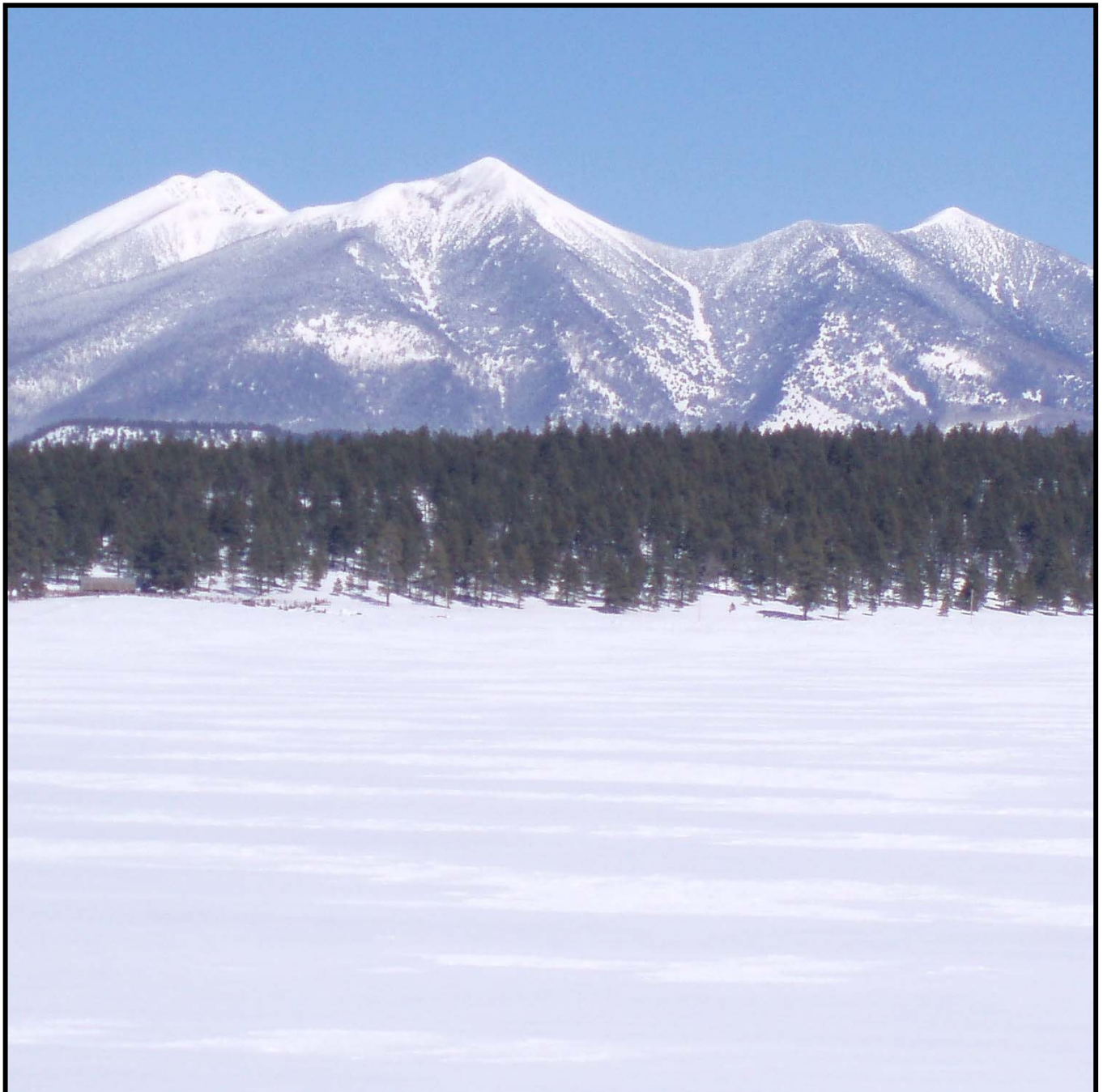




United States  
Department of  
Agriculture

Natural  
Resources  
Conservation  
Service

# Arizona Basin Outlook Report April 1, 2018



**Issued by**

Leonard Jordan  
Acting Chief  
Natural Resources Conservation Service  
U.S. Department of Agriculture

**Released by**

Keisha L. Tatem  
State Conservationist  
Natural Resources Conservation Service  
Phoenix, Arizona

## **Basin Outlook Reports And Federal – State – Private Cooperative Snow Surveys**

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### ***How forecasts are made***

Most of the annual streamflow in Arizona originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snow courses and automated Snow Telemetry (SNOTEL) sites, along with precipitation and streamflow values, are used in statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service (NRCS) the National Weather Service, and the Salt River Project.

Forecasts of any kind are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertainty of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known. This is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or are concerned about having an adequate water supply, they may want to base their decisions on the 90% or 70% exceedance probability forecasts. On the other hand, if users anticipate receiving too much water, or are concerned about the threat of flooding, they may want to base their decisions on the 30% or 10% exceedance probability forecasts. Regardless of the forecast value users choose, they should be prepared to deal with either more or less water.



### ***For more water supply and resource management information, contact:***

Travis Kolling  
Water Supply Specialist  
230 N. First Ave., Suite 509  
Phoenix, AZ 85003-1706  
Phone: (602) 280-8834  
Email: [travis.kolling@az.usda.gov](mailto:travis.kolling@az.usda.gov)

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# ARIZONA Basin Outlook Report as of April 1, 2018

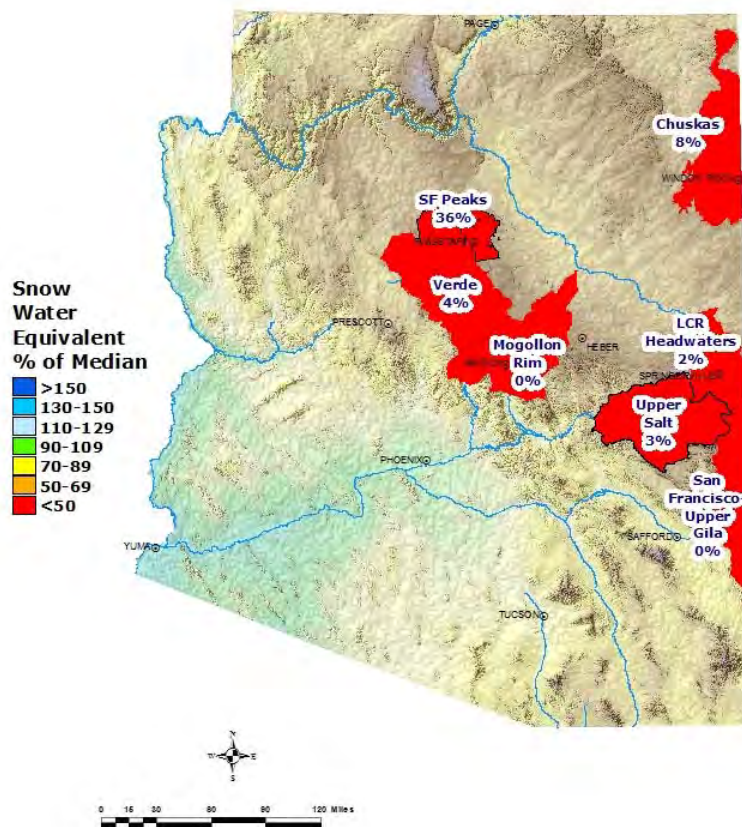
## SUMMARY

As of April 1, snowpack levels are well below normal throughout the major basins of the state. Precipitation for the month of March was also well below normal in the major river basins. The Salt and Verde River reservoir system stands at 60 percent of capacity, while San Carlos Reservoir is at 6 percent of capacity. The forecast calls for well below normal runoff in all basins for the spring runoff period.

## SNOWPACK

Snow water equivalent levels in the state's major river basins well below normal, ranging from 4 percent of median in the Verde River Basin to 0 percent of median in the Upper Gila River Basin. The statewide snowpack is well below normal at 13 percent of median.

**Arizona  
Snow Water Equivalent  
as of April 1, 2018**

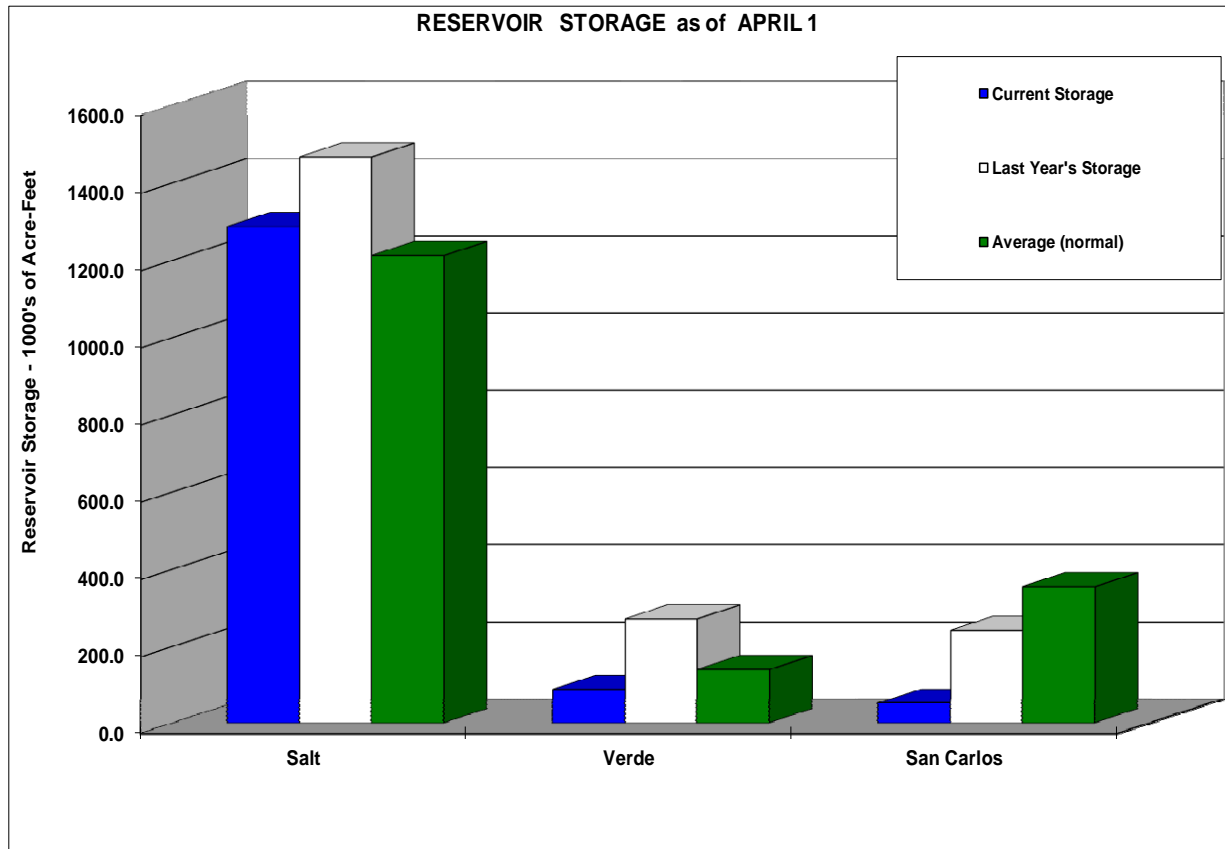


## PRECIPITATION

Mountain data from NRCS SNOTEL sites and NWS Cooperator gages show that precipitation for March was well below average in the major river basins. Cumulative precipitation since October 1 is also well below normal throughout the basins. Please refer to the precipitation bar graphs found in this report for more information on precipitation levels in the basins.

## RESERVOIR STORAGE

As of April 1, the Salt and Verde River reservoir system stands at 60 percent of capacity. San Carlos Reservoir is currently at 6 percent of capacity.



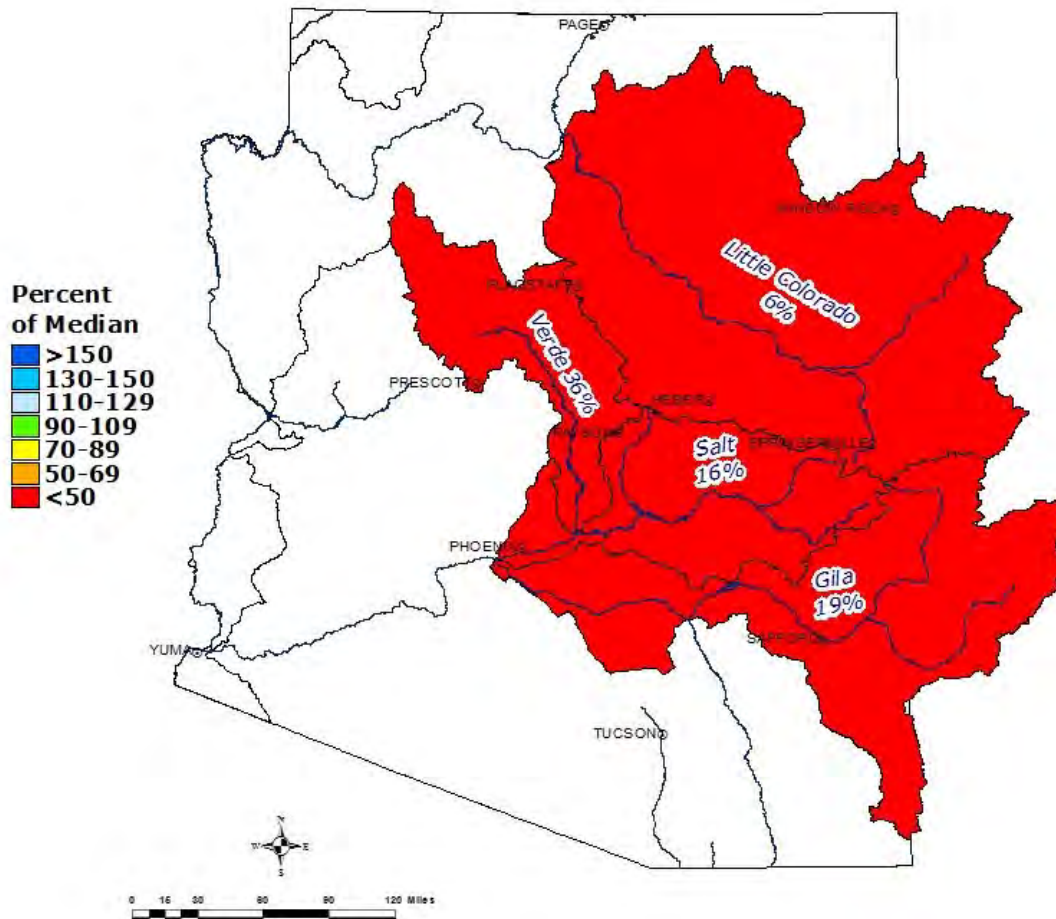
Key storage volumes displayed in thousands of acre-feet (x1000):

<u>Reservoir</u>	<u>Current Storage</u>	<u>Last Year Storage</u>	<u>30-Year Average</u>	<u>Storage Capacity</u>
Salt River System	1286.9	1467.2	1181.0	2025.8
Verde River System	88.7	271.3	135.7	287.4
San Carlos Reservoir	52.2	241.6	324.9	875.0
Lyman Lake	10.9	17.1	11.8	30.0
Lake Havasu	569.7	573.7	562.7	619.0
Lake Mohave	1679.5	1713.4	1602.0	1810.0
Lake Mead	10695.0	10756.0	20297.0	26159.0
Lake Powell	13345.8	11383.0	17745.0	24322.0

## STREAMFLOW

As of April 1, the forecast calls for well below normal streamflow for the spring runoff period, ranging from 6 percent of median in the Little Colorado River above Lyman Lake to 36 percent of median in the Verde River above Horseshoe Dam. Total precipitation since the beginning of the water year has been well below average, leaving dry soils, and producing less than ideal conditions for runoff. Please refer to the basin forecast tables found in this report for more information regarding water supply forecasts.

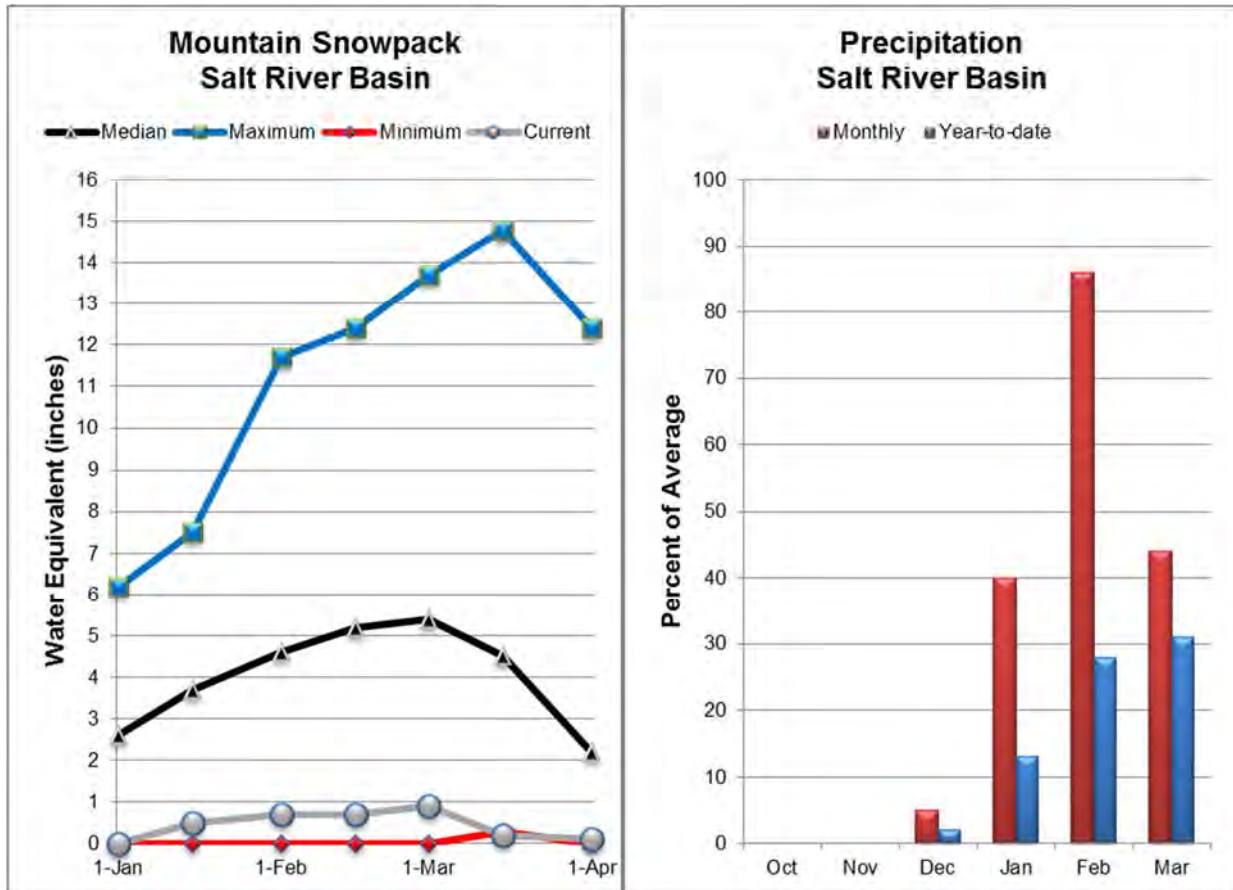
### Arizona Spring Streamflow Forecasts as of April 1, 2018





## SALT RIVER BASIN as of April 1, 2018

Well below normal streamflow levels are forecast for the basin. In the Salt River, near Roosevelt, the forecast calls for 16% of median streamflow through May, while at Tonto Creek, the forecast calls for 28% of median streamflow through May. Snow survey measurements show the Salt snowpack to be at 3% of median. Note that there was no measurable precipitation during the months of October and November.



### Salt River Basin Streamflow Forecasts - April 1, 2018

SALT RIVER BASIN	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						30yr Avg (KAF)
		90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	
Salt R nr Roosevelt <sup>3</sup>	APR			13.6	17%			80
	APR-MAY	7.6	14.1	20	16%	28	42	127
Tonto Ck ab Gun Ck nr Roosevelt <sup>3</sup>	APR			1.24	28%			4.4
	APR-MAY	0.25	0.89	1.68	28%	2.8	5.3	5.9

1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

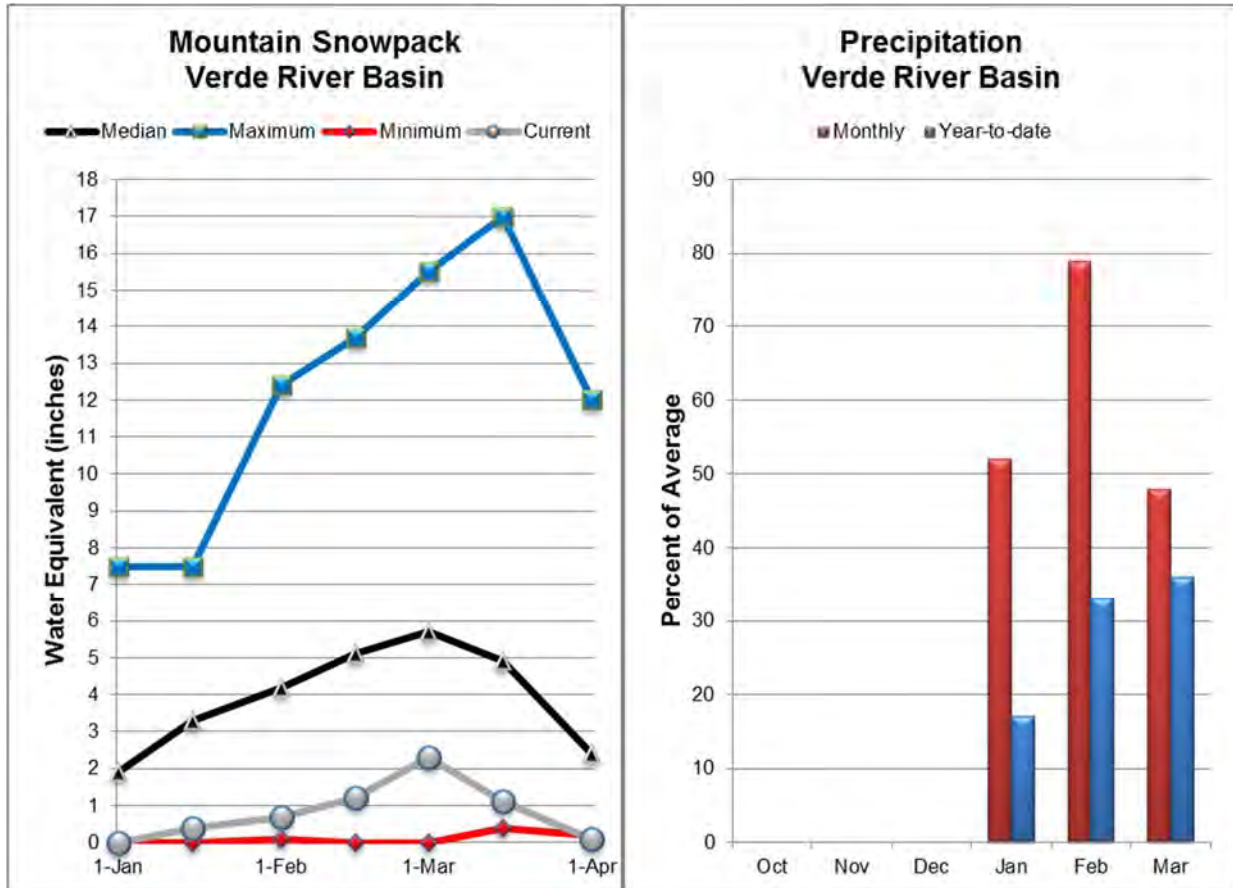
3) Median value used in place of average

Reservoir Storage End of March, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Salt River Reservoir System	1286.9	1467.2	1378.0	2025.8
Basin-wide Total	1286.9	1467.2	1378.0	2025.8
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis April 1, 2018	# of Sites	% Median	Last Year % Median
SALT RIVER BASIN	11	3%	21%

## VERDE RIVER BASIN as of April 1, 2018

Well below normal streamflow levels are forecast for the basin. In the Verde River above Horseshoe Dam, the forecast calls for 36% of median streamflow through May. Snow survey measurements show the Verde snowpack to be at 4% of median. Note that there was no measurable precipitation during the months of October, November, and December.





## Verde River Basin Streamflow Forecasts - April 1, 2018

Forecast Exceedance Probabilities for Risk Assessment  
Chance that actual volume will exceed forecast

VERDE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Verde R bl Tangle Ck ab Horseshoe Dam <sup>3</sup>	APR			8	33%			24
	APR-MAY	3	7.8	13	36%	20	35	36

1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

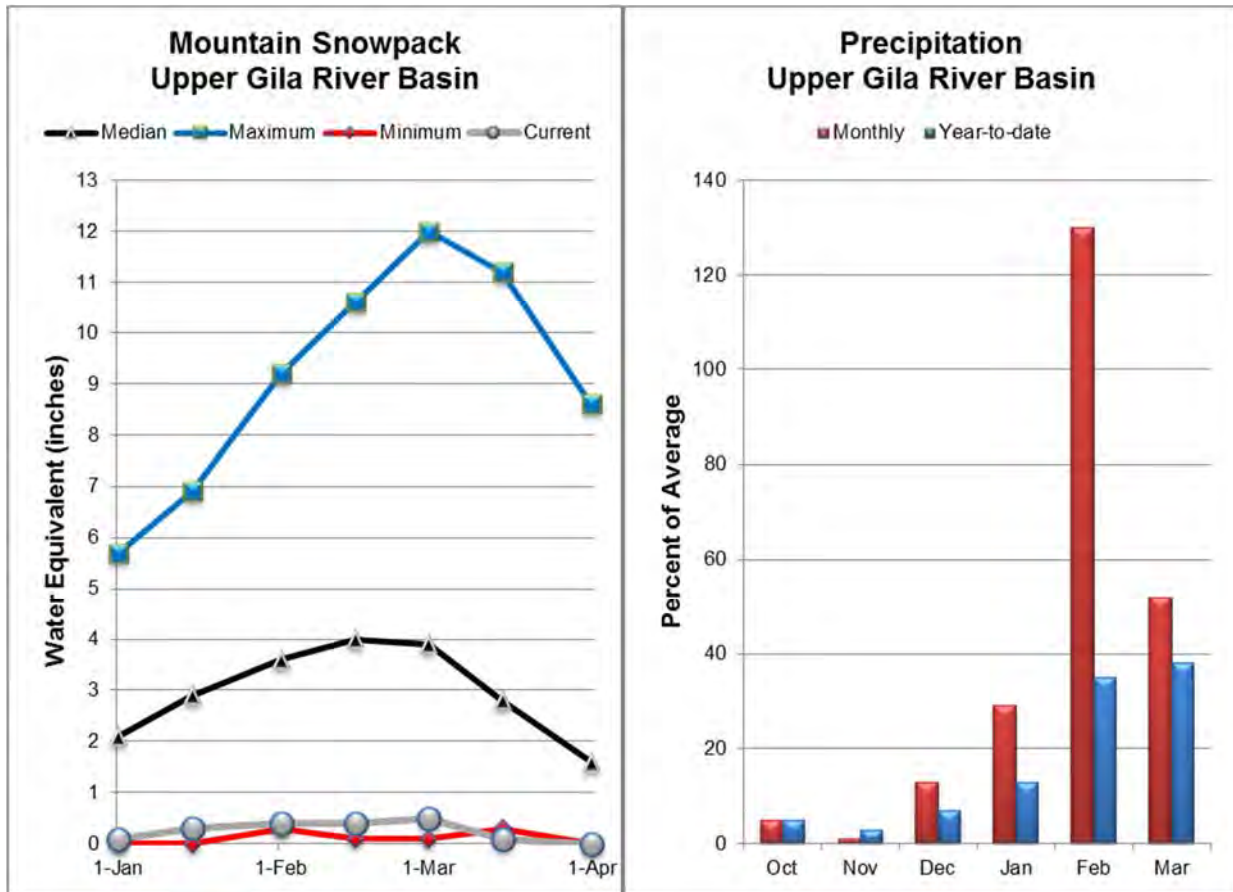
3) Median value used in place of average

Reservoir Storage End of March, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Verde River Reservoir System	88.7	271.3	203.6	287.4
Basin-wide Total	88.7	271.3	203.6	287.4
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis April 1, 2018	# of Sites	% Median	Last Year % Median
VERDE RIVER BASIN	12	4%	53%

## SAN FRANCISCO-UPPER GILA RIVER BASIN as of April 1, 2018

Well below normal streamflow levels are forecast for the basin. In the San Francisco River, at Clifton, the forecast calls for 28% of median streamflow levels through May. In the Gila River, near Solomon, the forecast calls for 19% of median streamflow levels through May. At San Carlos Reservoir, inflow to the lake is forecast at 5% of median through May. Snow survey measurements show the snowpack for this basin to be at 0% of median.



### San Francisco-Upper Gila River Basin Streamflow Forecasts - April 1, 2018

Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast
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<b>SAN FRANCISCO-UPPER GILA RIVER BASIN</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Gila R at Gila <sup>3</sup>	APR-MAY	2.6	4.2	5.7	35%	7.5	10.7	16.5
Gila R bl Blue Ck nr Virden <sup>3</sup>	APR-MAY	0.25	2.2	4.6	22%	7.9	14.4	21
San Francisco R at Glenwood <sup>3</sup>	APR-MAY	0.25	0.74	1.3	18%	2.1	3.7	7.3
San Francisco R at Clifton <sup>3</sup>	APR-MAY	0.54	2.6	4.9	28%	7.9	13.5	17.3
Gila R nr Solomon <sup>3</sup>	APR			6.7	27%			25
	APR-MAY	0.38	3.5	7.5	19%	12.9	24	39
San Carlos Reservoir Inflow <sup>3</sup>	APR-MAY	0	0.02	1	5%	5.3	23	18.4

1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

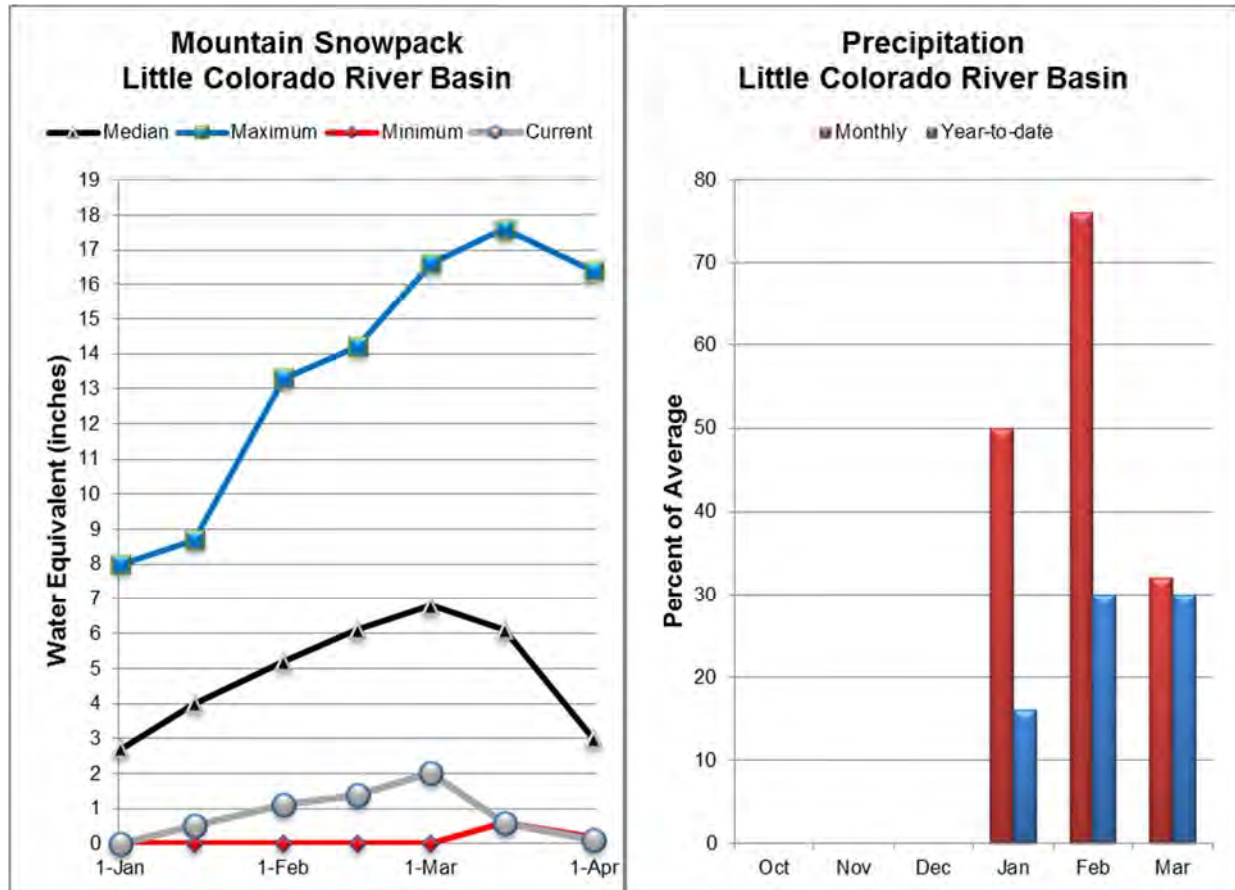
3) Median value used in place of average

<b>Reservoir Storage End of March, 2018</b>	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
San Carlos Reservoir	52.9	241.8	413.8	875.0
Basin-wide Total	52.9	241.8	413.8	875.0
# of reservoirs	1	1	1	1

<b>Watershed Snowpack Analysis April 1, 2018</b>	# of Sites	% Median	Last Year % Median
SAN FRANCISCO-UPPER GILA RIVER BASIN	10	0%	0%

## LITTLE COLORADO RIVER BASIN as of April 1, 2018

Well below normal streamflow levels are forecast for the basin. In the Little Colorado River, above Lyman Lake, the forecast calls for 6% of median streamflow through June. At Blue Ridge (C.C. Cragin) Reservoir, inflow to the lake is forecast at 11% of median through May. Snowpacks along the southern headwaters of the Little Colorado River, and along the central Mogollon Rim, were measured at 2% and 0% of median, respectively. Note that there was no measurable precipitation during the months of October, November, and December.



### Little Colorado River Basin Streamflow Forecasts - April 1, 2018

 Forecast Exceedance Probabilities for Risk Assessment  
 Chance that actual volume will exceed forecast

LITTLE COLORADO RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Little Colorado R ab Lyman Lake <sup>3</sup>	APR-JUN	0.01	0.08	0.2	6%	0.41	0.93	3.5
Rio Nutria nr Ramah <sup>3</sup>	APR-MAY	0	0	0.01	5%	0.05	0.22	0.19
Zuni R ab Black Rock Reservoir <sup>3</sup>	APR-MAY	0	0	0.03	30%	0.31	1.25	0.1
Blue Ridge Reservoir Inflow <sup>3</sup>	APR-MAY	0.01	0.17	0.47	11%	1.01	2.4	4.1
Lake Mary Reservoir Inflow <sup>3</sup>	APR-MAY	0.17	0.36	0.55	55%	0.8	1.29	1

1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

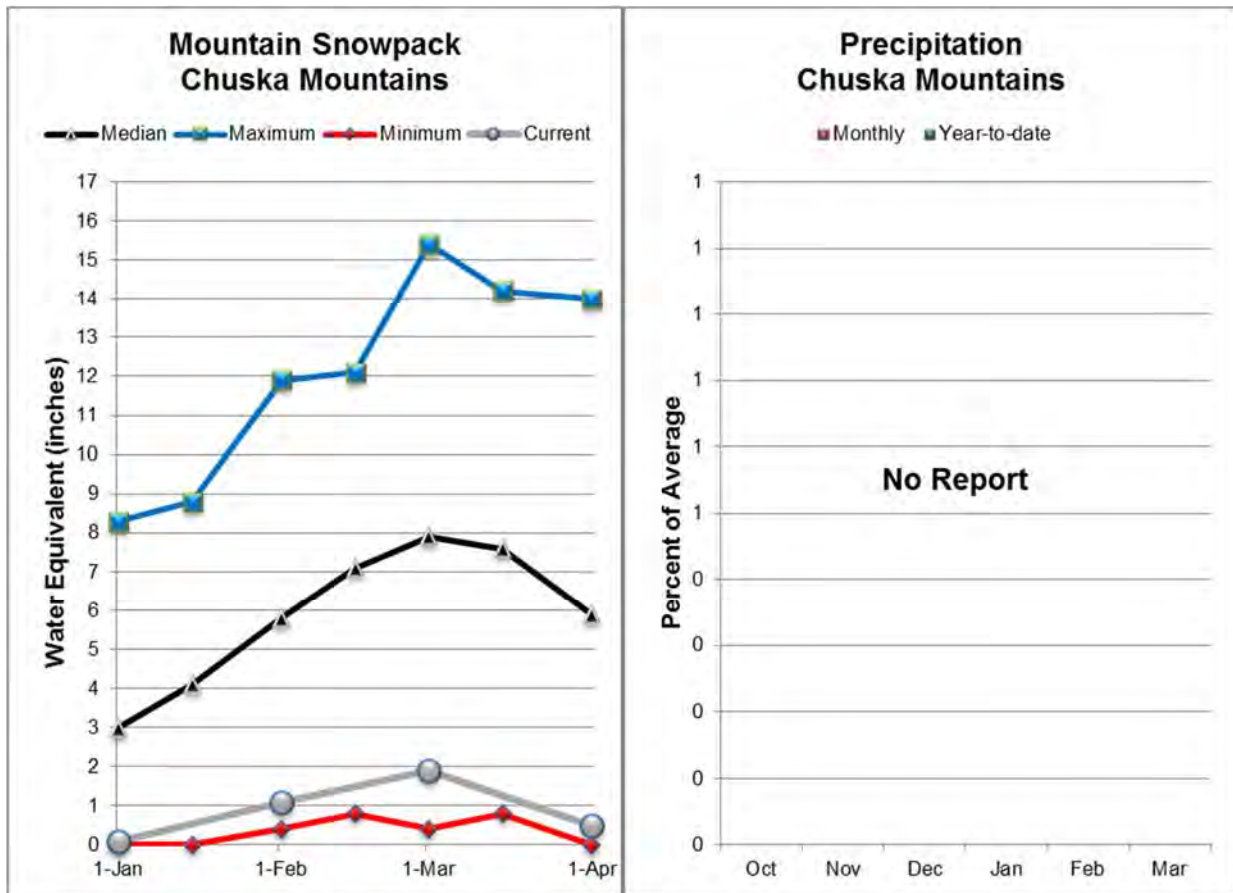
3) Median value used in place of average

Reservoir Storage End of March, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Lyman Reservoir	10.9	16.9	14.7	30.0
Basin-wide Total	10.9	16.9	14.7	30.0
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis April 1, 2018	# of Sites	% Median	Last Year % Median
LITTLE COLORADO RIVER BASIN	10	2%	16%
CENTRAL MOGOLLON RIM	4	0%	3%

## CHUSKA MOUNTAINS as of April 1, 2018

Snow survey measurements conducted by staff of the Navajo Nation Water Management Branch show the Chuska snowpack to be at 8% of median. The forecast calls for well below normal runoff for Wheatfields Creek, Captain Tom Wash, and Bowl Canyon Creek.





## Chuska Mountains Streamflow Forecasts - April 1, 2018

Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast
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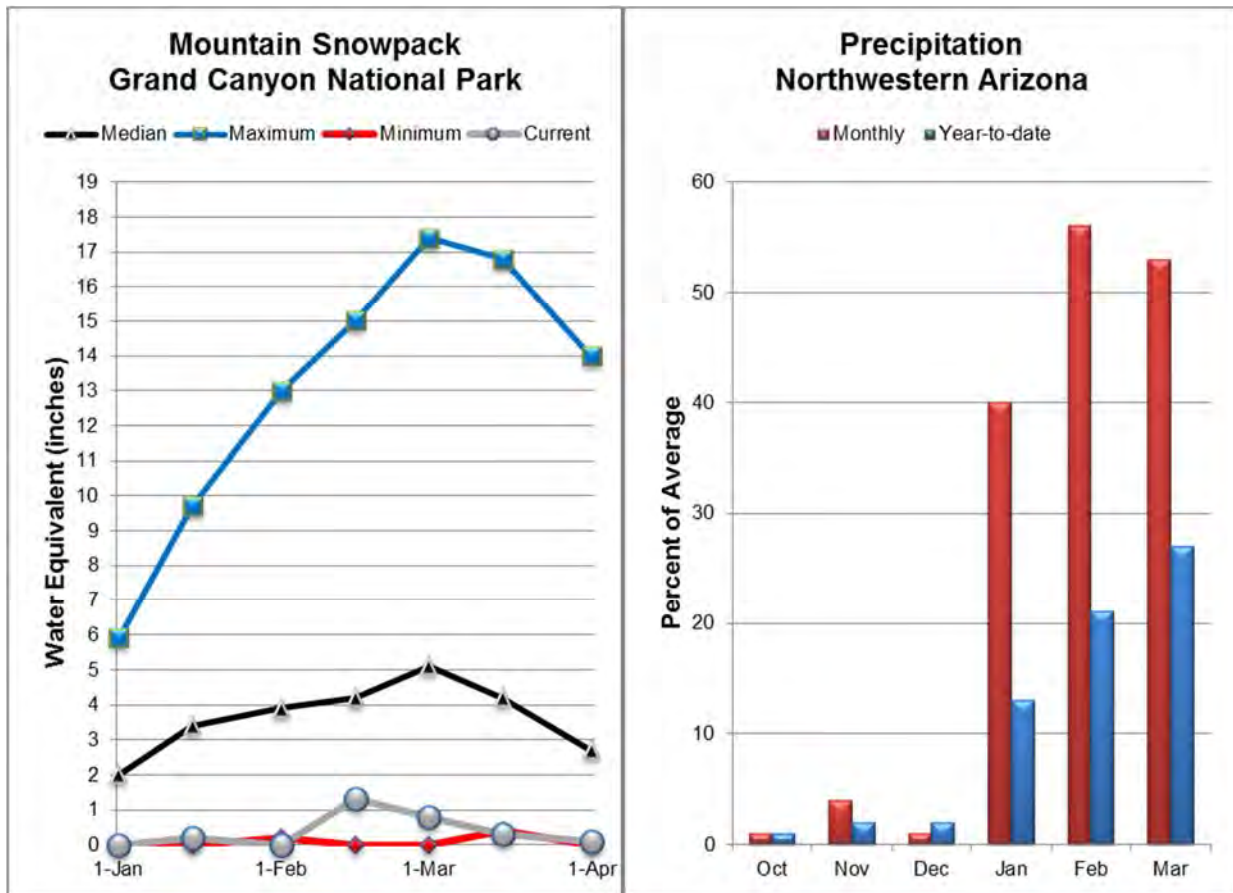
CHUSKA MOUNTAINS	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Captain Tom Wash nr Two Gray Hills	MAR-MAY	0	0.11	0.35	13%	0.79	1.98	2.6
Wheatfields Ck nr Wheatfields	MAR-MAY	0.13	0.31	0.48	23%	0.68	1.04	2.1
Bowl Canyon Ck ab Asaayi Lake	MAR-MAY	0.05	0.17	0.3	23%	0.45	0.74	1.3

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

Watershed Snowpack Analysis April 1, 2018	# of Sites	% Median	Last Year % Median
CHUSKA MOUNTAINS	6	8%	67%
DEFIANCE PLATEAU	1		

## NORTHWESTERN ARIZONA as of April 1, 2018

On the Colorado River, well below normal inflow to Lake Powell is forecast at 38% of the 30-year average for the forecast period April-July. At the Grand Canyon, measurements conducted by park rangers show the snowpack to be at 2% of median.



## Northwestern Arizona Streamflow Forecasts - April 1, 2018

 Forecast Exceedance Probabilities for Risk Assessment  
 Chance that actual volume will exceed forecast

NORTHWESTERN ARIZONA	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Virgin R at Littlefield	APR-JUL	1.95	7.2	16	25%	30	51	65
Lake Powell Inflow <sup>2</sup>	APR-JUL	1350	2120	2750	38%	3460	4640	7160

1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

3) Median value used in place of average

Reservoir Storage End of March, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Lake Havasu	571.8	579.0	562.8	619.0
Lake Mohave	1686.0	1718.0	1687.0	1810.0
Lake Mead	10695.0	10707.0	20450.0	26159.0
Lake Powell	12956.1	11364.0	16942.0	24322.0
Basin-wide Total	25908.9	24368.0	39641.8	52910.0
# of reservoirs	4	4	4	4

Watershed Snowpack Analysis April 1, 2018	# of Sites	% Median	Last Year % Median
NORTHWESTERN ARIZONA	2	2%	30%

**Basinwide Summary: April 1, 2018**  
**(Averages/Medians based on 1981-2010 reference period)**

Snowpack Summary for April 1, 2018
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<b>SALT RIVER BASIN</b>	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Baldy	SNOTEL	9125	0	0.0	2.5	0%	0.0	0%
Beaver Head	SNOTEL	7990	0	0.0	0.0		0.0	
Buck Spring	SC	7400	0	0.0	0.0		0.0	
Coronado Trail	SNOTEL	8400	0	0.0	0.0		0.0	
Hawley Lake	SNOTEL	8300	0	0.0			5.3	
Coronado Trail	SC	8350	0	0.0	0.0		0.0	
Fort Apache	SC	9160	2	0.6	6.2	10%	4.5	73%
Hannagan Meadows	SNOTEL	9020	0	0.0	7.7	0%	0.0	0%
Maverick Fork	SNOTEL	9200	0	0.0	5.3	0%	0.0	0%
Nutriosio	SC	8500	0	0.0	0.0		0.0	
Nutriosio	SNOTEL	8500	0	0.0			0.0	
Wildcat	SNOTEL	7850	0	0.0	0.0		0.0	
Workman Creek	SNOTEL	6900	0	0.0	0.0		0.0	
<b>Basin Index</b>						<b>3%</b>		<b>21%</b>
# of sites						11		11
<b>VERDE RIVER BASIN</b>	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Baker Butte	SNOTEL	7300	0	0.0	0.0		0.0	
Baker Butte No. 2	SC	7700	0	0.0	8.9	0%	0.0	0%
Baker Butte Smt	SNOTEL	7700	10	3.5			10.8	
Bar M	SNOTEL	6393	0	0.0			0.0	
Chalender	SC	7100	0	0.0	0.0		0.3	
Chalender	SNOTEL	7100	0	0.0			0.0	
Fort Valley	SC	7350	0	0.0	0.0		0.0	
Fort Valley	SNOTEL	7350	0	0.0			0.0	
Fry	SNOTEL	7200	0	0.0	0.0		0.0	
Happy Jack	SNOTEL	7630	0	0.0	0.3	0%	0.0	0%
Happy Jack	SC	7630	0	0.0	0.0		0.0	
Mormon Mountain	SNOTEL	7500	0	0.0	0.7	0%	0.0	0%
Mormon Mountain Summit #2	SC	8470	0	0.0	10.2	0%	7.6	75%
Mormon Mtn Summit	SNOTEL	8500	1	0.3			9.1	
Newman Park	SC	6750	0	0.0	0.0		0.0	
White Horse Lake	SNOTEL	7180	0	0.0	0.0		0.0	
Williams Ski Run	SC	7720	4	1.1	6.5	17%	6.2	95%
<b>Basin Index</b>						<b>4%</b>		<b>53%</b>
# of sites						12		12
<b>SAN FRANCISCO PEAKS</b>	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Snow Bowl #2	SC	11200	23	6.6	19.2	34%	30.2	157%
Snowslide Canyon	SNOTEL	9730	15	6.6	17.0	39%	31.5	185%
<b>Basin Index</b>						<b>36%</b>		<b>170%</b>
# of sites						2		2
<b>SAN FRANCISCO-UPPER GILA RIVER BASIN</b>	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beaver Head	SNOTEL	7990	0	0.0	0.0		0.0	
Coronado Trail	SNOTEL	8400	0	0.0	0.0		0.0	
Coronado Trail	SC	8350	0	0.0	0.0		0.0	
Frisco Divide	SNOTEL	8000	0	0.0	0.0		0.0	
Hannagan Meadows	SNOTEL	9020	0	0.0	7.7	0%	0.0	0%
Hummingbird - Aerial And Snow Course	SC	10550			9.0			
Lookout Mountain	SNOTEL	8500	0	0.0	0.0		0.0	

Nutriosio	SC	8500	0	0.0	0.0		0.0	
Nutriosio	SNOTEL	8500	0	0.0			0.0	
Signal Peak	SNOTEL	8360	0	0.0	0.0		0.0	
Silver Creek Divide	SNOTEL	9000	0	0.0	7.0	0%	0.0	0%
State Line	SC	8000	1	0.0	0.0		0.0	
Whitewater - Aerial And Snow Course	SC	10750			22.6			

**Basin Index** **0%** **0%**  
# of sites 10 10

<b>LITTLE COLORADO RIVER BASIN</b>	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Baker Butte	SNOTEL	7300	0	0.0	0.0		0.0	
Baker Butte No. 2	SC	7700	0	0.0	8.9	0%	0.0	0%
Baker Butte Smt	SNOTEL	7700	10	3.5			10.8	
Baldy	SNOTEL	9125	0	0.0	2.5	0%	0.0	0%
Buck Spring	SC	7400	0	0.0	0.0		0.0	
Cheese Springs	SC	8700	0	0.0	1.6	0%	0.0	0%
Fort Apache	SC	9160	2	0.6	6.2	10%	4.5	73%
Heber	SNOTEL	7640	0	0.0	0.0		0.0	
Lake Mary	SC	6930	0	0.0	0.0		0.0	
Maverick Fork	SNOTEL	9200	0	0.0	5.3	0%	0.0	0%
Promontory	SNOTEL	7930	0	0.0	5.5	0%	0.4	7%

**Basin Index** **2%** **16%**  
# of sites 10 10

<b>CENTRAL MOGOLLON RIM</b>	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Baker Butte	SNOTEL	7300	0	0.0	0.0		0.0	
Baker Butte No. 2	SC	7700	0	0.0	8.9	0%	0.0	0%
Baker Butte Smt	SNOTEL	7700	10	3.5			10.8	
Heber	SNOTEL	7640	0	0.0	0.0		0.0	
Promontory	SNOTEL	7930	0	0.0	5.5	0%	0.4	7%

**Basin Index** **0%** **3%**  
# of sites 4 4

<b>CHUSKA MOUNTAINS</b>	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beaver Spring	SC	9220	0	0.0	8.0	0%	3.4	43%
Beaver Spring	SNOTEL	9200	0	0.0			3.1	
Bowl Canyon	SC	8980	6	1.8	7.8	23%	7.2	92%
Hidden Valley	SC	8480	0	0.0			2.5	
Missionary Spring	SC	7940	0	0.0	0.0		0.0	
Tsaile Canyon #1	SC	8160	0	0.0	3.4	0%	0.3	9%
Tsaile Canyon #3	SC	8920	0	0.0	7.2	0%	4.6	64%
Whiskey Creek	SC	9050	4	1.0	8.7	11%	8.1	93%
Navajo Whiskey Ck	SNOTEL	9050	2	0.7			0.3	

**Basin Index** **8%** **67%**  
# of sites 6 6

<b>DEFIANCE PLATEAU</b>	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Fluted Rock	SC	7800	0	0.0	0.0		0.0	

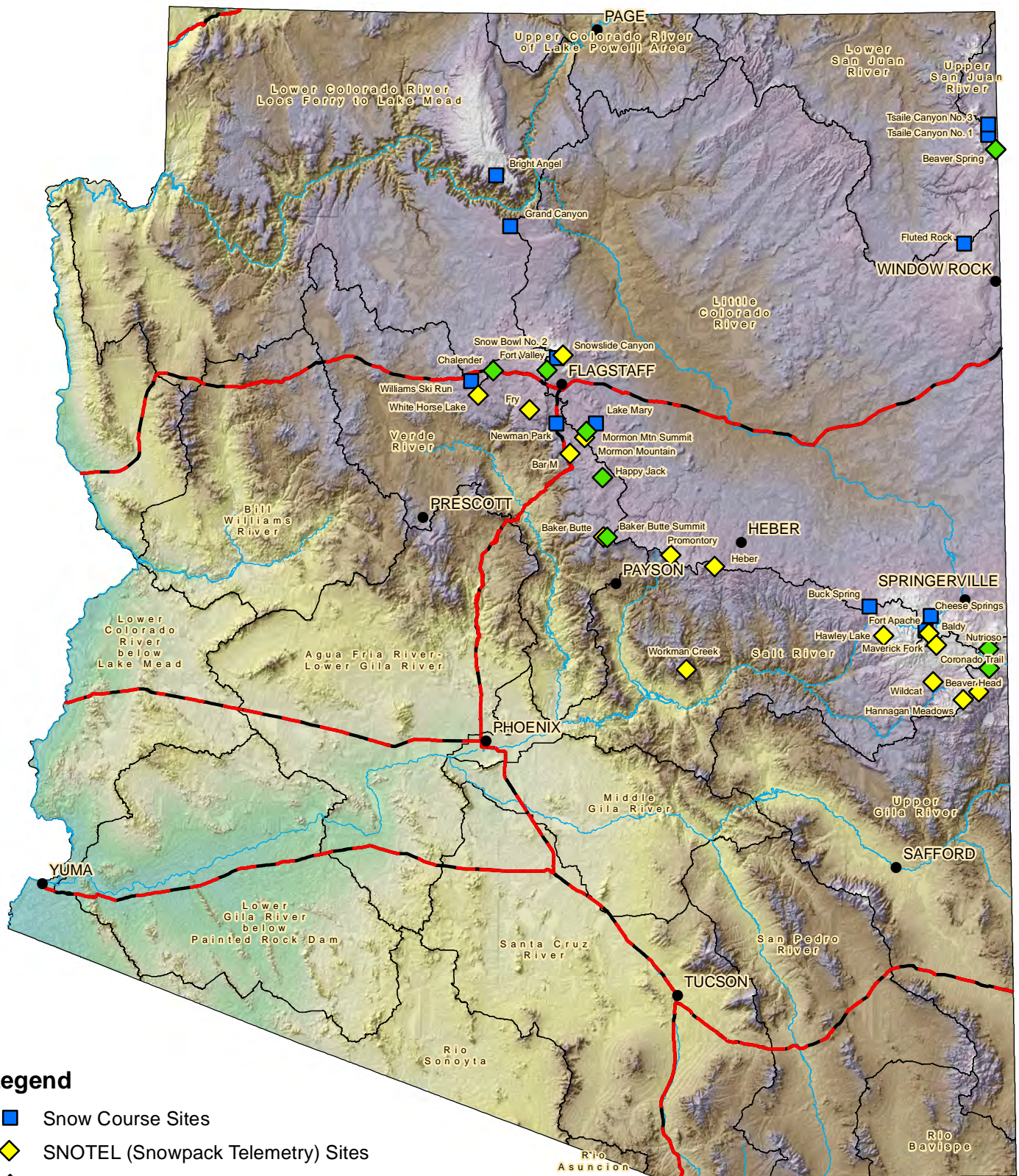
**Basin Index**  
# of sites 1 1

<b>NORTHWESTERN ARIZONA</b>	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Bright Angel	SC	8400	0	0.1	5.3	2%	1.6	30%
Grand Canyon	SC	7500	0	0.0	0.0		0.0	

**Basin Index** **2%** **30%**  
# of sites 2 2



# Arizona Snow Survey Data Sites



## Legend

- Snow Course Sites
- ◆ SNOTEL (Snowpack Telemetry) Sites
- ◆ SNOTEL and Snow Course Sites
- Basin Boundaries