



United States
Department of
Agriculture

Natural Resources
Conservation
Service

Arizona

Basin Outlook Report

April 1, 2015



Issued by

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

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 April 1, 2015

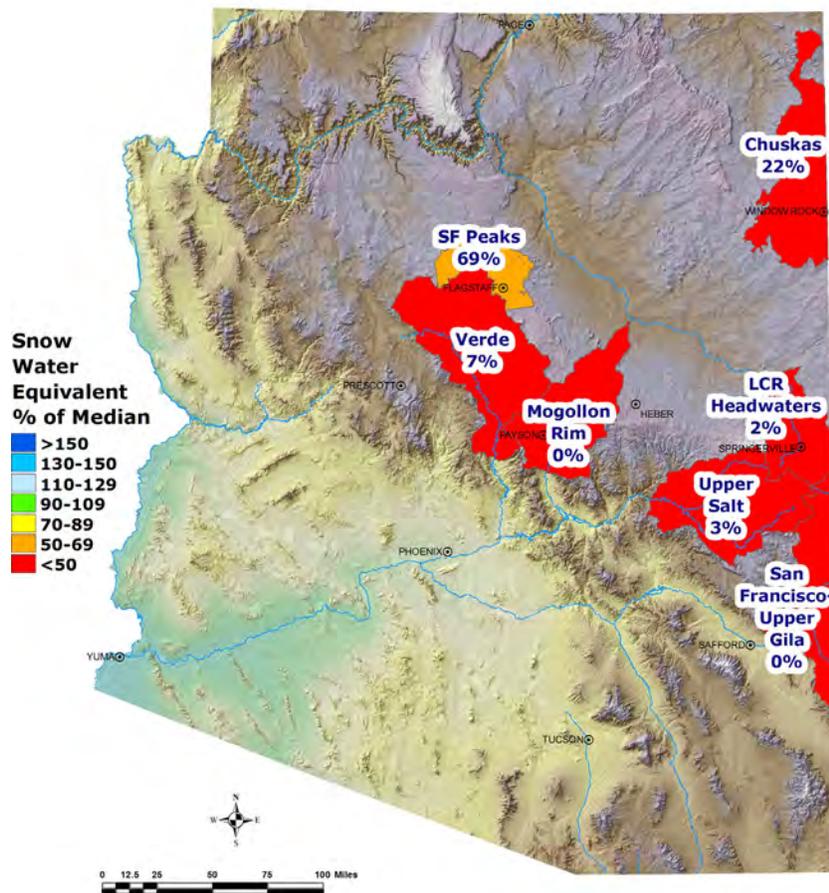
SUMMARY

As of April 1, snowpack levels are well below normal in all of the major basins. Precipitation for March was well below normal, except for the Verde River Basin, which was slightly above normal. The Salt and Verde River reservoir system stands at 58 percent of capacity, while San Carlos Reservoir is at 16 percent of capacity. The final forecast of the season calls for well below normal runoff in all basins for the remainder of the spring runoff period.

SNOWPACK

Snow water equivalent levels are well below normal in the basins, ranging from zero percent of median in the San Francisco-Upper Gila River Basin to seven percent of median in the Verde River Basin. As of the first of the month, all Snow Telemetry (SNOTEL) sites, with the exception of the Snowslide Canyon SNOTEL site, were melted out. The statewide snowpack, which includes the Chuska Mountains and San Francisco Peaks, is also well below normal at 26 percent of median.

**Arizona
Snow Water Equivalent
as of April 1, 2015**

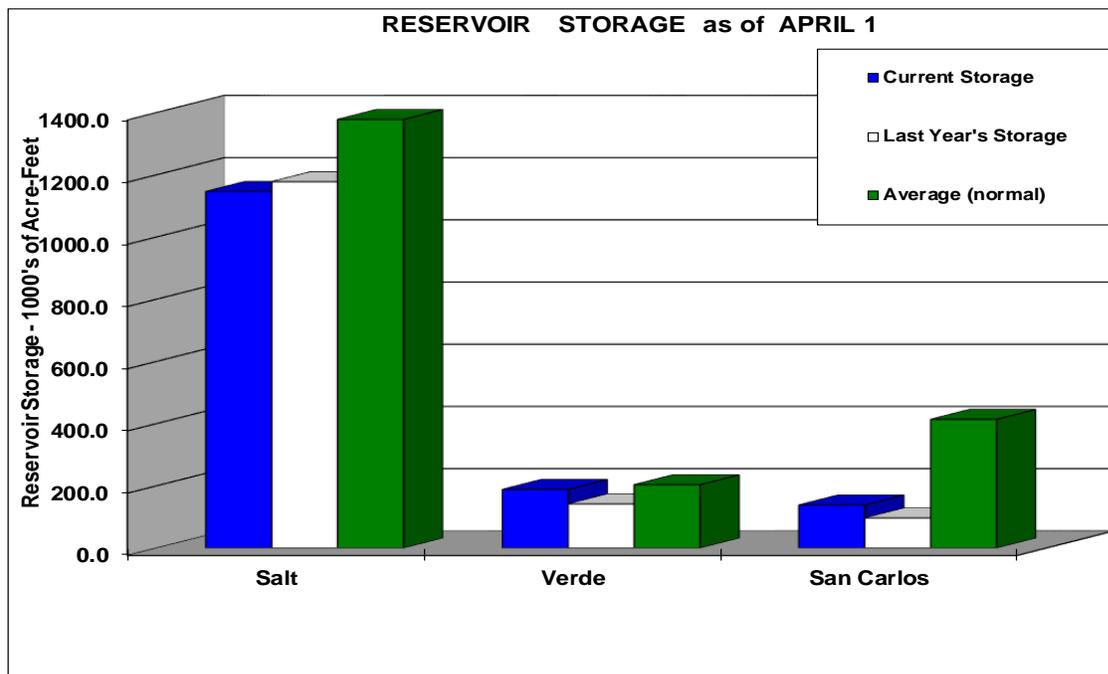


PRECIPITATION

Mountain data from NRCS SNOTEL sites and NWS Cooperator gages show that precipitation for the month of March was well below normal to slightly above normal, ranging from 52 percent of average in the Salt River Basin to 115 percent of average in the Verde River Basin. Most of the precipitation occurred as rain during a major storm at the beginning of the month. Cumulative precipitation since October 1 remains well below normal in all of the basins for the water year. 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 58 percent of capacity. San Carlos Reservoir remains well below normal at 16 percent of capacity.



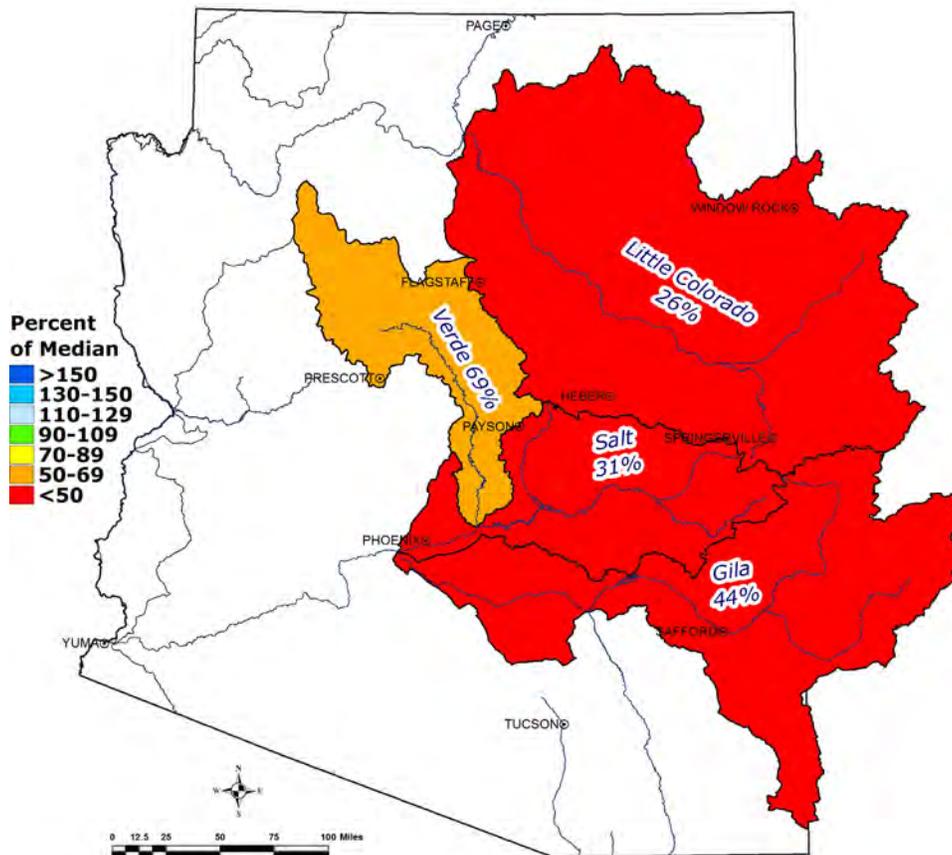
Key storage volumes displayed in thousands of acre-feet (x1000):

<u>Reservoir</u>	<u>Current Storage</u>	<u>Last Year Storage</u>	<u>30-Year Average</u>	<u>Storage Capacity</u>
Salt River System	1146.5	1177.9	1378.0	2025.8
Verde River System	188.5	141.8	203.6	287.4
San Carlos Reservoir	138.4	96.6	413.8	875.0
Lyman Lake	4.8	10.5	14.7	30.0
Lake Havasu	577.9	562.1	562.8	619.0
Lake Mohave	1692.7	1660.8	1687.0	1810.0
Lake Mead	10419.0	11888.0	20450.0	26159.0
Lake Powell	10916.7	9496.0	16942.0	24322.0

STREAMFLOW

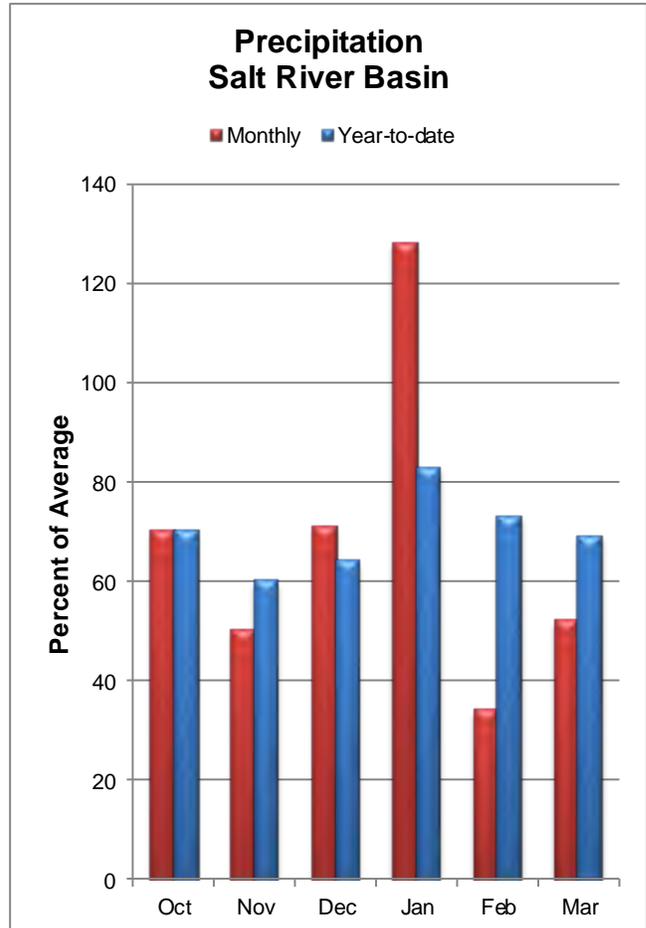
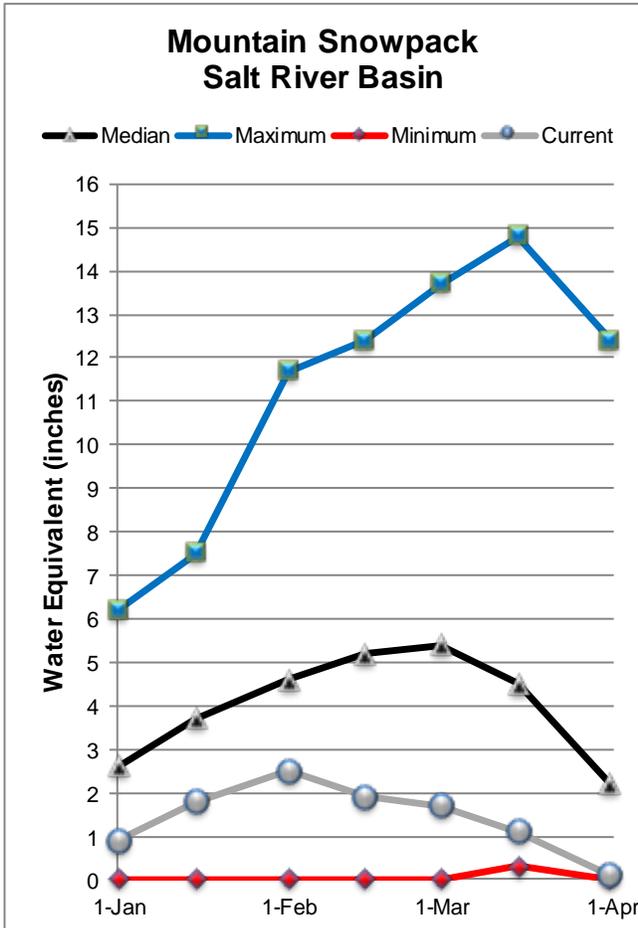
As of April 1, the forecast calls for well below normal streamflow for the remainder of the spring runoff period, ranging from 26 percent of median in the Little Colorado River above Lyman Lake to 69 percent of median in the Verde River above Horseshoe Dam. The final forecasts for the season are based on several factors, including well below normal precipitation with well above normal temperatures for the past month, resulting in snowpacks melting out early with much of the runoff already occurring. 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, 2015



SALT RIVER BASIN as of April 1, 2015

Well below normal streamflow levels are forecast for the basin. In the Salt River, near Roosevelt, the forecast calls for 31% of median streamflow through May, while at Tonto Creek, the forecast calls for 34% of median streamflow through May. Snow survey measurements show the Salt snowpack to be at 3% of median.



**Salt River Basin
Streamflow Forecasts - April 1, 2015**

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 ³	APR			29	36%			80
	APR-MAY	18.9	30	40	31%	52	73	127
Tonto Ck ab Gun Ck nr Roosevelt ³	APR			1.5	34%			4.4
	APR-MAY	0.34	1.11	2	34%	3.3	6	5.9

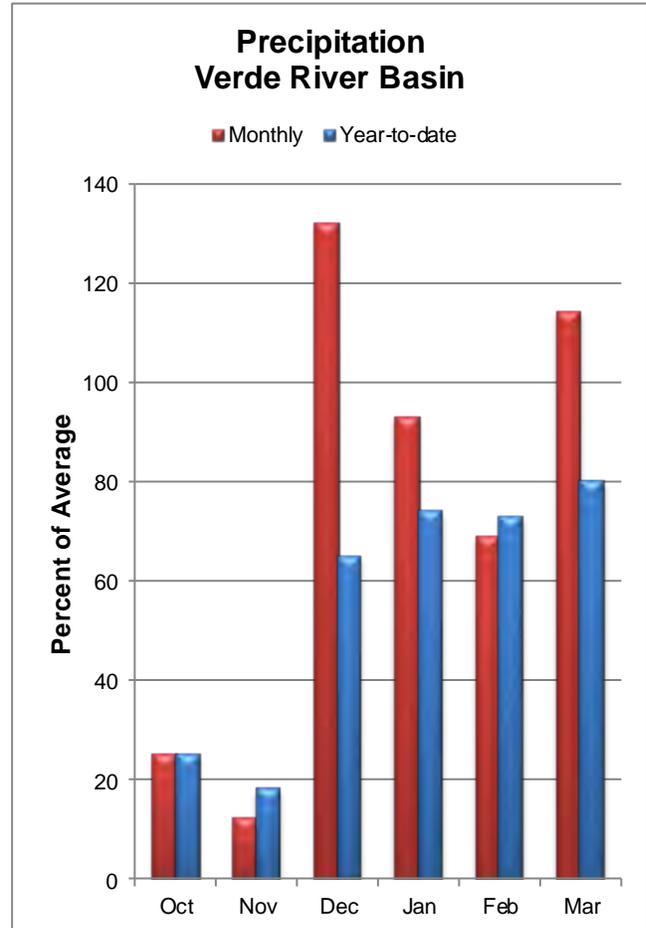
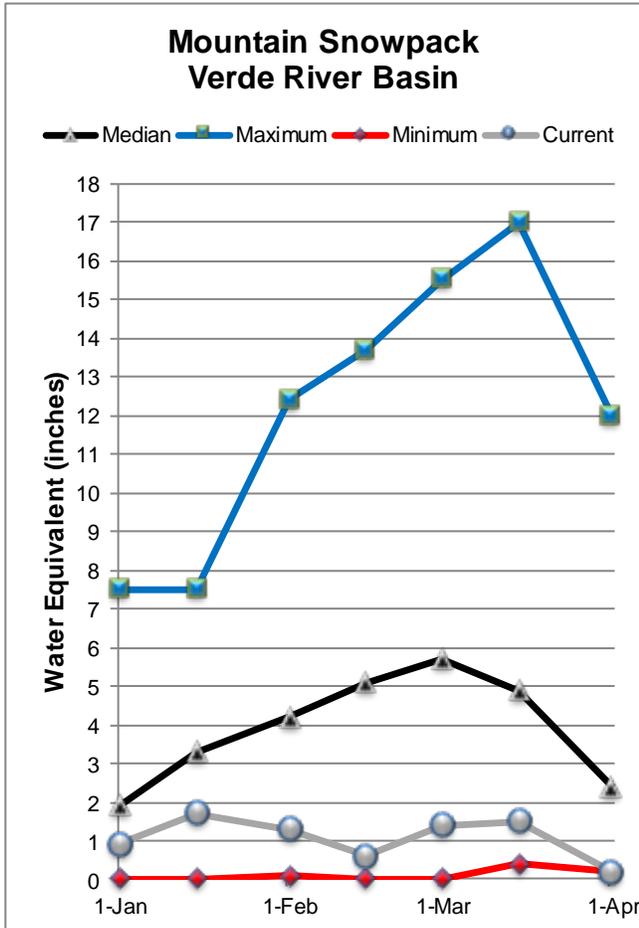
- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

Reservoir Storage End of March, 2015	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Salt River Reservoir System	1146.5	1177.9	1378.0	2025.8
Basin-wide Total	1146.5	1177.9	1378.0	2025.8
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis April 1, 2015	# of Sites	% Median	Last Year % Median
SALT RIVER BASIN	12	3%	6%

VERDE RIVER BASIN as of April 1, 2015

Well below normal streamflow levels are forecast for the basin. In the Verde River, at Horseshoe Dam, the forecast calls for 69% of median streamflow through May. Snow survey measurements show the Verde snowpack to be at 7% of median.



Verde River Basin Streamflow Forecasts - April 1, 2015

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 ³								
	APR			12	50%			24
	APR-MAY	8.2	16.7	25	69%	36	56	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

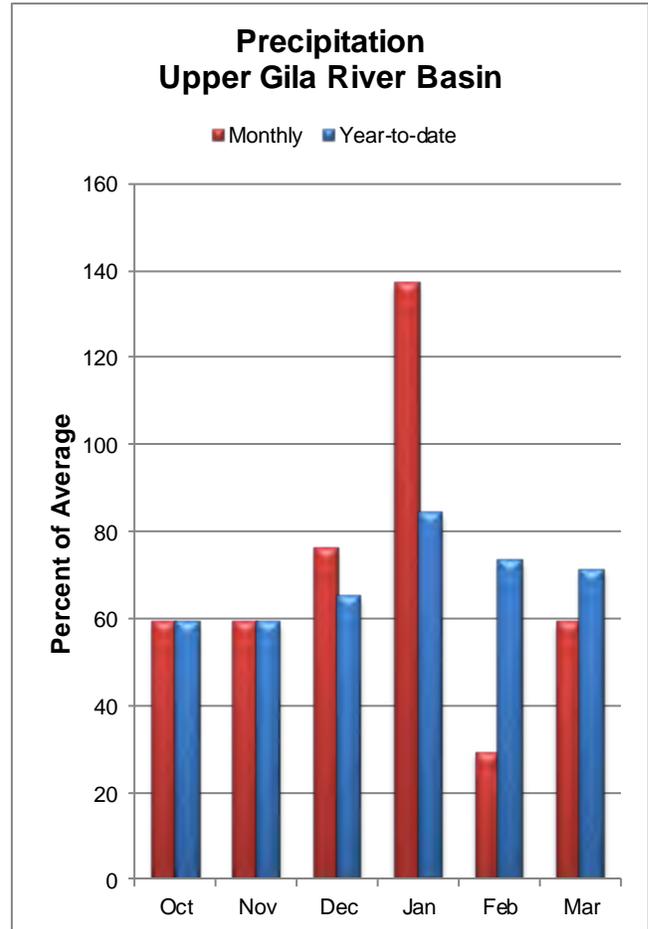
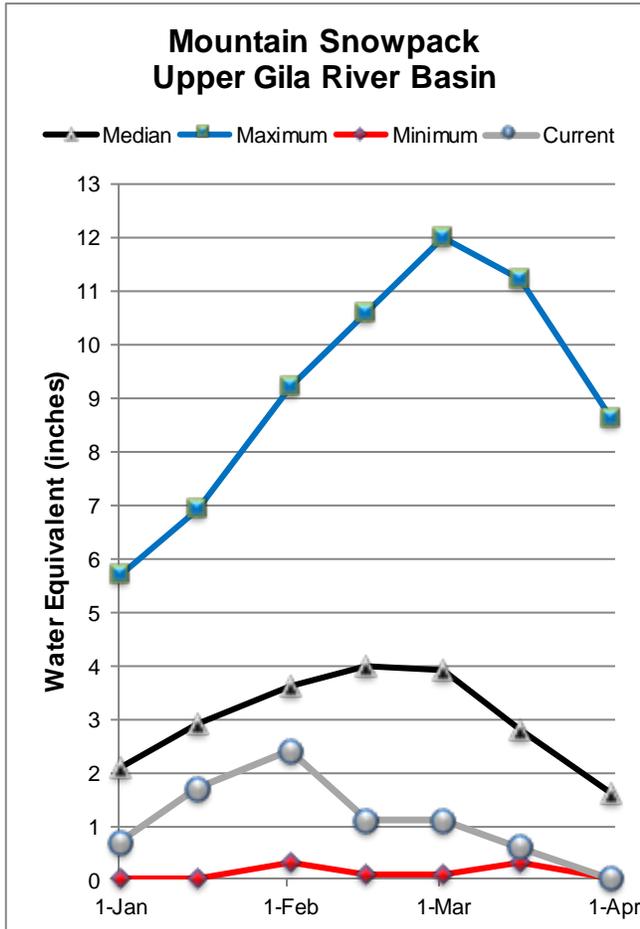
3) Median value used in place of average

Reservoir Storage End of March, 2015	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Verde River Reservoir System	188.5	141.8	203.6	287.4
Basin-wide Total	188.5	141.8	203.6	287.4
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis April 1, 2015	# of Sites	% Median	Last Year % Median
VERDE RIVER BASIN	12	7%	4%

SAN FRANCISCO-UPPER GILA RIVER BASIN as of April 1, 2015

Well below normal streamflow levels are forecast for the basin. In the San Francisco River, at Clifton, the forecast calls for 40% of median streamflow levels through May. In the Gila River, near Solomon, the forecast calls for 44% of median streamflow levels through May. At San Carlos Reservoir, inflow to the lake is forecast at 11% 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, 2015

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 ³	APR-MAY	4.9	7.4	9.5	58%	12	16.3	16.5
Gila R bl Blue Ck nr Virden ³	APR-MAY	2.4	6.4	10.3	49%	15	24	21
San Francisco R at Glenwood ³	APR-MAY	0.99	2.1	3.1	42%	4.5	7.1	7.3
San Francisco R at Clifton ³	APR-MAY	1.9	5.1	7	40%	11.9	18.7	17.3
Gila R nr Solomon ³	APR			12	48%			25
	APR-MAY	4	10.7	17	44%	25	39	39
San Carlos Reservoir Inflow ³	APR-MAY	-40	-15.1	2	11%	19.1	44	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

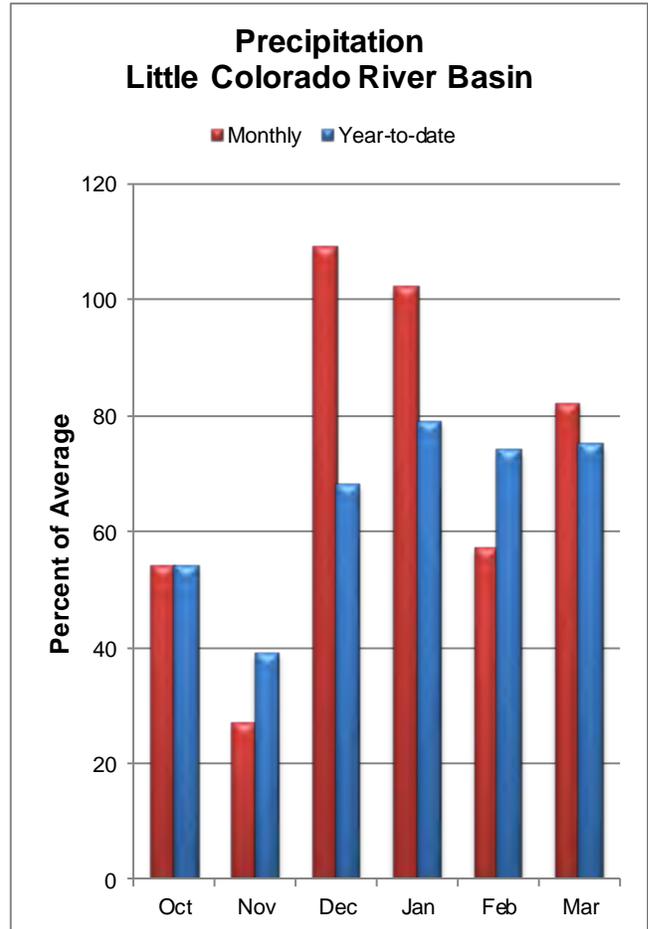
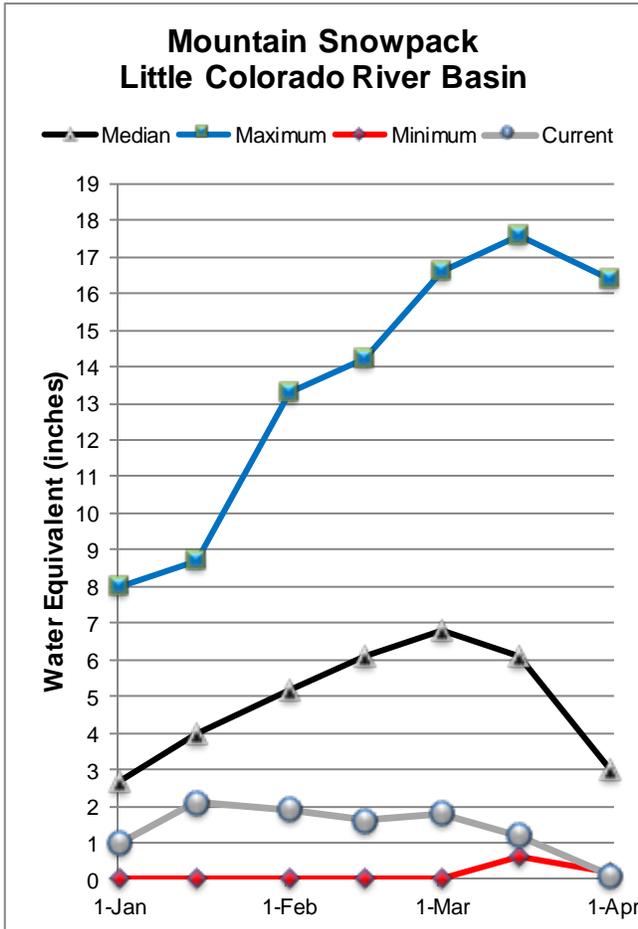
3) Median value used in place of average

Reservoir Storage End of March, 2015	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
San Carlos Reservoir	138.4	96.6	413.8	875.0
Basin-wide Total	138.4	96.6	413.8	875.0
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis April 1, 2015	# of Sites	% Median	Last Year % Median
SAN FRANCISCO-UPPER GILA RIVER BASIN	11	0%	0%

LITTLE COLORADO RIVER BASIN as of April 1, 2015

Well below normal streamflow levels are forecast for the basin. In the Little Colorado River, above Lyman Lake, the forecast calls for 26% of median streamflow through June. At Blue Ridge (C.C. Cragin) Reservoir, inflow to the lake is forecast at 34% 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.



Little Colorado River Basin Streamflow Forecasts - April 1, 2015

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 ³	APR-JUN	0.19	0.53	0.9	26%	1.41	2.5	3.5
Rio Nutria nr Ramah ³	APR-MAY	0	0.01	0.07	37%	0.19	0.55	0.19
Ramah Reservoir Inflow ³	APR-MAY	0	0	0.04	36%	0.14	0.42	0.11
Zuni R ab Black Rock Reservoir ³	APR-MAY	0	0	0.04	40%	0.34	1.31	0.1
Blue Ridge Reservoir Inflow ³	APR-MAY	0.18	0.72	1.41	34%	2.4	4.7	4.1
Lake Mary Reservoir Inflow ³	APR-MAY	0.33	0.62	0.89	89%	1.23	1.86	1

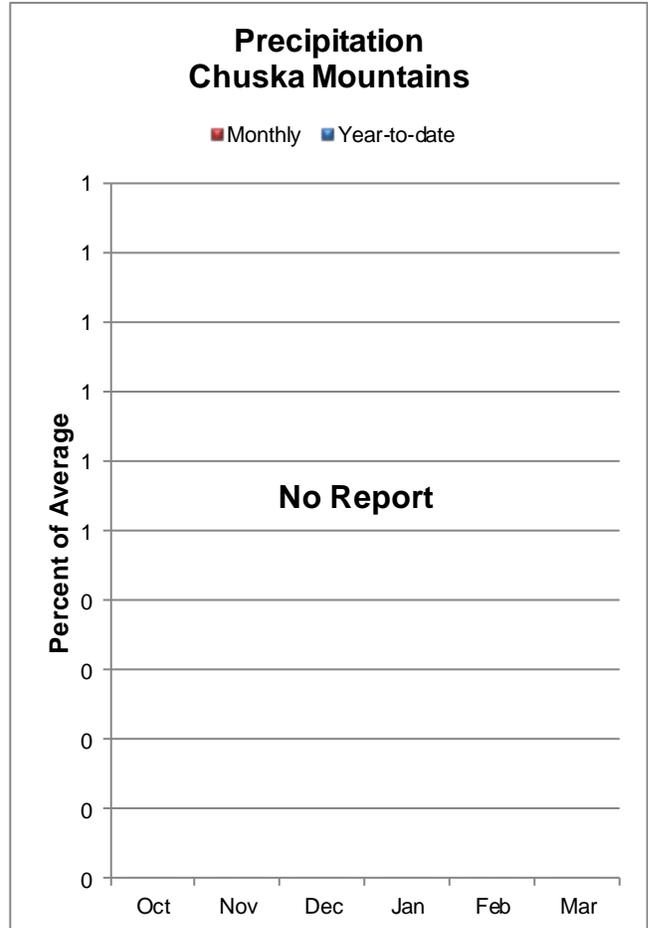
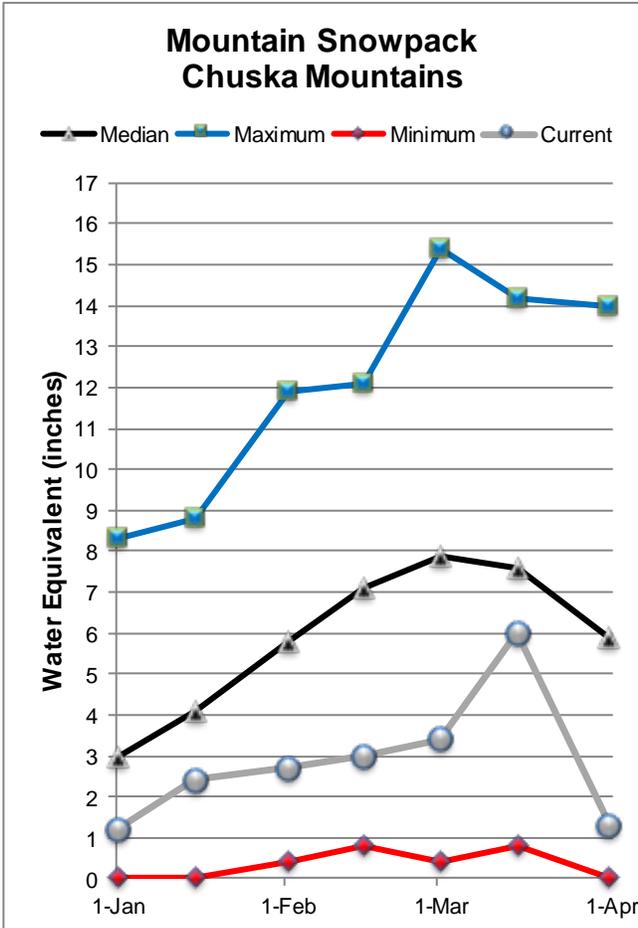
- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

Reservoir Storage End of March, 2015	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Lyman Reservoir	4.8	10.5	14.7	30.0
Basin-wide Total	4.8	10.5	14.7	30.0
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis April 1, 2015	# of Sites	% Median	Last Year % Median
LITTLE COLORADO RIVER BASIN	10	2%	4%
CENTRAL MOGOLLON RIM	4	0%	0%

CHUSKA MOUNTAINS as of April 1, 2015

Snow survey measurements conducted by staff of the Navajo Nation Water Management Branch show the Chuska snowpack to be at 22% of median. Well below normal runoff is forecast for Wheatfields Creek, Captain Tom Wash, and Bowl Canyon Creek.



Chuska Mountains Streamflow Forecasts - April 1, 2015

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

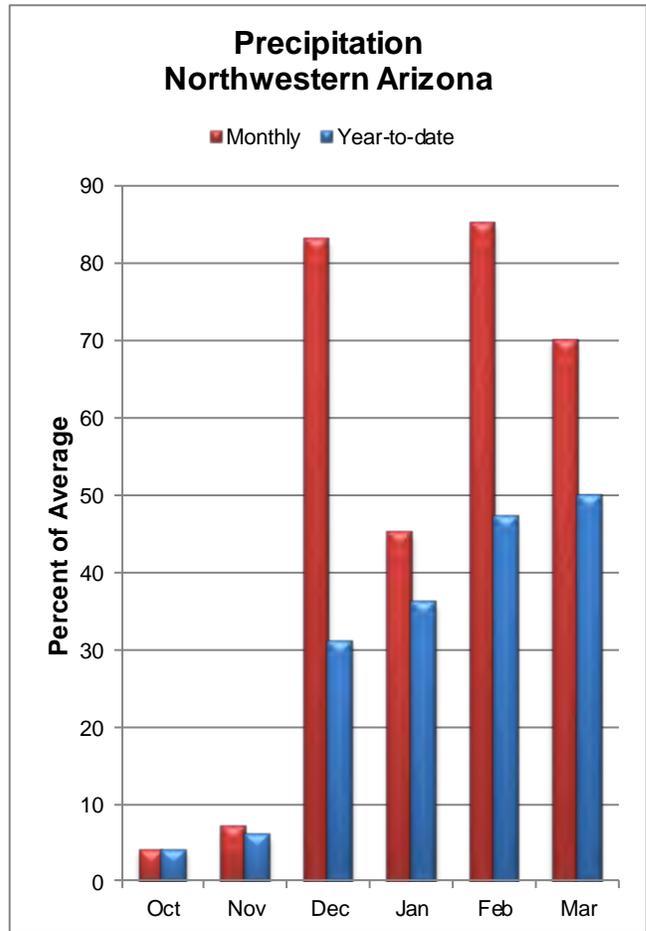
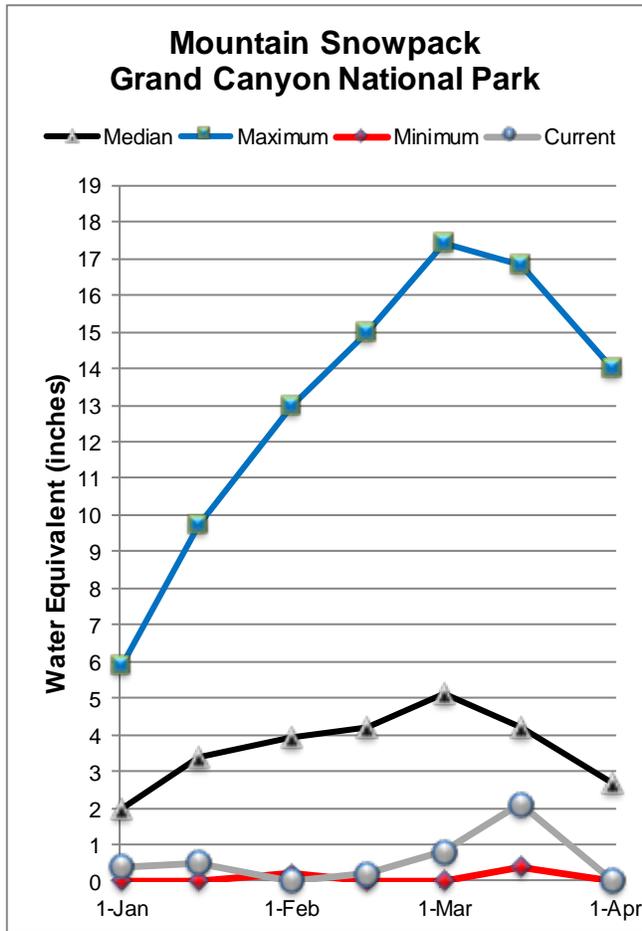
CHUSKA MOUNTAINS	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Captain Tom Wash nr Two Gray Hills	MAR-MAY	0.09	0.47	1	38%	1.84	3.8	2.6
Wheatfields Ck nr Wheatfields	MAR-MAY	0.45	0.75	1	48%	1.29	1.77	2.1
Bowl Canyon Ck ab Asaayi Lake	MAR-MAY	0.21	0.42	0.6	46%	0.81	1.19	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, 2015	# of Sites	% Median	Last Year % Median
CHUSKA MOUNTAINS	6	22%	17%
DEFIANCE PLATEAU	1		

NORTHWESTERN ARIZONA as of April 1, 2015

On the Colorado River, well below normal inflow to Lake Powell is forecast at 45% 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 - April 1, 2015

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	0.72	5	13.5	21%	16.8	30	65
Lake Powell Inflow ²	APR-JUL	1770	2570	3200	45%	3900	5050	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, 2015	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Lake Havasu	577.9	562.1	562.8	619.0
Lake Mohave	1692.7	1660.8	1687.0	1810.0
Lake Mead	10419.0	11888.0	20450.0	26159.0
Lake Powell	10916.7	9496.0	16942.0	24322.0
Basin-wide Total	23606.3	23606.9	39641.8	52910.0
# of reservoirs	4	4	4	4

Watershed Snowpack Analysis April 1, 2015	# of Sites	% Median	Last Year % Median
NORTHWESTERN ARIZONA	2	0%	0%

Basinwide Summary: April 1, 2015
(Averages/Medians based on 1981-2010 reference period)

Snowpack Summary for April 1, 2015

Map Num	SALT RIVER BASIN	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
5	Baldy	SNOTEL	9125	0	0.0	2.5	0%	0.0	0%
7	Beaver Head	SNOTEL	7990	0	0.0	0.0		0.0	
8	Beaver Head	SC	8000	0	0.0	0.0		0.0	
12	Buck Spring	SC	7400	0	0.0	0.0		0.0	
16	Coronado Trail	SNOTEL	8400	0	0.0	0.0		0.0	
17	Coronado Trail	SC	8350	0	0.0	0.0		0.0	
19	Fort Apache	SC	9160	2	0.7	6.2	11%	1.3	21%
24	Hannagan Meadows	SNOTEL	9020	0	0.0	7.7	0%	0.0	0%
29	Maverick Fork	SNOTEL	9200	0	0.0	5.3	0%	0.0	0%
34	Nutriosio	SC	8500	0	0.0	0.0		0.0	
35	Nutriosio	SNOTEL	8500	0	0.0			0.0	
42	Wildcat	SNOTEL	7850	0	0.0	0.0		0.0	
44	Workman Creek	SNOTEL	6900	0	0.0	0.0		0.0	
Basin Index							3%		6%
# of sites							12		12

Map Num	VERDE RIVER BASIN	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
2	Baker Butte	SNOTEL	7300	0	0.0	0.0		0.0	
3	Baker Butte No. 2	SC	7700	0	0.0	8.9	0%	0.0	0%
4	Baker Butte Smt	SNOTEL	7700	0	0.0			2.8	
6	Bar M	SNOTEL	6393	0	0.0			0.0	
13	Chalender	SC	7100	0	0.0	0.0		0.0	
14	Chalender	SNOTEL	7100	0	0.0			0.0	
20	Fort Valley	SC	7350	0	0.0	0.0		0.0	
21	Fort Valley	SNOTEL	7350	0	0.0			0.0	
22	Fry	SNOTEL	7200	0	0.0	0.0		0.0	
25	Happy Jack	SNOTEL	7630	0	0.0	0.3	0%	0.0	0%
26	Happy Jack	SC	7630	0	0.0	0.0		0.0	
30	Mormon Mountain	SNOTEL	7500	0	0.0	0.7	0%	0.0	0%
31	Mormon Mountain Summit #2	SC	8470	0	0.0	10.2	0%	1.1	11%
32	Mormon Mtn Summit	SNOTEL	8500	0	0.0			0.0	
33	Newman Park	SC	6750	0	0.0	0.0		0.0	
41	White Horse Lake	SNOTEL	7180	0	0.0	0.0		0.0	
43	Williams Ski Run	SC	7720	4	1.9	6.5	29%	0.0	0%
Basin Index							7%		4%
# of sites							12		12

Map Num	SAN FRANCISCO PEAKS	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
37	Snow Bowl #2	SC	11200	44	14.8	19.2	77%	7.6	40%
38	Snowslide Canyon	SNOTEL	9730	29	10.0	17.0	59%	10.6	62%
Basin Index							69%		50%
# of sites							2		2

Map Num	SAN FRANCISCO-UPPER GILA RIVER BASIN	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
8	Beaver Head	SNOTEL	7990	0	0.0	0.0		0.0	
9	Beaver Head	SC	8000	0	0.0	0.0		0.0	
16	Coronado Trail	SNOTEL	8400	0	0.0	0.0		0.0	
17	Coronado Trail	SC	8350	0	0.0	0.0		0.0	
	Frisko Divide	SNOTEL	8000	0	0.0	0.0		0.0	
24	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	
34	Nutriosio	SC	8500	0	0.0	0.0		0.0	
35	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	0	0.0	0.0		0.0	
Whitewater - Aerial And Snow Course	SC	10750			22.6			

Basin Index **0%**
of sites 11 **11**

Map Num	LITTLE COLORADO RIVER BASIN	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
2	Baker Butte	SNOTEL	7300	0	0.0	0.0		0.0	
3	Baker Butte No. 2	SC	7700	0	0.0	8.9	0%	0.0	0%
4	Baker Butte Smt	SNOTEL	7700	0	0.0			2.8	
6	Baldy	SNOTEL	9125	0	0.0	2.5	0%	0.0	0%
12	Buck Spring	SC	7400	0	0.0	0.0		0.0	
15	Cheese Springs	SC	8700	0	0.0	1.6	0%	0.0	0%
19	Fort Apache	SC	9160	2	0.7	6.2	11%	1.3	21%
27	Heber	SNOTEL	7640	0	0.0	0.0		0.0	
28	Lake Mary	SC	6930	0	0.0	0.0		0.0	
29	Maverick Fork	SNOTEL	9200	0	0.0	5.3	0%	0.0	0%
36	Promontory	SNOTEL	7930	0	0.0	5.5	0%	0.0	0%

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

Map Num	CENTRAL MOGOLLON RIM	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
2	Baker Butte	SNOTEL	7300	0	0.0	0.0		0.0	
3	Baker Butte No. 2	SC	7700	0	0.0	8.9	0%	0.0	0%
4	Baker Butte Smt	SNOTEL	7700	0	0.0			2.8	
27	Heber	SNOTEL	7640	0	0.0	0.0		0.0	
36	Promontory	SNOTEL	7930	0	0.0	5.5	0%	0.0	0%

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

Map Num	CHUSKA MOUNTAINS	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
9	Beaver Spring	SC	9220	0	0.0	8.0	0%	1.2	15%
10	Beaver Spring	SNOTEL	9200	0	0.0			0.0	
	Bowl Canyon	SC	8980	15	4.1	7.8	53%	0.9	12%
	Hidden Valley	SC	8480	7	2.5			0.0	
	Missionary Spring	SC	7940	0	0.0	0.0		0.0	
39	Tsaile Canyon #1	SC	8160	0	0.0	3.4	0%	0.0	0%
40	Tsaile Canyon #3	SC	8920	8	2.3	7.2	32%	1.6	22%
	Whiskey Creek	SC	9050	4	1.2	8.7	14%	2.3	26%
	Navajo Whiskey Ck	SNOTEL	9050	0	0.0			0.0	

Basin Index **22%**
of sites 6 **17%**

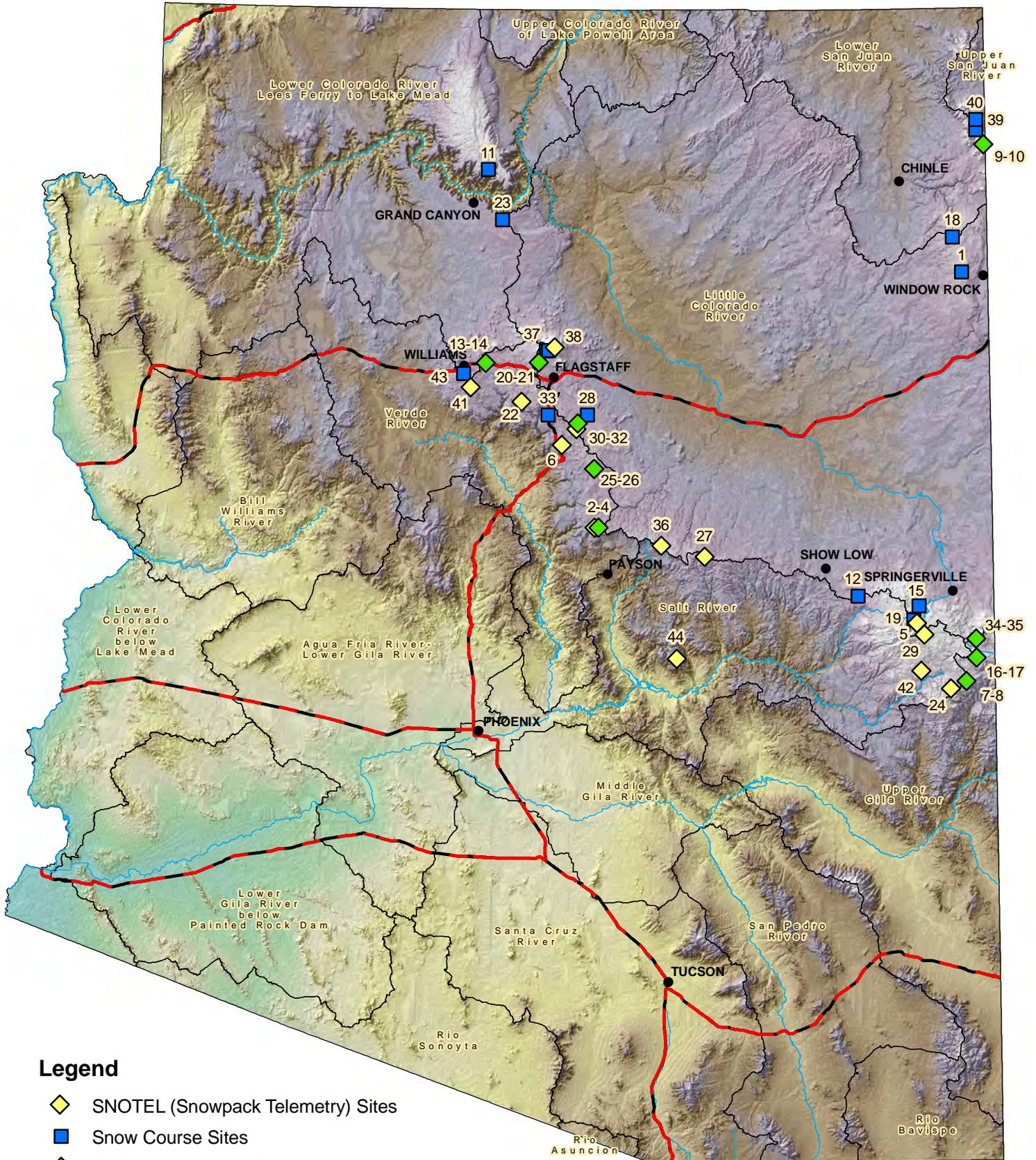
Map Num	DEFIANCE PLATEAU	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
18	Fluted Rock	SC	7800	0	0.0	0.0		0.0	

Basin Index **0%**
of sites 1 **1**

Map Num	NORTHWESTERN ARIZONA	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
11	Bright Angel	SC	8400	0	0.0	5.3	0%	0.0	0%
23	Grand Canyon	SC	7500	0	0.0	0.0		0.0	

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

Arizona Snow Survey Data Sites



Legend

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

