



Natural
Resources
Conservation
Service

Arizona

Basin Outlook Report

February 15, 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.



For more water supply and resource management information, contact:

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ARIZONA Basin Outlook Report as of February 15, 2015

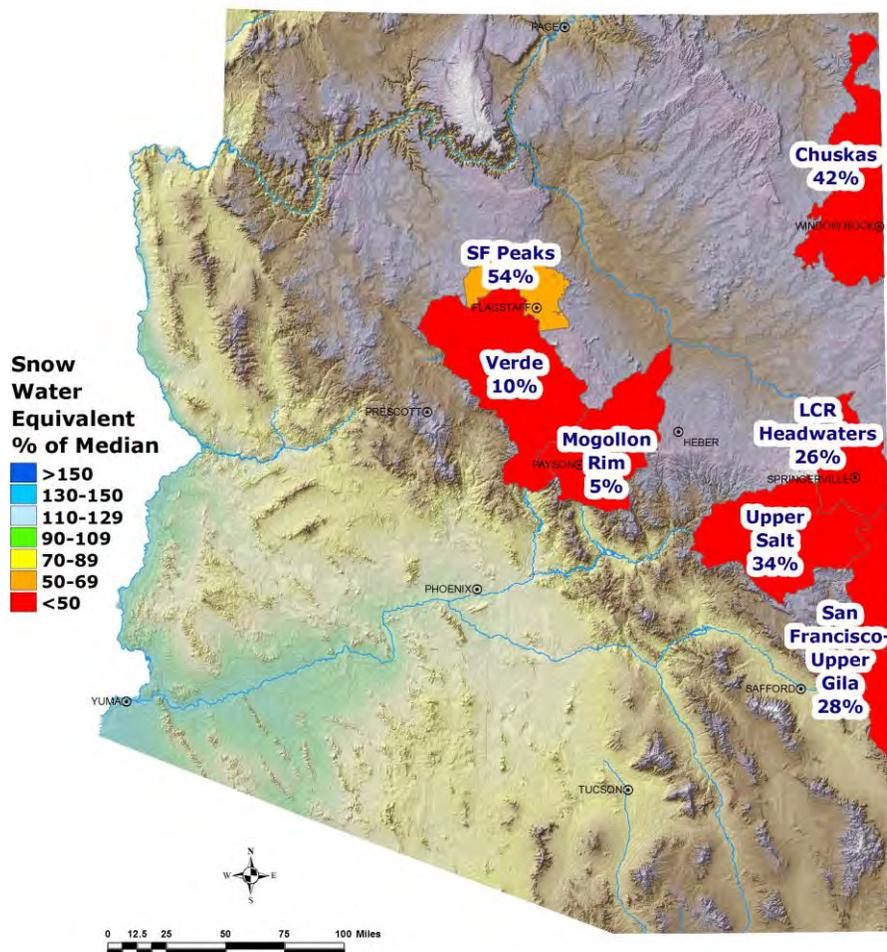
SUMMARY

As of February 15, snowpack levels are well below normal in the major basins. Precipitation for the first half of February was well below normal throughout the basins. The Salt River and Verde reservoir system stands at 53 percent of capacity, while the San Carlos Reservoir is at 15 percent of capacity. The mid-month forecast calls for well below normal runoff in all major basins for the spring runoff period.

SNOWPACK

Snow water equivalent levels are well below normal in the major basins, ranging from a low of 10 percent of median in the Verde River Basin to a high of 34 percent of median in the Salt River Basin. The statewide snowpack, which includes the Chuska Mountains and San Francisco Peaks, is well below normal at 27 percent of median.

**Arizona
Snow Water Equivalent
as of February 15, 2015**

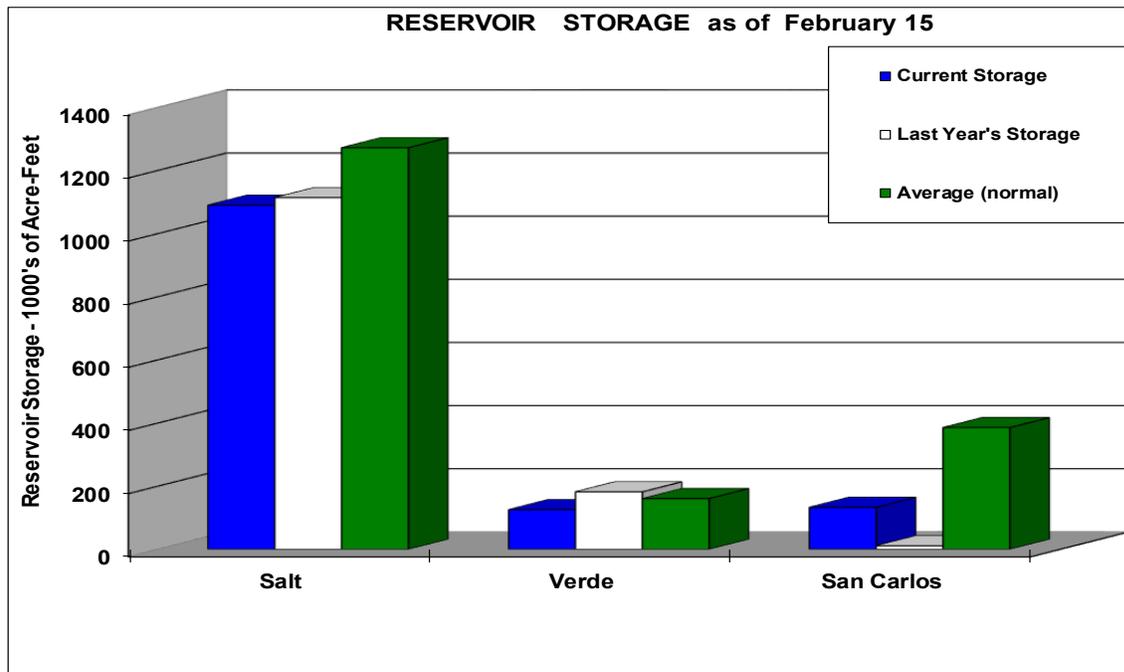


PRECIPITATION

Mountain data from NRCS SNOTEL sites and NWS Cooperator gages show that precipitation for the first half of February was well below normal in all major basins. Cumulative precipitation since October 1 is well below normal in all 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 15, the Salt River reservoir system stands at 54 percent of capacity, while the Verde River reservoir system stands at 44 percent of capacity. San Carlos Reservoir remains well below normal at 15 percent of capacity.



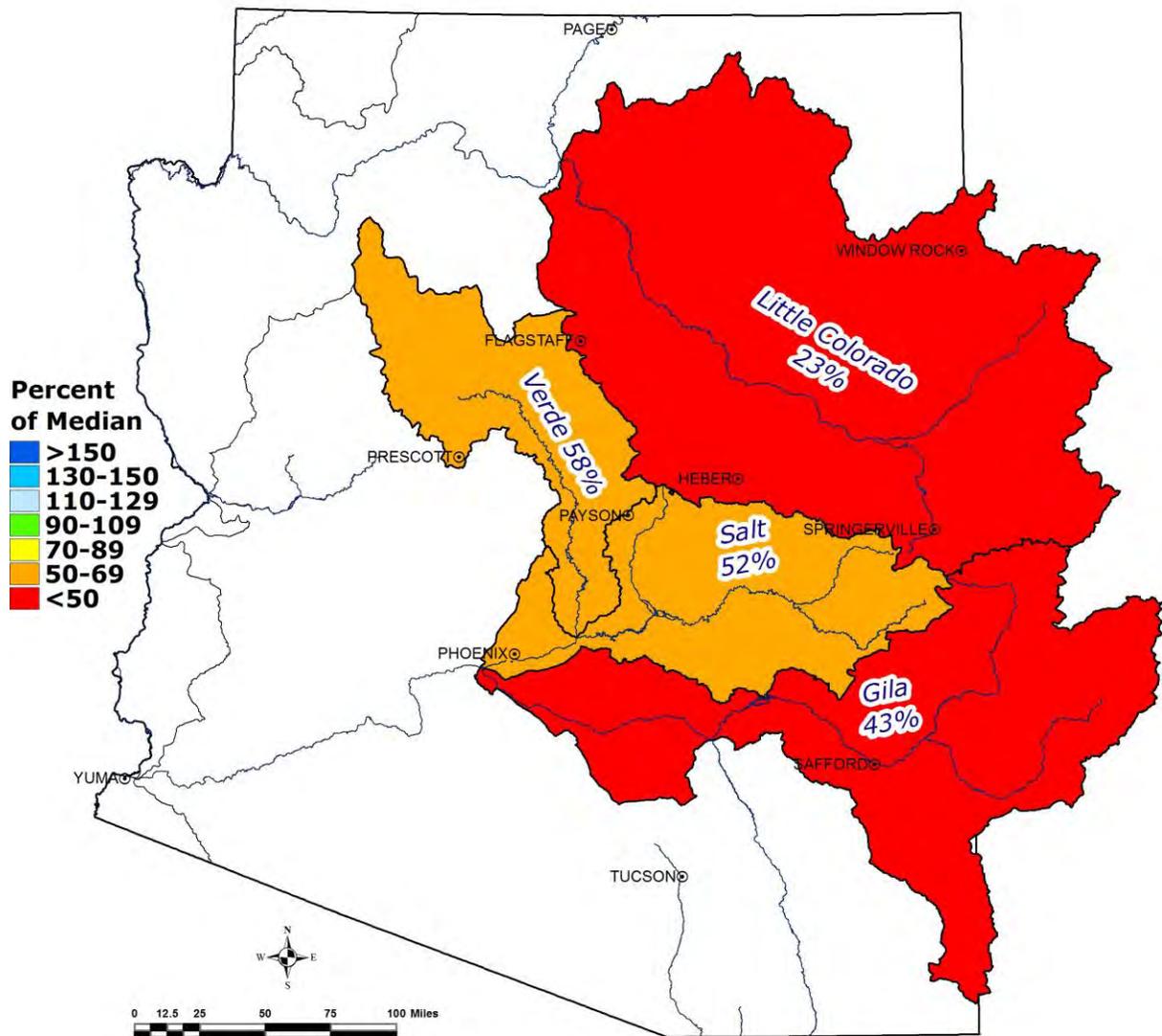
Key storage volumes displayed in thousands of acre-feet (x1000):

<u>Reservoir</u>	<u>Current Storage</u>	<u>Last Year Storage</u>	<u>30-Year Average</u>	<u>Storage Capacity</u>
Salt River System	1090.1	1140.9	1272.0	2025.8
Verde River System	125.6	144.0	160.8	287.4
San Carlos Reservoir	133.0	128.2	385.7	875.0
Lyman Lake	4.2	9.1	12.3	30.0
Lake Havasu	551.6	547.8	558.7	619.0
Lake Mohave	1687.3	1640.0	1685.0	1810.0
Lake Mead	10771.0	12543.0	20526.0	26159.0
Lake Powell	11087.0	9819.0	17170.0	24322.0

STREAMFLOW

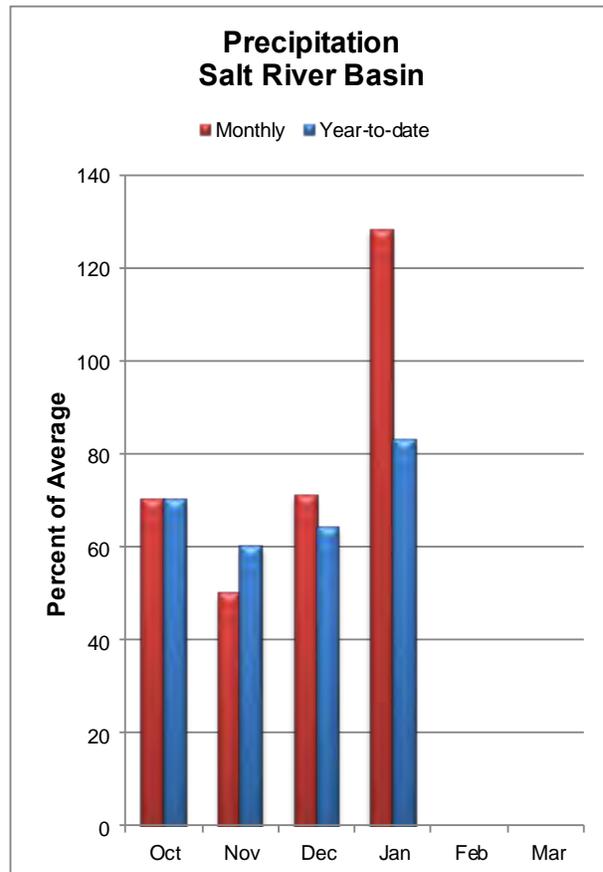
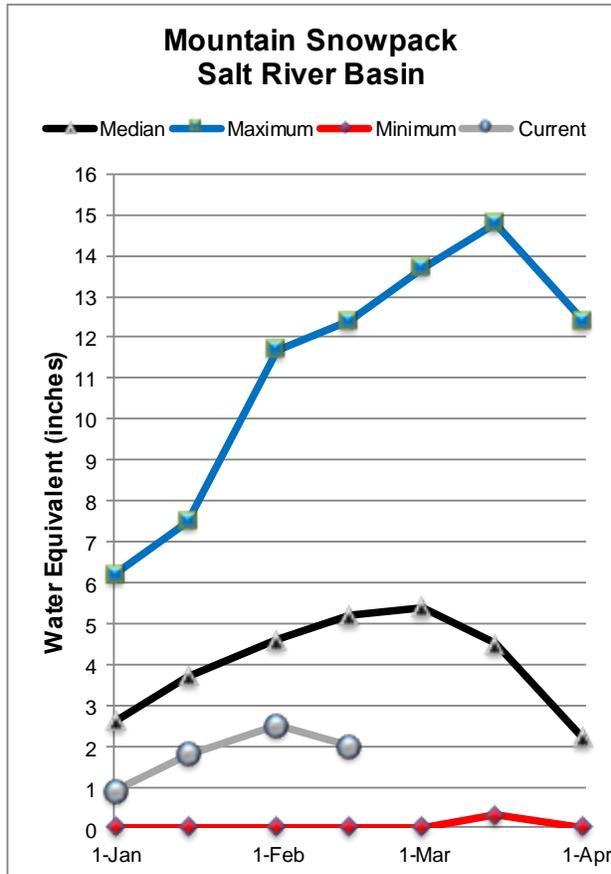
As of February 15, the forecast calls for well below normal streamflow for the spring runoff period, ranging from 58 percent of median in the Verde River above Horseshoe Dam to 23 percent of median in the Little Colorado River above Lyman Lake. The mid-month streamflow forecasts take into account the well below normal water year conditions for precipitation, as well as, predictions for dry conditions to persist through the remainder of the spring. 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 15, 2015



SALT RIVER BASIN as of February 15, 2015

Well below normal streamflow levels are forecast for the basin. In the Salt River, near Roosevelt, the forecast calls for 52% of median streamflow through May, while at Tonto Creek, the forecast calls for 39% of median streamflow through May. Snow survey measurements show the Salt snowpack to be at 34% of median.



Salt River Basin Streamflow Forecasts - February 1, 2015

SALT RIVER BASIN	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast					10% (KAF)	30yr Avg (KAF)
		90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)		
Salt R nr Roosevelt ³								
	FEB			51	131%			39
	MAR-MAY	51	88	122	51%	163	240	240
	F15-MAY	61	101	136	52%	179	255	260
Tonto Ck ab Gun Ck nr Roosevelt ³								
	FEB			5.2	50%			10.3
	F15-MAY	1.99	6	10.5	39%	16.9	30	27

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 diversions³
Median value used in place of average

Reservoir Storage End of January, 2015	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Salt River Reservoir System	1090.1	1144.0	1272.0	2025.8
Basin-wide Total	1090.1	1144.0	1272.0	2025.8
# of reservoirs	1	1	1	1

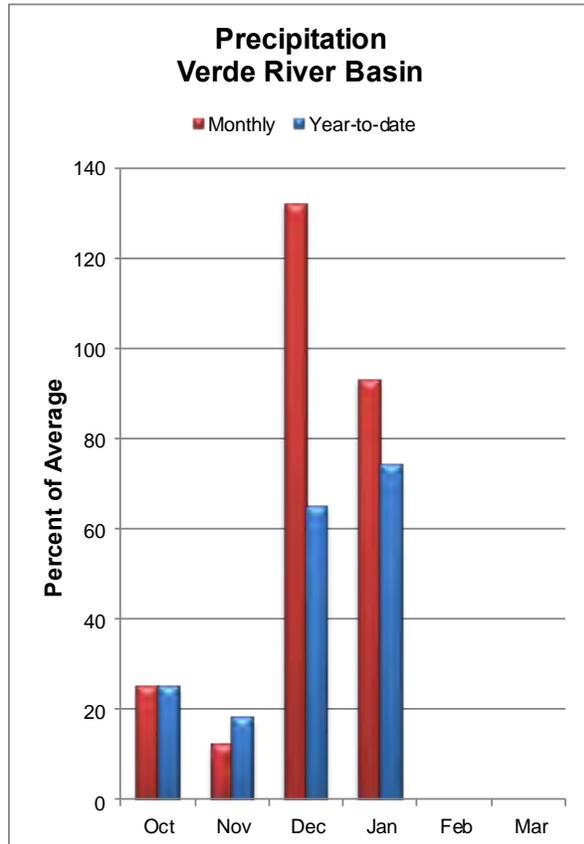
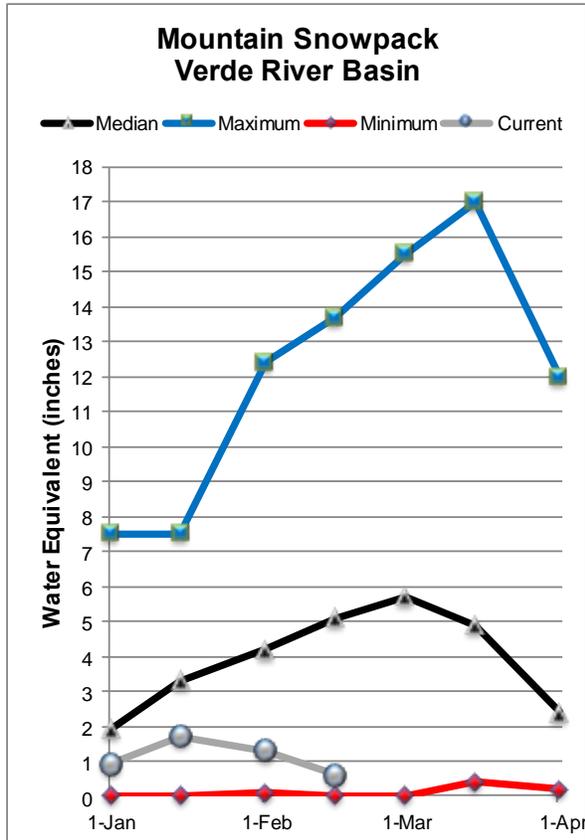
Watershed Snowpack Analysis

February 1, 2015

# of Sites	% Median	Last Year % Median
SALT RIVER BASIN	12	34% 21%

VERDE RIVER BASIN as of February 15, 2015

Well below normal streamflow levels are forecast for the basin. In the Verde River, at Horseshoe Dam, the forecast calls for 58% of median streamflow through May. Snow survey measurements show the Verde snowpack to be at 10% of median.



Verde River Basin Streamflow Forecasts - February 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								
	FEB			25	71%			35
	F15-MAY	35	46	71	58%	103	166	123

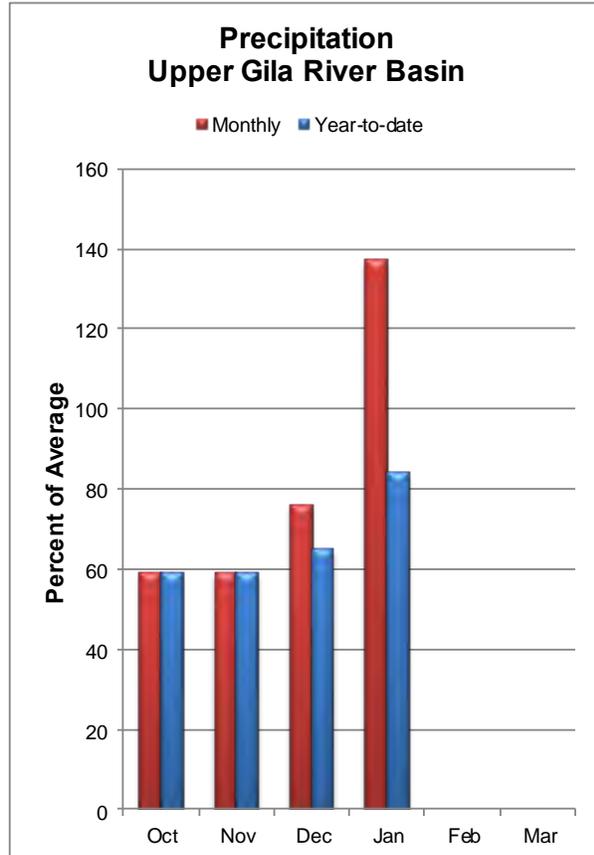
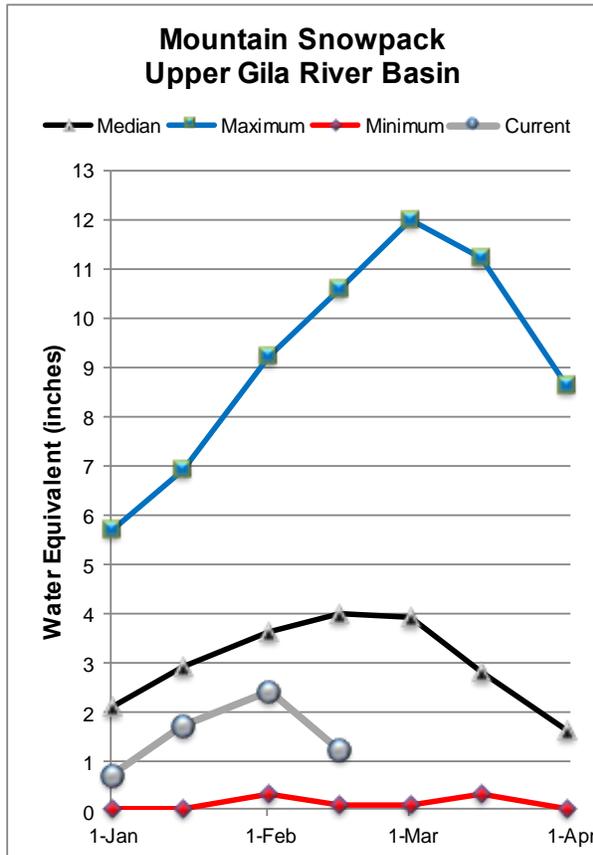
- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions³
 Median value used in place of average

Reservoir Storage End of January, 2015	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Verde River Reservoir System	125.6	140.8	160.8	287.4
Basin-wide Total	125.6	140.8	160.8	287.4
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis February 1, 2015	# of Sites	% Median	Last Year % Median
VERDE RIVER BASIN	12	10%	32%

SAN FRANCISCO-UPPER GILA RIVER BASIN as of February 15, 2015

Well below normal streamflow levels are forecast for the basin. In the San Francisco River, at Clifton, the forecast calls for 48% of median streamflow levels through May. In the Gila River, near Solomon, the forecast calls for 43% of median streamflow levels through May. At San Carlos Reservoir, inflow to the lake is forecast at 22% of median through May. Snow survey measurements show the snowpack for this basin to be at 28% of median.



San Francisco-Upper Gila River Basin Streamflow Forecasts - February 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)
<hr/>								
Gila R at Gila ³								
Gila R bl Blue Ck nr Virden ³	F15-MAY	11	13.7	20	49%	25	36	41
San Francisco R at Glenwood ³	F15-MAY	9	14.8	24	45%	35	56	53
San Francisco R at Clifton ³	F15-MAY	3	5.4	8.5	51%	12.6	21	16.8
Gila R nr Solomon ³	F15-MAY	8	13.7	22	48%	32	51	46
	FEB			87	378%			23
San Carlos Reservoir Inflow ³	F15-MAY	15	26	44	43%	66	106	103
	F15-MAY	0	3.2	15	22%	35	81	67

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

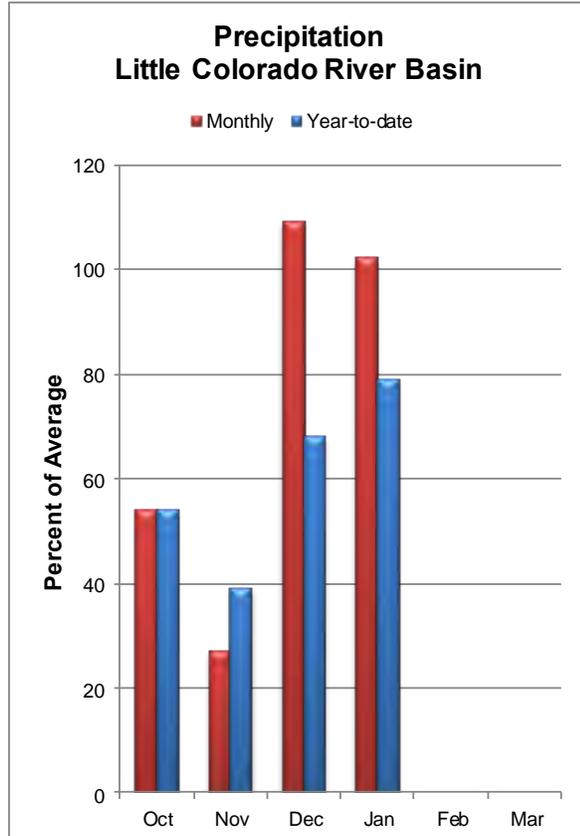
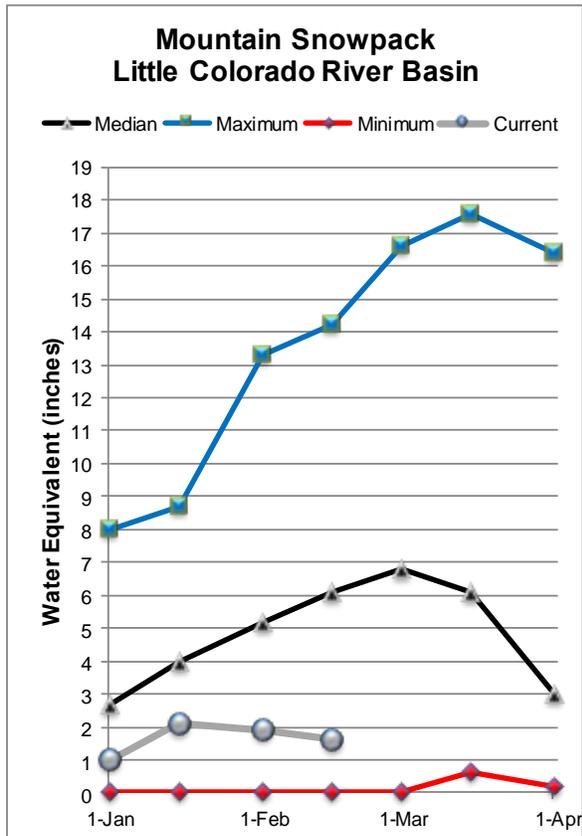
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions³
Median value used in place of average

Reservoir Storage End of January, 2015	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
<u>San Carlos Reservoir</u>	<u>133.0</u>	<u>124.7</u>	<u>385.7</u>	<u>875.0</u>
Basin-wide Total	133.0	124.7	385.7	875.0
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis February 1, 2015	# of Sites	% Median	Last Year % Median
SAN FRANCISCO-UPPER GILA RIVER BASIN	11	28%	21%

LITTLE COLORADO RIVER BASIN as of February 15, 2015

Well below normal streamflow levels are forecast for the basin. In the Little Colorado River, above Lyman Lake, the forecast calls for 23% of median streamflow through June. At Blue Ridge (C.C. Cragin) Reservoir, inflow to the lake is forecast at 49% of median through May. Snowpacks along the southern headwaters of the Little Colorado River, and along the central Mogollon Rim, were measured at 26% and 5% of median, respectively.



Little Colorado River Basin Streamflow Forecasts - February 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)
<hr/>								
Little Colorado R ab Lyman Lake ³								
Blue Ridge Reservoir Inflow ³	FEB-JUN	0.6	0.95	1.5	23%	2.2	3.7	6.6
Lake Mary Reservoir Inflow ³	FEB-MAY	2.1	5	8	49%	12	19.9	16.3
	FEB-MAY	1.2	1.34	2	47%	2.8	4.5	4.3

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

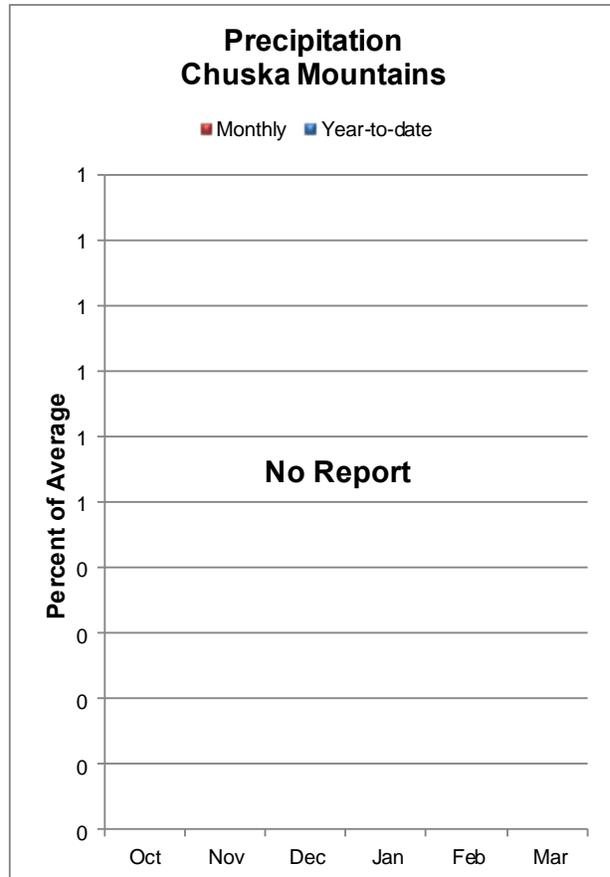
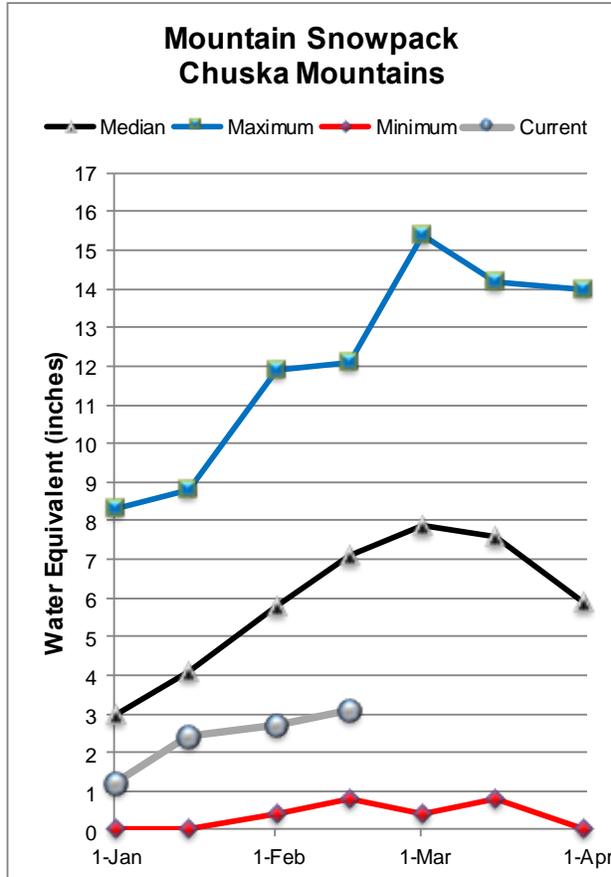
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions³
Median value used in place of average

Reservoir Storage End of January, 2015	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
<hr/>				
Lyman Reservoir	4.2	9.3	12.3	30.0
Basin-wide Total	4.2	9.3	12.3	30.0
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis February 1, 2015		# of Sites	% Median	Last Year % Median
<hr/>				
LITTLE COLORADO RIVER BASIN		10	26%	21%
RIM	4	5%	17%	CENTRAL MOGOLLON

CHUSKA MOUNTAINS as of February 15, 2015

Snow survey measurements conducted by staff of the Navajo Nation Water Management Branch show the Chuska snowpack to be at 42% of median. Well below normal runoff is forecast for Wheatfields Creek, Captain Tom Wash, and Bowl Canyon Creek.



Chuska Mountains Streamflow Forecasts - February 1, 2015

CHUSKA MOUNTAINS	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)	
Captain Tom Wash nr Two Gray Hills	MAR-MAY	0.07	0.42	1	38%	1.97	4.3	2.6
Wheatfields Ck nr Wheatfields	MAR-MAY	0.4	0.6	1	48%	1.5	2.4	2.1
Bowl Canyon Ck ab Asaayi Lake	MAR-MAY	0.3	0.33	0.55	42%	0.83	1.35	1.3

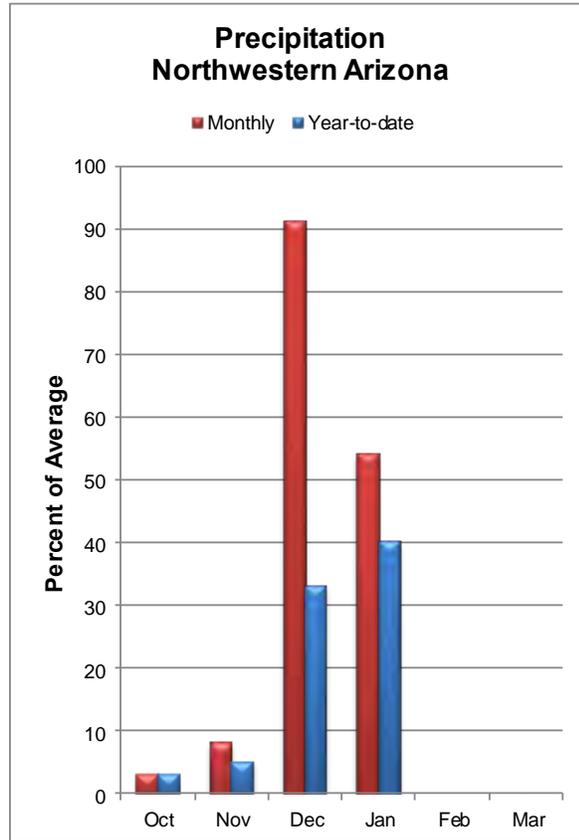
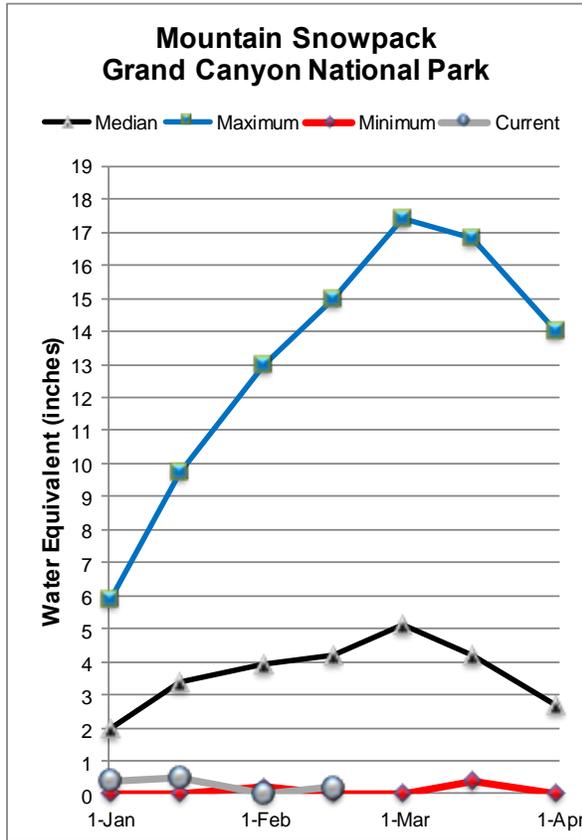
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- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions3)
 Median value used in place of average

Watershed Snowpack Analysis

	# of Sites	% Median	Last Year % Median
February 1, 2015			
CHUSKA MOUNTAINS	6	42%	52%
DEFIANCE PLATEAU	1	41%	11%

NORTHWESTERN ARIZONA as of February 15, 2015

On the Colorado River, below normal inflow to Lake Powell is forecast at 66% 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, 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)
Lake Powell Inflow ²								
	APR-JUL	2550	3750	4700	66%	5760	7500	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 diversions3)
Median value used in place of average

Reservoir Storage	Current	Last Year	Average	Capacity	End of January,	
Lake Havasu	551.6	549.2	558.7	619.0	2015	(KAF)
Lake Mohave	1687.3	1670.5	1685.0	1810.0		(KAF)
Lake Mead	10771.0	12501.0	20526.0	26159.0		(KAF)
<u>Lake Powell</u>	<u>11087.0</u>	<u>9675.0</u>	<u>17170.0</u>	<u>24322.0</u>		
Basin-wide Total	24096.9	24395.7	39939.7	52910.0		
# of reservoirs	4	4	4	4		

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

Basinwide Summary: February 16, 2015
(Averages/Medians based on 1981-2010 reference period)

Snowpack Summary for February 16, 2015
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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	5	3.3	7.5	44%	1.6	21%
7	Beaver Head	SNOTEL	7990	2	0.6	3.6	17%	1.9	53%
8	Beaver Head	SC	8000	0	0.0	2.6	0%	0.0	0%
12	Buck Spring	SC	7400	0	0.0	2.8	0%	0.0	0%
16	Coronado Trail	SNOTEL	8400	0	0.0	2.9	0%	0.0	0%
17	Coronado Trail	SC	8350	0	0.0	2.2	0%	0.0	0%
19	Fort Apache	SC	9160	14	4.3	7.1	61%	3.0	42%
24	Hannagan Meadows	SNOTEL	9020	18	6.0	9.6	63%	3.7	39%
29	Maverick Fork	SNOTEL	9200	12	4.9	7.9	62%	1.8	23%
34	Nutriosio	SC	8500	0	0.0	1.0	0%	0.0	0%
35	Nutriosio	SNOTEL	8500	0	0.0			0.0	
42	Wildcat	SNOTEL	7850	0	0.0	3.4	0%	0.0	0%
44	Workman Creek	SNOTEL	6900	0	0.0	5.8	0%	0.0	0%
Basin Index							34%		21%
# 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	5.2	0%	0.0	0%
3	Baker Butte No. 2	SC	7700	4	1.4	8.3	17%	4.0	48%
4	Baker Butte Smt	SNOTEL	7700	4	2.0			5.1	
6	Bar M	SNOTEL	6393	0	0.0			0.0	
13	Chalender	SC	7100	0	0.0	2.0	0%	0.0	0%
14	Chalender	SNOTEL	7100	0	0.0			0.4	
20	Fort Valley	SC	7350	0	0.0	2.2	0%	0.0	0%
21	Fort Valley	SNOTEL	7350	0	0.0			0.0	
22	Fry	SNOTEL	7200	1	0.1	6.3	2%	3.0	48%
25	Happy Jack	SNOTEL	7630	1	0.1	5.3	2%	3.4	64%
26	Happy Jack	SC	7630	0	0.0	4.8	0%	0.0	0%
30	Mormon Mountain	SNOTEL	7500	0	0.0	4.3	0%	0.0	0%
31	Mormon Mountain Summit #2	SC	8470	8	2.6	7.8	33%	3.8	49%
32	Mormon Mtn Summit	SNOTEL	8500	6	2.5			3.7	
33	Newman Park	SC	6750	0	0.0	2.6	0%	0.0	0%
41	White Horse Lake	SNOTEL	7180	0	0.0	4.5	0%	0.0	0%
43	Williams Ski Run	SC	7720	5	1.9	7.5	25%	5.2	69%
Basin Index							10%		32%
# 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	22	6.8	14.9	46%	5.8	39%
38	Snowslide Canyon	SNOTEL	9730	27	8.1	12.5	65%	10.5	84%
Basin Index							54%		59%
# 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	2	0.6	3.6	17%	1.9	53%
9	Beaver Head	SC	8000	0	0.0	2.6	0%	0.0	0%
16	Coronado Trail	SNOTEL	8400	0	0.0	2.9	0%	0.0	0%
17	Coronado Trail	SC	8350	0	0.0	2.2	0%	0.0	0%
	Frisco Divide	SNOTEL	8000	0	0.0	2.9	0%	0.2	7%
24	Hannagan Meadows	SNOTEL	9020	18	6.0	9.6	63%	3.7	39%
	Hummingbird - Aerial And Snow Course	SC	10550						
	Lookout Mountain	SNOTEL	8500	0	0.0	2.5	0%	0.0	0%
34	Nutriosio	SC	8500	0	0.0	1.0	0%	0.0	0%
35	Nutriosio	SNOTEL	8500	0	0.0			0.0	
	Signal Peak	SNOTEL	8360	0	0.0	4.1	0%	0.0	0%
	Silver Creek Divide	SNOTEL	9000	9	4.3	7.4	58%	2.4	32%
	State Line	SC	8000	2	0.5	2.0	25%	0.4	20%
	Whitewater - Aerial And Snow Course	SC	10750						
Basin Index							28%		21%
# 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	5.2	0%	0.0	0%
3	Baker Butte No. 2	SC	7700	4	1.4	8.3	17%	4.0	48%
4	Baker Butte Smt	SNOTEL	7700	4	2.0			5.1	
6	Baldy	SNOTEL	9125	5	3.3	7.5	44%	1.6	21%
12	Buck Spring	SC	7400	0	0.0	2.8	0%	0.0	0%
15	Cheese Springs	SC	8700	7	2.2	5.0	44%	1.8	36%
19	Fort Apache	SC	9160	14	4.3	7.1	61%	3.0	42%
27	Heber	SNOTEL	7640	0	0.0	5.1	0%	0.2	4%
28	Lake Mary	SC	6930	0	0.0	2.6	0%	0.0	0%
29	Maverick Fork	SNOTEL	9200	12	4.9	7.9	62%	1.8	23%
36	Promontory	SNOTEL	7930	0	0.0	9.5	0%	0.5	5%
Basin Index							26%		21%
# of sites							10		10

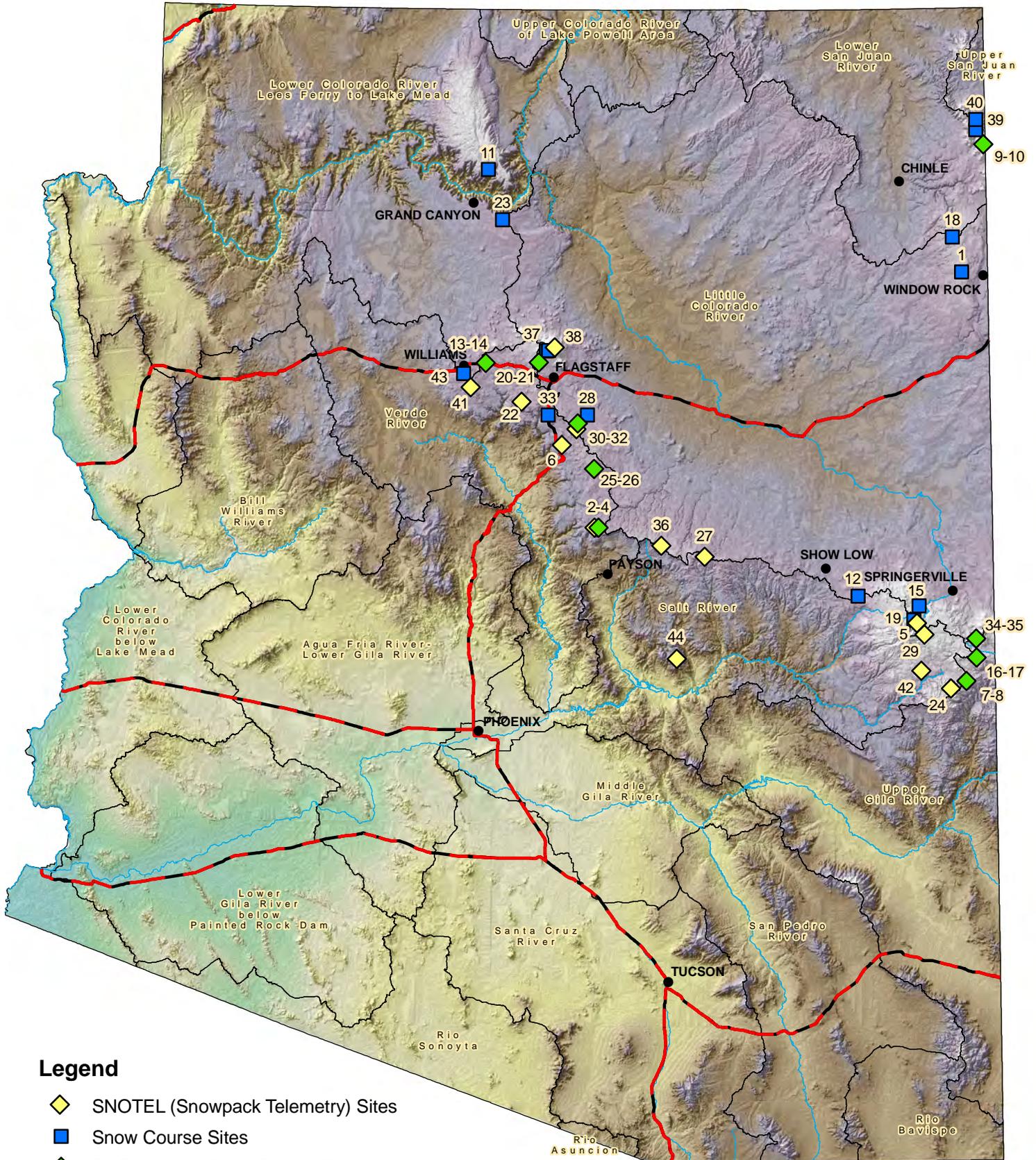
Map Num	CENTRAL MOGOLLON RIM	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
2	Baker Butte	SNOTEL	7300	0	0.0	5.2	0%	0.0	0%
3	Baker Butte No. 2	SC	7700	4	1.4	8.3	17%	4.0	48%
4	Baker Butte Smt	SNOTEL	7700	4	2.0			5.1	
27	Heber	SNOTEL	7640	0	0.0	5.1	0%	0.2	4%
36	Promontory	SNOTEL	7930	0	0.0	9.5	0%	0.5	5%
Basin Index							5%		17%
# 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	12	3.3	8.5	39%	4.9	58%
10	Beaver Spring	SNOTEL	9200	3	0.8			4.4	
	Bowl Canyon	SC	8980	16	4.1	7.2	57%	3.1	43%
	Hidden Valley	SC	8480	10	3.3			2.1	
	Missionary Spring	SC	7940	0	0.0	4.0	0%	0.6	15%
39	Tsaile Canyon #1	SC	8160	8	2.6	6.0	43%	4.1	68%
40	Tsaile Canyon #3	SC	8920	14	4.1	9.0	46%	5.8	64%
	Whiskey Creek	SC	9050	14	3.9	8.0	49%	3.6	45%
	Navajo Whiskey Ck	SNOTEL	9050	1	0.2			1.2	
Basin Index							42%		52%
# of sites							6		6

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	4	1.5	3.7	41%	0.4	11%
Basin Index							41%		11%
# 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	1	0.3	6.6	5%		
23	Grand Canyon	SC	7500	0	0.0	1.7	0%	0.0	0%
Basin Index							0%		0%
# of sites							1		1

Arizona Snow Survey Data Sites



Legend

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

