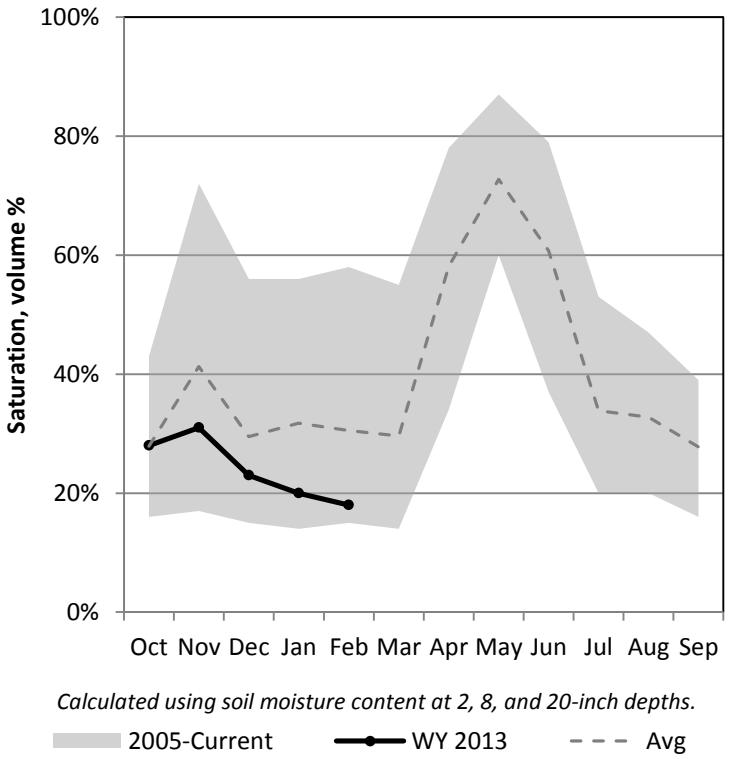
2/1/2013

Precipitation in January was below average at 78%, which brings the seasonal accumulation (Oct-Jan) to 81% of average. Soil moisture is at 18% compared to 20% last year.

Precipitation



Soil Moisture

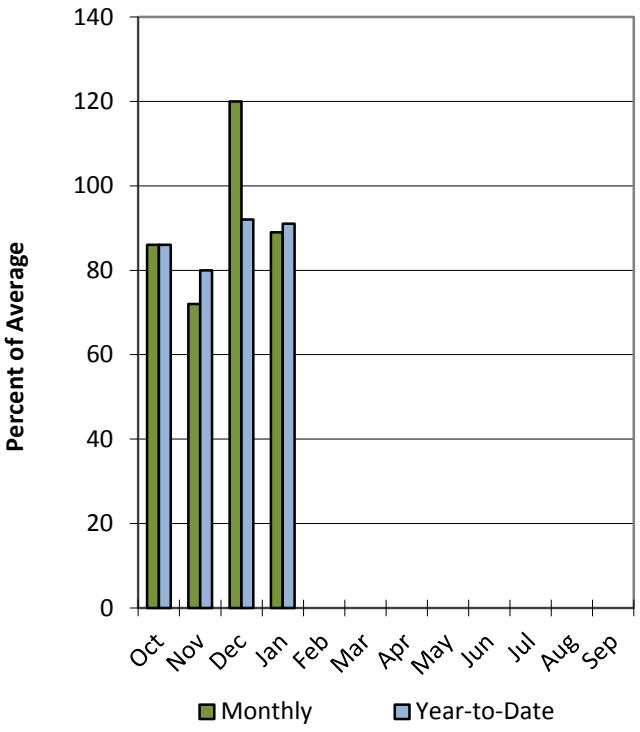


Escalante River Basin

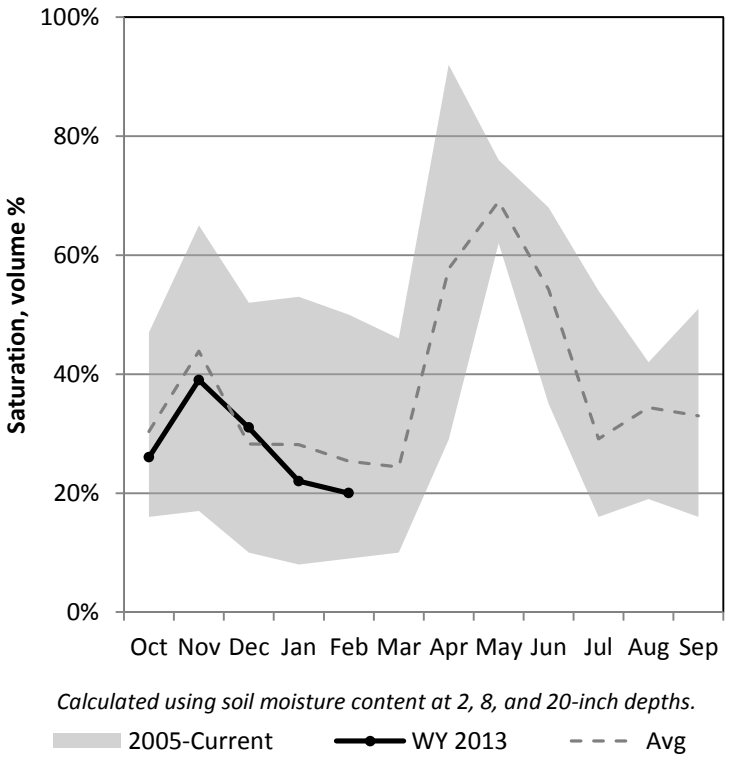
2/1/2013

Precipitation in January was below average at 89%, which brings the seasonal accumulation (Oct-Jan) to 91% of average. Soil moisture is at 20% compared to 31% last year.

Precipitation



Soil Moisture

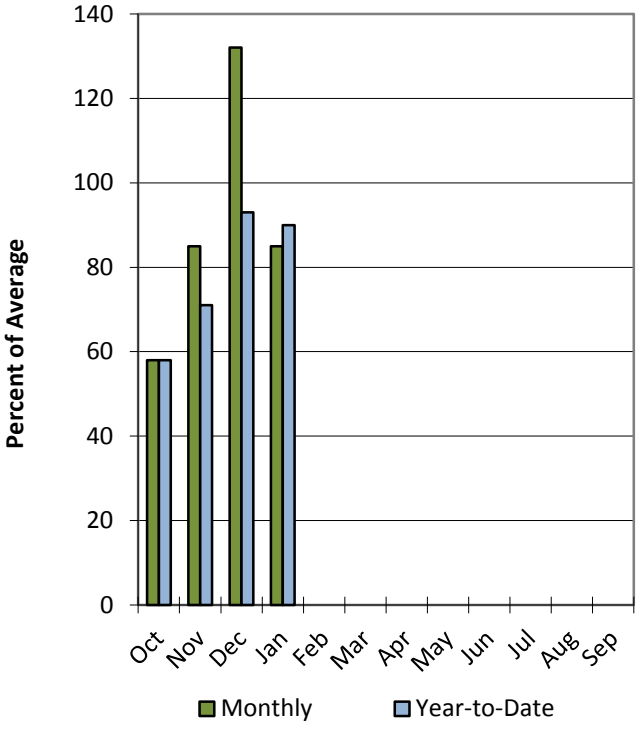


Upper Sevier River Basin

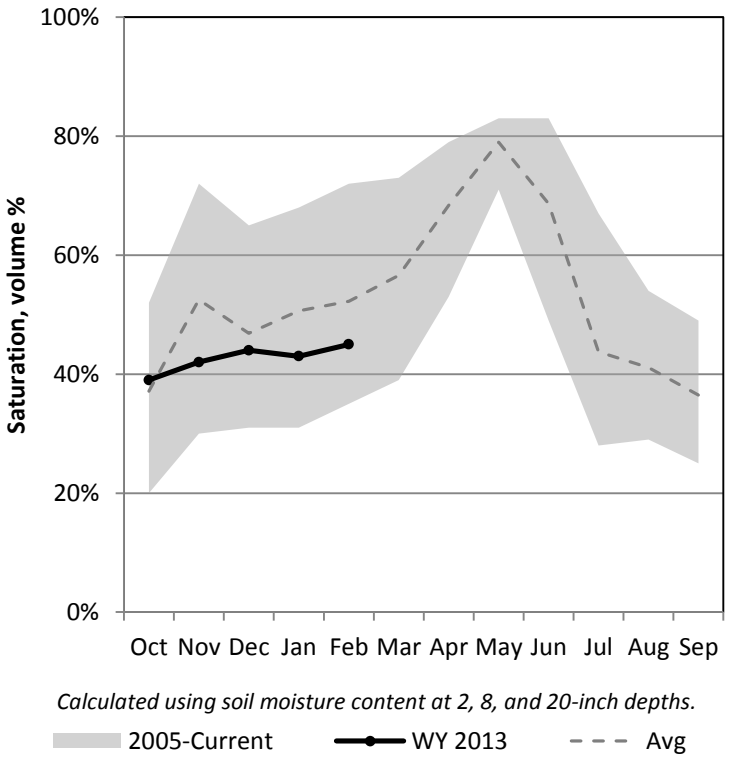
2/1/2013

Precipitation in January was below average at 85%, which brings the seasonal accumulation (Oct-Jan) to 90% of average. Soil moisture is at 45% compared to 50% last year. Reservoir storage is at 54% of capacity, compared to 77% last year. The water availibility index for the Upper Sevier is 49%.

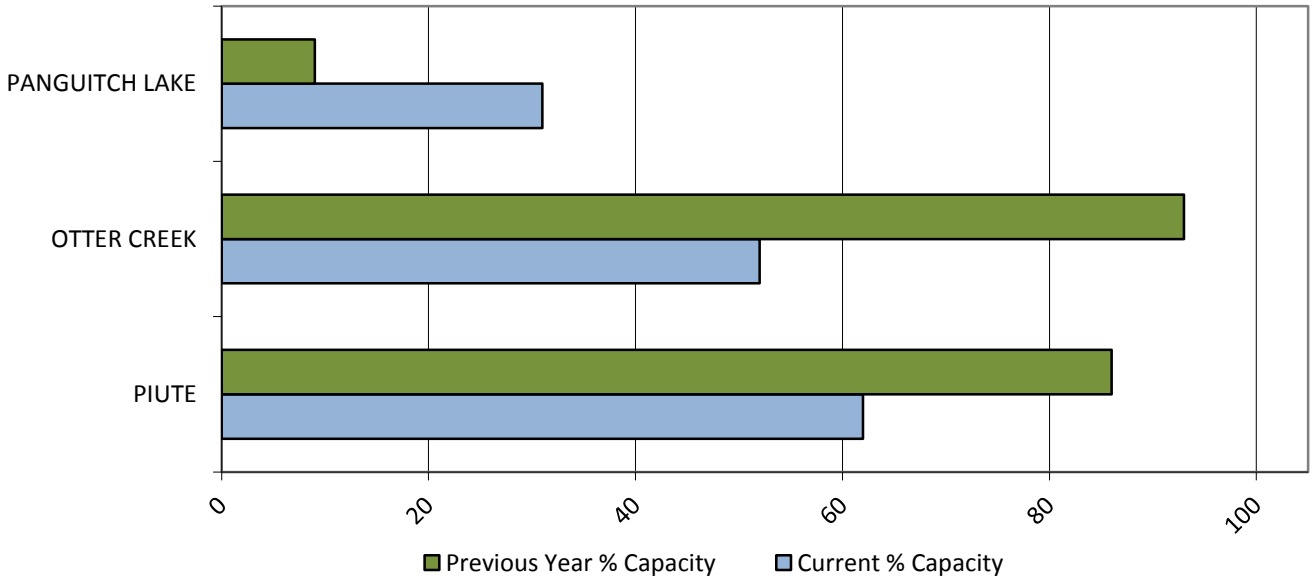
Precipitation



Soil Moisture

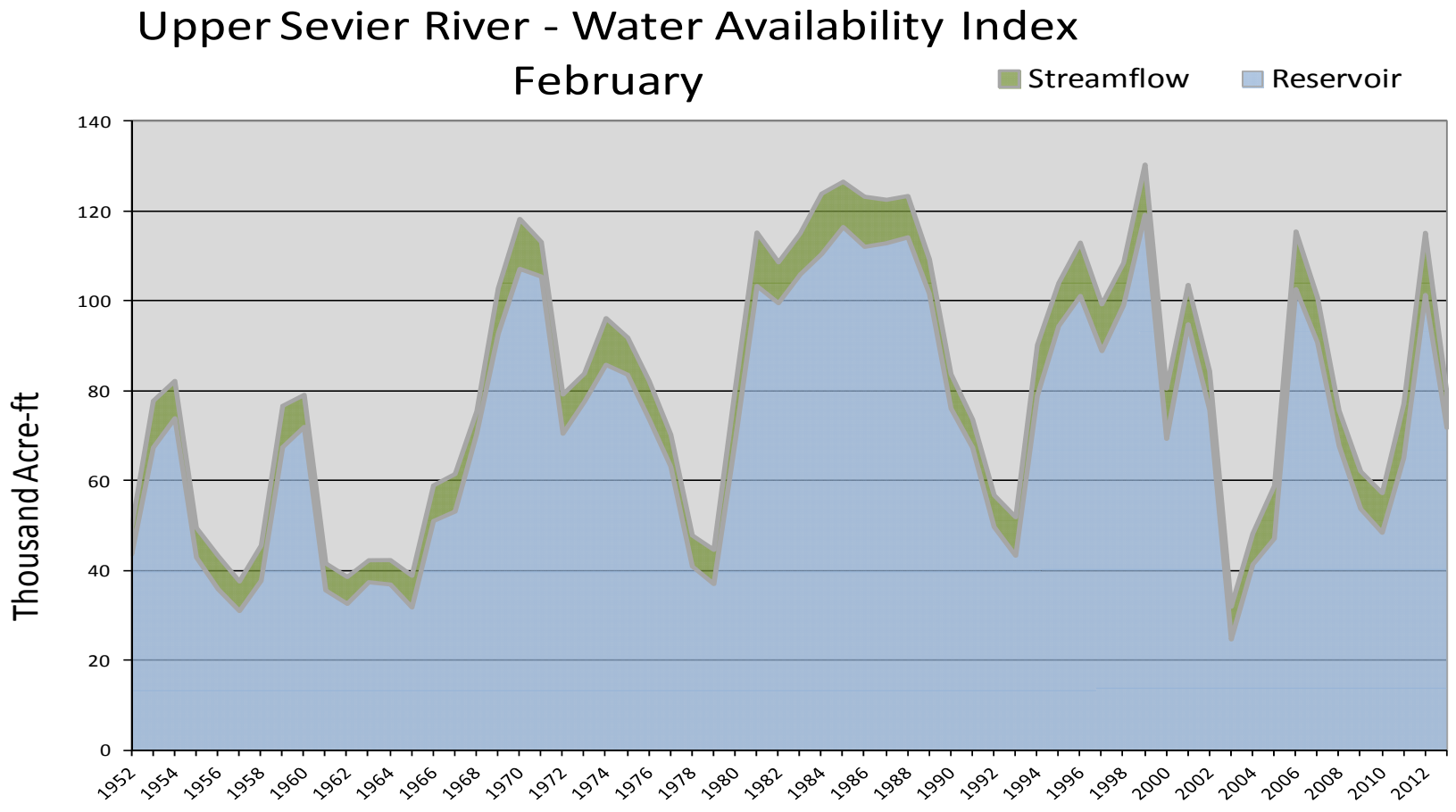


Reservoir Storage



February 1, 2013	**Water Availability Index**					
Basin or Region	January EOM* Otter Creek and Piute	January accumulated flow at Kingston (*observed*)	Reservoir + Streamflow	WAI[#]	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Upper Sevier River	**71.6**	**7.7**	**79.6**	**-0.07**	**49**	**60,72,00,80**

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

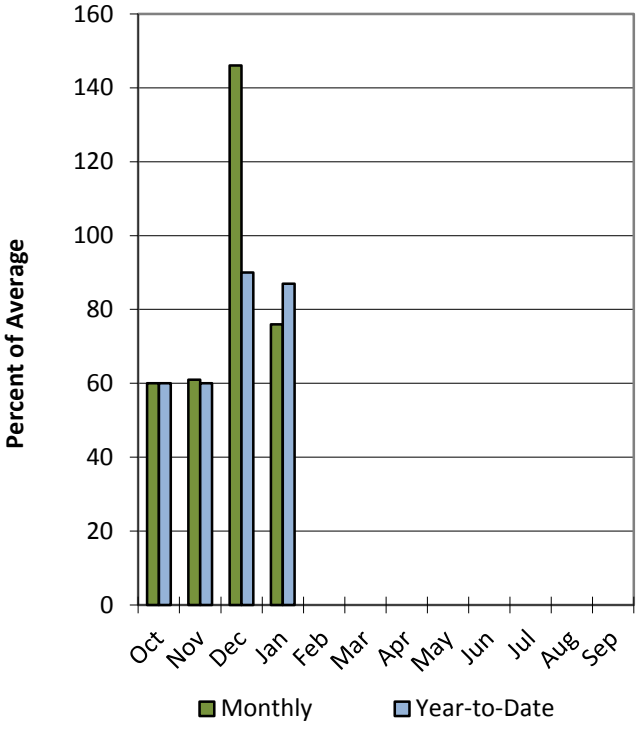


San Pitch River Basin

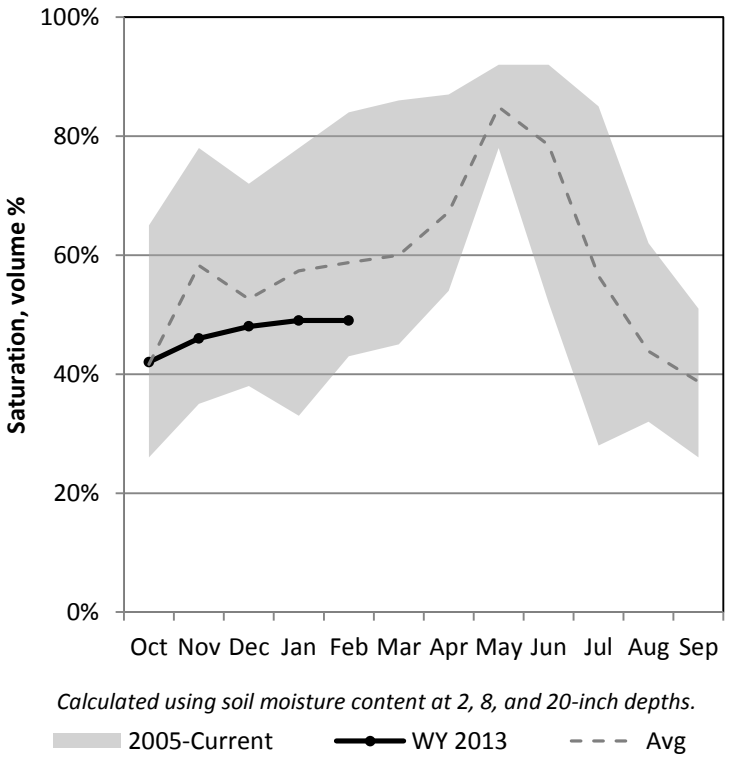
2/1/2013

Precipitation in January was below average at 76%, which brings the seasonal accumulation (Oct-Jan) to 87% of average. Soil Moisture is at 49% compared to 54% last year. Reservoir storage is at 2% of capacity, compared to 92% last year.

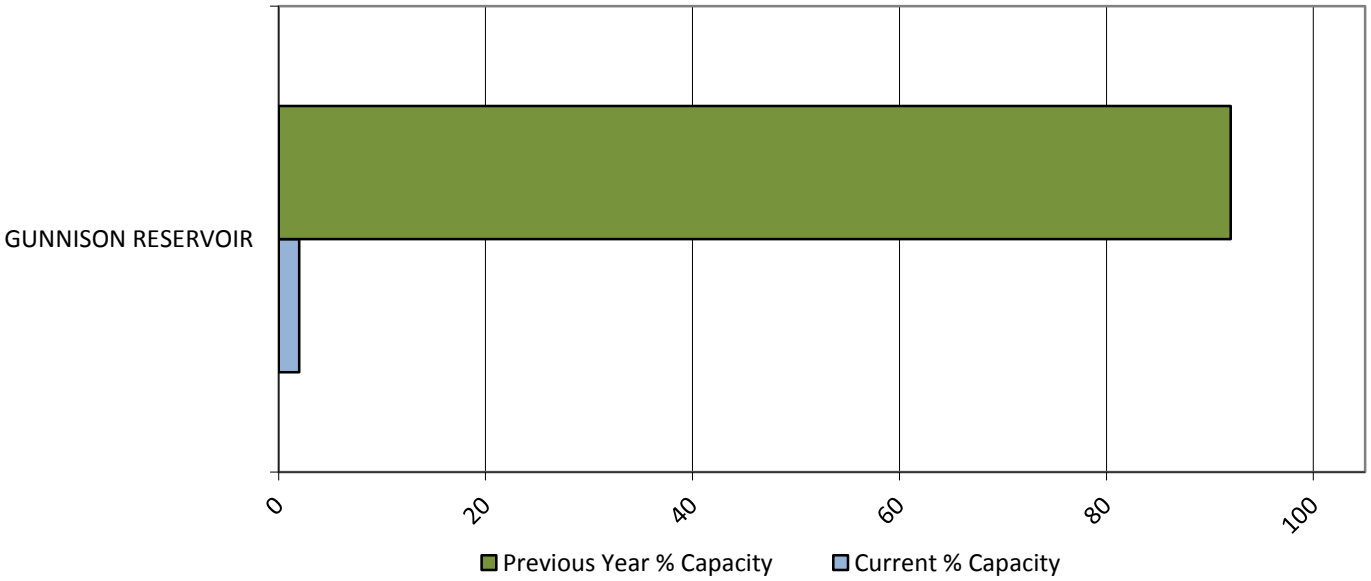
Precipitation



Soil Moisture



Reservoir Storage

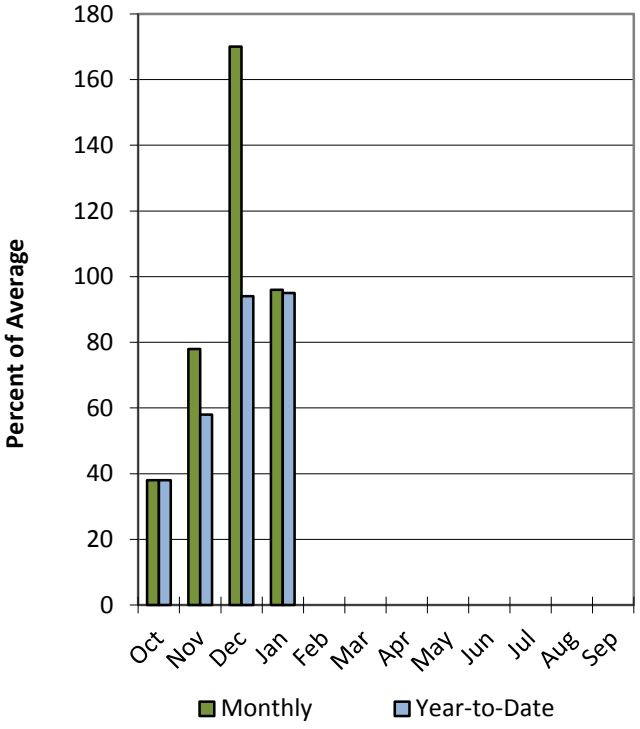


Lower Sevier River Basin

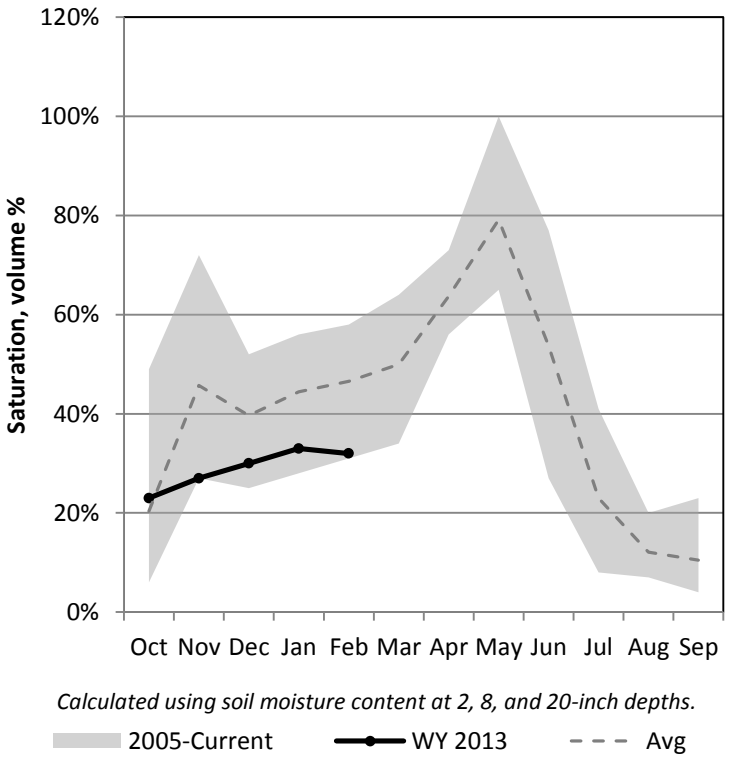
2/1/2013

Precipitation in January was near average at 96%, which brings the seasonal accumulation (Oct-Jan) to 95% of average. Soil moisture is at 32% compared to 38% last year. Reservoir storage is at 61% of capacity, compared to 96% last year. The water availibility index for the Lower Sevier is 53%.

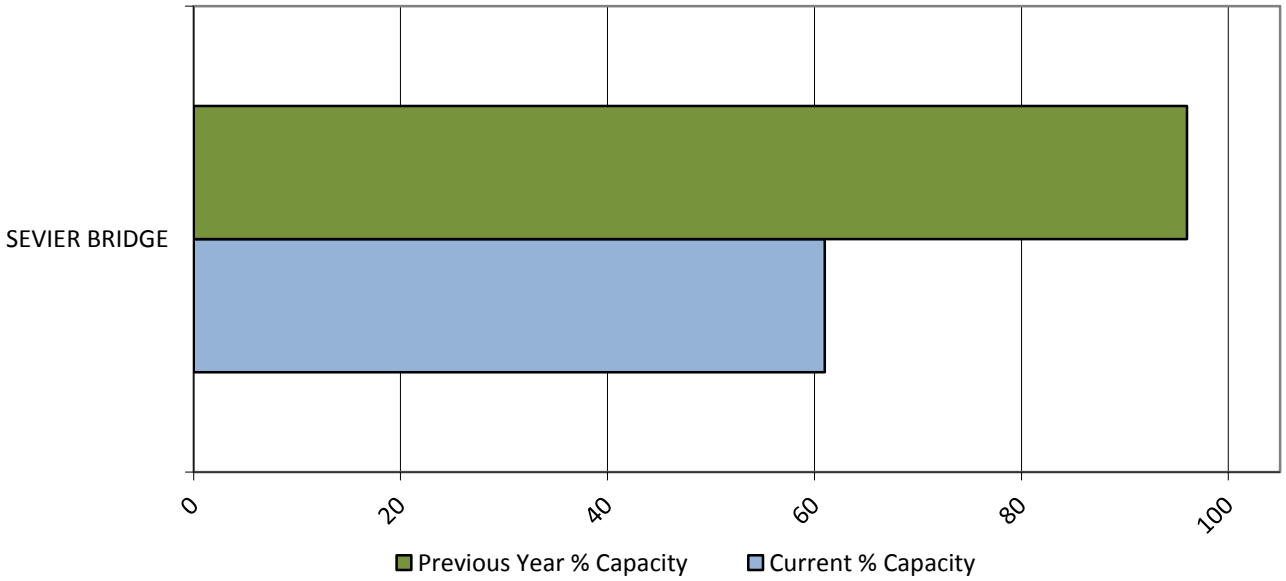
Precipitation



Soil Moisture

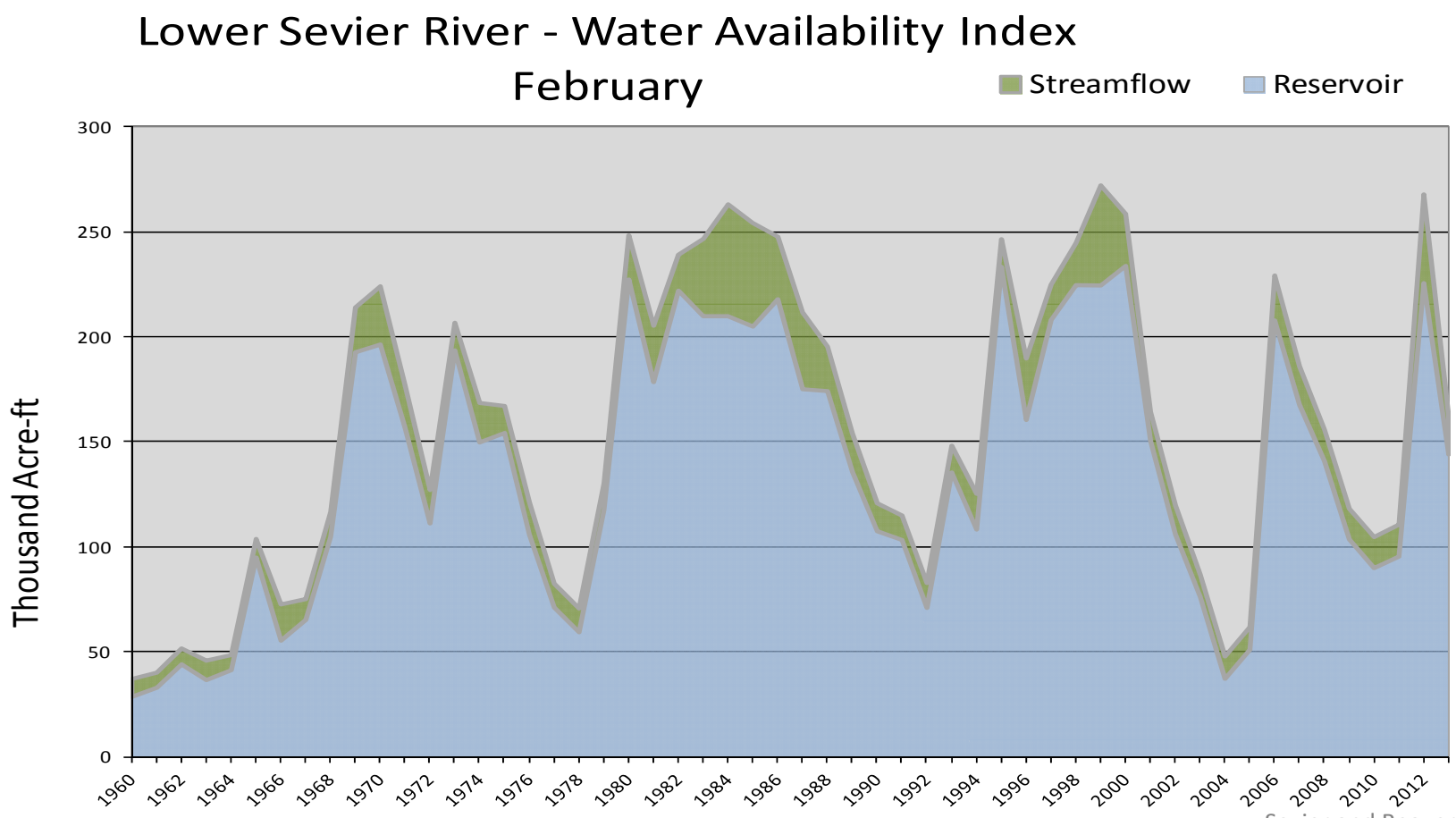


Reservoir Storage



February 1, 2013	**Water Availability Index**					
Basin or Region	January EOM* Sevier Bridge	January accumulated flow Sevier at Gunnsion (*observed*)	Reservoir + Streamflow	WAI[#]	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Lower Sevier River	**144.2**	**18.2**	**162.4**	**0.23**	**53**	**89,08,01,75**

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

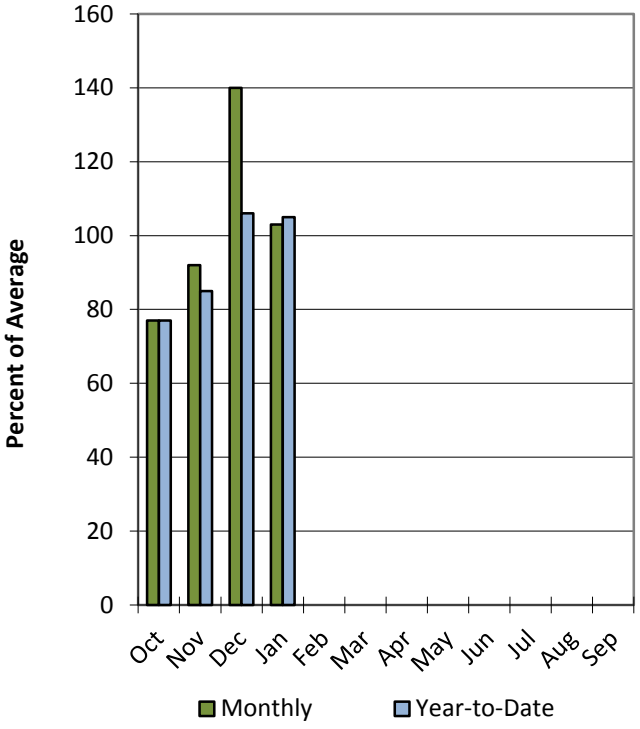


Beaver River Basin

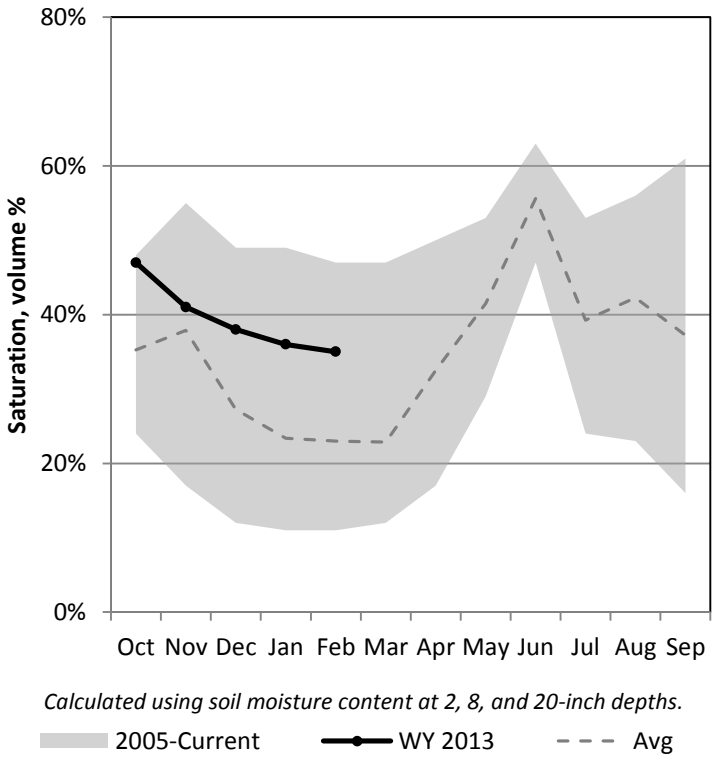
2/1/2013

Precipitation in January was near average at 103%, which brings the seasonal accumulation (Oct-Jan) to 105% of average. Soil moisture is at 35% compared to 25% last year. Reservoir storage is at 45% of capacity, compared to 100% last year. The water availibility index for the Beaver River is 45%.

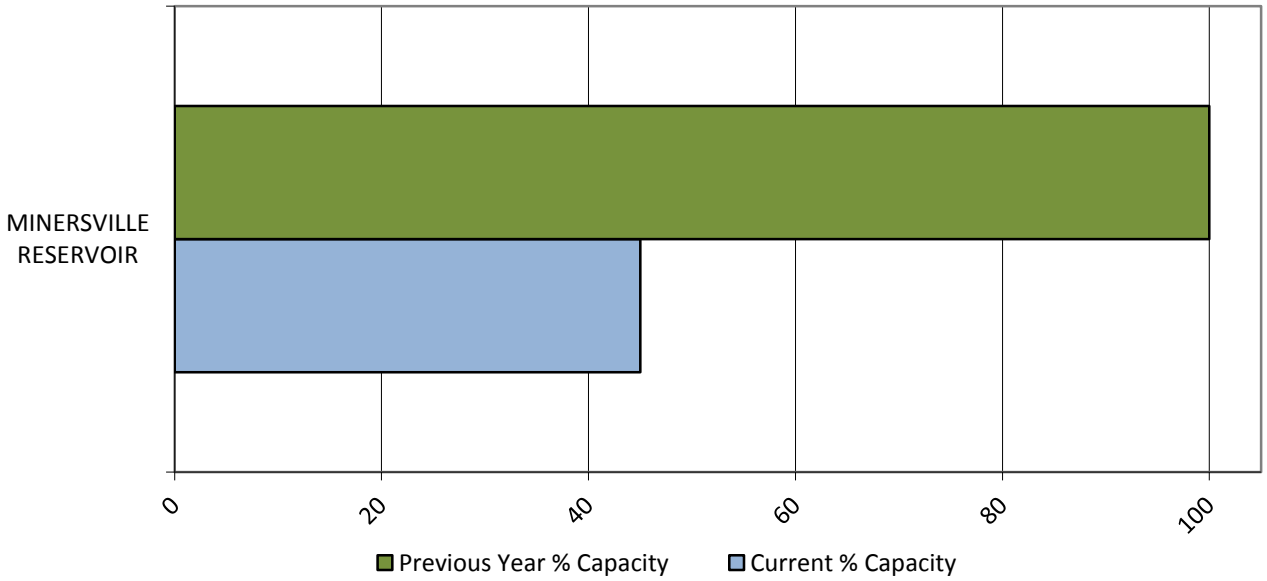
Precipitation



Soil Moisture

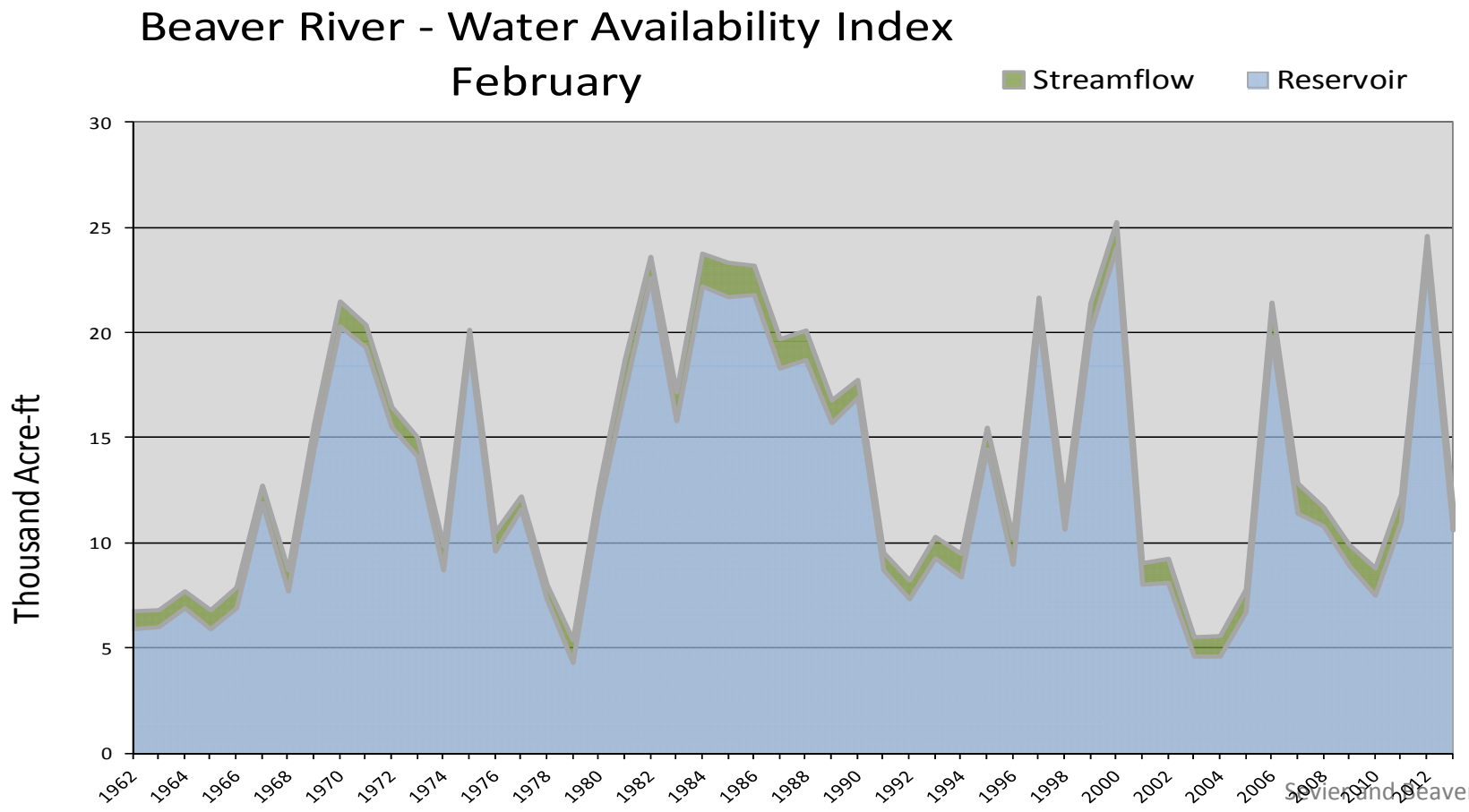


Reservoir Storage



February 1, 2013	**Water Availability Index**					
Basin or Region	January EOM* Minersville Reservoir	January accumulated flow Beaver River at Beaver (*observed*)	Reservoir + Streamflow	WAI[#]	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Beaver	**10.6**	**1.2**	**11.8**	**-0.39**	**45**	**76,08,98,77**

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

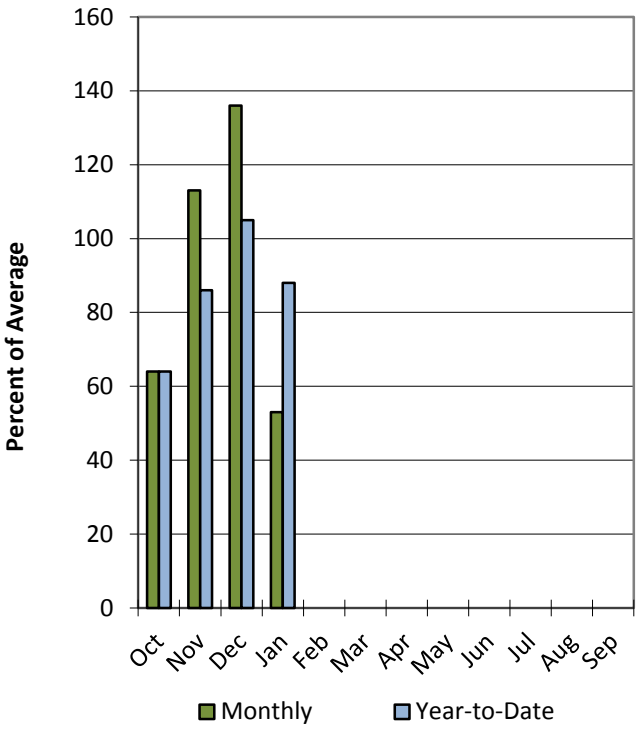


Southwestern Utah Basin

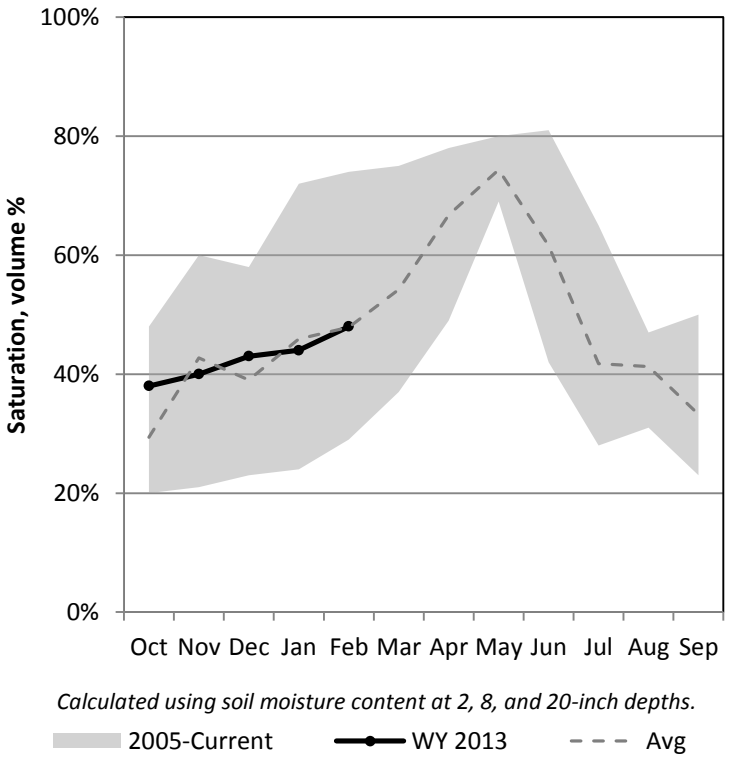
2/1/2013

Precipitation in January was much below average at 53%, which brings the seasonal accumulation (Oct-Jan) to 88% of average. Soil moisture is at 48% compared to 43% last year. Reservoir storage is at 50% of capacity, compared to 64% last year. The water availibility index for the Virgin River is 27%.

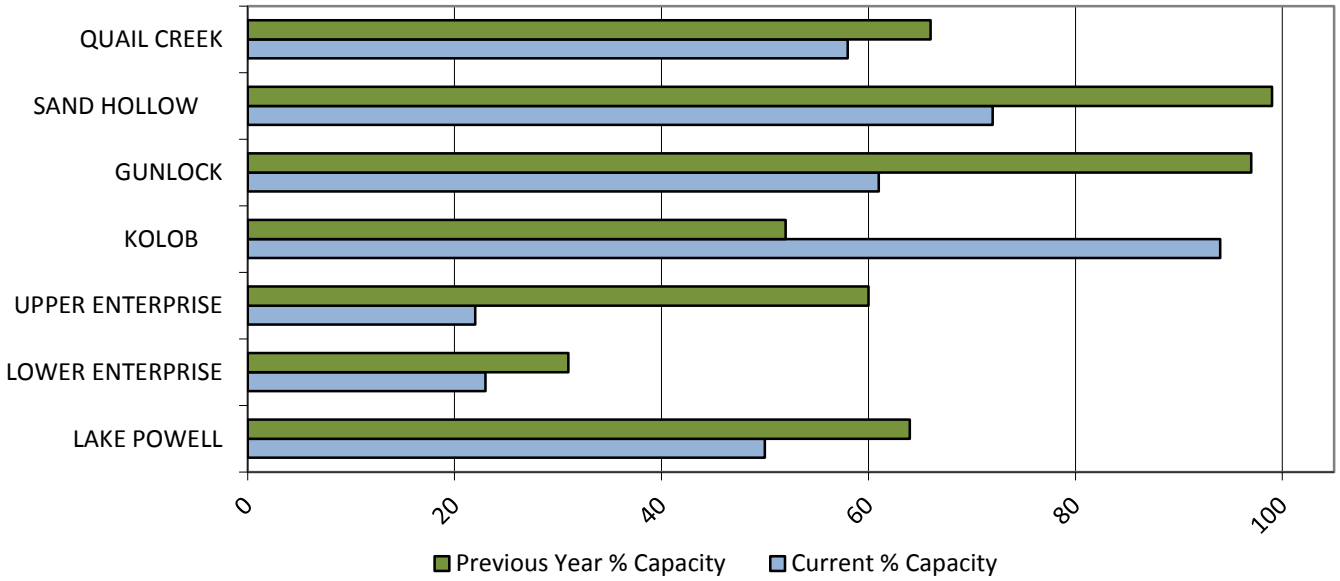
Precipitation



Soil Moisture

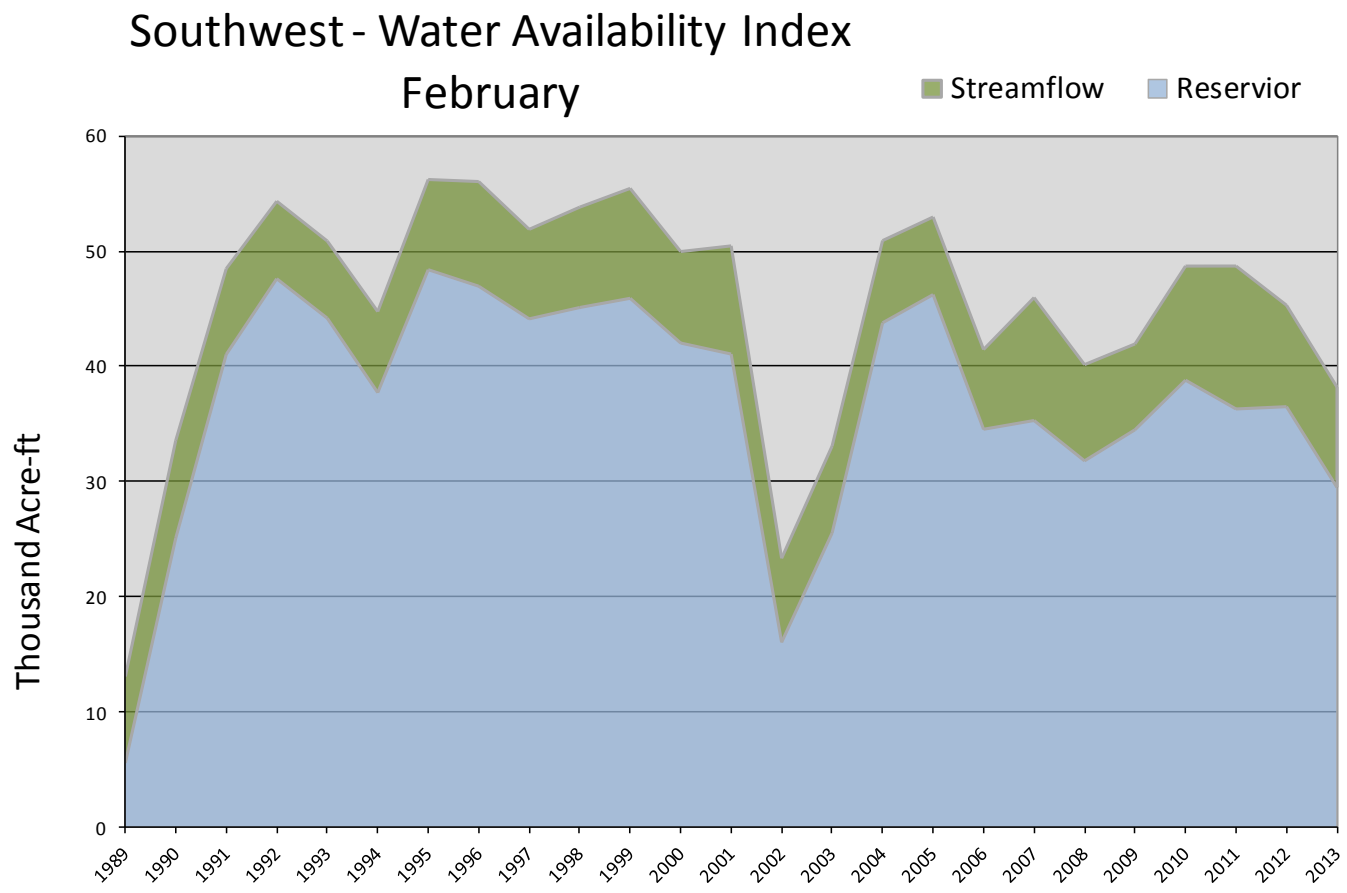


Reservoir Storage



February 1, 2013	**Water Availability Index**					
Basin or Region	January EOM* Reservoir	January accumulated flow Virgin and Santa Clara Rivers (*observed*)	Reservoir + Streamflow	WAI[#]	Percentile	Years with similar WAI
	*KAF^*	*KAF*	*KAF*		*%*	
Southwest	**29.5**	**8.7**	**38.2**	**-1.92**	**27**	**08,09,94,07**

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



Issued by

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

Released by

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

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

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

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

Utah Climate and Water Report

Natural Resources Conservation Service
Salt Lake City, UT