

Utah Climate and Water Report

February 2011



View of Mount Nebo from Nephi SCAN site

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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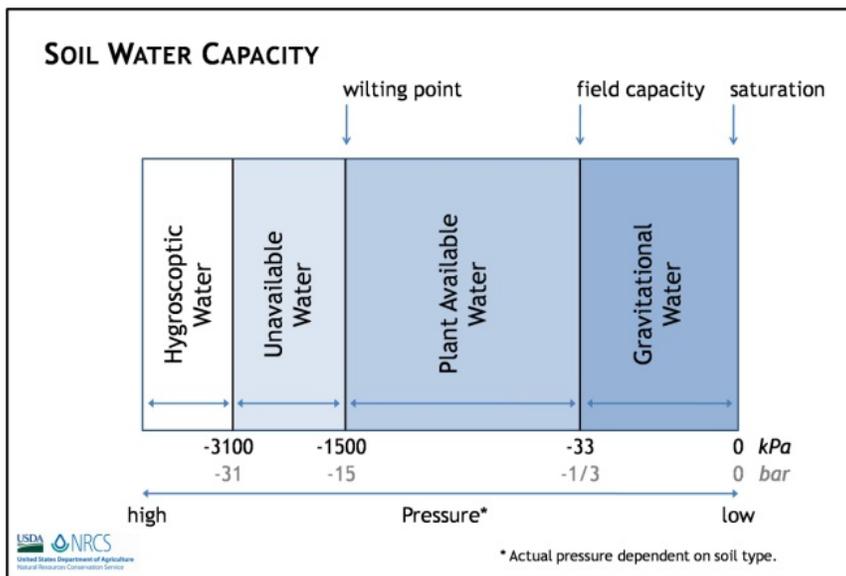
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Climate and Water Information

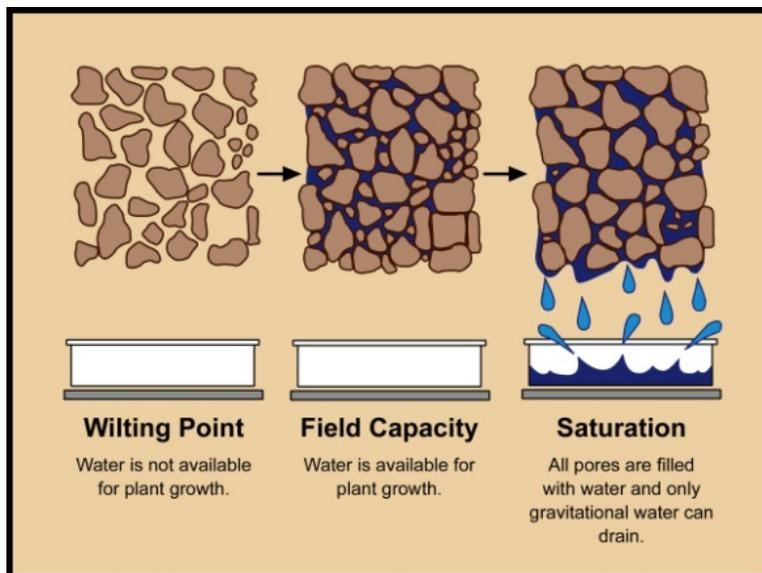
Soil Climate Analysis Network

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).

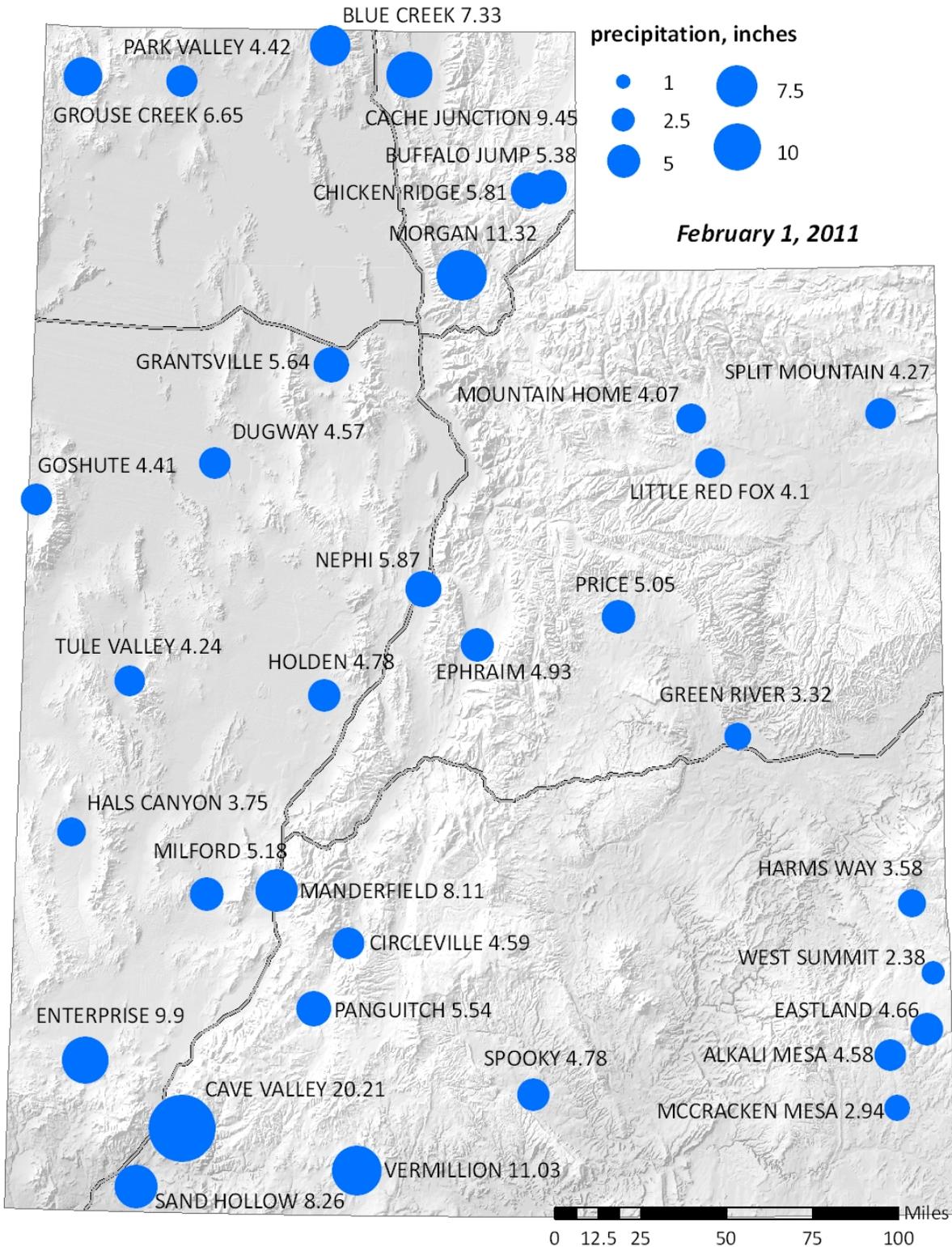


Explanation of soil water capacity definitions. Field capacity (FC) and wilting point (WP) are calculated in the laboratory for each soil horizon. The amount of water held between field capacity and wilting point is plant available.



Visual explanation of soil water capacity definitions.

Utah SCAN Water Year Precipitation *



*since October 1, 2010. Data based on the first reading of the day.

Prepared by the USDA/NRCS Utah DCO
 Salt Lake City, Utah
<http://www.wcc.nrcs.usda.gov/scan/Utah/utah.html>
 Science contact: Karen Vaughan
 (karen.vaughan@ut.usda.gov)

Provisional Data Subject to Revision

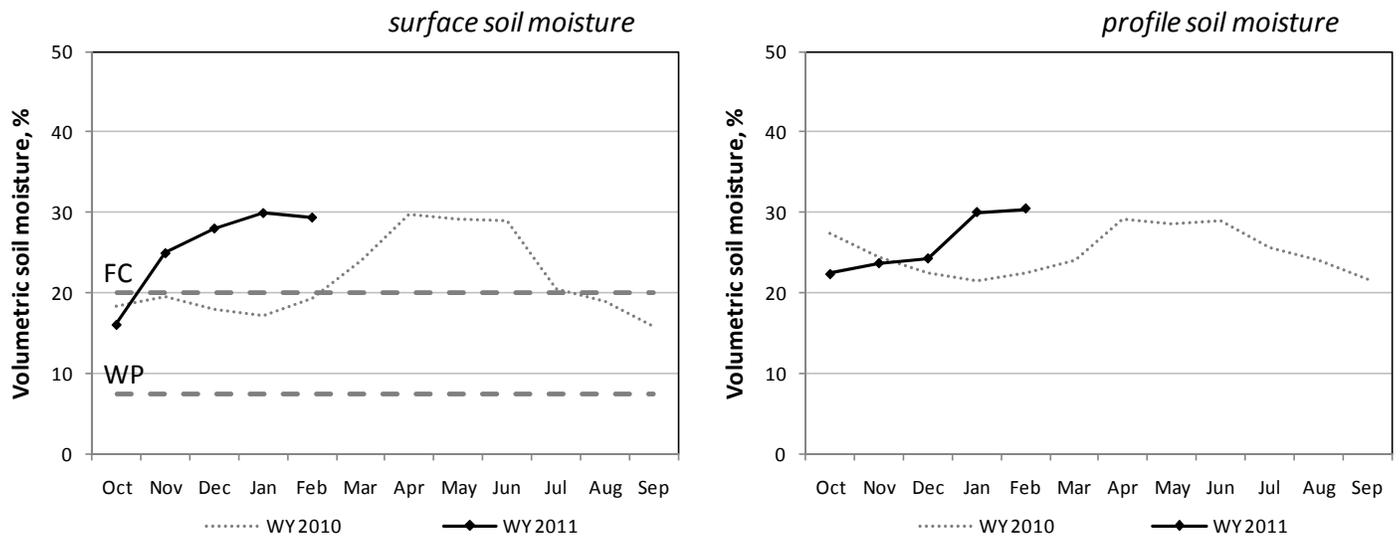
North Central

Soil Climate Analysis Network (SCAN)

Site name	County	Precip to Date*	Monthly Precip	Avg Air Temp	Soil Moisture					Soil Temperature				
					2"	4"	8"	20"	40"	2"	4"	8"	20"	40"
		<i>in.</i>	<i>in.</i>	<i>° F</i>	<i>volume %</i>					<i>° F</i>				
NORTH CENTRAL														
Blue Creek	<i>Box Elder</i>	7.3	0.9	32	31	32	38	35	22	32	33	34	36	39
Cache Junction	<i>Cache</i>	9.5	0.6	32	29	36	40	35	38	31	33	34	36	40
Grantsville	<i>Tooele</i>	5.6	0.4	32	18	2	25	33	23	33	35	37	41	46

*since October 1, 2010. Monthly Precip is the amount of precipitation accumulated in the past month and Avg Air Temp is the average air temperature measured at the SCAN station. 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.

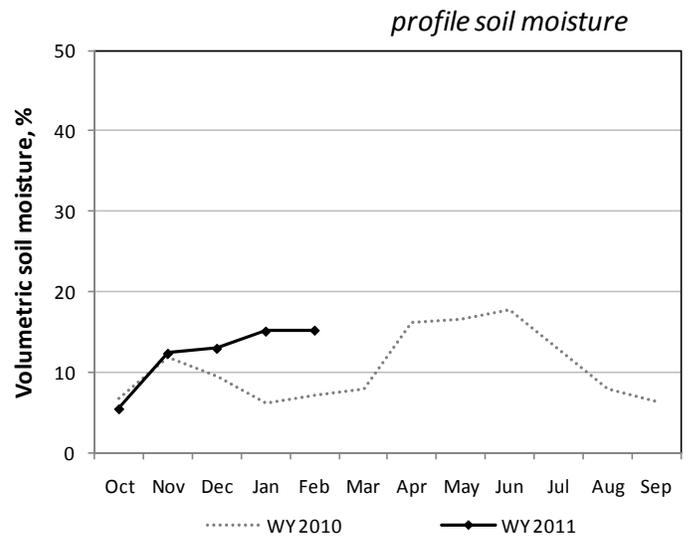
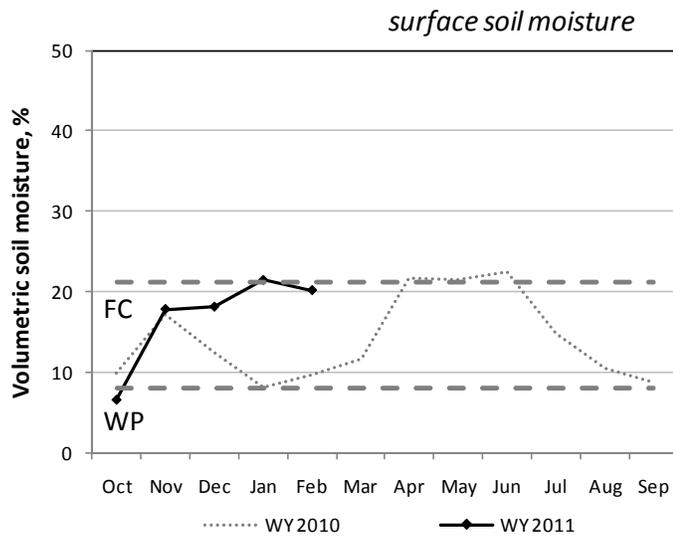
Northern Mountains

Soil Climate Analysis Network (SCAN)

Site name	County	Precip to Date*	Monthly Precip	Avg Air Temp	Soil Moisture					Soil Temperature				
					2"	4"	8"	20"	40"	2"	4"	8"	20"	40"
		<i>in.</i>	<i>in.</i>	<i>° F</i>	<i>volume %</i>					<i>° F</i>				
NORTHERN MOUNTAINS														
Chicken Ridge	<i>Morgan</i>	5.8	0.5	32	20	14	21	18	25	33	33	34	34	34
Buffalo Jump	<i>Rich</i>	5.4	0.2	32	10	17	20	14	-	31	32	33	35	-
Morgan	<i>Morgan</i>	11.3	1.5	32	23	25	27	15	8	33	33	33	34	35

*since October 1, 2010. Monthly Precip is the amount of precipitation accumulated in the past month and Avg Air Temp is the average air temperature measured at the SCAN station. 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.

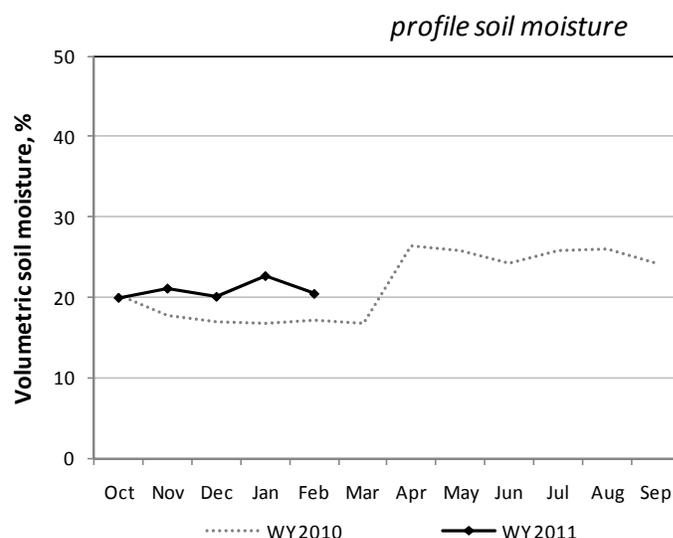
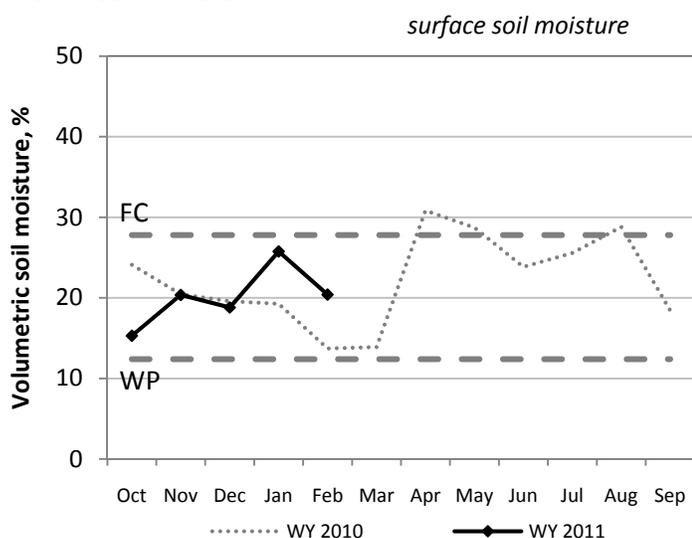
Uintah Basin

Soil Climate Analysis Network (SCAN)

Site name	County	Precip to Date*	Monthly Precip	Avg Air Temp	Soil Moisture					Soil Temperature				
					2"	4"	8"	20"	40"	2"	4"	8"	20"	40"
		<i>in.</i>	<i>in.</i>	<i>° F</i>	<i>volume %</i>					<i>° F</i>				
UINTAH BASIN														
Mountain Home	<i>Duchesne</i>	4.1	0.1	32	27	34	35	18	11	33	33	34	35	38
Little Red Fox	<i>Duchesne</i>	4.1	0.0	32	7	20	21	29	43	27	29	32	35	38
Split Mountain	<i>Uintah</i>	4.3	0.1	32	7	16	12	13	9	21	21	26	30	36

*since October 1, 2010. Monthly Precip is the amount of precipitation accumulated in the past month and Avg Air Temp is the average air temperature measured at the SCAN station. 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.

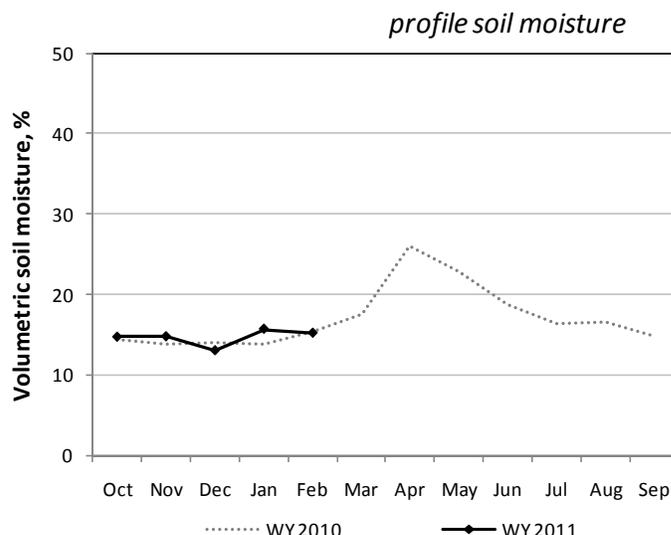
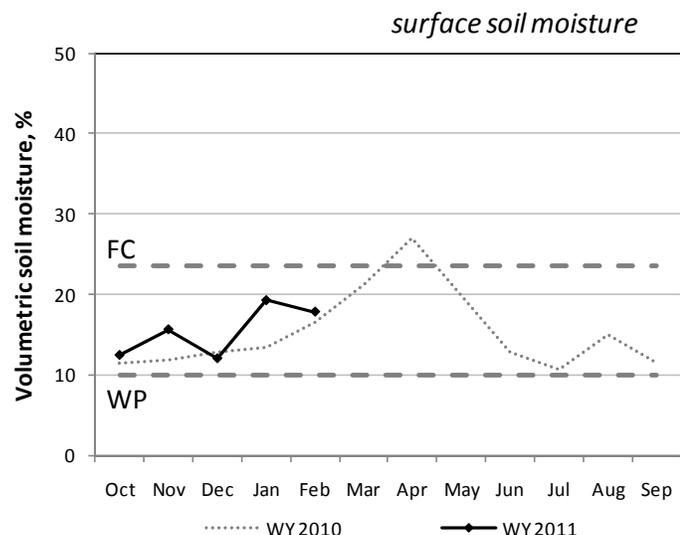
Southeast

Soil Climate Analysis Network (SCAN)

Site name	County	Precip to Date*	Monthly Precip	Avg Air Temp	Soil Moisture					Soil Temperature				
					2"	4"	8"	20"	40"	2"	4"	8"	20"	40"
		<i>in.</i>	<i>in.</i>	<i>° F</i>	<i>volume %</i>					<i>° F</i>				
SOUTHEAST														
Price	<i>Carbon</i>	5.1	0.0	32	2	11	17	12	15	23	27	29	34	36
Green River	<i>Emery</i>	3.3	0.0	32	8	10	9	3	8	23	25	29	33	38
Harm's Way	<i>San Juan</i>	3.6	0.2	32	17	12	29	14	6	33	33	34	35	39
West Summit	<i>San Juan</i>	2.4	0.0	32	12	14	14	13	18	24	26	31	33	37
Eastland	<i>San Juan</i>	4.7	0.0	32	28	25	23	31	20	33	34	34	36	39
Alkali Mesa	<i>San Juan</i>	4.6	0.4	32	10	21	27	16	12	28	31	32	36	38
McCracken Mesa	<i>San Juan</i>	2.9	0.1	32	15	25	24	14	13	31	33	34	38	42

*since October 1, 2010. Monthly Precip is the amount of precipitation accumulated in the past month and Avg Air Temp is the average air temperature measured at the SCAN station. 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.

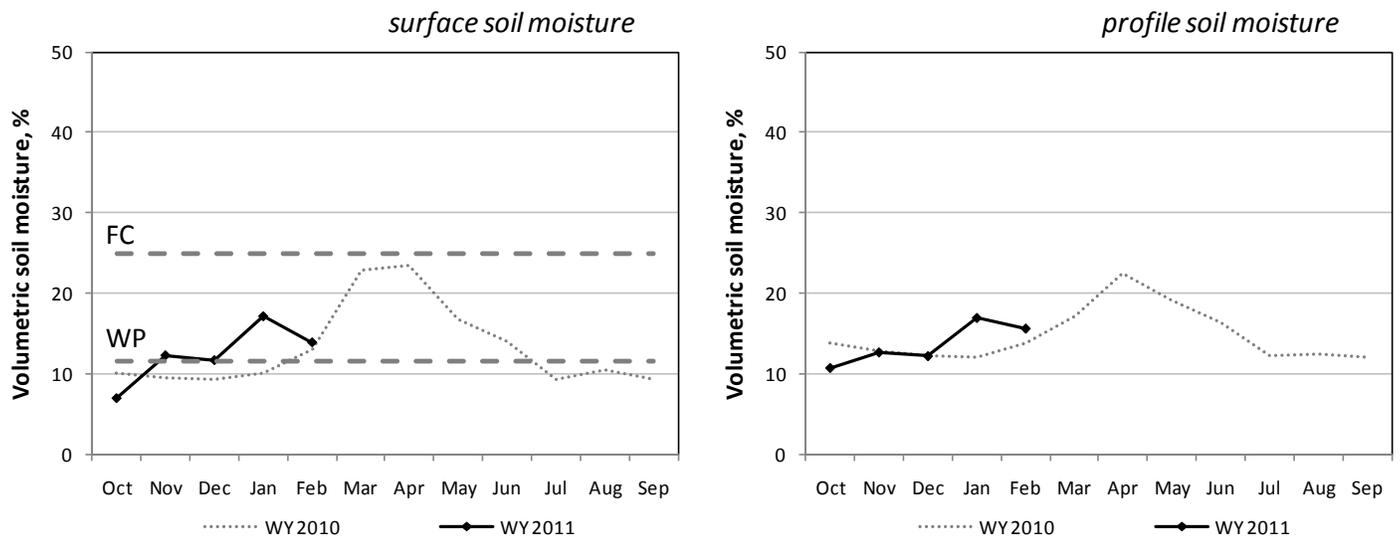
South Central

Soil Climate Analysis Network (SCAN)

Site name	County	Precip to Date*	Monthly Precip	Avg Air Temp	Soil Moisture					Soil Temperature				
		in.	in.	°F	2"	4"	8"	20"	40"	2"	4"	8"	20"	40"
SOUTH CENTRAL														
Nephi	Juab	5.9	0.7	32	30	32	30	13	0	33	32	33	36	40
Ephraim	Sanpete	4.9	0.4	32	10	18	26	21	29	29	32	33	34	39
Holden	Millard	4.8	0.1	32	6	5	12	16	11	28	30	33	35	40
Milford	Beaver	5.2	0.1	32	14	22	25	23	15	31	31	32	36	41
Manderfield	Beaver	8.1	0.0	32	19	29	28	23	10	32	33	33	36	38
Circleville	Piute	4.6	0.0	32	15	8	12	18	7	27	27	31	34	39
Panguitch	Garfield	5.5	0.0	32	9	18	14	28	32	20	24	27	33	39
Cave Valley	Washington	20.2	0.1	32	1	2	0	4	7	21	22	30	34	36
Vermillion	Kane	11.0	0.1	32	0	0	2	14	28	15	22	30	34	37
Spooky	Kane	4.8	0.0	32	7	2	7	23	4	32	31	33	37	39

*since October 1, 2010. Monthly Precip is the amount of precipitation accumulated in the past month and Avg Air Temp is the average air temperature measured at the SCAN station. 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.

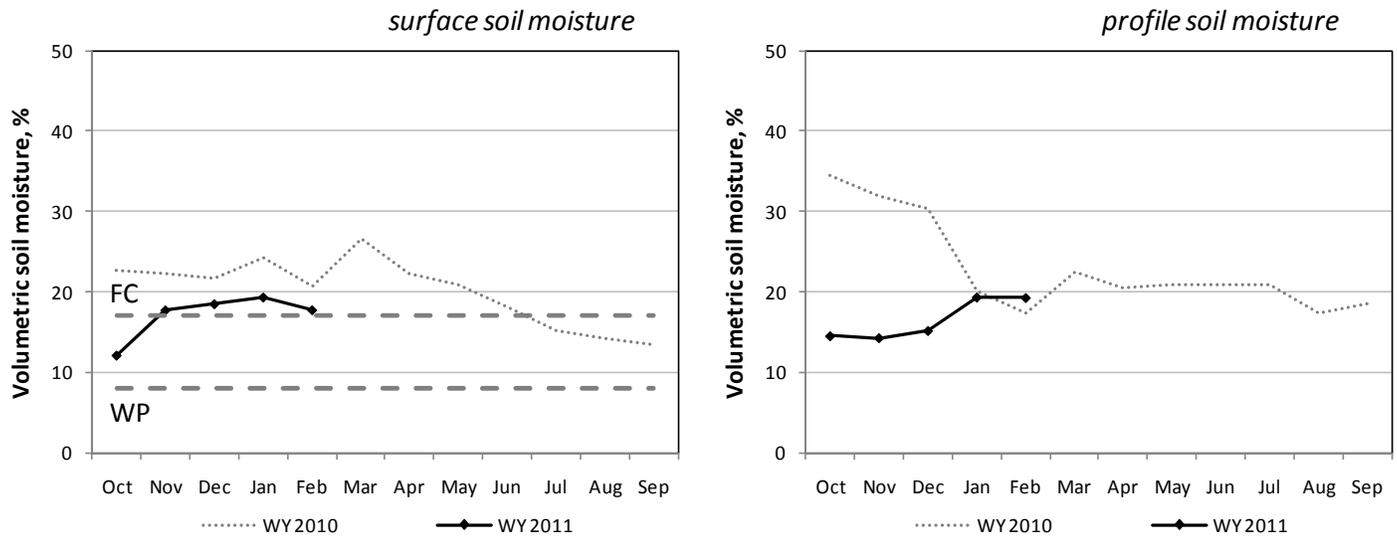
Western and Dixie

Soil Climate Analysis Network (SCAN)

Site name	County	Precip to Date*	Monthly Precip	Avg Air Temp	Soil Moisture					Soil Temperature				
					2"	4"	8"	20"	40"	2"	4"	8"	20"	40"
		<i>in.</i>	<i>in.</i>	<i>° F</i>	<i>volume %</i>					<i>° F</i>				
WESTERN														
Grouse Creek	<i>Box Elder</i>	6.7	0.8	32	6	24	28	29	29	31	33	35	36	39
Park Valley	<i>Box Elder</i>	4.4	0.1	32	5	9	27	29	24	26	30	33	36	40
Goshute	<i>Tooele</i>	4.4	0.4	32	10	21	22	34	27	22	28	33	34	38
Dugway	<i>Tooele</i>	4.6	0.2	32	11	34	37	nd	13	27	32	34	38	39
Tule Valley	<i>Millard</i>	4.2	0.2	32	12	13	18	21	6	22	29	33	34	38
Hal's Canyon	<i>Millard</i>	3.8	0.0	32	3	5	9	7	7	21	26	28	32	38
Enterprise	<i>Washington</i>	9.9	0.1	32	6	39	36	29	33	29	33	33	37	40
DIXIE														
Sand Hollow	<i>Washington</i>	8.3	0.1	32	0	4	4	5	5	31	35	38	43	47

*since October 1, 2010, (nd) no data. Monthly Precip is the amount of precipitation accumulated in the past month and Avg Air Temp is the average air temperature measured at the SCAN station. 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.

2010 Minimum Soil Temperatures at Utah SCAN sites

Minimum soil temperatures and number of days less than or equal to 32°F.

Site Name	2-inch		4-inch		8-inch		20-inch		40-inch	
	min. temp	#								
	°F	days								
Alkali Mesa	23	34	22	45	29	5	34	0	36	0
Blue Creek	20	64	24	26	26	22	33	0	38	0
Buffalo Jump	19	125	24	121	26	113	31	68	R	
Cache Junction	22	83	24	54	27	50	34	0	38	0
Chicken Ridge	23	133	26	102	26	92	33	0	35	0
Circleville	19	82	21	96	21	127	29	29	37	0
Dugway	15	56	21	39	26	28	35	0	37	0
Eastland	28	38	31	23	32	0	34	0	36	0
Enterprise	23	52	29	32	30	27	34	0	40	0
Ephraim	18	105	26	56	30	6	35	0	38	0
Grantsville	22	65	27	42	32	7	38	0	46	0
Green River	15	99	16	94	21	89	27	44	35	0
Holden	26	27	27	29	29	21	33	0	41	0
Lightning Ridge	32	12	34	0	33	0	33	0	35	0
Little Red Fox	28	43	29	44	30	41	33	0	36	0
McCracken Mesa	26	55	31	8	33	0	36	0	40	0
Milford	22	43	27	26	29	11	36	0	42	0
Morgan	24	80	26	82	27	56	32	1	34	0
Mountain Home	25	27	28	19	30	11	34	0	38	0
Nephi	24	34	27	22	30	6	36	0	39	0
Panguitch	25	53	28	35	29	29	33	0	38	0
Price	15	79	21	71	25	50	32	0	37	0
Sand Hollow	33	0	36	0	40	0	43	0	46	0
Split Mountain	18	53	20	52	23	51	28	41	34	0
West Summit	20	53	22	55	28	6	33	0	36	0

min. temp, minimum temperature recorded; #, number of days less than or equal to 32°F; R, bedrock; site installation not complete in time to calculate 2010 frost depth at Harm's Way, Goshute, Hal's Canyon, Tule Valley, Vermillion, Cave Valley, Grouse Creek, Spooky, Manderfield, and Park Valley.

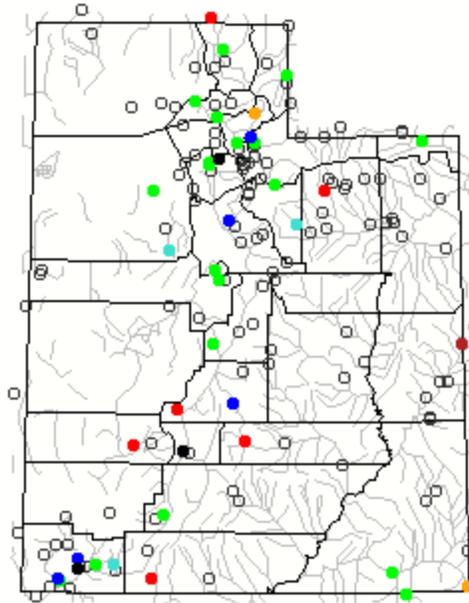
Utah Hydrologic Summary

February 1, 2011

Current Conditions

Soil moisture uniformly across the state are extremely high – at or above recorded levels. Precipitation across the state was below normal for January (36%-86%). Snowpack across the state remains above average and in some cases is above the average for April 1. Reservoir storage is generally high across the state as well. All things considered – high snowpack, high soil moisture and excellent reservoir storage – the water supply outlook across is very good.

Current Utah Streamflow - Courtesy US Geological Survey
Wednesday, February 02, 2011 12:30ET



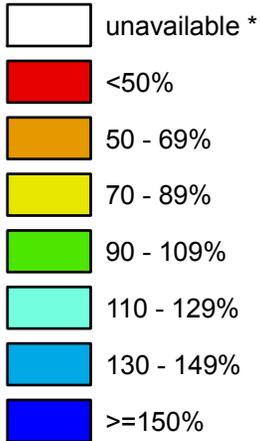
Explanation - Percentile classes							
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not ranked

Utah

SNOTEL Current Snow Water Equivalent (SWE) % of Normal

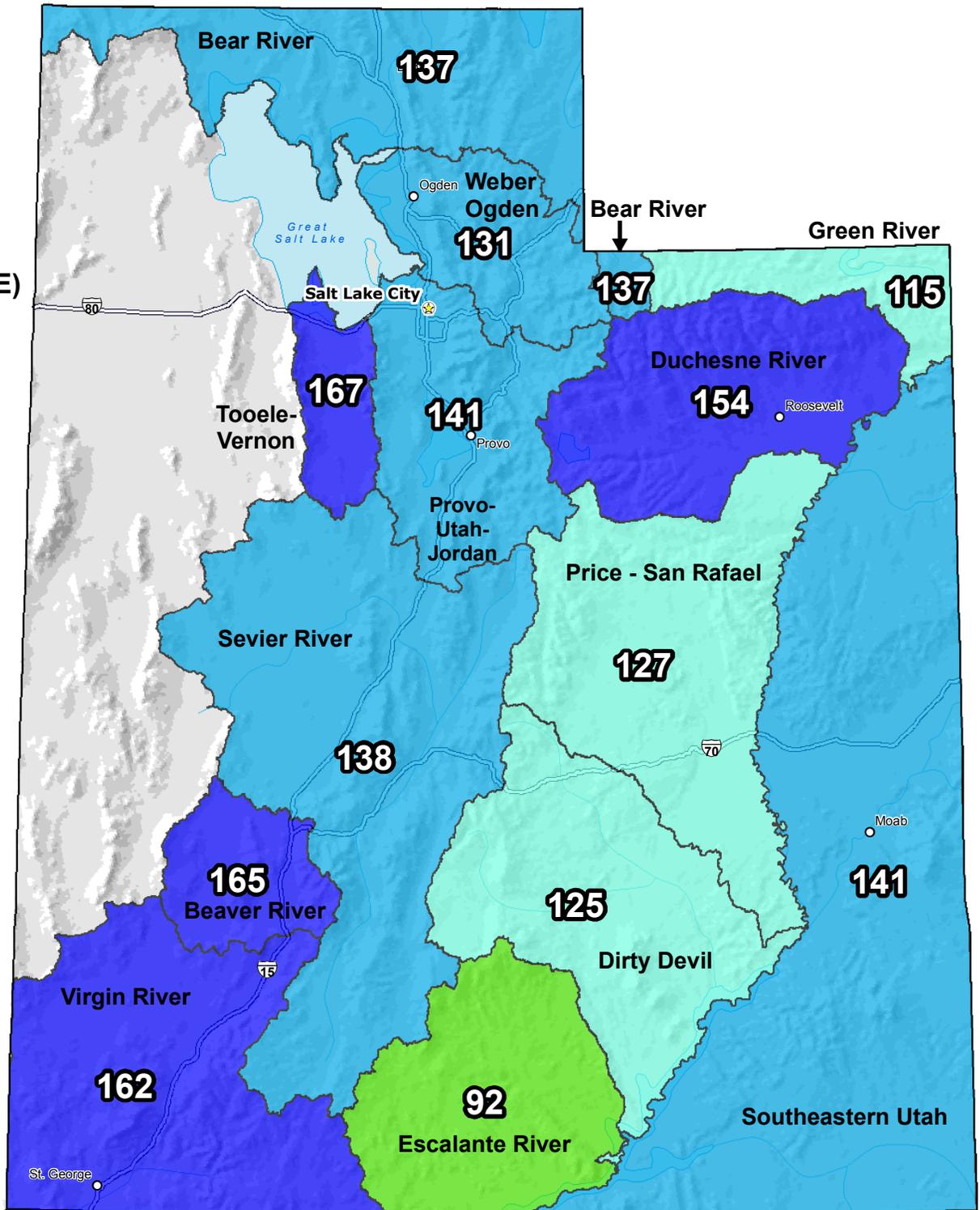
Feb 03, 2011

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



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

**Provisional Data
Subject to Revision**



The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

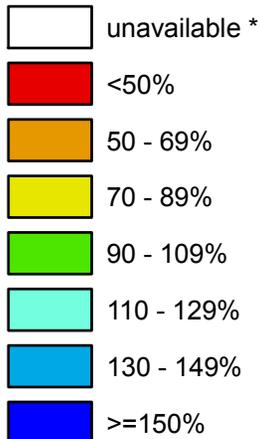
Prepared by the USDA/NRCS National Water and Climate Center
Portland, Oregon <http://www.wcc.nrcs.usda.gov/gis/>
Based on data from <http://www.wcc.nrcs.usda.gov/reports/>
Science contact: Jim.Marron@por.usda.gov 503 414 3047

Utah

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

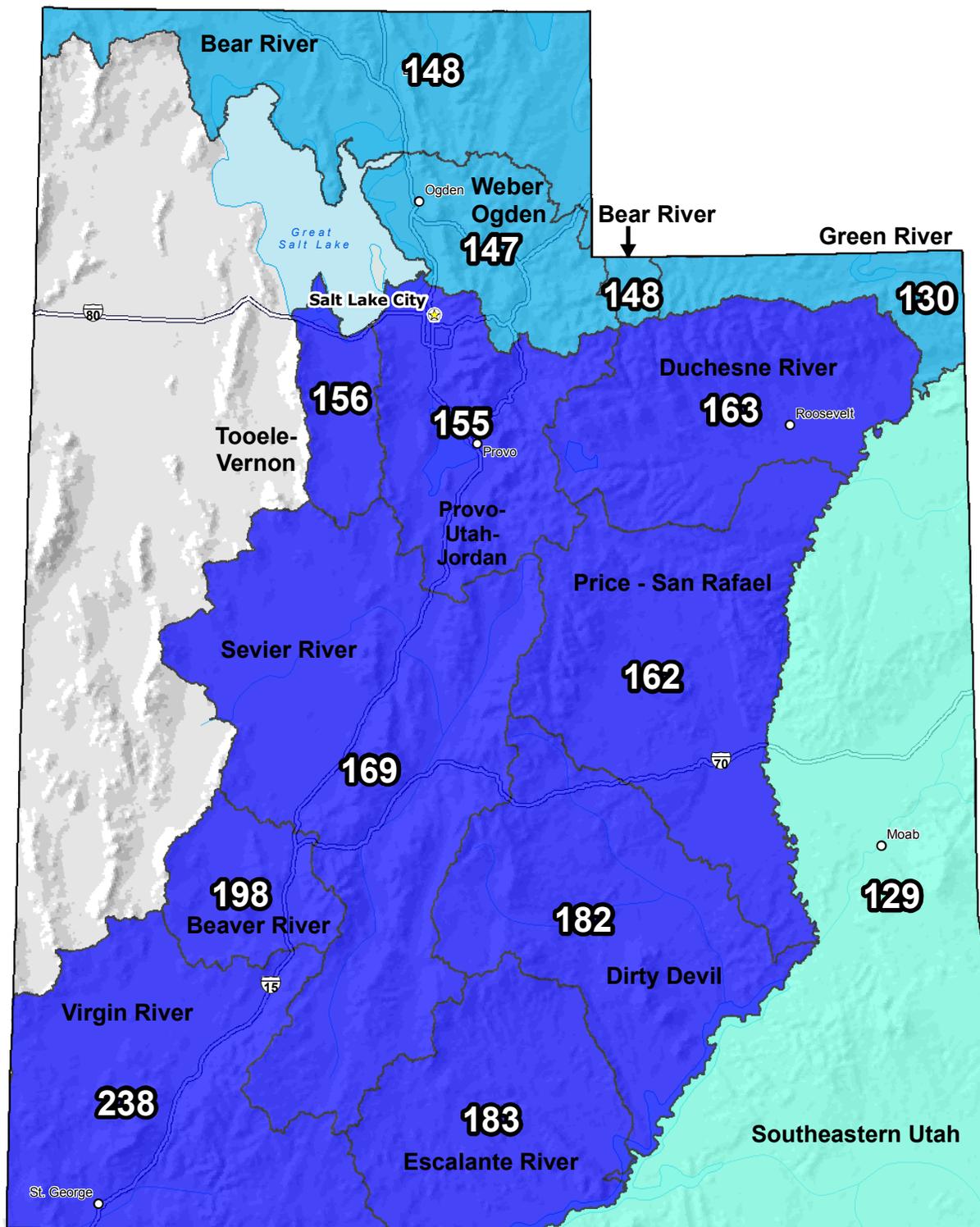
Feb 03, 2011

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



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

**Provisional Data
Subject to Revision**

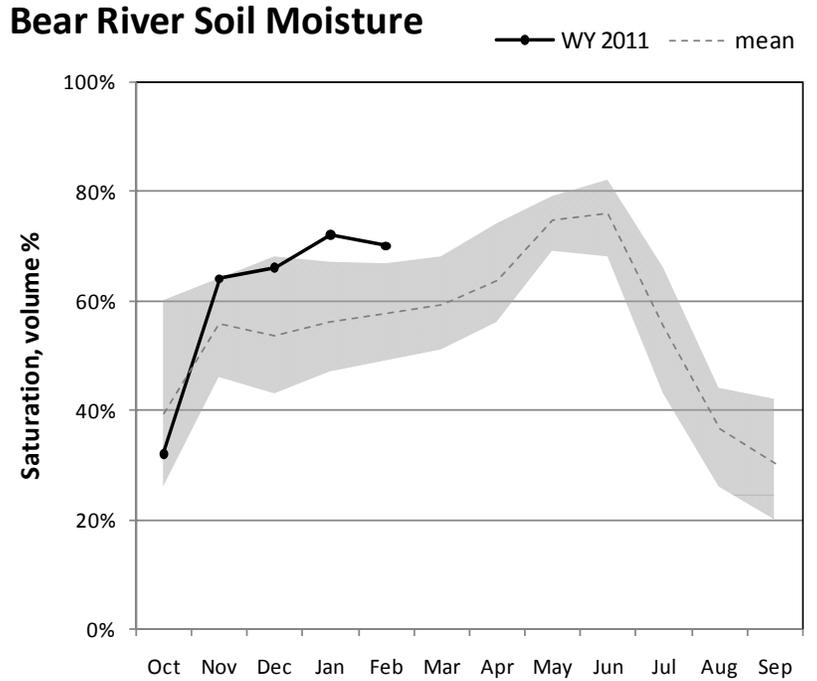
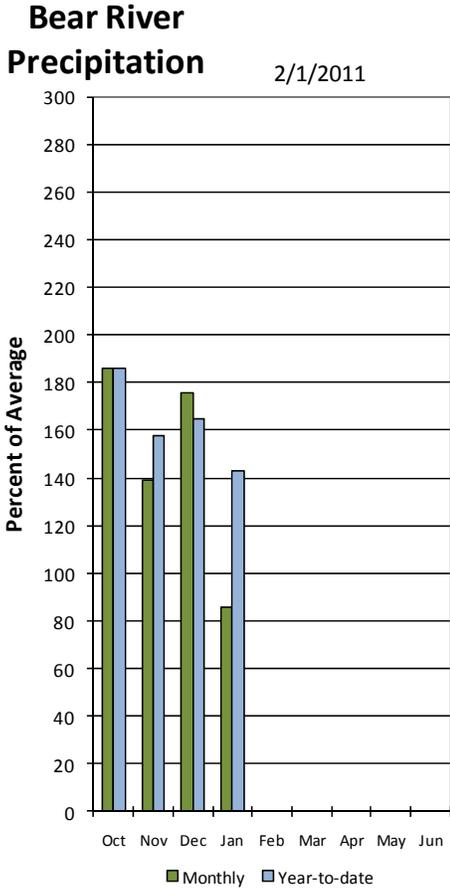


The water year to date precipitation percent of normal represents the accumulated precipitation found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

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

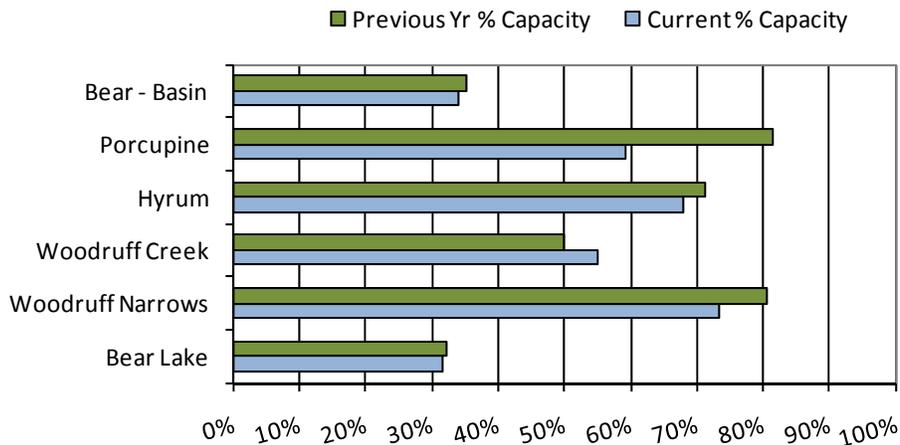
Bear River Basin February 1, 2011

Precipitation in January was below average at 86% which brings the water year accumulation to 143%. Reservoir storage is low at 34% of capacity, which is 1% lower than this time last year. Soil moisture is at 70% compared to 49% last year.



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

February Bear River Reservoir Storage



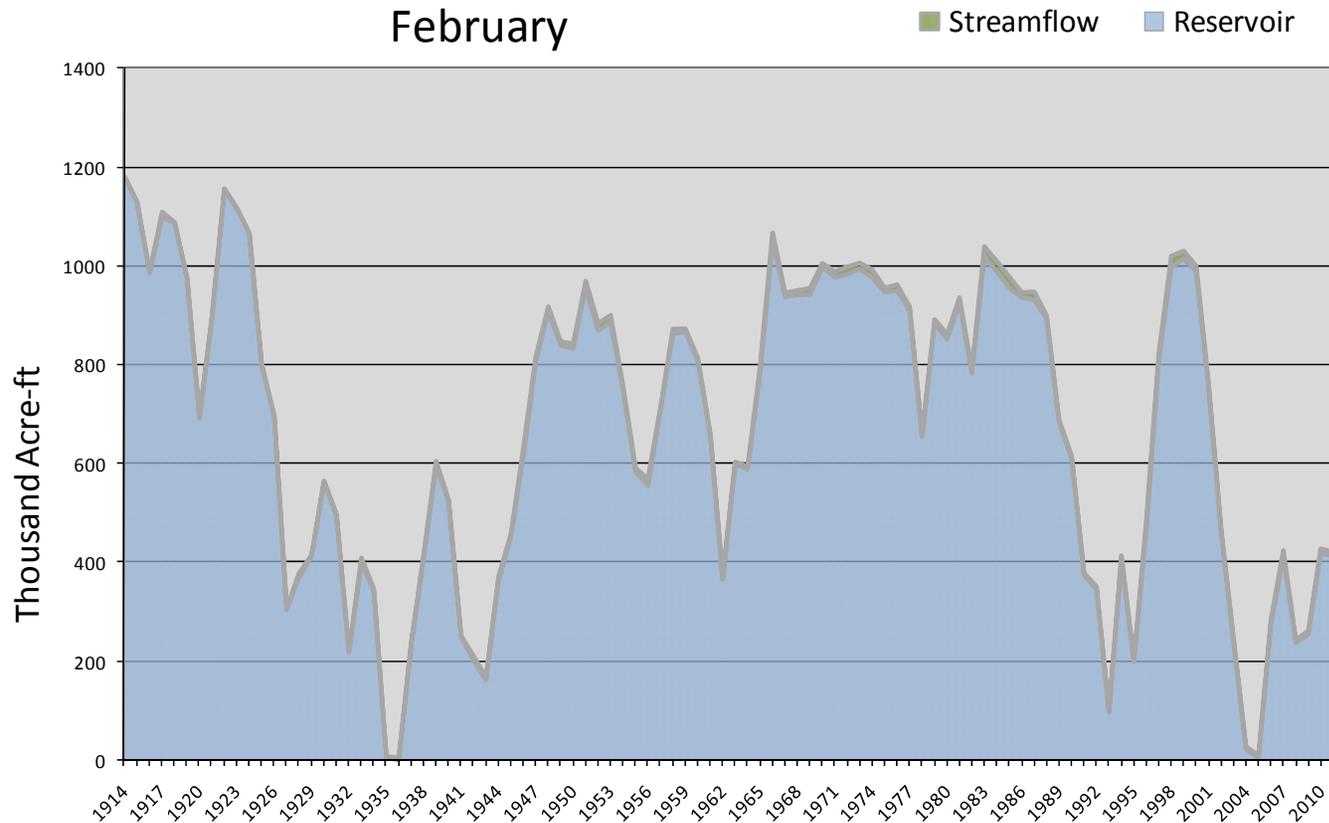
February 1, 2011

Water Availability Index

Basin or Region	January EOM* Bear Lake	January accumulated inflow to Bear Lake (<i>observed</i>)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Bear River	413	9.0	418	-1.89	27	29,38,07,10

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

Bear Lake - Water Availability Index February

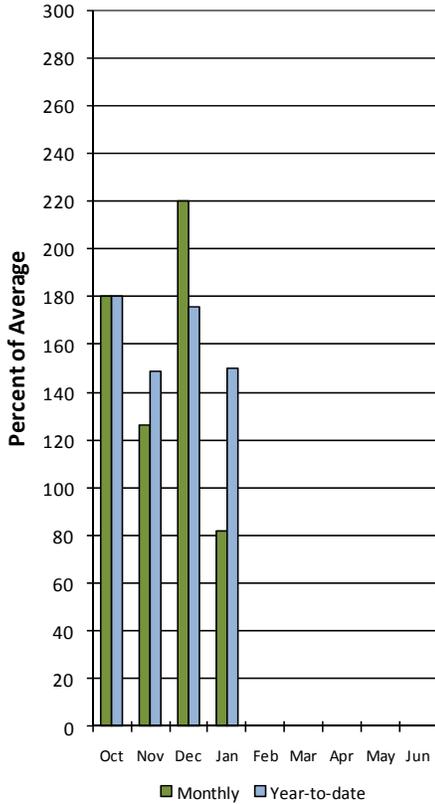


Weber and Ogden River Basin February 1, 2011

Precipitation in January was below average at 82% which brings the water year accumulation to 150%. Reservoir storage is at 72% of capacity, which is the same as this time last year. Soil moisture is at 68% compared to 48% last year.

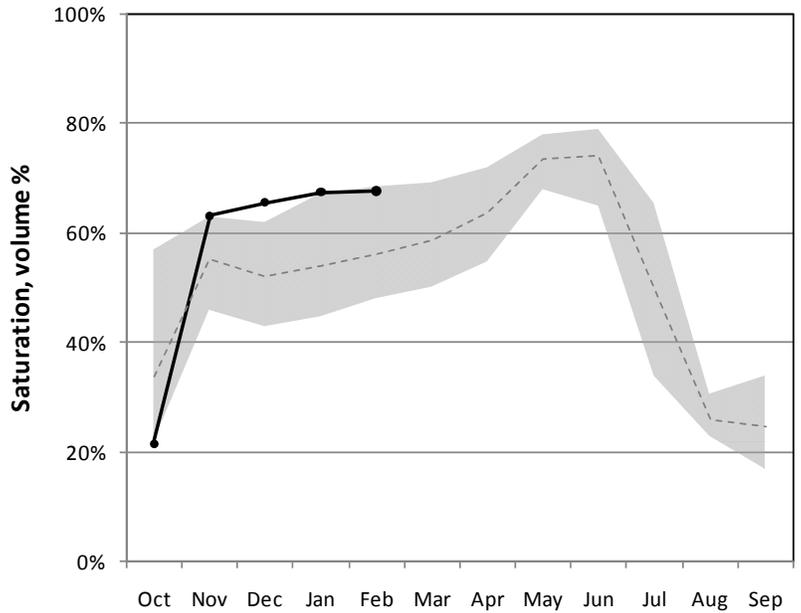
Weber River Precipitation

2/1/2011



Weber River Soil Moisture

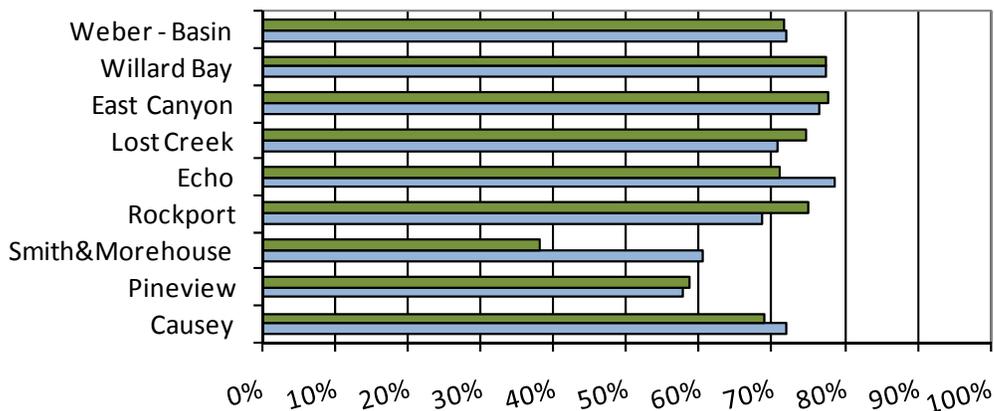
—●— WY2011 - - - - mean



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

February Weber Basin Reservoir Storage

■ Previous Yr % Capacity ■ Current % Capacity



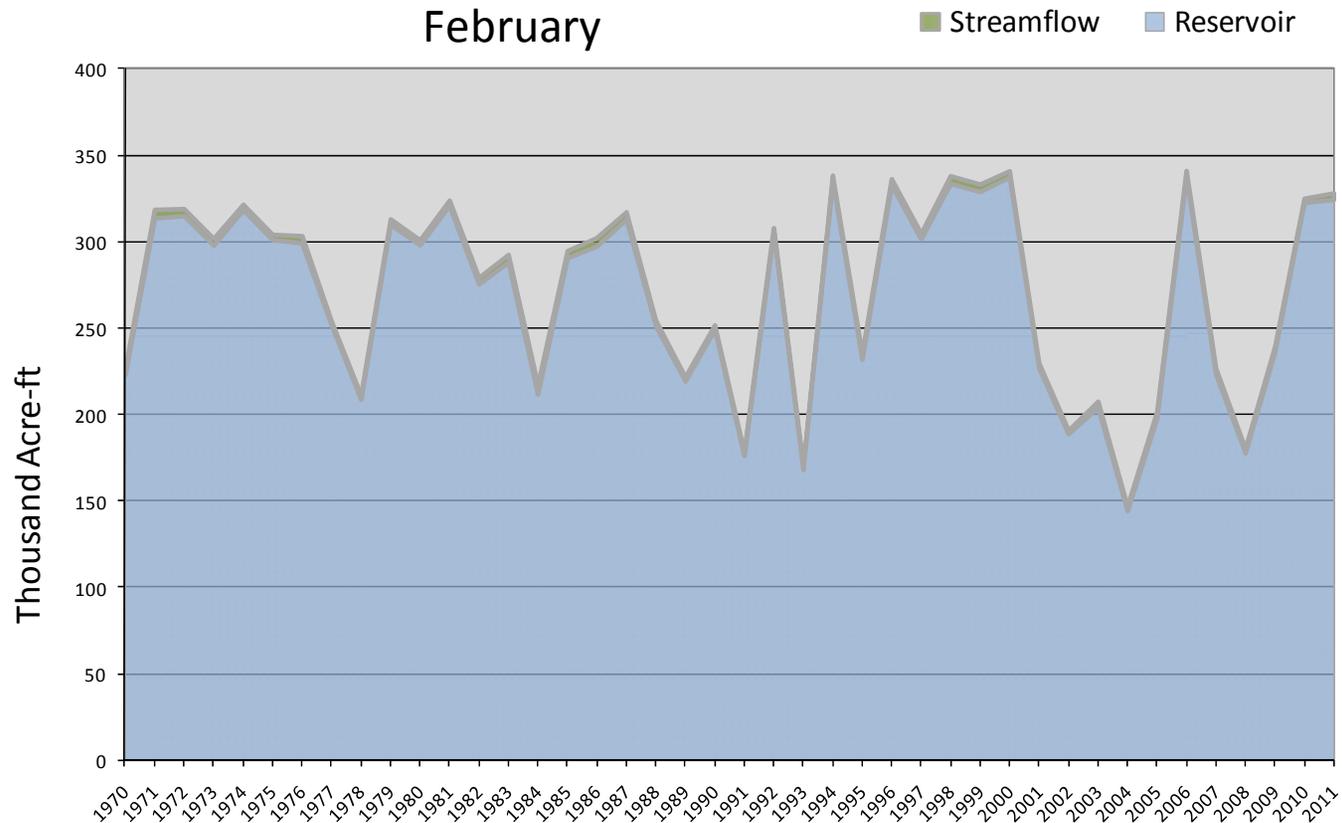
February 1, 2011

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	325	4.0	323	2.81	84	81,10,99,96

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

Weber River - Water Availability Index February



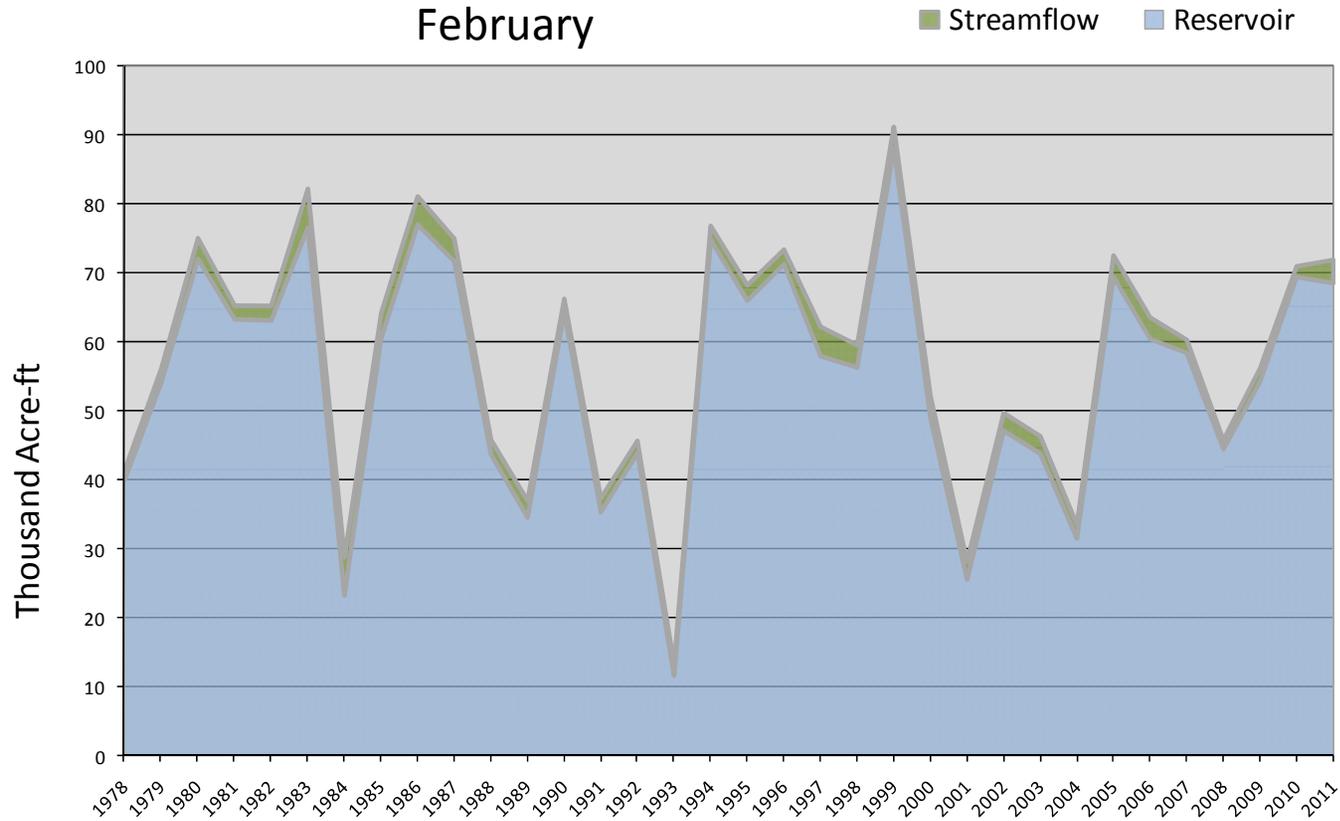
February 1, 2011

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	68.7	3.4	72.1	2.02	74	95, 10, 05, 96

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

Ogden River - Water Availability Index February

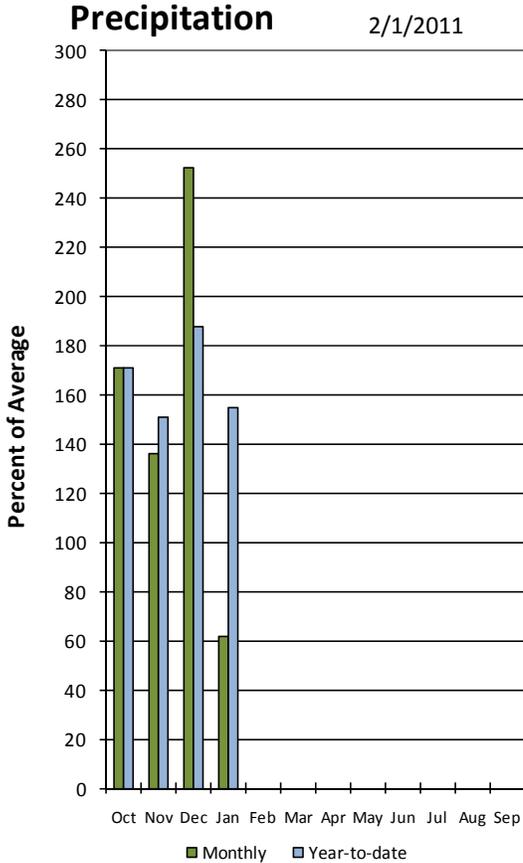


Utah Lake, Jordan River, & Tooele Valley Basins

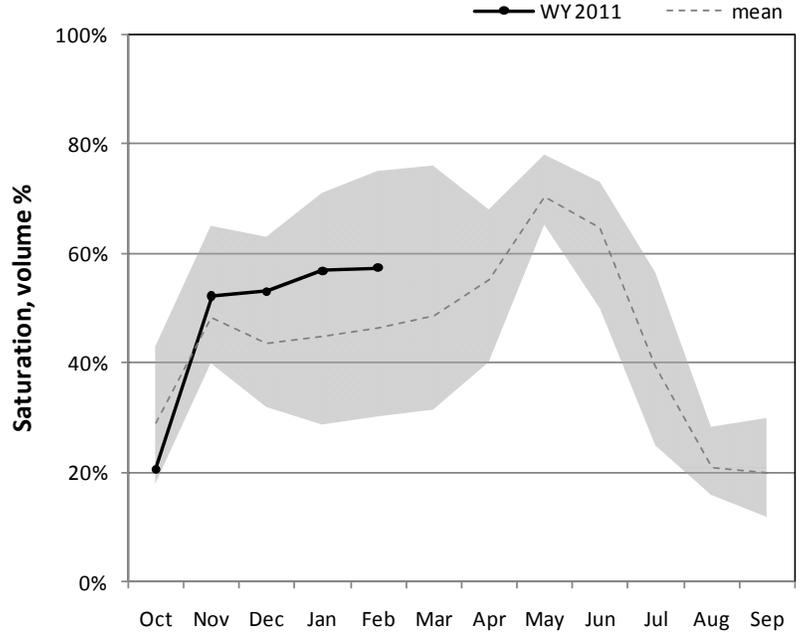
February 1, 2010

Precipitation in January was much below average at 60%, bringing water year accumulation to 155%. Reservoir storage is at 89% of capacity, which is 1% less than this time last year. Soil moisture is at 57% compared to 30% last year at this time.

Jordan / Provo River

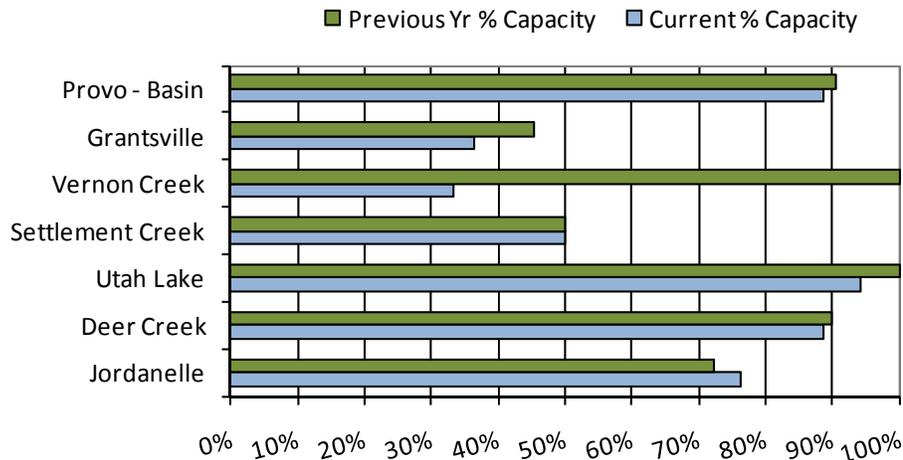


Jordan / Provo River Soil Moisture



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

February Provo River Reservoir Storage



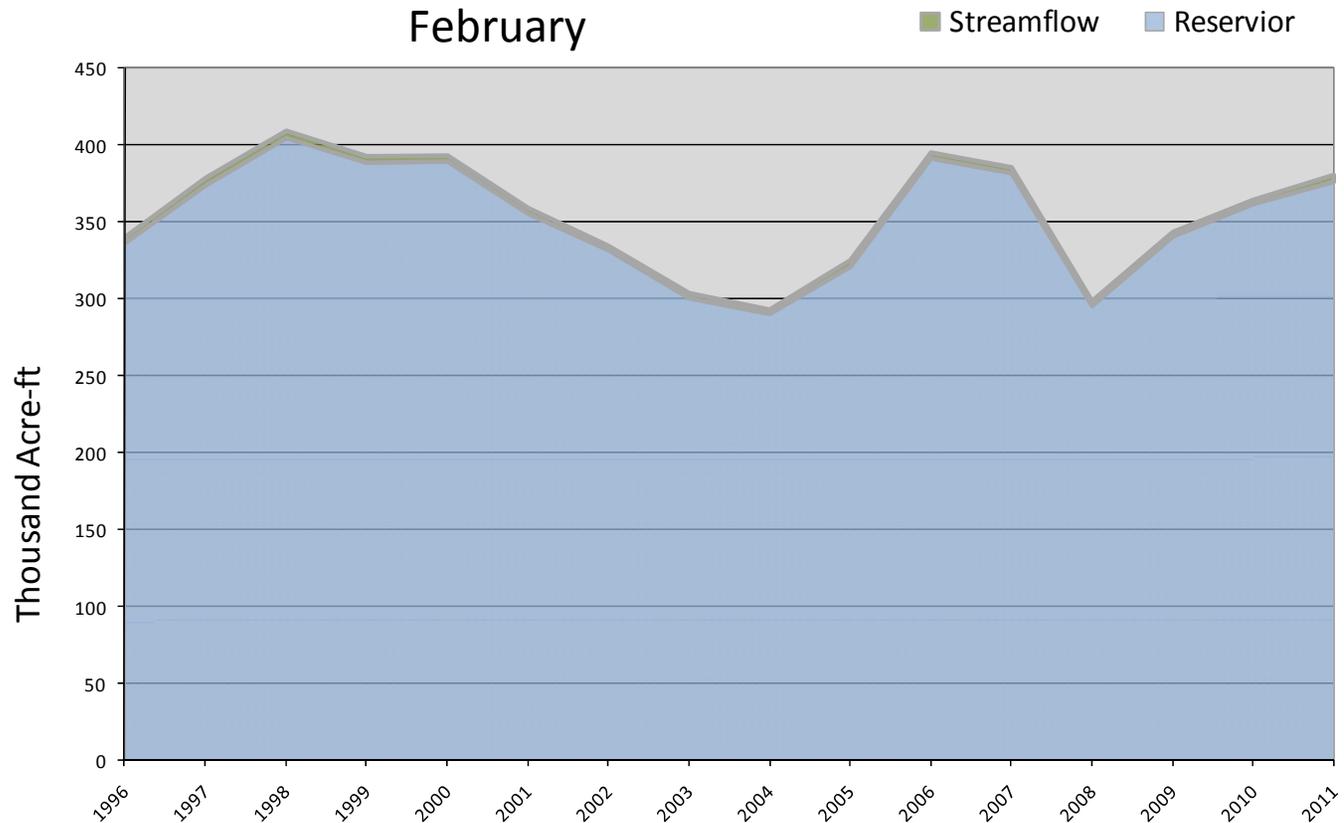
February 1, 2011

Water Availability Index

Basin or Region	January EOM* Deer Creek, Jordanelle	January accumulated flow Provo River at Woodland (<i>observed</i>)	Reservoir + Streamflow	WAI [#]	Percentile	Years with similar WAI
	<i>KAF</i> [^]	<i>KAF</i>	<i>KAF</i>		%	
Provo	377	4.4	381	1.23	65%	10, 97, 07, 99

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

Provo River - Water Availability Index
February

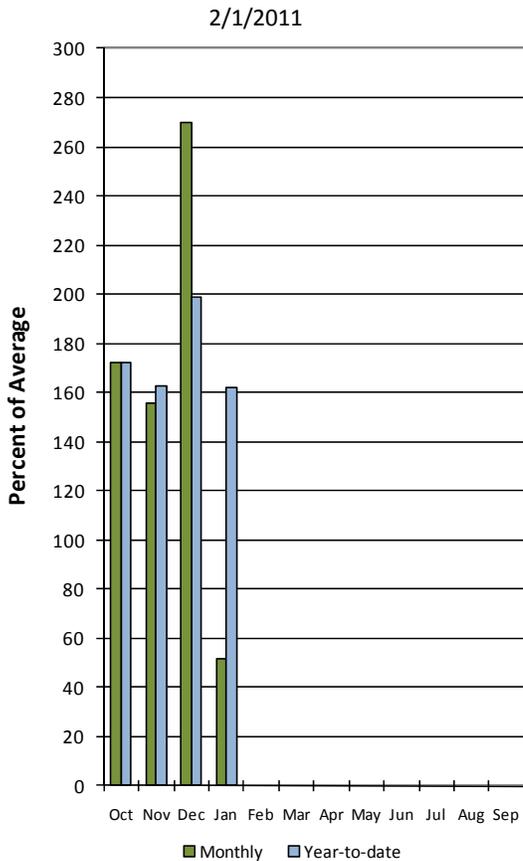


Utah Lake, Jordan River, and Tooele Valley Basins

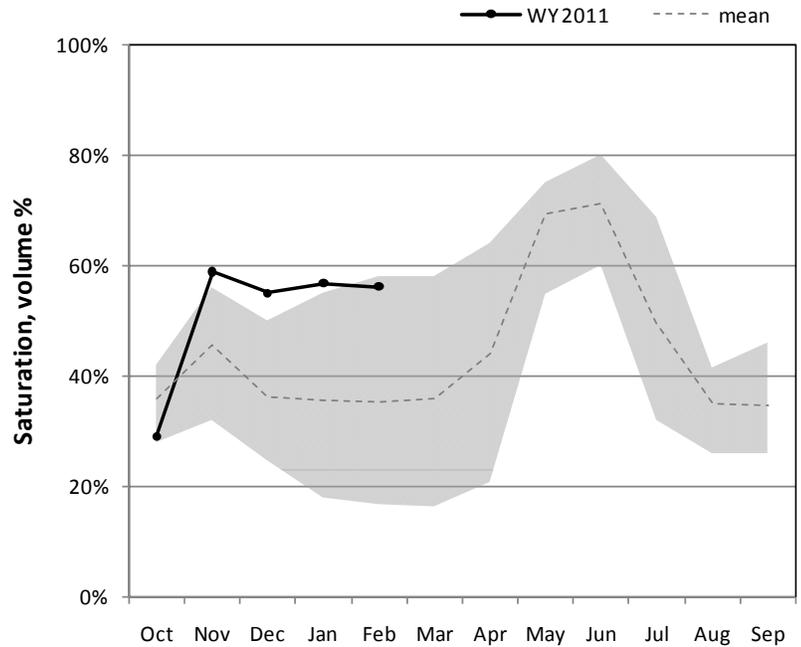
Uintah Basin and Dagget SCDs February 1, 2011

Precipitation in January was much below average at 52%, bringing the water year accumulation to 162%. Reservoir storage is at 84% of capacity, which is 1% lower than at this time last year. Soil moisture is at 56% compared to 17% last year.

Uintah Precipitation

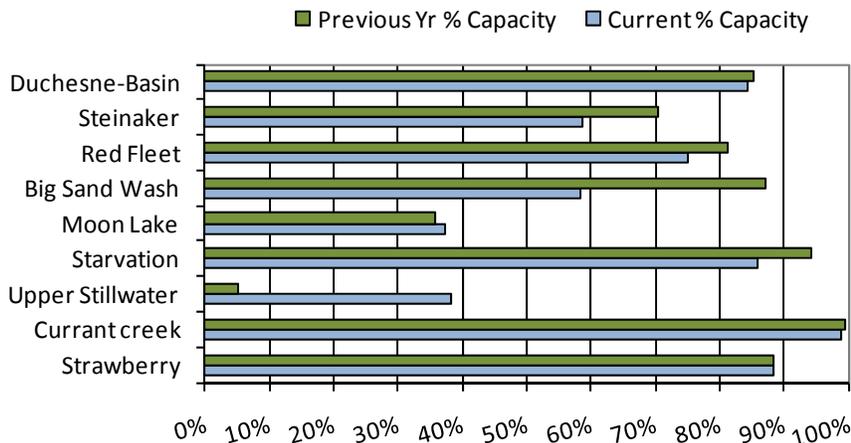


Uintah Basin Soil Moisture



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

February Uintah Basin Reservoir Storage



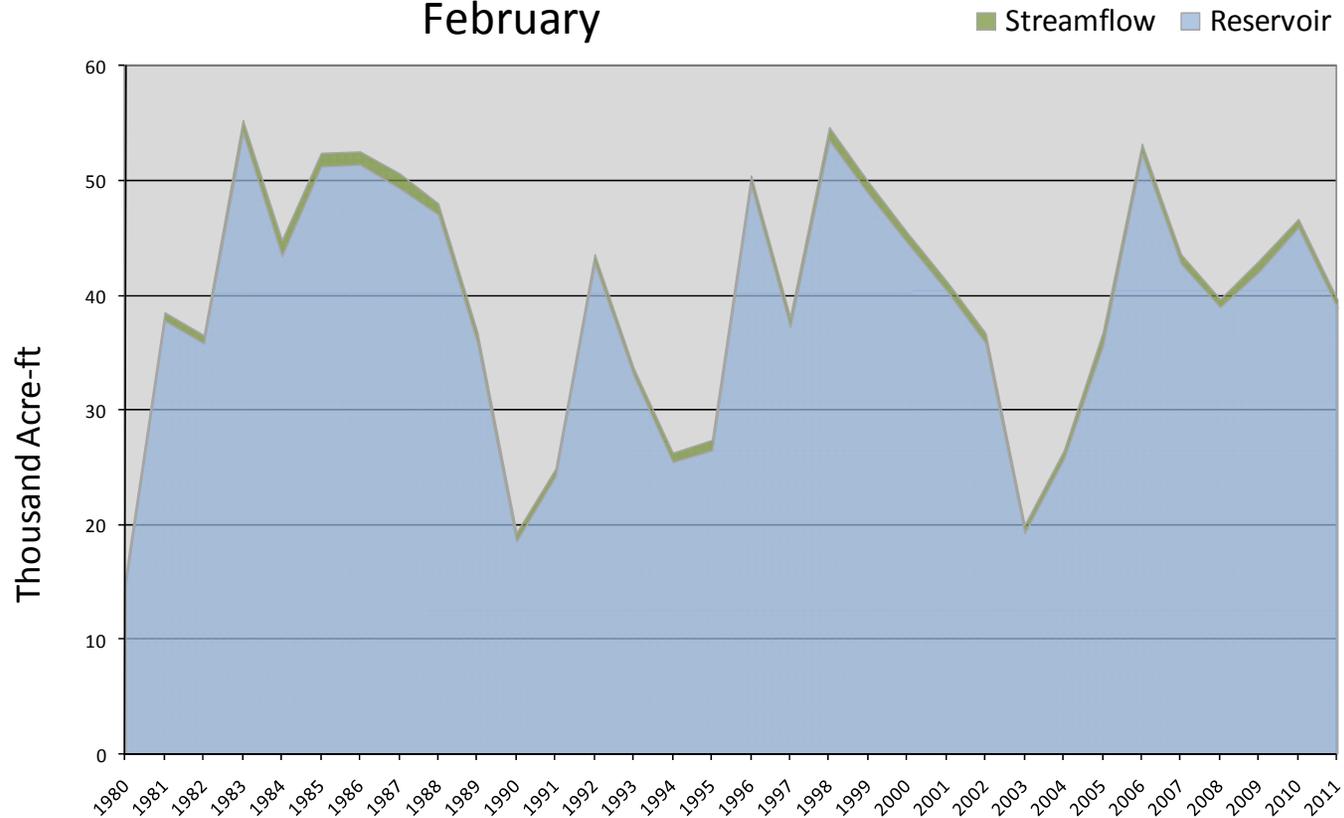
February 1, 2011

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	38.9	0.7	39.6	-0.38	45	97, 81, 08, 01

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

Eastern Uintah - Water Availability Index February



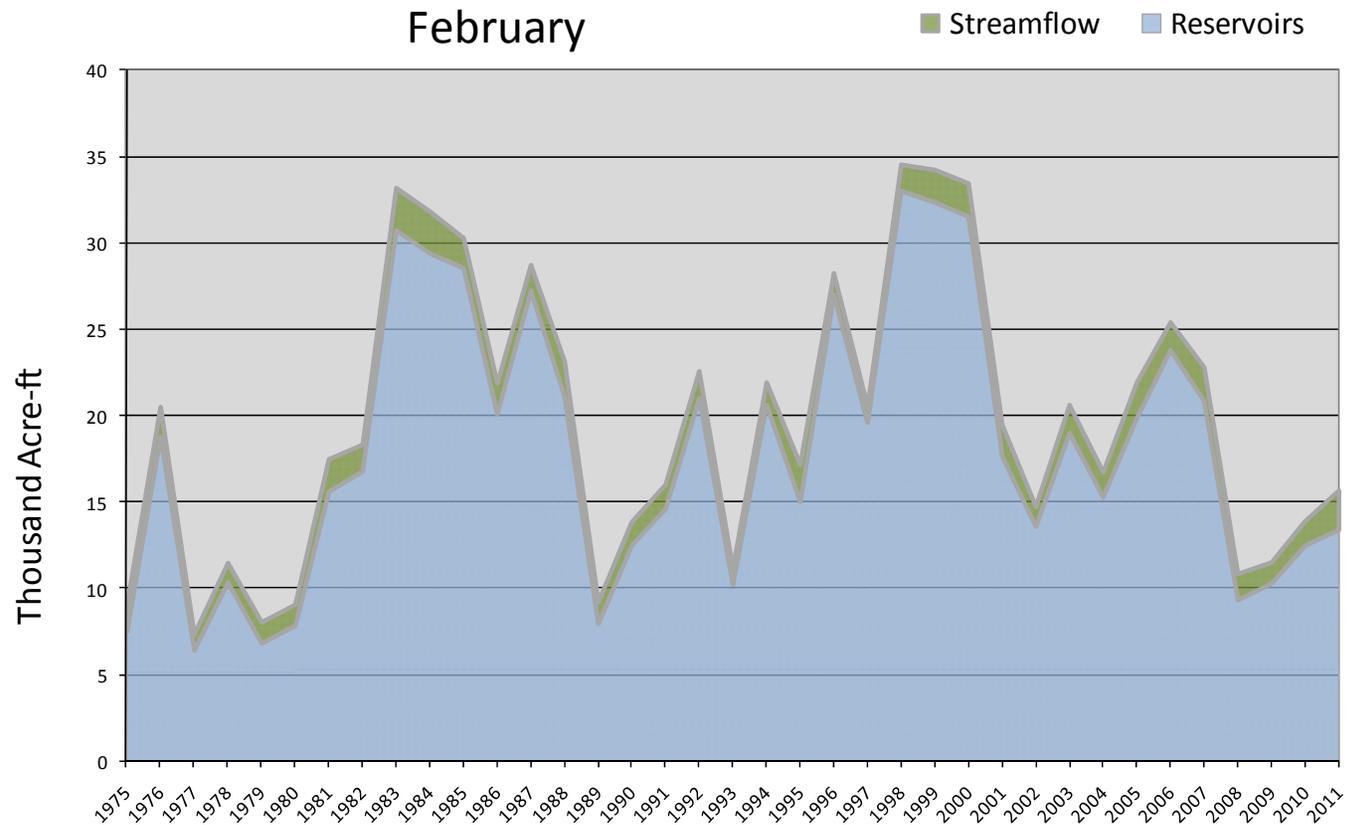
February 1, 2011

Water Availability Index

Basin or Region	January EOM* Moon Lake	January accumulated flow Lake Fork Creek above Moon Lake <i>(observed)</i>	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	<i>KAF^</i>	<i>KAF</i>	<i>KAF</i>		%	
Moon Lake	13.4	2.3	15.7	-1.32	34	10, 02, 91, 04

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

Moon Lake - Water Availability Index February

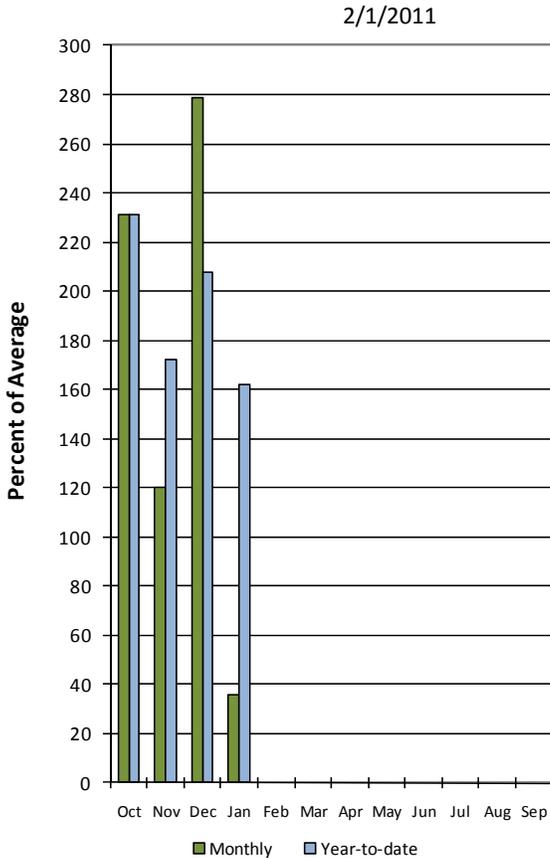


Southeast – Carbon, Emery, Wayne, Grand, and San Juan Counties

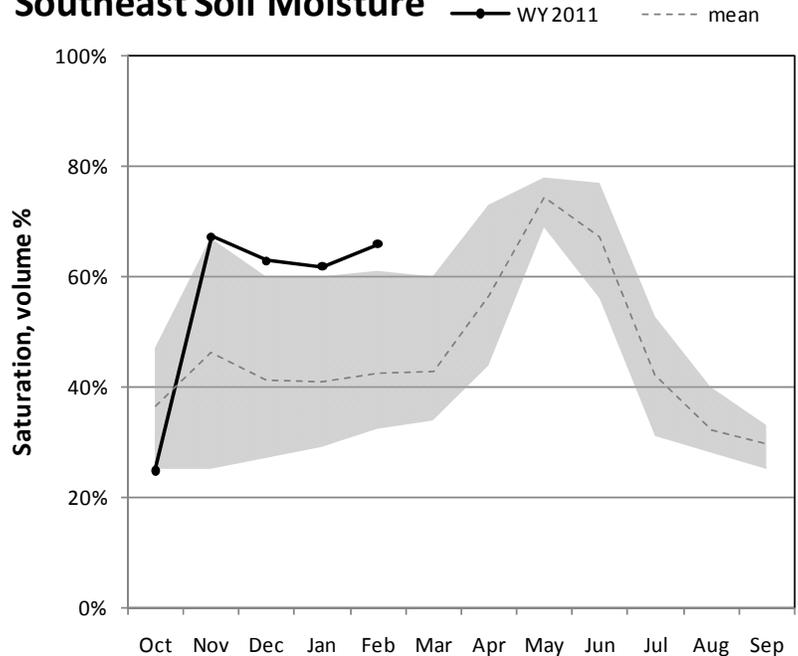
February 1, 2011

Precipitation in January was much below average at 36%, bringing the water year accumulation to 162%. Reservoir storage is at 53% of capacity, which is 1% higher at this time last year. Soil moisture is at 66% compared to 32% last year.

Southeast Utah Precipitation

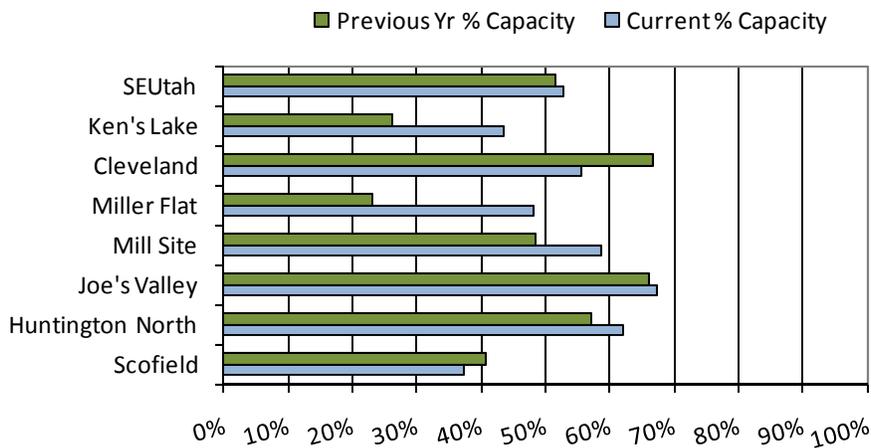


Southeast Soil Moisture



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

February Southeast Utah Reservoir Storage

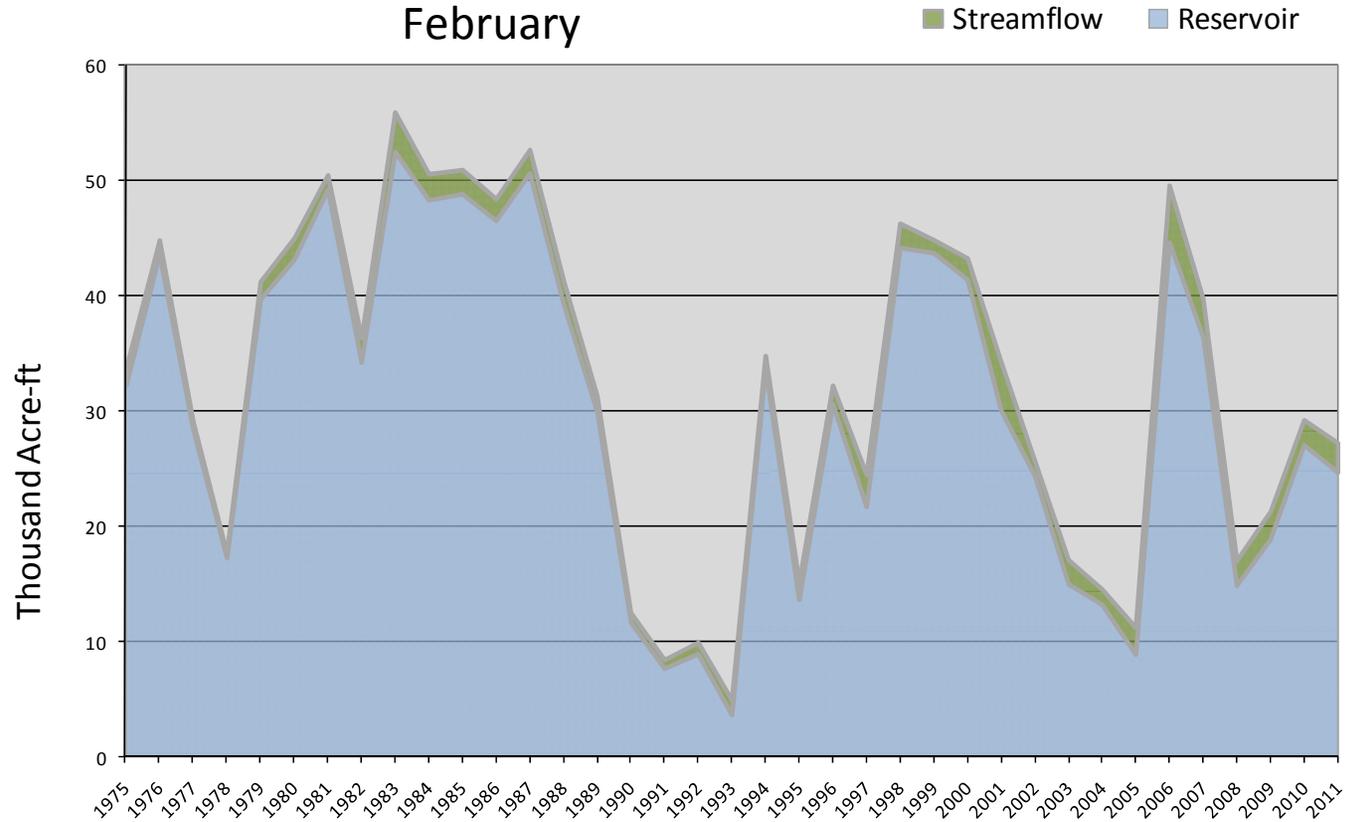


February 1, 2011

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	24.8	2.6	27.3	-1.10	37	97, 02, 77, 10

Price River - Water Availability Index
February



February 1, 2011

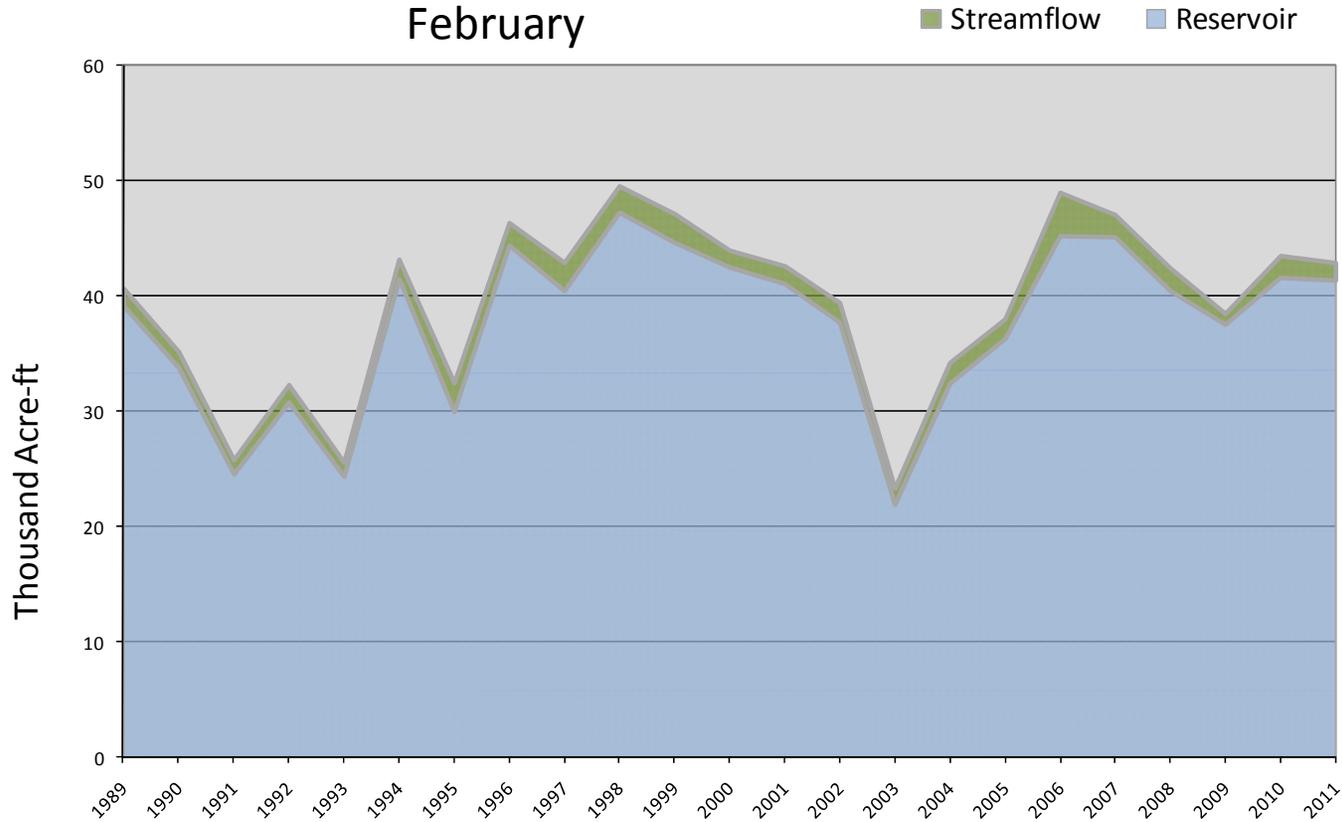
Water Availability Index

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	41.4	1.5	42.9	0.69	58	08, 01, 97, 94

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

Joe's Valley - Water Availability Index

February



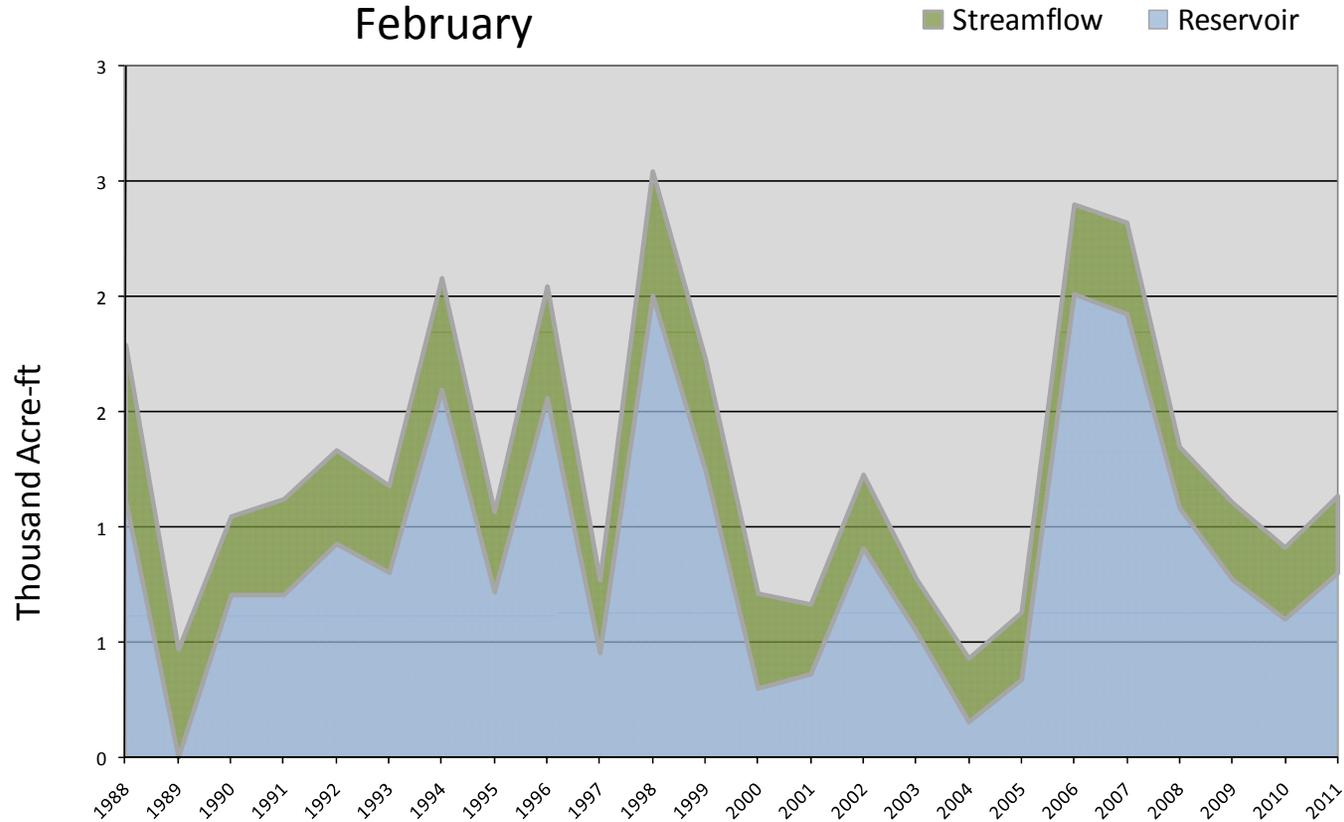
February 1, 2011

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	1.0	0.3	1.3	-0.17	48	90, 95, 02, 91

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

Moab - Water Availability Index February

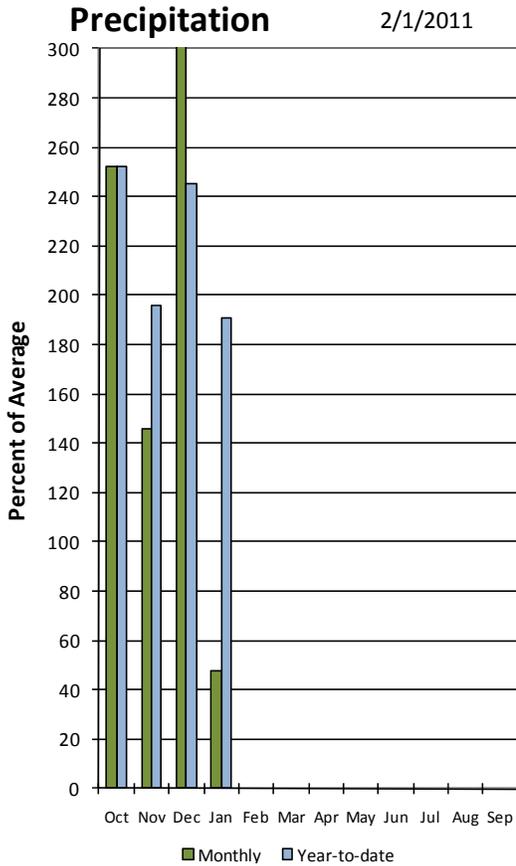


Sevier and Beaver River Basins

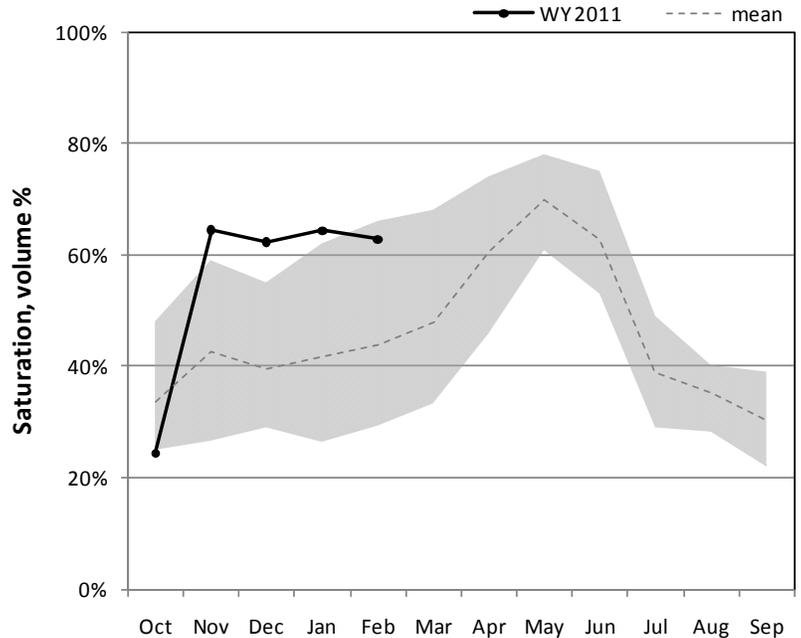
February 1, 2011

Precipitation in January was much below average at 48%, which brings the seasonal accumulation (Oct-Jan) to 191% of average. Reservoir storage is low at 48% of capacity, 9% more than last year. Soil moisture is about the same as last month and much higher than last year: current 63%, last month – 64% and last year -29% of saturation.

Sevier /Beaver River

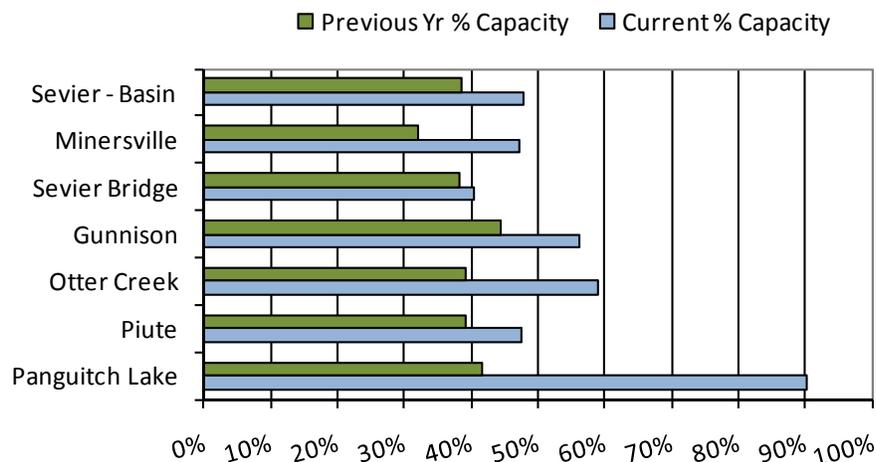


Sevier / Beaver River Soil Moisture



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

February Sevier River Reservoir Storage



February 1, 2011

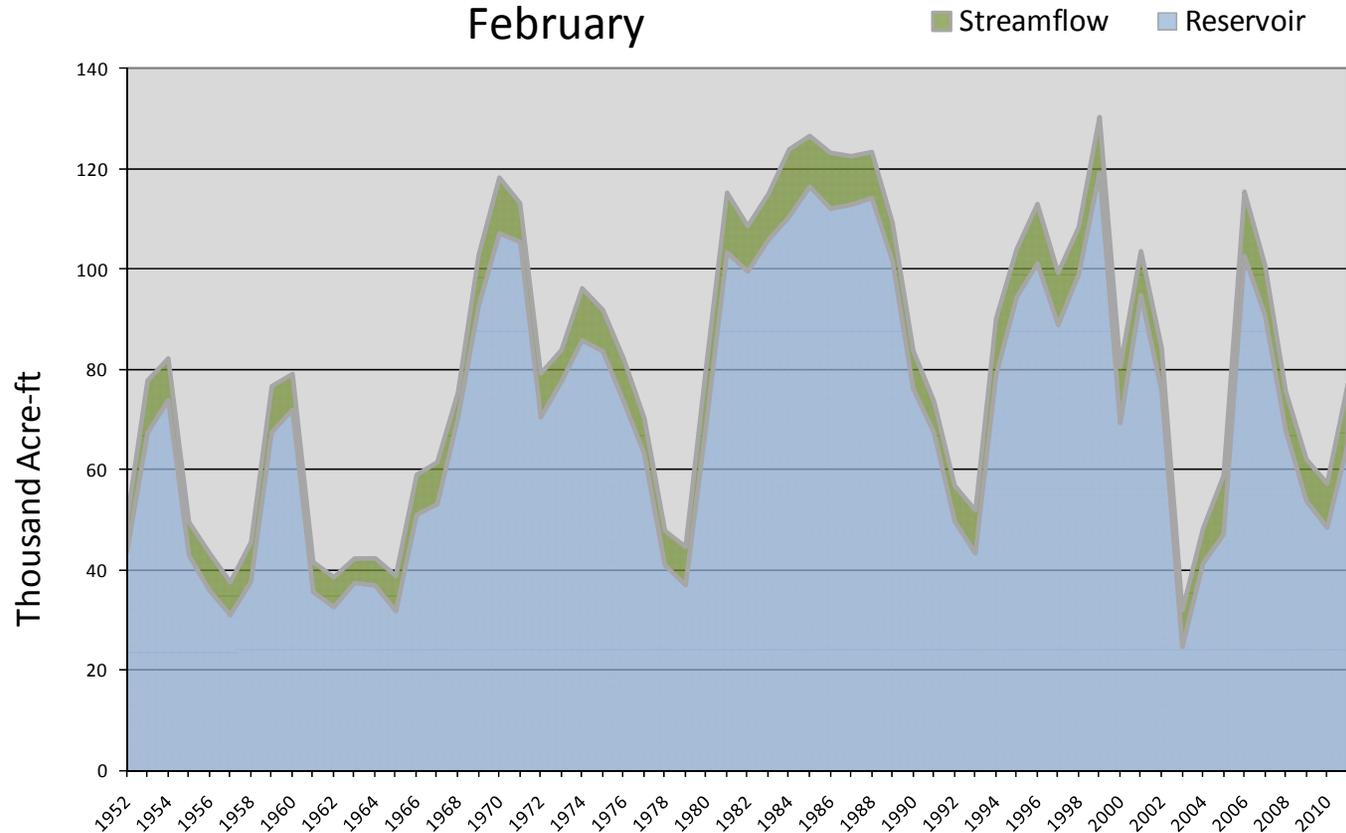
Water Availability Index

Basin or Region	January EOM* Otter Creek and Piute	January 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	65.2	12.0	77.2	-0.48	44	08,59,53,60

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

Upper Sevier River Water Availability Index

February



February 1, 2011

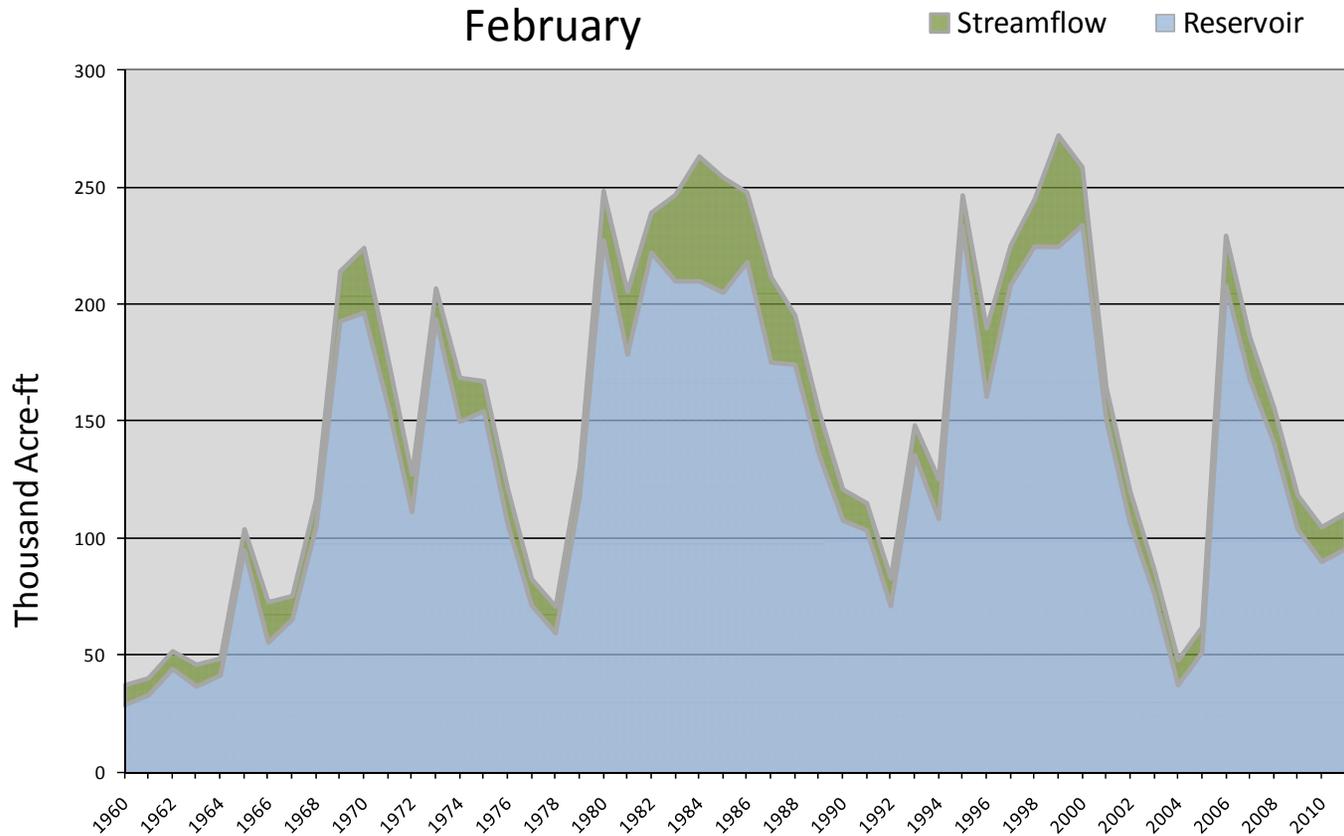
Water Availability Index

Basin or Region	January EOM* Sevier Bridge	January accumulated flow Sevier at Gunnison (observed)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Lower Sevier River	95.5	15.2	110.7	-1.65	30	65,10,91,68

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

Lower Sevier River Water Availability Index

February



Sevier and Beaver River Basins

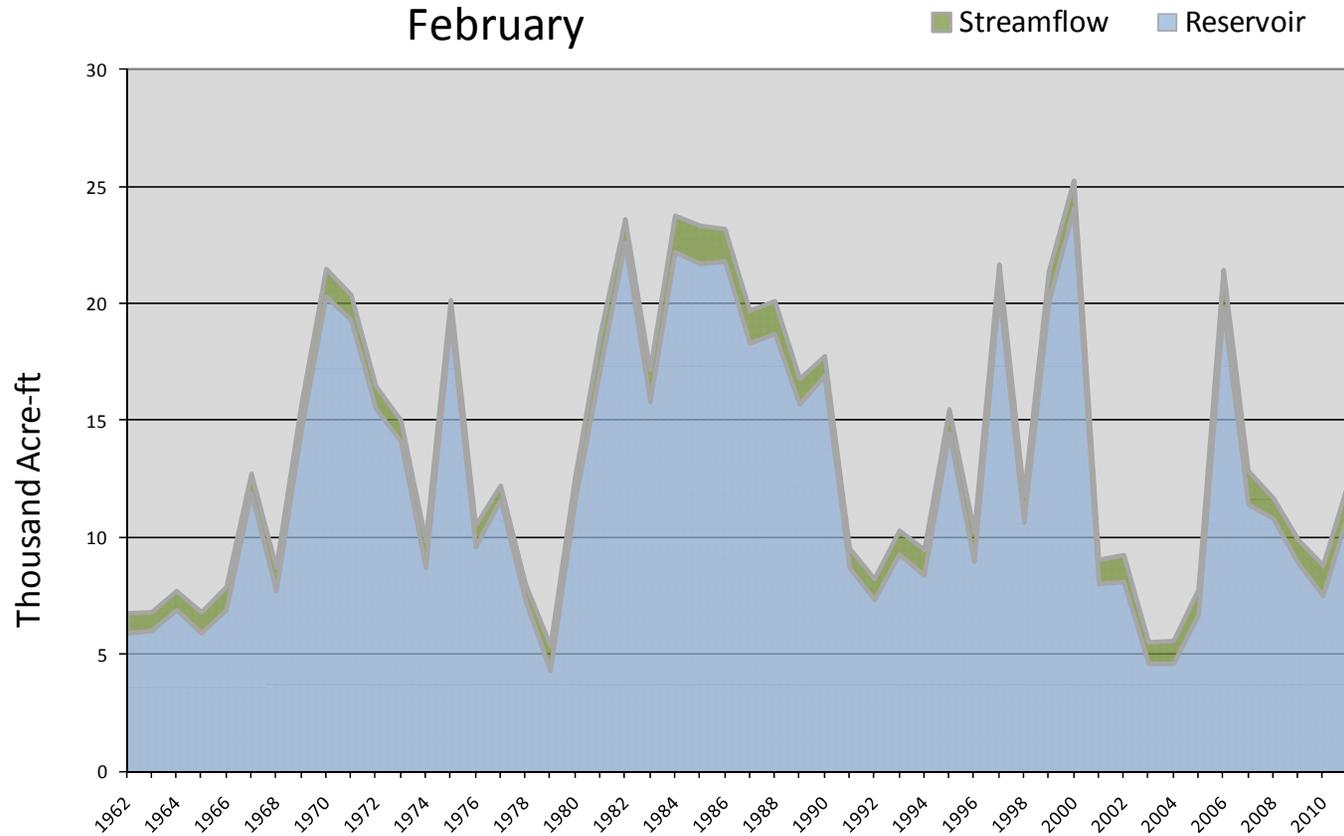
February 1, 2011

Water Availability Index

Basin or Region	January EOM* Minersville Reservoir	January accumulated flow Beaver River at Beaver (<i>observed</i>)	Reservoir + Streamflow	WAI#	Percentile	Years with similar WAI
	KAF^	KAF	KAF		%	
Beaver	11.0	1.3	12.3	0.08	51	98,77,80,67

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

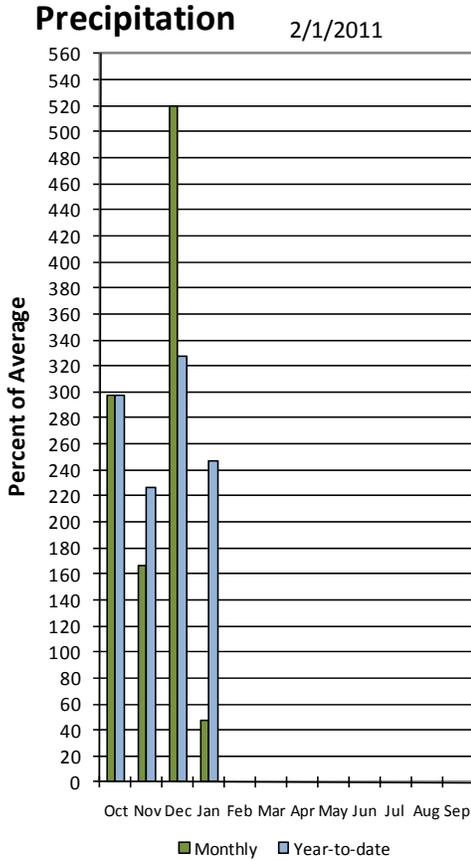
Beaver River Water Availability Index February



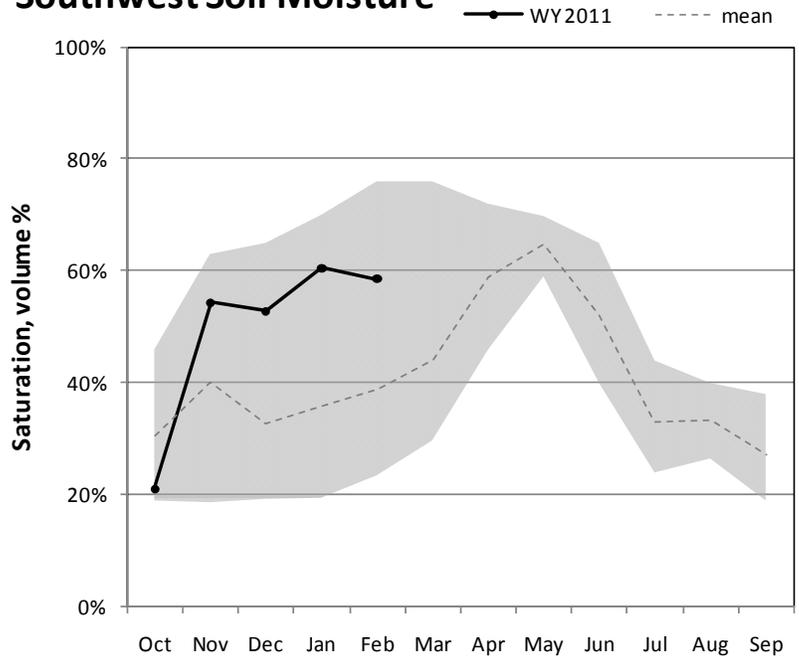
Southwest – E. Garfield, Kane, Washington, & Iron Counties February 1, 2011

Precipitation in January was much below average at 7%, bringing water year accumulation to 233%. Reservoir storage is at 82% of capacity, 23% higher than last year at this time. Soil moisture is at 59% compared to 24% at this time last year.

Southwest Utah

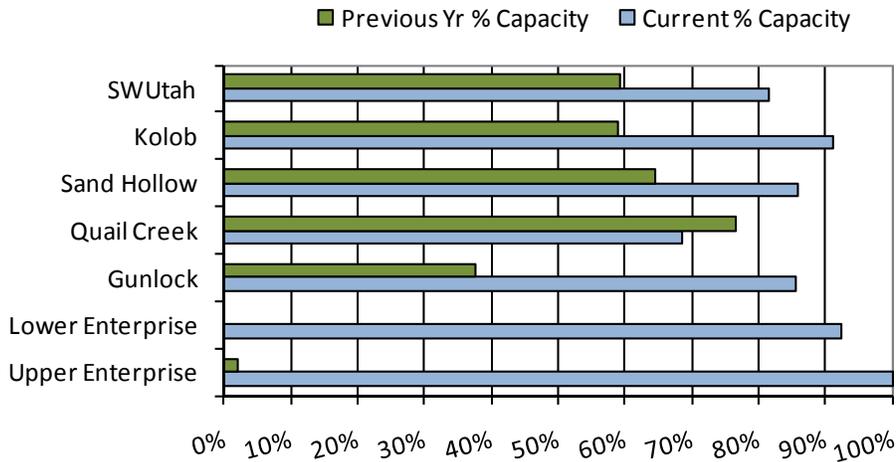


Southwest Soil Moisture



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

February Southwest Utah Reservoir Storage



February 1, 2011

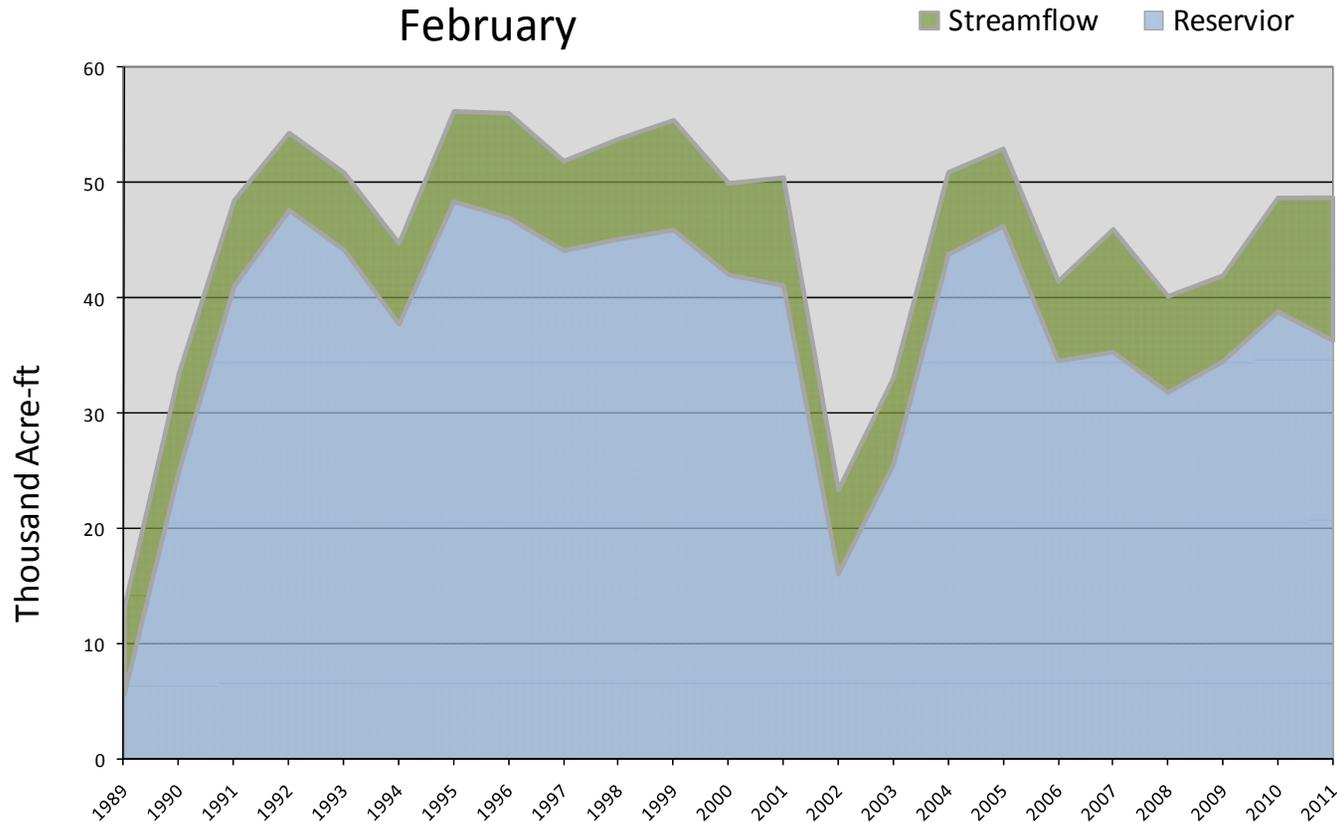
Water Availability Index

Basin or Region	January EOM* Reservoir	January 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	36.3	12.4	48.7	1.93	67%	96, 05, 95, 98

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

Southwest - Water Availability Index

February



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

