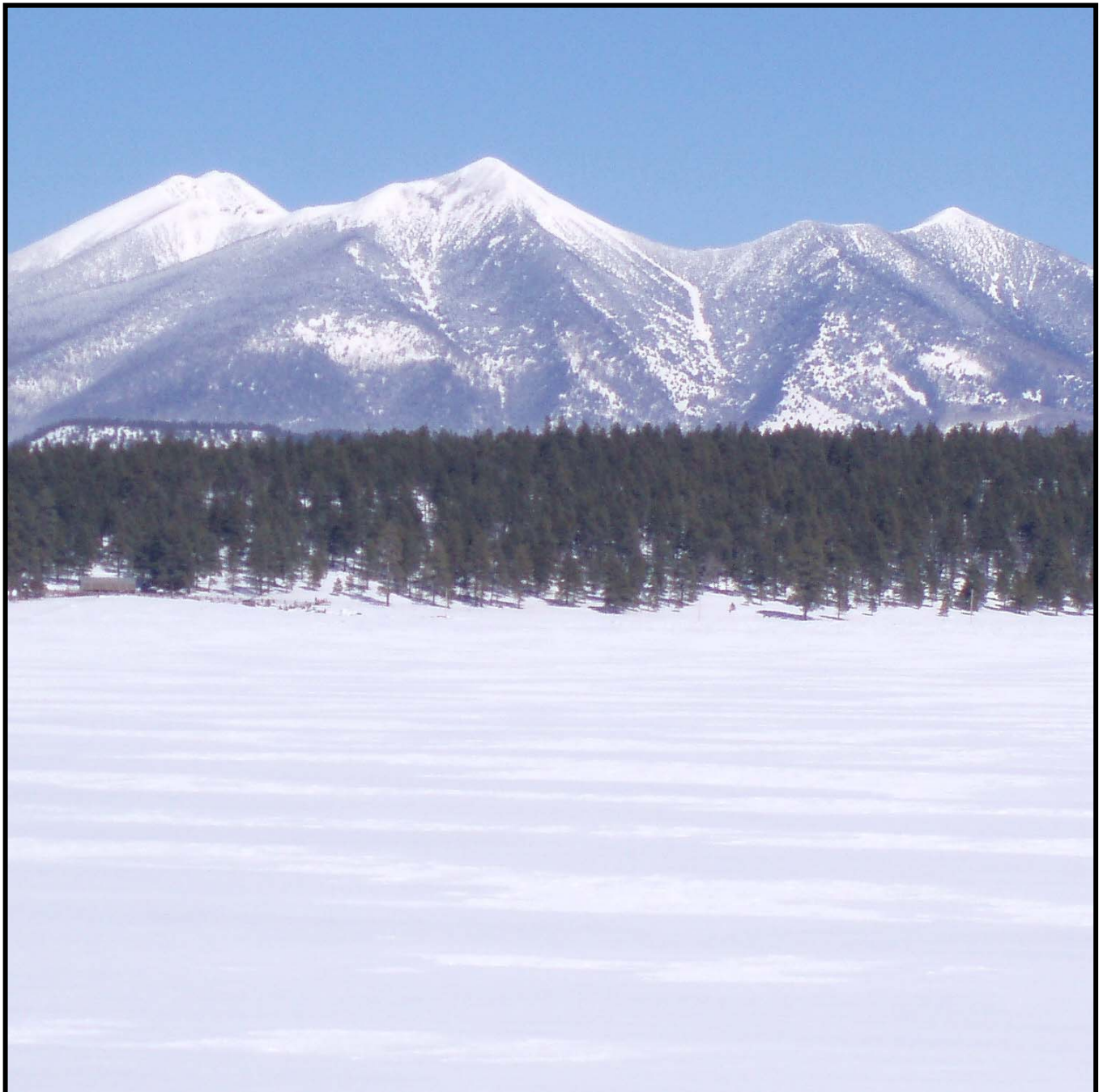




United States  
Department of  
Agriculture

Natural  
Resources  
Conservation  
Service

# Arizona Basin Outlook Report February 1, 2018



**Issued by**

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## **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.



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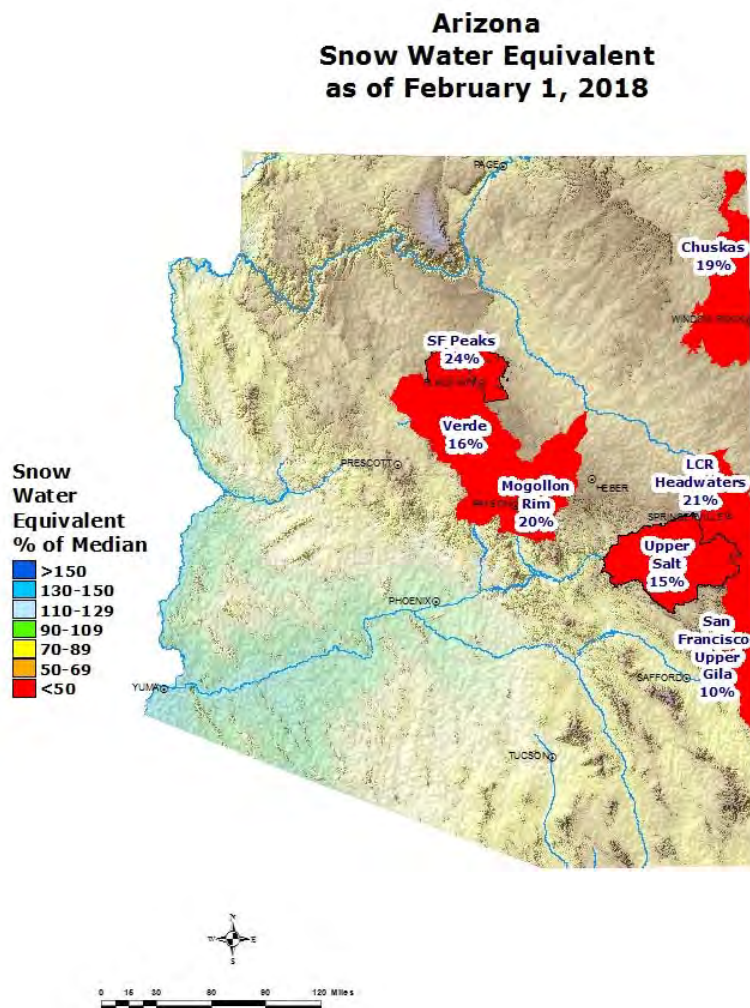
# ARIZONA Basin Outlook Report as of February 1, 2018

## SUMMARY

As of February 1, snowpack levels are well below normal throughout the major basins of the state. Precipitation for the month of January was also well below normal in the major river basins. The Salt and Verde River reservoir system stands at 61 percent of capacity, while San Carlos Reservoir is at 7 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 are well below normal, ranging from 10 percent of median in the Gila River Basin, to 21 percent of median in the Little Colorado River Basin. The statewide snowpack is well below normal at 17 percent of median.

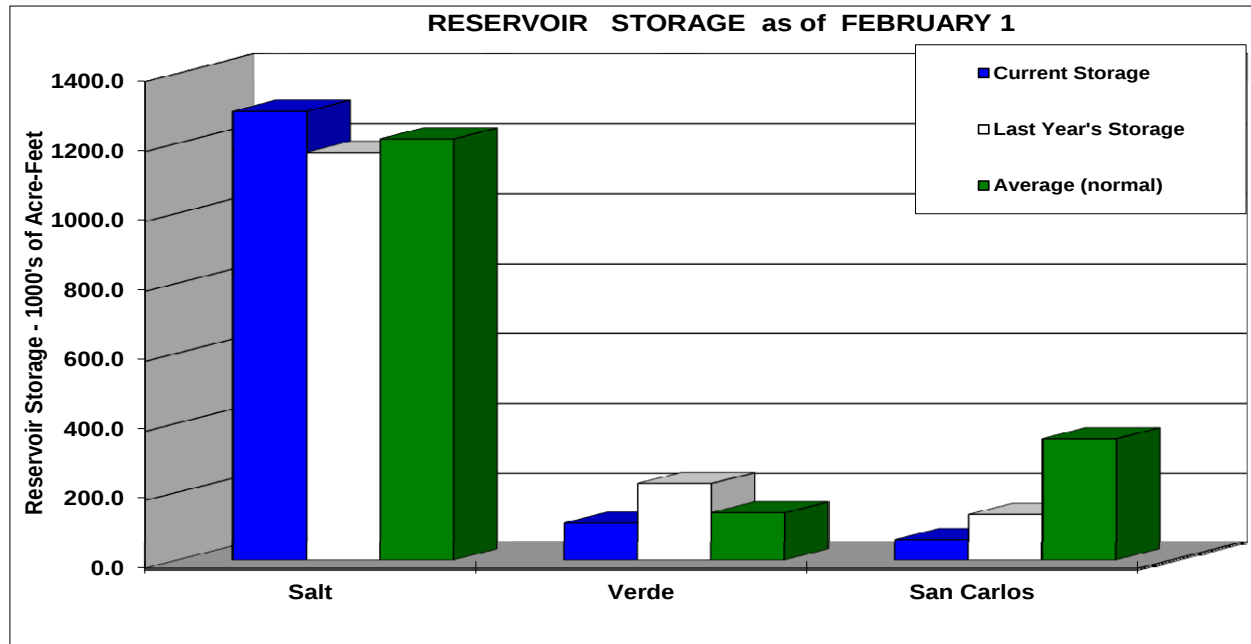


## PRECIPITATION

Mountain data from NRCS SNOTEL sites and NWS Cooperator gages show that precipitation for the month of January was well below average in the major river basins. Cumulative precipitation since October 1 remains 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 February 1, the Salt and Verde River reservoir system stands at 61 percent of capacity. San Carlos Reservoir is currently at 7 percent of capacity.



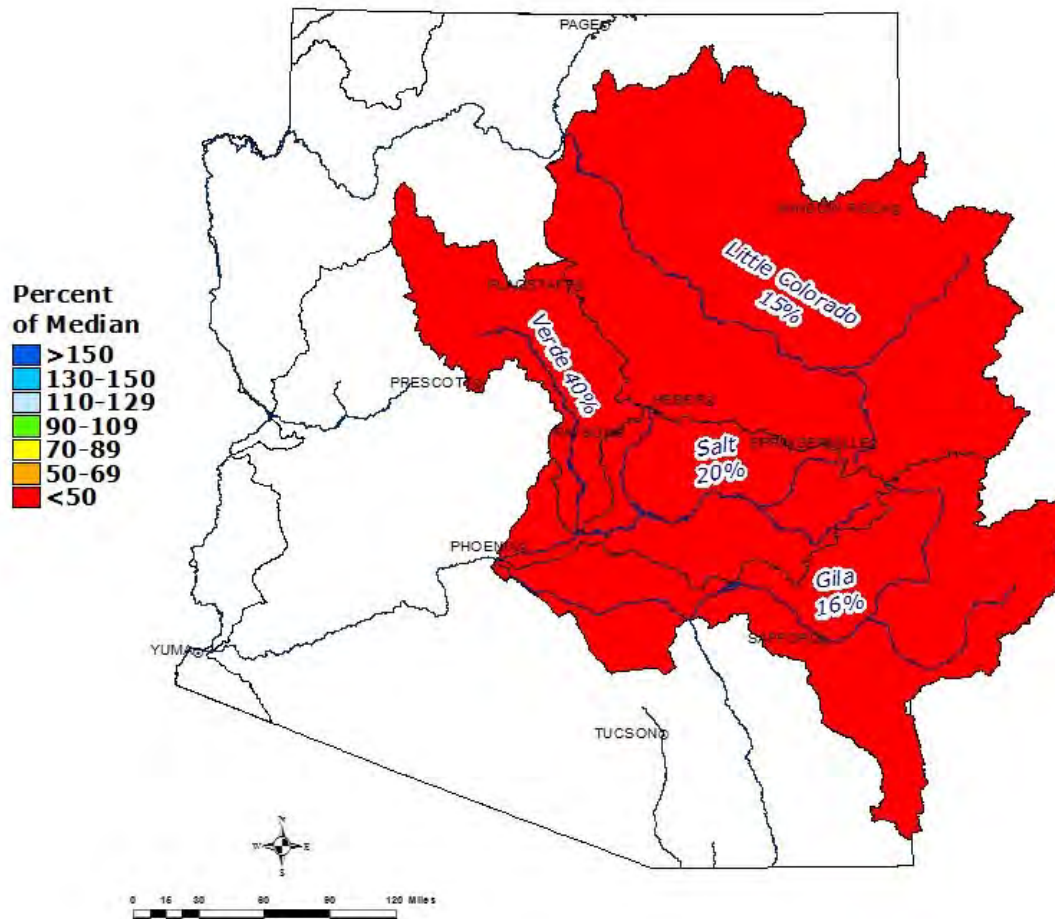
Key storage volumes displayed in thousands of acre-feet (x1000):

| <u>Reservoir</u>     | <u>Current Storage</u> | <u>Last Year Storage</u> | <u>30-Year Average</u> | <u>Storage Capacity</u> |
|----------------------|------------------------|--------------------------|------------------------|-------------------------|
| Salt River System    | 1291                   | 1173.7                   | 1212.0                 | 2025.8                  |
| Verde River System   | 110.2                  | 225.3                    | 140.2                  | 287.4                   |
| San Carlos Reservoir | 62.0                   | 135.2                    | 355.0                  | 875.0                   |
| Lyman Lake           | 11.0                   | 7.0                      | 12.0                   | 30.0                    |
| Lake Havasu          | 539.3                  | 566.6                    | 561.2                  | 619.0                   |
| Lake Mohave          | 1640.7                 | 1710.0                   | 1659.0                 | 1810.0                  |
| Lake Mead            | 10642.0                | 10531.0                  | 20361.0                | 26159.0                 |
| Lake Powell          | 13688.2                | 11390.2                  | 17553.0                | 24322.0                 |

## STREAMFLOW

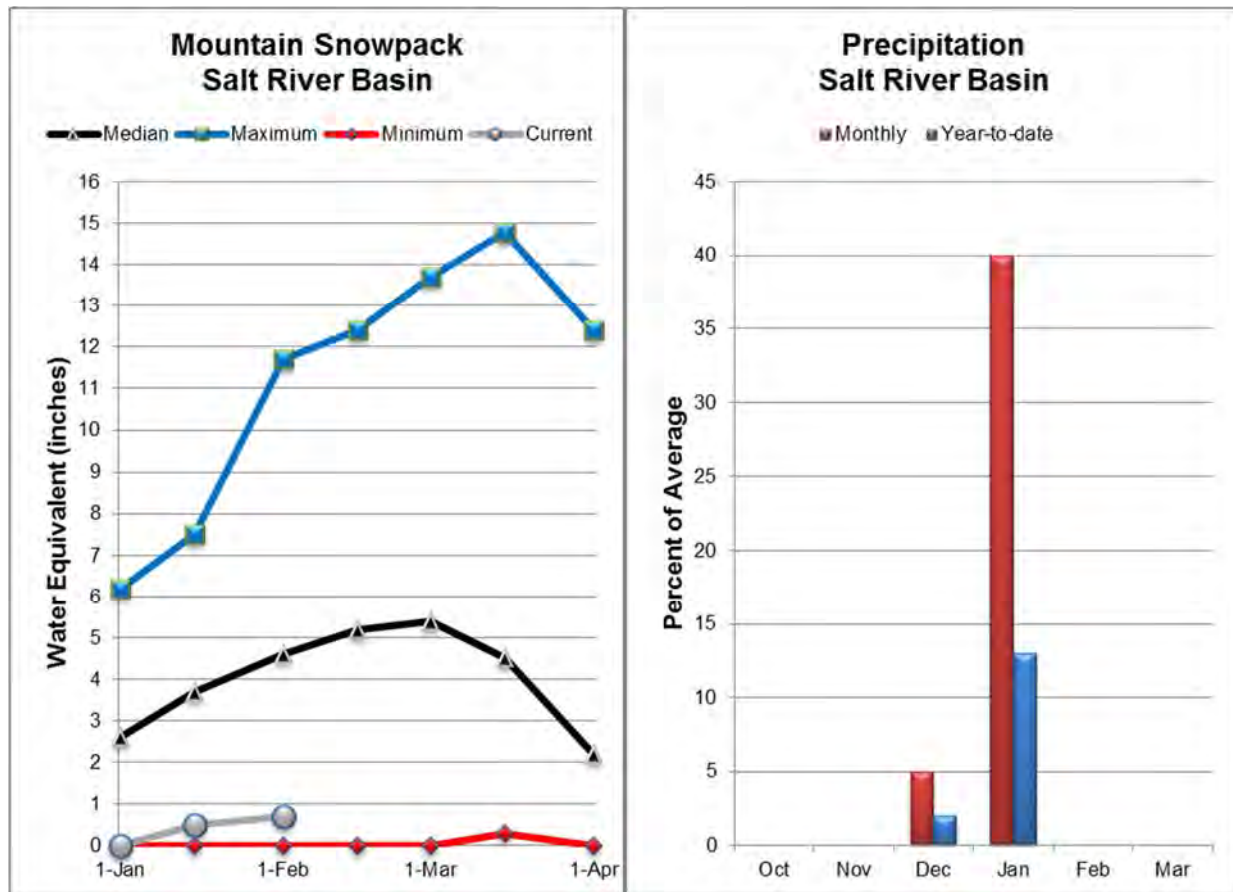
As of February 1, the forecast calls for well below normal streamflow for the spring runoff period, ranging from 15 percent of median in the Little Colorado River above Lyman Lake to 40 percent of median in the Verde River above Horseshoe Dam. Total precipitation since the beginning of the water year 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 February 1, 2018



## SALT RIVER BASIN as of February 1, 2018

Well below normal streamflow levels are forecast for the basin. In the Salt River, near Roosevelt, the forecast calls for 20% of median streamflow through May, while at Tonto Creek, the forecast calls for 18% of median streamflow through May. Snow survey measurements show the Salt snowpack to be at 15% of median. Note that there was no measurable precipitation during the months of October and November.



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

| SALT RIVER BASIN                             | Forecast<br>Period | Forecast Exceedance Probabilities for Risk Assessment<br>Chance that actual volume will exceed forecast |              |              |       |              |              | 30yr Avg<br>(KAF) |
|----------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------|--------------|--------------|-------|--------------|--------------|-------------------|
|                                              |                    | 90%<br>(KAF)                                                                                            | 70%<br>(KAF) | 50%<br>(KAF) | % Avg | 30%<br>(KAF) | 10%<br>(KAF) |                   |
| Salt R nr Roosevelt <sup>3</sup>             |                    |                                                                                                         |              |              |       |              |              |                   |
|                                              | FEB                |                                                                                                         |              | 4.9          | 13%   |              |              | 39                |
|                                              | FEB-MAY            | 15.5                                                                                                    | 36           | 57           | 20%   | 85           | 141          | 285               |
|                                              | MAR-MAY            | 8                                                                                                       | 22           | 37           | 15%   | 57           | 100          | 240               |
| Tonto Ck ab Gun Ck nr Roosevelt <sup>3</sup> |                    |                                                                                                         |              |              |       |              |              |                   |
|                                              | FEB                |                                                                                                         |              | 1.8          | 17%   |              |              | 10.3              |
|                                              | FEB-MAY            | 0.15                                                                                                    | 2            | 6.3          | 18%   | 11.6         | 27           | 35                |

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

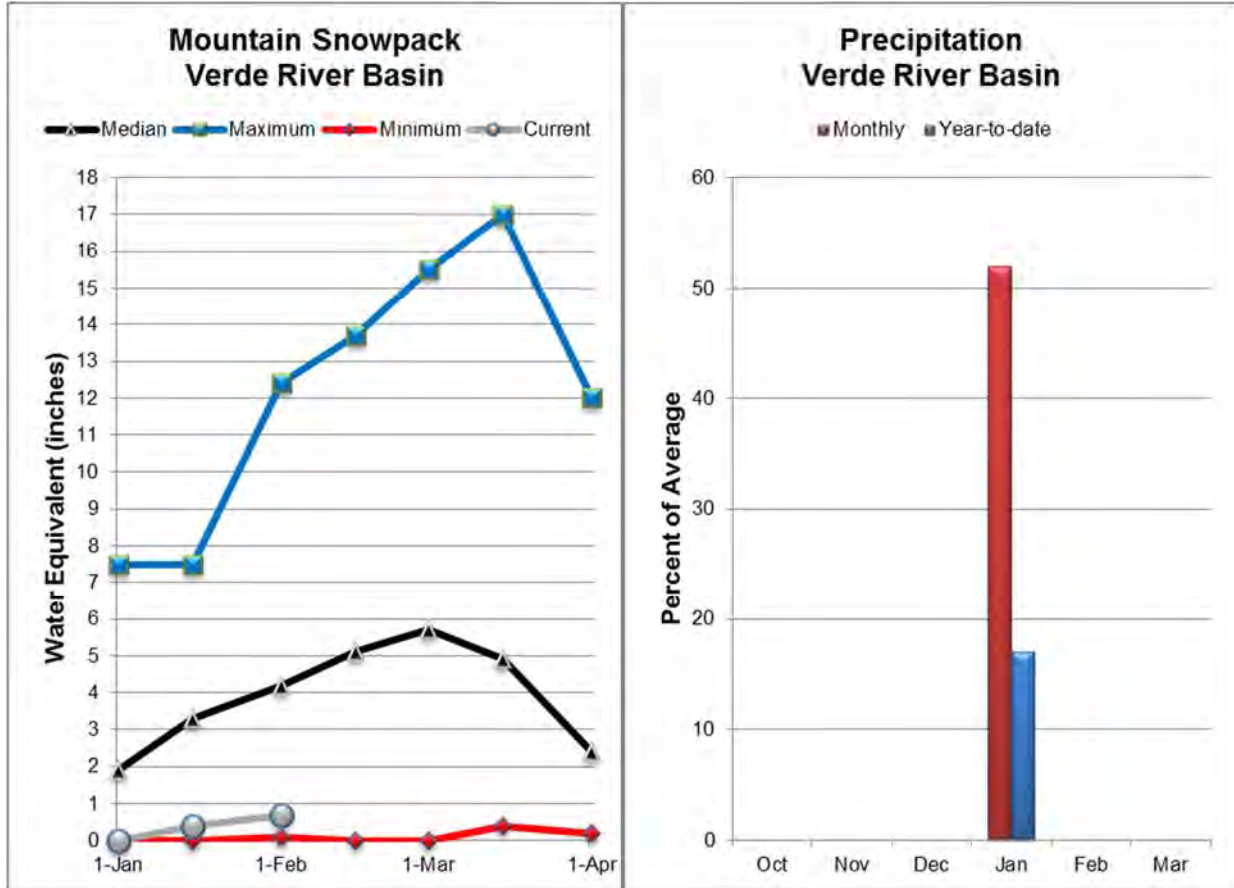
| Reservoir Storage<br>End of January, 2018 | Current (KAF) | Last Year (KAF) | Average (KAF) | Capacity (KAF) |
|-------------------------------------------|---------------|-----------------|---------------|----------------|
| Salt River Reservoir System               | 1291.0        | 1173.7          | 1240.0        | 2025.8         |
| Basin-wide Total                          | 1291.0        | 1173.7          | 1240.0        | 2025.8         |
| # of reservoirs                           | 1             | 1               | 1             | 1              |

| Watershed Snowpack Analysis<br>February 1, 2018 | # of Sites | % Median | Last Year % Median |
|-------------------------------------------------|------------|----------|--------------------|
| SALT RIVER BASIN                                | 11         | 15%      | 116%               |

## VERDE RIVER BASIN as of February 1, 2018

Well below normal streamflow levels are forecast for the basin. In the Verde River above Horseshoe Dam, the forecast calls for 40% of median streamflow through May. Snow survey measurements show the Verde snowpack to be at 16% of median. Note that there was no measurable precipitation during the months of October, November, and December.



## Verde River Basin Streamflow Forecasts - February 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> | FEB             |           |           | 17        | 49%   |           |           | 35             |
|                                                    | FEB-MAY         | 12.8      | 33        | 55        | 40%   | 85        | 146       | 136            |

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

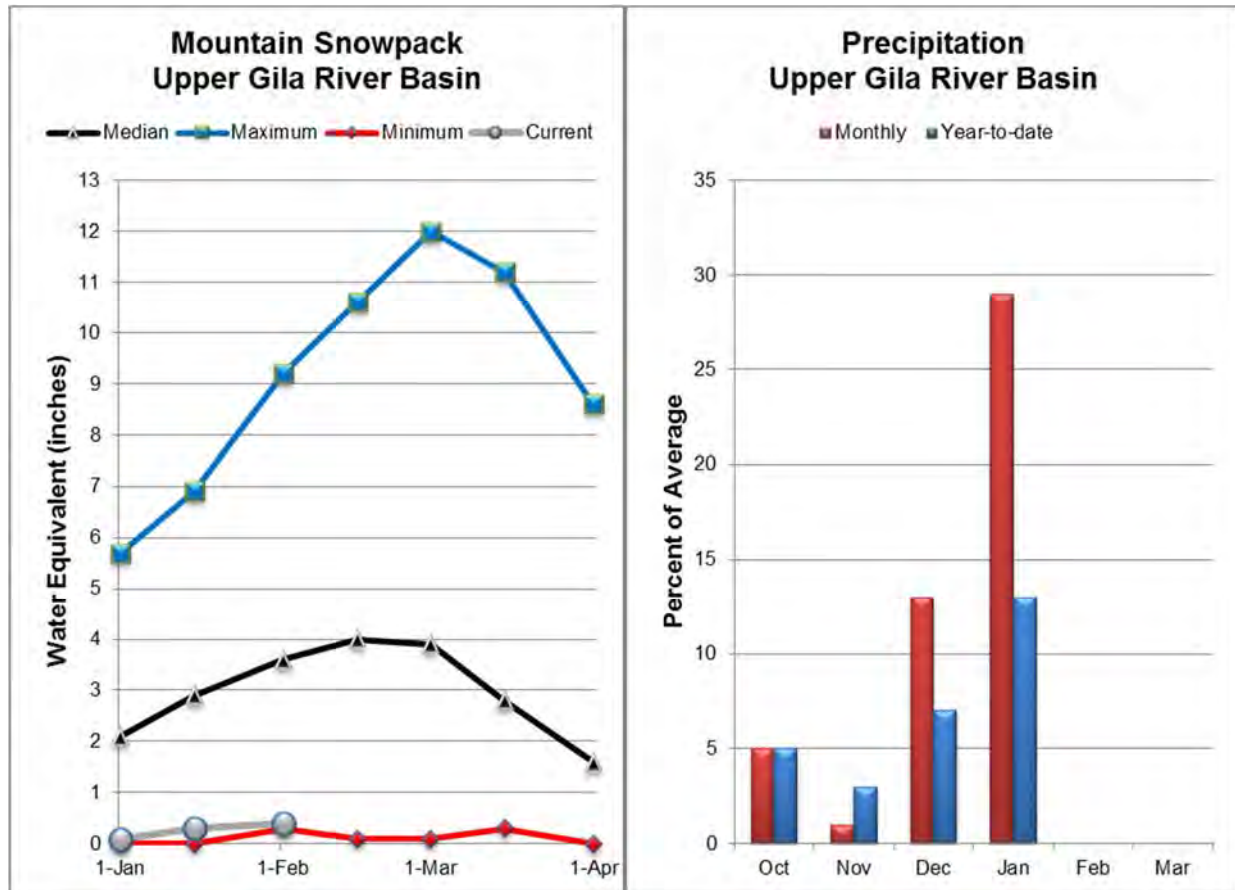
3) Median value used in place of average

| Reservoir Storage<br>End of January, 2018 | Current (KAF) | Last Year (KAF) | Average (KAF) | Capacity (KAF) |
|-------------------------------------------|---------------|-----------------|---------------|----------------|
| Verde River Reservoir System              | 110.2         | 225.3           | 154.4         | 287.4          |
| Basin-wide Total                          | 110.2         | 225.3           | 154.4         | 287.4          |
| # of reservoirs                           | 1             | 1               | 1             | 1              |

| Watershed Snowpack Analysis<br>February 1, 2018 | # of Sites | % Median | Last Year % Median |
|-------------------------------------------------|------------|----------|--------------------|
| VERDE RIVER BASIN                               | 12         | 16%      | 166%               |

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

Well below normal streamflow levels are forecast for the basin. In the San Francisco River, at Clifton, the forecast calls for 24% of median streamflow levels through May. In the Gila River, near Solomon, the forecast calls for 16% of median streamflow levels through May. At San Carlos Reservoir, inflow to the lake is forecast at 16% of median through May. Snow survey measurements show the snowpack for this basin to be at 10% of median.



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

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

| SAN FRANCISCO-UPPER GILA RIVER BASIN     | Forecast Period | 90% (KAF) | 70% (KAF) | 50% (KAF) | % Avg | 30% (KAF) | 10% (KAF) | 30yr Avg (KAF) |
|------------------------------------------|-----------------|-----------|-----------|-----------|-------|-----------|-----------|----------------|
| Gila R at Gila <sup>3</sup>              | FEB-MAY         | 3.3       | 7.6       | 12        | 24%   | 17.9      | 30        | 50             |
| Gila R bl Blue Ck nr Virden <sup>3</sup> | FEB-MAY         | 0.06      | 5         | 13        | 21%   | 25        | 49        | 63             |
| San Francisco R at Glenwood <sup>3</sup> | FEB-MAY         | 0.51      | 2         | 4         | 22%   | 6.9       | 13.4      | 18.2           |
| San Francisco R at Clifton <sup>3</sup>  | FEB-MAY         | 0.18      | 5         | 12        | 24%   | 22        | 42        | 51             |
| Gila R nr Solomon <sup>3</sup>           | FEB             |           |           | 9         | 39%   |           |           | 23             |
|                                          | FEB-MAY         | 0         | 6.9       | 20        | 16%   | 40        | 82        | 123            |
| San Carlos Reservoir Inflow <sup>3</sup> | FEB-MAY         | 0.13      | 4.1       | 13        | 16%   | 30        | 74        | 81             |

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

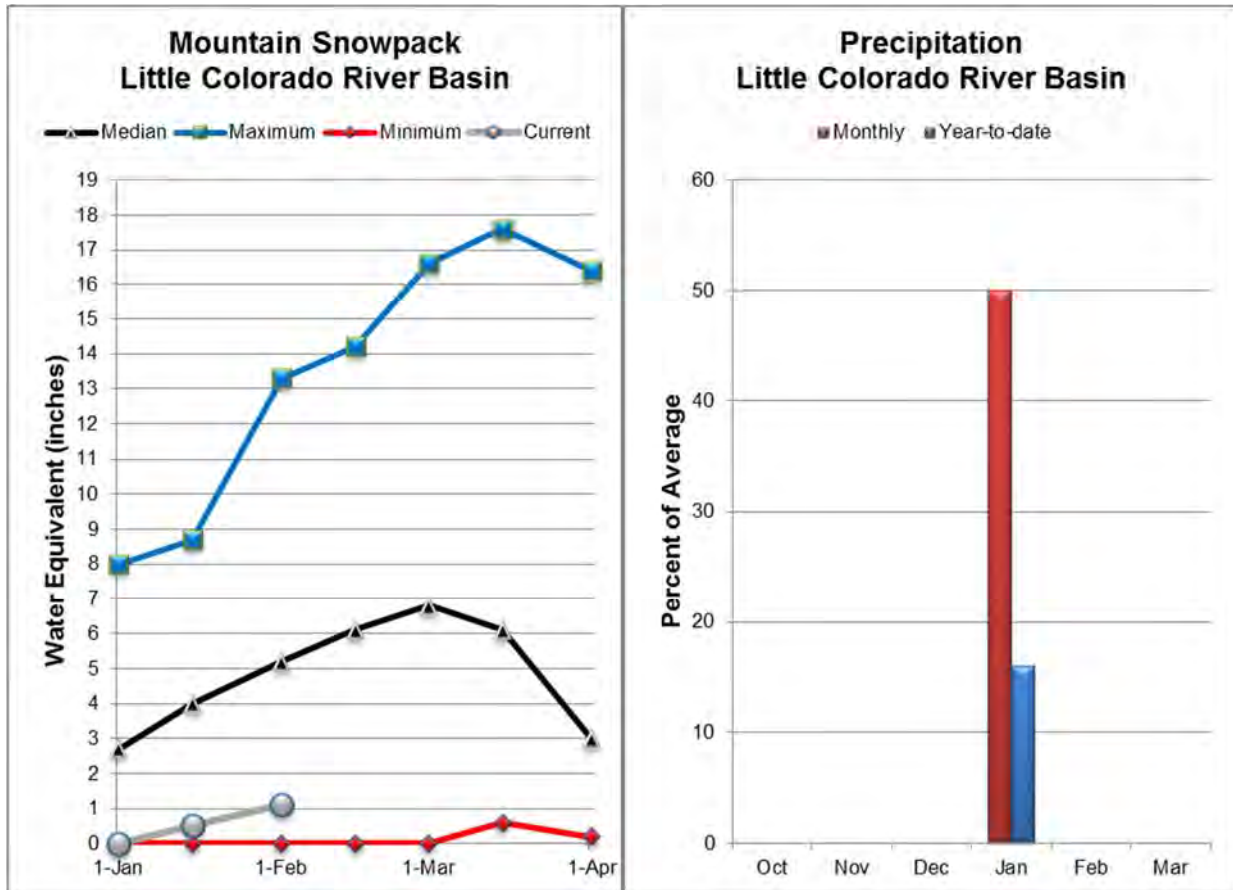
3) Median value used in place of average

| Reservoir Storage<br>End of January, 2018 | Current (KAF) | Last Year (KAF) | Average (KAF) | Capacity (KAF) |
|-------------------------------------------|---------------|-----------------|---------------|----------------|
| San Carlos Reservoir                      | 62.1          | 134.5           | 366.8         | 875.0          |
| Basin-wide Total                          | 62.1          | 134.5           | 366.8         | 875.0          |
| # of reservoirs                           | 1             | 1               | 1             | 1              |

| Watershed Snowpack Analysis<br>February 1, 2018 | # of Sites | % Median | Last Year % Median |
|-------------------------------------------------|------------|----------|--------------------|
| SAN FRANCISCO-UPPER GILA RIVER BASIN            | 10         | 10%      | 88%                |

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

Well below normal streamflow levels are forecast for the basin. In the Little Colorado River, above Lyman Lake, the forecast calls for 15% of median streamflow through June. At Blue Ridge (C.C. Cragin) Reservoir, inflow to the lake is forecast at 15% of median through May. Snowpacks along the southern headwaters of the Little Colorado River, and along the central Mogollon Rim, were measured at 21% and 20% of median, respectively. Note that there was no measurable precipitation during the months of October, November, and December.



### Little Colorado River Basin Streamflow Forecasts - February 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> | FEB-JUN         | 0.2       | 0.57      | 1         | 15%   | 1.6       | 2.9       | 6.6            |
| Rio Nutria nr Ramah <sup>3</sup>             | FEB-MAY         | 0         | 0.04      | 0.2       | 14%   | 0.54      | 1.55      | 1.4            |
| Zuni R ab Black Rock Reservoir <sup>3</sup>  | FEB-MAY         | 0         | 0.01      | 0.14      | 37%   | 0.33      | 0.62      | 0.38           |
| Blue Ridge Reservoir Inflow <sup>3</sup>     | FEB-MAY         | 0.16      | 1.09      | 2.5       | 15%   | 4.8       | 10.2      | 16.3           |
| Lake Mary Reservoir Inflow <sup>3</sup>      | FEB-MAY         | 0.59      | 1.29      | 2         | 47%   | 2.9       | 4.8       | 4.3            |

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

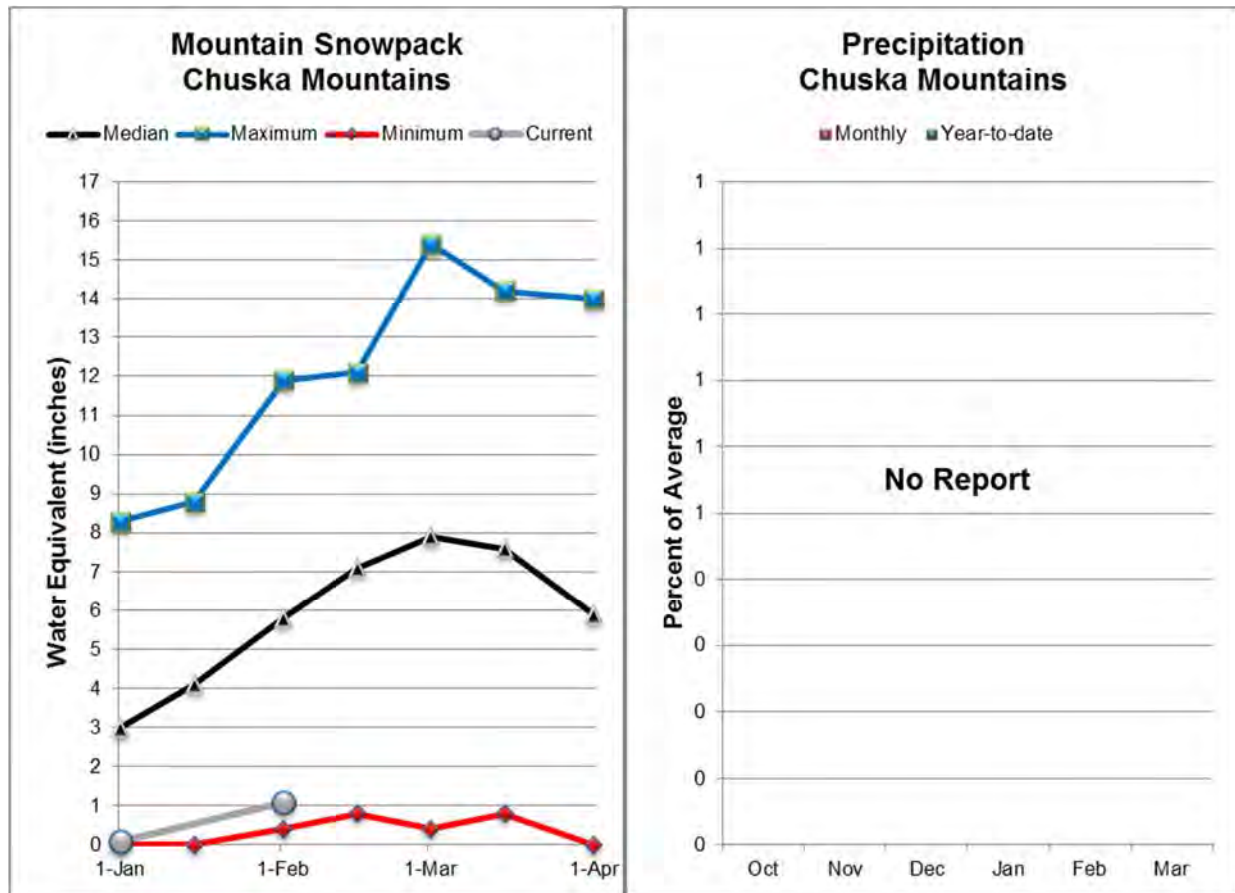
3) Median value used in place of average

| Reservoir Storage<br>End of January, 2018 | Current (KAF) | Last Year (KAF) | Average (KAF) | Capacity (KAF) |
|-------------------------------------------|---------------|-----------------|---------------|----------------|
| Lyman Reservoir                           | 11.0          | 7.0             | 12.3          | 30.0           |
| Basin-wide Total                          | 11.0          | 7.0             | 12.3          | 30.0           |
| # of reservoirs                           | 1             | 1               | 1             | 1              |

| Watershed Snowpack Analysis<br>February 1, 2018 | # of Sites | % Median | Last Year % Median |
|-------------------------------------------------|------------|----------|--------------------|
| LITTLE COLORADO RIVER BASIN                     | 10         | 21%      | 152%               |
| CENTRAL MOGOLLON RIM                            | 4          | 20%      | 157%               |

## CHUSKA MOUNTAINS as of February 1, 2018

Snow survey measurements conducted by staff of the Navajo Nation Water Management Branch show the Chuska snowpack to be at 19% of median. The forecast calls for well below normal runoff for Wheatfields Creek, Captain Tom Wash, and Bowl Canyon Creek.



## Chuska Mountains Streamflow Forecasts - February 1, 2018

|                                                                                                         |
|---------------------------------------------------------------------------------------------------------|
| Forecast Exceedance Probabilities for Risk Assessment<br>Chance that actual volume will exceed forecast |
|---------------------------------------------------------------------------------------------------------|

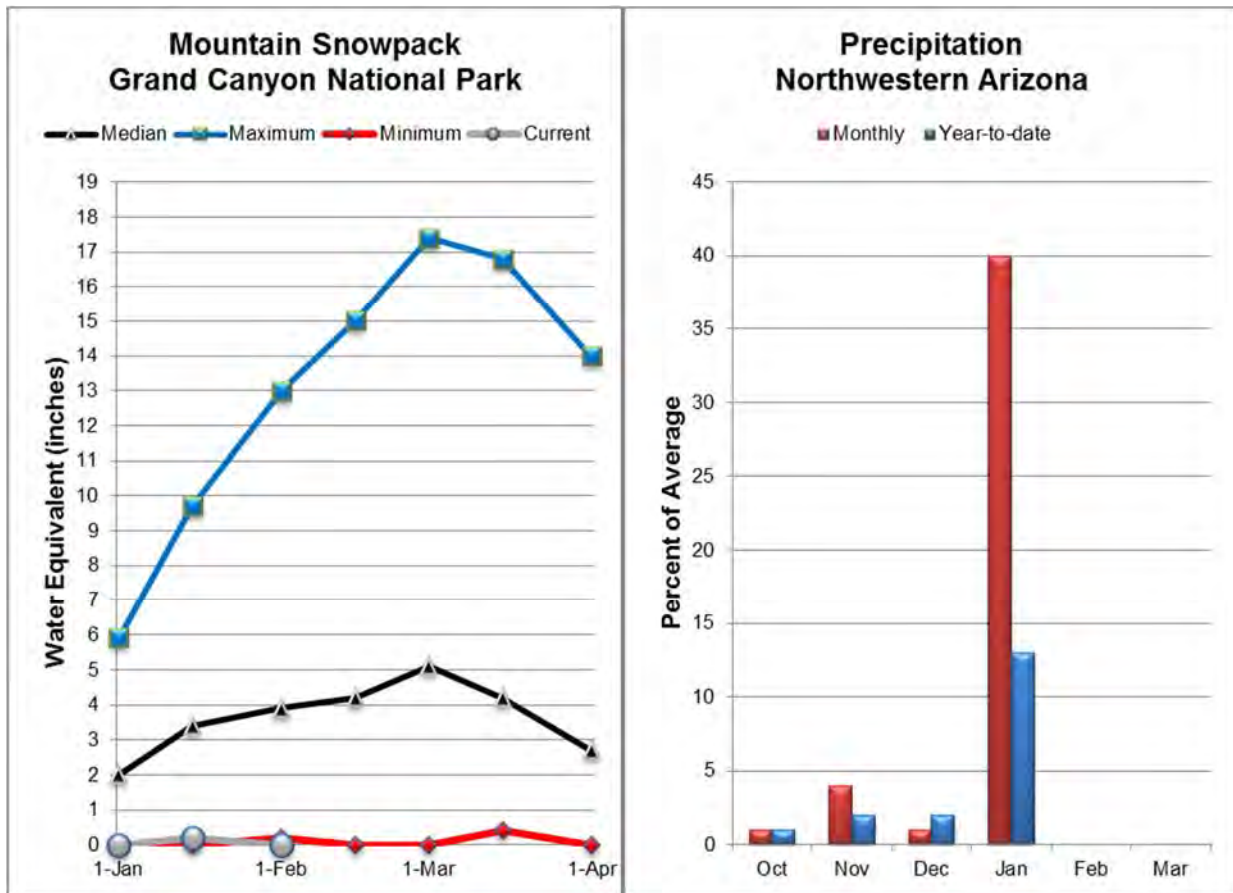
| CHUSKA MOUNTAINS                   | Forecast Period | 90% (KAF) | 70% (KAF) | 50% (KAF) | % Avg | 30% (KAF) | 10% (KAF) | 30yr Avg (KAF) |
|------------------------------------|-----------------|-----------|-----------|-----------|-------|-----------|-----------|----------------|
| Captain Tom Wash nr Two Gray Hills | MAR-MAY         | 0         | 0.04      | 0.2       | 8%    | 0.58      | 1.71      | 2.6            |
| Wheatfields Ck nr Wheatfields      | MAR-MAY         | 0         | 0.14      | 0.36      | 17%   | 0.68      | 1.32      | 2.1            |
| Bowl Canyon Ck ab Asaayi Lake      | MAR-MAY         | 0.04      | 0.21      | 0.4       | 31%   | 0.65      | 1.13      | 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<br>February 1, 2018 | # of Sites | % Median | Last Year<br>% Median |
|-------------------------------------------------|------------|----------|-----------------------|
| CHUSKA MOUNTAINS                                | 6          | 19%      | 167%                  |
| DEFIANCE PLATEAU                                | 1          | 35%      | 112%                  |

## NORTHWESTERN ARIZONA as of February 1, 2018

On the Colorado River, well below normal inflow to Lake Powell is forecast at 42% 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 0% of median.



## Northwestern Arizona Streamflow Forecasts - February 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         | 1.3       | 5.2       | 14        | 22%   | 29        | 62        | 65             |
| Lake Powell Inflow <sup>2</sup> | APR-JUL         | 1240      | 2190      | 3000      | 42%   | 3930      | 5530      | 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<br>End of January, 2018 | Current (KAF) | Last Year (KAF) | Average (KAF) | Capacity (KAF) |
|-------------------------------------------|---------------|-----------------|---------------|----------------|
| Lake Havasu                               | 541.4         | 569.4           | 556.4         | 619.0          |
| Lake Mohave                               | 1638.0        | 1710.0          | 1676.0        | 1810.0         |
| Lake Mead                                 | 10642.0       | 10531.0         | 20452.0       | 26159.0        |
| Lake Powell                               | 13672.3       | 11359.3         | 17338.0       | 24322.0        |
| Basin-wide Total                          | 26493.7       | 24169.7         | 40022.4       | 52910.0        |
| # of reservoirs                           | 4             | 4               | 4             | 4              |

| Watershed Snowpack Analysis<br>February 1, 2018 | # of Sites | % Median | Last Year % Median |
|-------------------------------------------------|------------|----------|--------------------|
| NORTHWESTERN ARIZONA                            | 2          | 0%       | 234%               |

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

**Snowpack Summary for February 1, 2018**

| <b>SALT RIVER BASIN</b>                         | Network | Elevation<br>(ft) | Depth<br>(in) | SWE<br>(in) | Median<br>(in) | %<br>Median | Last Year<br>SWE (in) | Last Year<br>% Median |
|-------------------------------------------------|---------|-------------------|---------------|-------------|----------------|-------------|-----------------------|-----------------------|
| Baldy                                           | SNOTEL  | 9125              | 6             | 2.1         | 6.4            | 33%         | 7.7                   | 120%                  |
| Beaver Head                                     | SNOTEL  | 7990              | 1             | 0.1         | 3.4            | 3%          | 1.4                   | 41%                   |
| Buck Spring                                     | SC      | 7400              | 0             | 0.0         | 2.0            | 0%          | 5.4                   | 270%                  |
| Coronado Trail                                  | SNOTEL  | 8400              | 0             | 0.0         | 3.2            | 0%          | 1.8                   | 56%                   |
| Hawley Lake                                     | SNOTEL  | 8300              | 11            | 2.2         |                |             | 11.1                  |                       |
| Coronado Trail                                  | SC      | 8350              | 0             | 0.0         | 2.0            | 0%          | 1.4                   | 70%                   |
| Fort Apache                                     | SC      | 9160              | 9             | 1.9         | 6.8            | 28%         | 9.5                   | 140%                  |
| Hannagan Meadows                                | SNOTEL  | 9020              | 4             | 2.0         | 8.3            | 24%         | 7.4                   | 89%                   |
| Maverick Fork                                   | SNOTEL  | 9200              | 4             | 1.2         | 6.8            | 18%         | 10.3                  | 151%                  |
| Nutriosio                                       | SC      | 8500              | 0             | 0.0         | 1.2            | 0%          | 1.2                   | 100%                  |
| Nutriosio                                       | SNOTEL  | 8500              | 0             | 0.0         |                |             | 1.0                   |                       |
| Wildcat                                         | SNOTEL  | 7850              | 0             | 0.0         | 3.0            | 0%          | 2.3                   | 77%                   |
| Workman Creek                                   | SNOTEL  | 6900              | 0             | 0.0         | 4.5            | 0%          | 6.9                   | 153%                  |
| <b>Basin Index</b>                              |         |                   |               |             |                | <b>15%</b>  |                       | <b>116%</b>           |
| # of sites                                      |         |                   |               |             |                | 11          |                       | 11                    |
| <b>VERDE RIVER BASIN</b>                        | Network | Elevation<br>(ft) | Depth<br>(in) | SWE<br>(in) | Median<br>(in) | %<br>Median | Last Year<br>SWE (in) | Last Year<br>% Median |
| Baker Butte                                     | SNOTEL  | 7300              | 2             | 0.7         | 4.3            | 16%         | 6.2                   | 144%                  |
| Baker Butte No. 2                               | SC      | 7700              | 6             | 1.0         | 6.9            | 14%         | 9.0                   | 130%                  |
| Baker Butte Smt                                 | SNOTEL  | 7700              | 9             | 1.8         |                |             | 9.8                   |                       |
| Bar M                                           | SNOTEL  | 6393              | 0             | 0.0         |                |             | 4.4                   |                       |
| Chalender                                       | SC      | 7100              | 0             | 0.0         | 1.8            | 0%          | 1.4                   | 78%                   |
| Chalender                                       | SNOTEL  | 7100              | 1             | 0.1         |                |             | 3.3                   |                       |
| Fort Valley                                     | SC      | 7350              | 0             | 0.0         | 1.8            | 0%          | 3.8                   | 211%                  |
| Fort Valley                                     | SNOTEL  | 7350              | 0             | 0.0         |                |             | 2.9                   |                       |
| Fry                                             | SNOTEL  | 7200              | 6             | 1.7         | 5.0            | 34%         | 8.6                   | 172%                  |
| Happy Jack                                      | SNOTEL  | 7630              | 2             | 0.8         | 3.8            | 21%         | 7.5                   | 197%                  |
| Happy Jack                                      | SC      | 7630              | 0             | 0.0         | 3.2            | 0%          | 7.0                   | 219%                  |
| Mormon Mountain                                 | SNOTEL  | 7500              | 3             | 0.9         | 4.0            | 23%         | 9.1                   | 228%                  |
| Mormon Mountain Summit #2                       | SC      | 8470              | 7             | 1.4         | 7.7            | 18%         | 9.6                   | 125%                  |
| Mormon Mtn Summit                               | SNOTEL  | 8500              | 6             | 1.4         |                |             | 12.3                  |                       |
| Newman Park                                     | SC      | 6750              | 0             | 0.0         | 2.0            | 0%          | 4.4                   | 220%                  |
| White Horse Lake                                | SNOTEL  | 7180              | 0             | 0.0         | 3.4            | 0%          | 5.8                   | 171%                  |
| Williams Ski Run                                | SC      | 7720              | 6             | 1.3         | 5.6            | 23%         | 9.8                   | 175%                  |
| <b>Basin Index</b>                              |         |                   |               |             |                | <b>16%</b>  |                       | <b>166%</b>           |
| # of sites                                      |         |                   |               |             |                | 12          |                       | 12                    |
| <b>SAN FRANCISCO PEAKS</b>                      | Network | Elevation<br>(ft) | Depth<br>(in) | SWE<br>(in) | Median<br>(in) | %<br>Median | Last Year<br>SWE (in) | Last Year<br>% Median |
| Snow Bowl #2                                    | SC      | 11200             | 11            | 2.4         | 11.6           | 21%         | 21.0                  | 181%                  |
| Snowslide Canyon                                | SNOTEL  | 9730              | 10            | 2.7         | 10.0           | 27%         | 25.5                  | 255%                  |
| <b>Basin Index</b>                              |         |                   |               |             |                | <b>24%</b>  |                       | <b>215%</b>           |
| # of sites                                      |         |                   |               |             |                | 2           |                       | 2                     |
| <b>SAN FRANCISCO-UPPER GILA RIVER<br/>BASIN</b> | Network | Elevation<br>(ft) | Depth<br>(in) | SWE<br>(in) | Median<br>(in) | %<br>Median | Last Year<br>SWE (in) | Last Year<br>% Median |
| Beaver Head                                     | SNOTEL  | 7990              | 1             | 0.1         | 3.4            | 3%          | 1.4                   | 41%                   |
| Coronado Trail                                  | SNOTEL  | 8400              | 0             | 0.0         | 3.2            | 0%          | 1.8                   | 56%                   |
| Coronado Trail                                  | SC      | 8350              | 0             | 0.0         | 2.0            | 0%          | 1.4                   | 70%                   |
| Frisco Divide                                   | SNOTEL  | 8000              | 1             | 0.1         | 2.5            | 4%          | 2.0                   | 80%                   |
| Hannagan Meadows                                | SNOTEL  | 9020              | 4             | 2.0         | 8.3            | 24%         | 7.4                   | 89%                   |
| Hummingbird - Aerial And Snow Course            | SC      | 10550             |               |             | 8.9            |             |                       |                       |
| Lookout Mountain                                | SNOTEL  | 8500              | 0             | 0.0         | 2.3            | 0%          | 2.6                   | 113%                  |

|                                     |        |       |   |     |      |     |     |      |
|-------------------------------------|--------|-------|---|-----|------|-----|-----|------|
| Nutrioso                            | SC     | 8500  | 0 | 0.0 | 1.2  | 0%  | 1.2 | 100% |
| Nutrioso                            | SNOTEL | 8500  | 0 | 0.0 |      |     | 1.0 |      |
| Signal Peak                         | SNOTEL | 8360  | 0 | 0.0 | 3.9  | 0%  | 3.5 | 90%  |
| Silver Creek Divide                 | SNOTEL | 9000  | 5 | 1.4 | 6.1  | 23% | 7.5 | 123% |
| State Line                          | SC     | 8000  | 0 | 0.0 | 1.8  | 0%  | 1.9 | 106% |
| Whitewater - Aerial And Snow Course | SC     | 10750 |   |     | 17.8 |     |     |      |

**Basin Index** **10%** **88%**  
# of sites 10 10

| <b>LITTLE COLORADO RIVER BASIN</b> | Network | Elevation<br>(ft) | Depth<br>(in) | SWE<br>(in) | Median<br>(in) | %<br>Median | Last Year<br>SWE (in) | Last Year<br>% Median |
|------------------------------------|---------|-------------------|---------------|-------------|----------------|-------------|-----------------------|-----------------------|
| Baker Butte                        | SNOTEL  | 7300              | 2             | 0.7         | 4.3            | 16%         | 6.2                   | 144%                  |
| Baker Butte No. 2                  | SC      | 7700              | 6             | 1.0         | 6.9            | 14%         | 9.0                   | 130%                  |
| Baker Butte Smt                    | SNOTEL  | 7700              | 9             | 1.8         |                |             | 9.8                   |                       |
| Baldy                              | SNOTEL  | 9125              | 6             | 2.1         | 6.4            | 33%         | 7.7                   | 120%                  |
| Buck Spring                        | SC      | 7400              | 0             | 0.0         | 2.0            | 0%          | 5.4                   | 270%                  |
| Cheese Springs                     | SC      | 8700              | 6             | 1.0         | 4.2            | 24%         | 5.6                   | 133%                  |
| Fort Apache                        | SC      | 9160              | 9             | 1.9         | 6.8            | 28%         | 9.5                   | 140%                  |
| Heber                              | SNOTEL  | 7640              | 3             | 1.1         | 4.6            | 24%         | 8.0                   | 174%                  |
| Lake Mary                          | SC      | 6930              | 0             | 0.0         | 3.0            | 0%          | 5.1                   | 170%                  |
| Maverick Fork                      | SNOTEL  | 9200              | 4             | 1.2         | 6.8            | 18%         | 10.3                  | 151%                  |
| Promontory                         | SNOTEL  | 7930              | 5             | 1.9         | 7.2            | 26%         | 12.8                  | 178%                  |

**Basin Index** **21%** **152%**  
# of sites 10 10

| <b>CENTRAL MOGOLLON RIM</b> | Network | Elevation<br>(ft) | Depth<br>(in) | SWE<br>(in) | Median<br>(in) | %<br>Median | Last Year<br>SWE (in) | Last Year<br>% Median |
|-----------------------------|---------|-------------------|---------------|-------------|----------------|-------------|-----------------------|-----------------------|
| Baker Butte                 | SNOTEL  | 7300              | 2             | 0.7         | 4.3            | 16%         | 6.2                   | 144%                  |
| Baker Butte No. 2           | SC      | 7700              | 6             | 1.0         | 6.9            | 14%         | 9.0                   | 130%                  |
| Baker Butte Smt             | SNOTEL  | 7700              | 9             | 1.8         |                |             | 9.8                   |                       |
| Heber                       | SNOTEL  | 7640              | 3             | 1.1         | 4.6            | 24%         | 8.0                   | 174%                  |
| Promontory                  | SNOTEL  | 7930              | 5             | 1.9         | 7.2            | 26%         | 12.8                  | 178%                  |

**Basin Index** **20%** **157%**  
# of sites 4 4

| <b>CHUSKA MOUNTAINS</b> | Network | Elevation<br>(ft) | Depth<br>(in) | SWE<br>(in) | Median<br>(in) | %<br>Median | Last Year<br>SWE (in) | Last Year<br>% Median |
|-------------------------|---------|-------------------|---------------|-------------|----------------|-------------|-----------------------|-----------------------|
| Beaver Spring           | SC      | 9220              | 6             | 1.4         | 7.7            | 18%         | 11.3                  | 147%                  |
| Beaver Spring           | SNOTEL  | 9200              | 3             | 1.3         |                |             | 11.9                  |                       |
| Bowl Canyon             | SC      | 8980              | 7             | 1.2         | 5.8            | 21%         | 11.2                  | 193%                  |
| Hidden Valley           | SC      | 8480              | 5             | 1.0         |                |             | 9.1                   |                       |
| Missionary Spring       | SC      | 7940              | 0             | 0.0         | 3.6            | 0%          | 3.2                   | 89%                   |
| Tsaile Canyon #1        | SC      | 8160              | 6             | 1.2         | 4.8            | 25%         | 8.4                   | 175%                  |
| Tsaile Canyon #3        | SC      | 8920              | 6             | 1.2         | 6.3            | 19%         | 9.9                   | 157%                  |
| Whiskey Creek           | SC      | 9050              | 7             | 1.4         | 6.3            | 22%         | 13.6                  | 216%                  |
| Navajo Whiskey Ck       | SNOTEL  | 9050              | 0             | 0.0         |                |             | 11.9                  |                       |

**Basin Index** **19%** **167%**  
# of sites 6 6

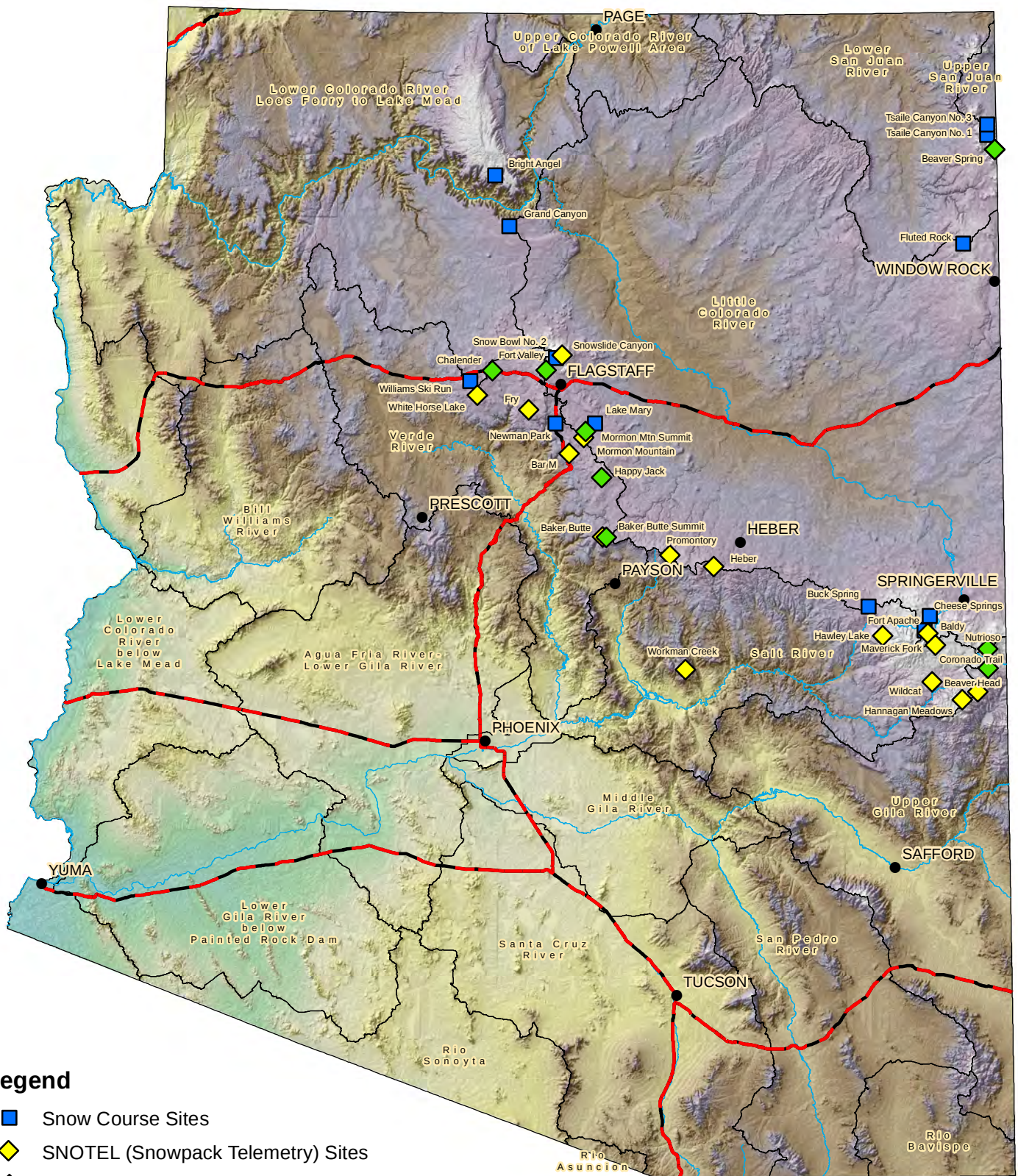
| <b>DEFIANCE PLATEAU</b> | Network | Elevation<br>(ft) | Depth<br>(in) | SWE<br>(in) | Median<br>(in) | %<br>Median | Last Year<br>SWE (in) | Last Year<br>% Median |
|-------------------------|---------|-------------------|---------------|-------------|----------------|-------------|-----------------------|-----------------------|
| Fluted Rock             | SC      | 7800              | 4             | 0.9         | 2.6            | 35%         | 2.9                   | 112%                  |

**Basin Index** **35%** **112%**  
# of sites 1 1

| <b>NORTHWESTERN ARIZONA</b> | Network | Elevation<br>(ft) | Depth<br>(in) | SWE<br>(in) | Median<br>(in) | %<br>Median | Last Year<br>SWE (in) | Last Year<br>% Median |
|-----------------------------|---------|-------------------|---------------|-------------|----------------|-------------|-----------------------|-----------------------|
| Bright Angel                | SC      | 8400              | 2             | 0.0         | 5.4            | 0%          | 13.7                  | 254%                  |
| Grand Canyon                | SC      | 7500              | 0             | 0.0         | 2.3            | 0%          | 4.3                   | 187%                  |

**Basin Index** **0%** **234%**  
# of sites 2 2

# Arizona Snow Survey Data Sites



## Legend

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