



Natural
Resources
Conservation
Service

Arizona Basin Outlook Report January 1, 2015



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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 January 1, 2015

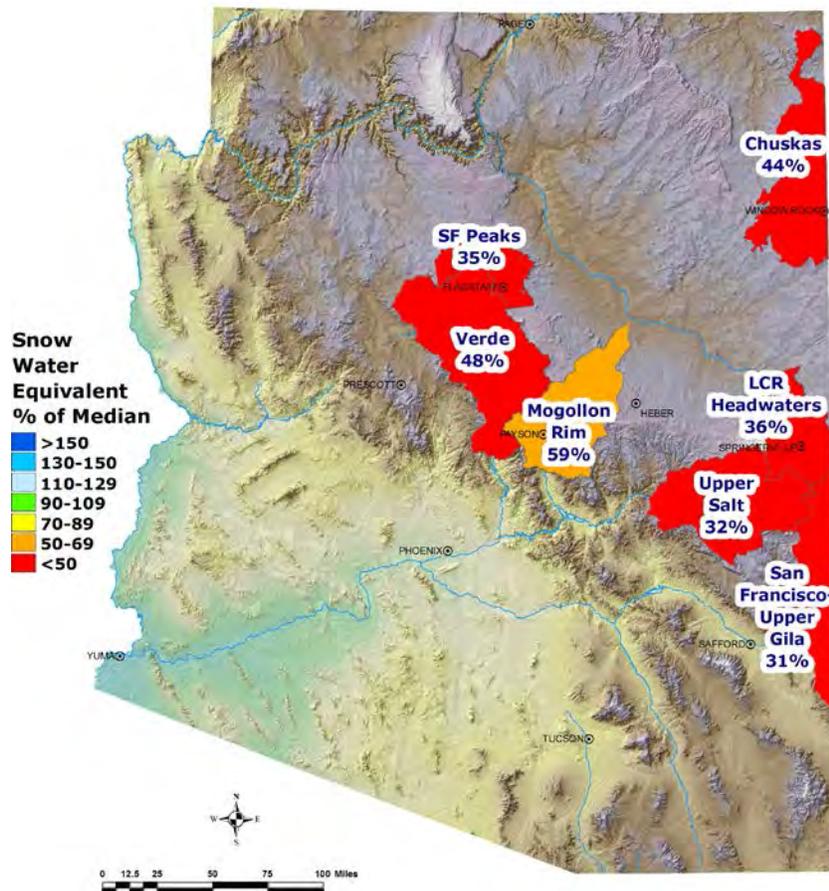
SUMMARY

As of January 1, snowpack levels are well below normal throughout the state. Precipitation for the month of December ranged from below average to above average in the major river basins. The Salt and Verde River reservoir system stands at 49 percent of capacity, while San Carlos Reservoir is at 8 percent of capacity. The first forecast of the season calls for below normal runoff in all basins, except for the Verde River Basin, which is forecast at near normal streamflow for the spring runoff period.

SNOWPACK

Snow water equivalent levels in the state's major river basins are well below normal, ranging from 31 percent of median in the San Francisco-Upper Gila River Basin to 48 percent of median in the Verde River Basin. The statewide snowpack is also well below normal at 39 percent of median.

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

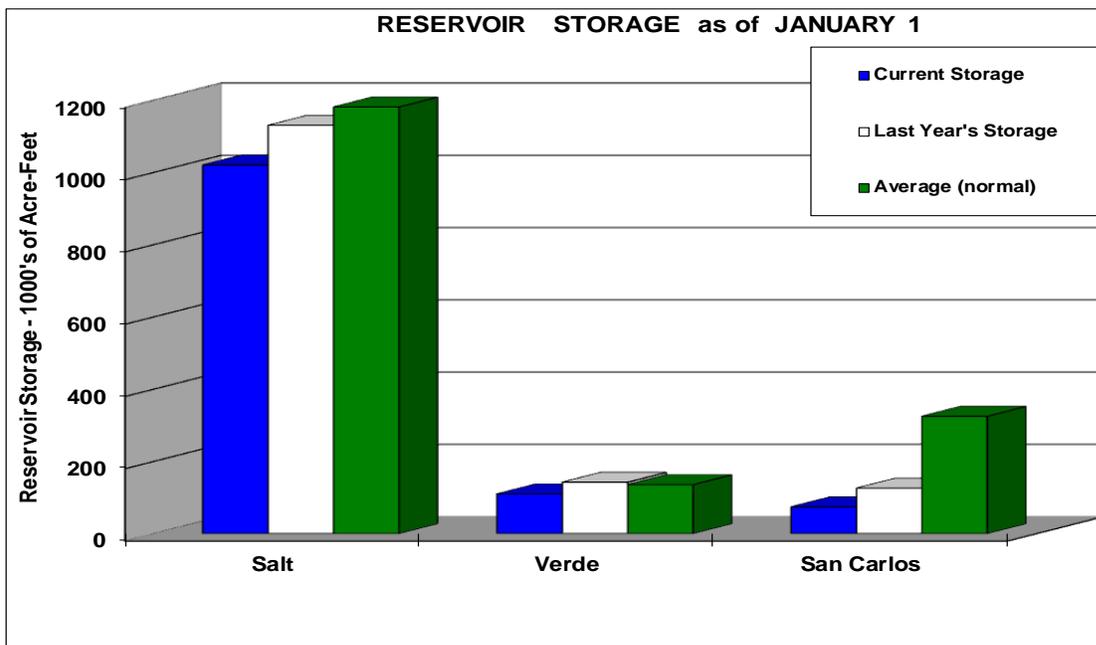


PRECIPITATION

Mountain data from NRCS SNOTEL sites and NWS Cooperator gages show that December precipitation was well below normal to well above normal throughout the basins, ranging from 71 percent of average in the Salt River Basin to 131 percent of average in the Verde River Basin. However, the months of October and November were extremely dry. As a result, cumulative precipitation since the beginning of the water year is now well below normal in all major 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 January 1, the Salt and Verde River reservoir system stands at 49 percent of capacity. San Carlos Reservoir is currently at 8 percent of capacity.



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

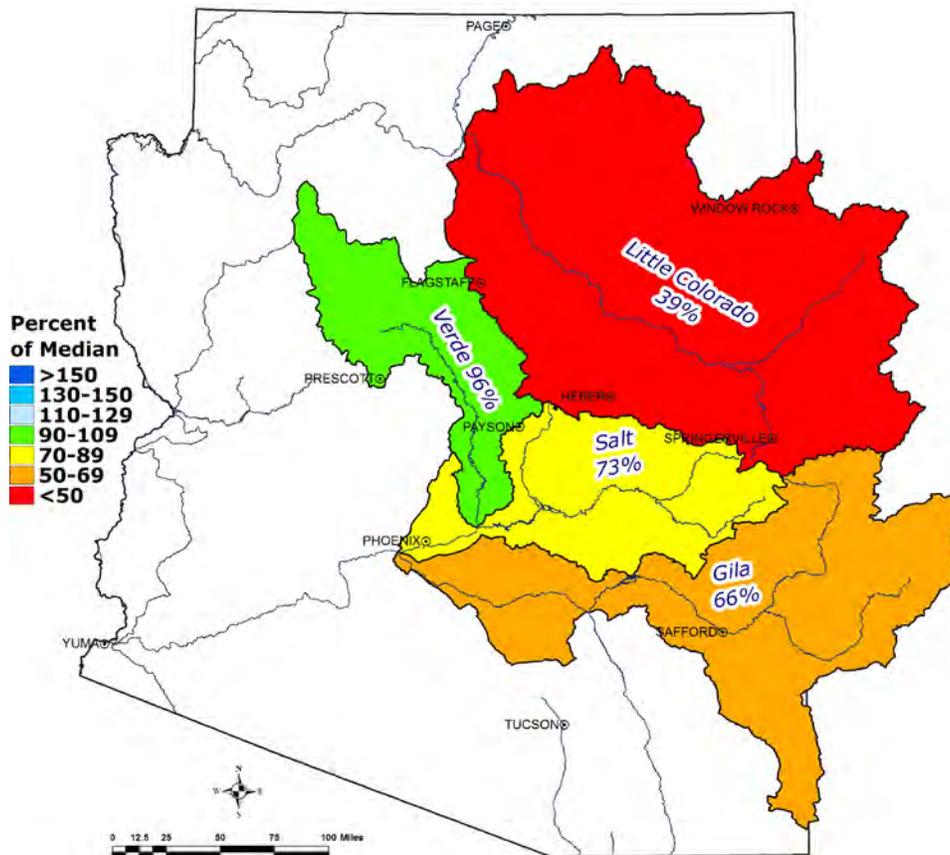
<u>Reservoir</u>	<u>Current Storage</u>	<u>Last Year Storage</u>	<u>30-Year Average</u>	<u>Storage Capacity</u>
Salt River System	1020.5	1130.3	1181.0	2025.8
Verde River System	110.0	142.6	135.7	287.4
San Carlos Reservoir	74.3	126.0	324.9	875.0
Lyman Lake	4.0	8.9	11.8	30.0
Lake Havasu	5511.0	536.8	562.7	619.0
Lake Mohave	1559.7	1604.9	1602.0	1810.0
Lake Mead	10676.0	12349.0	20297.0	26159.0
Lake Powell	11536.7	10307.0	17745.0	24322.0

STREAMFLOW

As of January 1, the forecast calls for well below normal to near normal streamflow for the spring runoff period, ranging from 39 percent of median in the Little Colorado River above Lyman Lake to 96 percent of median in the Verde River above Horseshoe Dam.

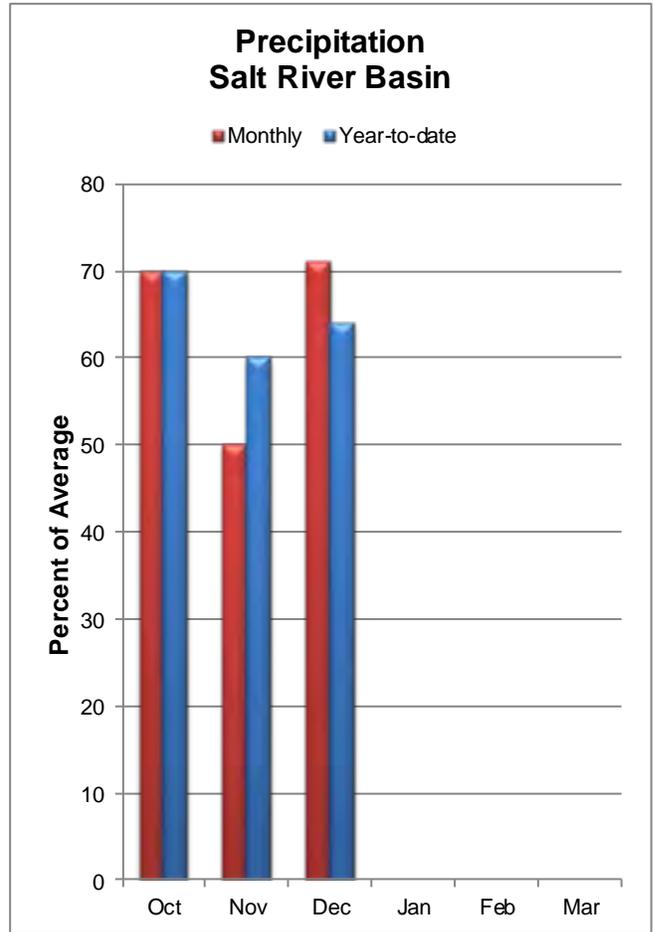
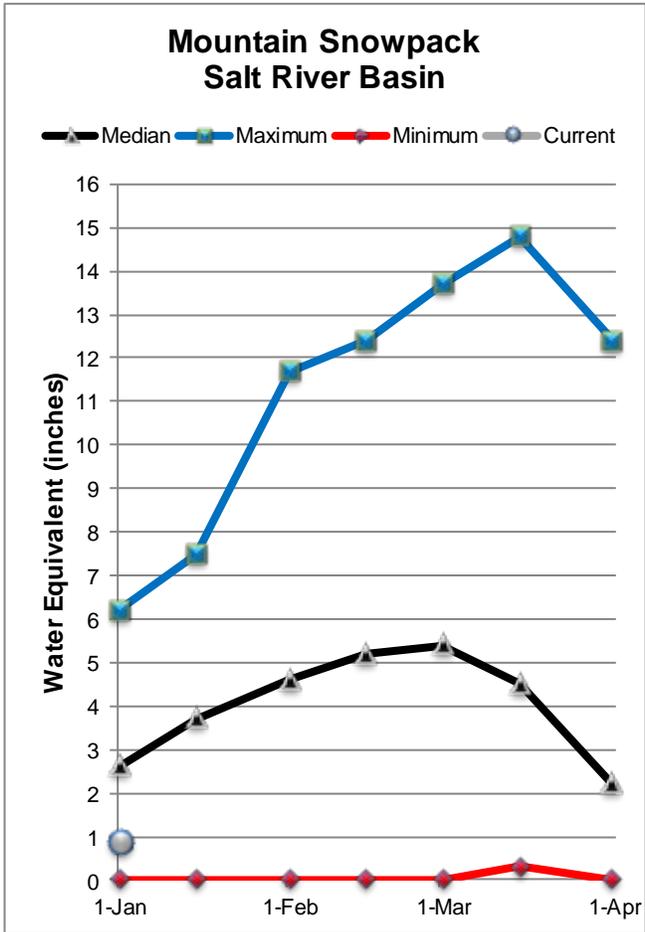
The initial forecasts for the season are based on several factors. Total precipitation since the beginning of the water year (October 1) has been below average. The current snowpack is below normal in all basins, despite a significant snowstorm at the end of December. The climatologists continue to predict a weak El Nino, which signals a greater likelihood of wet conditions for the remainder of the winter.

Arizona Spring Streamflow Forecasts as of January 1, 2015



SALT RIVER BASIN as of January 1, 2015

Below normal streamflow levels are forecast for the basin. In the Salt River, near Roosevelt, the forecast calls for 73% of median streamflow through May, while at Tonto Creek, the forecast calls for 95% of median streamflow through May. Snow survey measurements show the Salt snowpack to be at 32% of median.



Salt River Basin Streamflow Forecasts - January 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)	
<hr/>								
Salt R nr Roosevelt ³	JAN			15	63%			24
	JAN-MAY	77	152	225	73%	320	495	310
	MAR-MAY	69	124	175	73%	240	355	240
Tonto Ck ab Gun Ck nr Roosevelt ³	JAN			3	79%			3.8
	JAN-MAY	5.4	21	40	95%	69	132	42

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

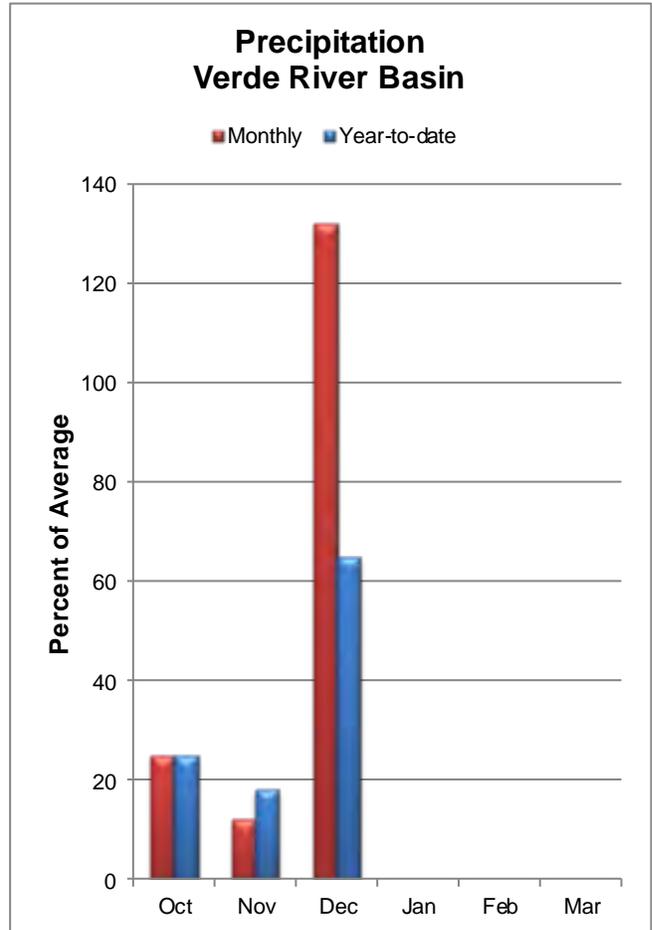
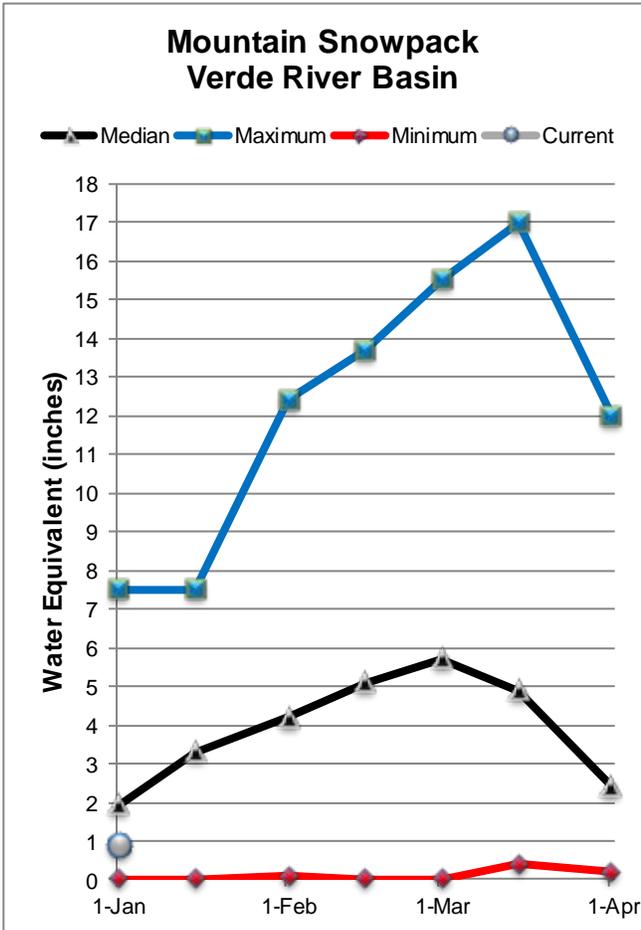
3) Median value used in place of average

Reservoir Storage End of December, 2014	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Salt River Reservoir System	1020.5	1130.3	1181.0	2025.8
Basin-wide Total	1020.5	1130.3	1181.0	2025.8
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis January 1, 2015	# of Sites	% Median	Last Year % Median
SALT RIVER BASIN	12	32%	71%

VERDE RIVER BASIN as of January 1, 2015

Near normal streamflow levels are forecast for the basin. In the Verde River, at Horseshoe Dam, the forecast calls for 96% of median streamflow through May. Snow survey measurements show the Verde snowpack to be at 48% of median.



Verde River Basin Streamflow Forecasts - January 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								
	JAN			19	83%			23
	JAN-MAY	44	97	150	96%	220	355	157

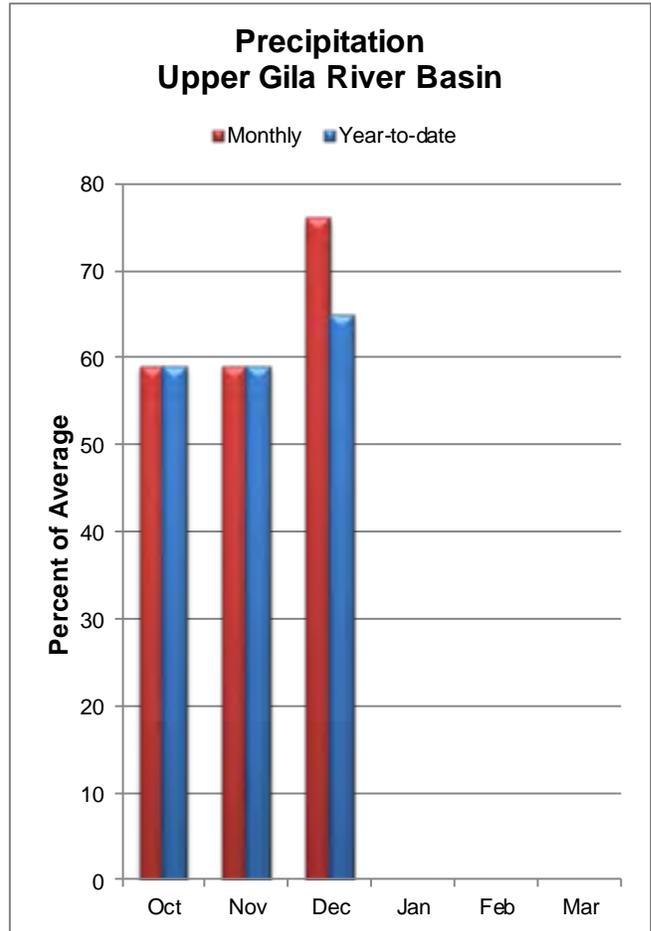
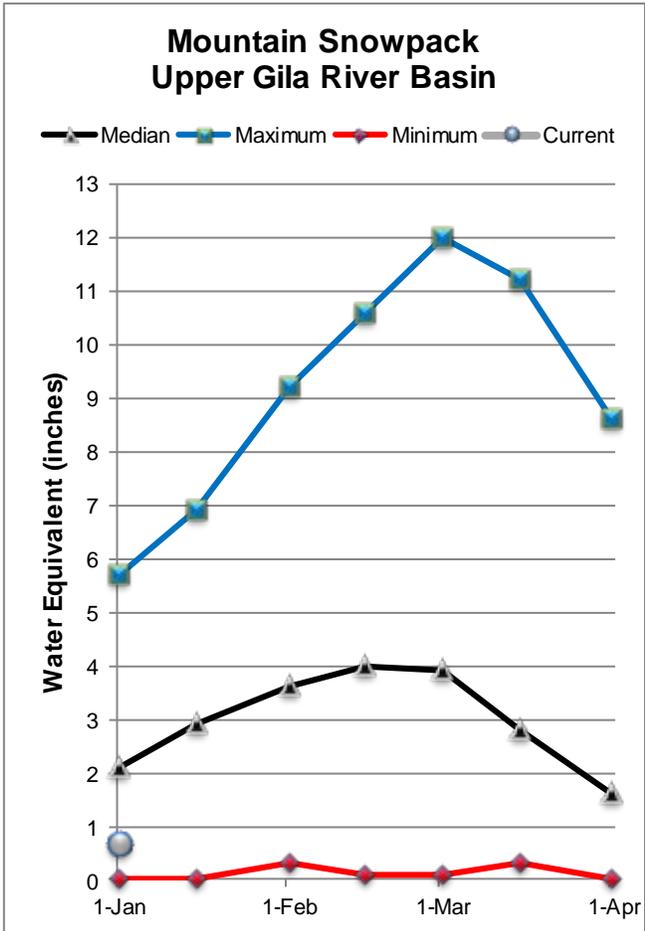
- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

Reservoir Storage End of December, 2014	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Verde River Reservoir System	110.0	142.6	135.7	287.4
Basin-wide Total	110.0	142.6	135.7	287.4
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis January 1, 2015	# of Sites	% Median	Last Year % Median
VERDE RIVER BASIN	12	48%	143%

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

Well below normal streamflow levels are forecast for the basin. In the San Francisco River, at Clifton, the forecast calls for 66% of median streamflow levels through May. In the Gila River, near Solomon, the forecast calls for 66% of median streamflow levels through May. At San Carlos Reservoir, inflow to the lake is forecast at 67% of median through May. Snow survey measurements show the snowpack for this basin to be at 31% of median.



San Francisco-Upper Gila River Basin Streamflow Forecasts - January 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	JAN-MAY	15.8	28	40	71%	54	81	56
Gila R bl Blue Ck nr Virden ³	JAN-MAY	15	34	54	71%	79	124	76
San Francisco R at Glenwood ³	JAN-MAY	4	8.5	14	67%	21	36	21
San Francisco R at Clifton ³	JAN-MAY	6.7	23	40	66%	61	101	61
Gila R nr Solomon ³	JAN	5.7	12.9	19.5	99%	27	42	19.7
San Carlos Reservoir Inflow ³	JAN-MAY	26	50	90	66%	142	240	137
	JAN-MAY	1.25	27	64	67%	116	220	95

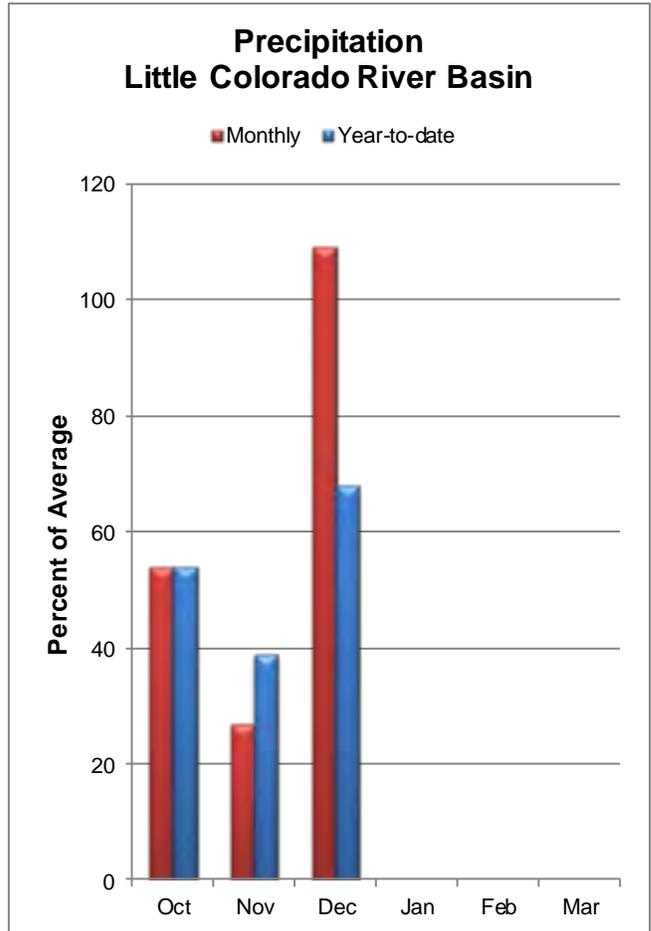
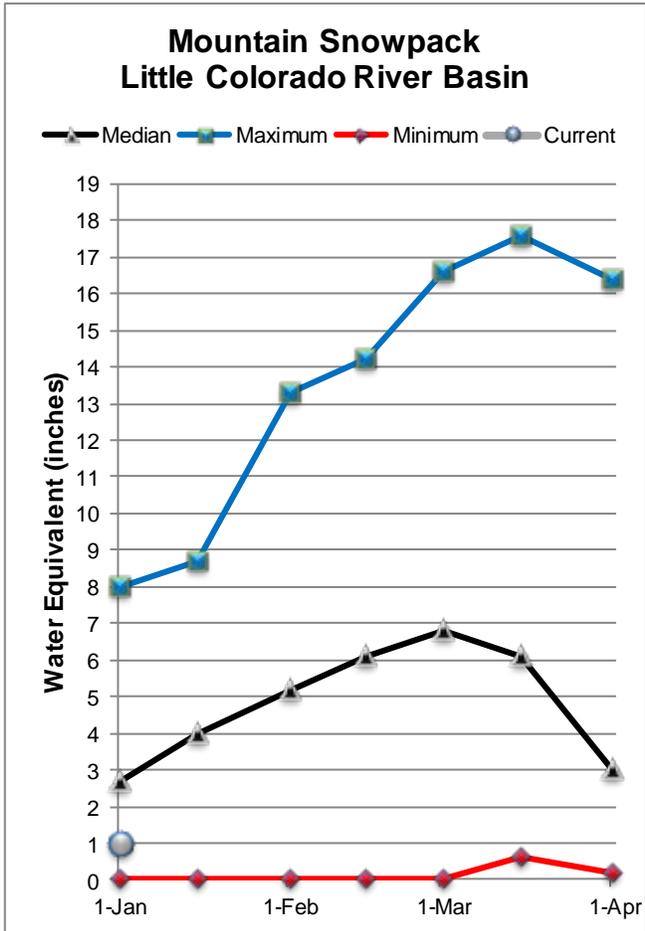
- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

Reservoir Storage End of December, 2014	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
San Carlos Reservoir	74.3	125.9	324.9	875.0
Basin-wide Total	74.3	125.9	324.9	875.0
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis January 1, 2015	# of Sites	% Median	Last Year % Median
SAN FRANCISCO-UPPER GILA RIVER BASIN	11	31%	69%

LITTLE COLORADO RIVER BASIN as of January 1, 2015

Well below normal streamflow levels are forecast for the basin. In the Little Colorado River, above Lyman Lake, the forecast calls for 39% of median streamflow through June. At Blue Ridge (C.C. Cragin) Reservoir, inflow to the lake is forecast at 66% of median through May. Snowpacks along the southern headwaters of the Little Colorado River, and along the central Mogollon Rim, were measured at 36% and 59% of median, respectively.



Little Colorado River Basin Streamflow Forecasts - January 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	JAN-JUN	0.8	1.72	2.8	39%	4.2	7.2	7.1
Rio Nutria nr Ramah ³	JAN-MAY	0	0.14	0.5	35%	1.22	3.2	1.42
Ramah Reservoir Inflow ³	JAN-MAY	0	0.05	0.27	35%	0.68	1.63	0.78
Zuni R ab Black Rock Reservoir ³	JAN-MAY	0	0.02	0.22	47%	0.89	3.3	0.47
Blue Ridge Reservoir Inflow ³	JAN-MAY	1.83	6	11	66%	18.2	34	16.6
Lake Mary Reservoir Inflow ³	JAN-MAY	0.72	1.82	3	63%	4.6	7.9	4.8

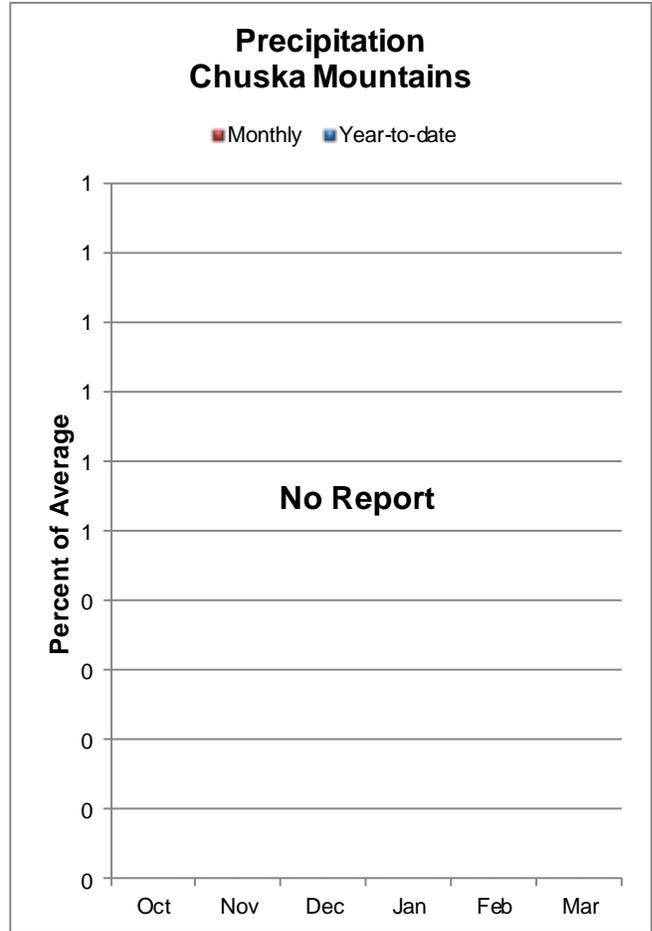
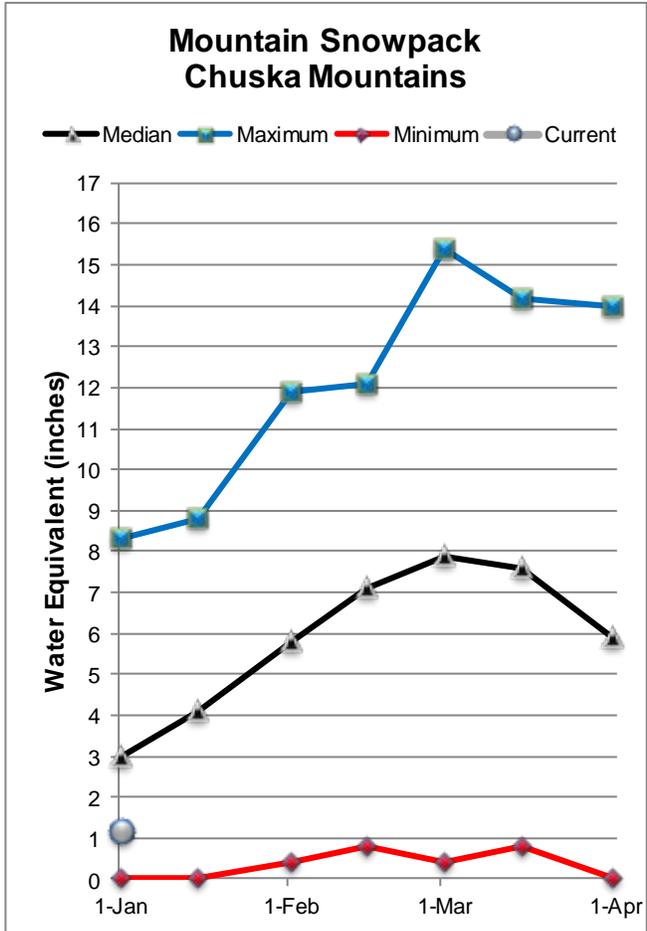
- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

Reservoir Storage End of December, 2014	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Lyman Reservoir	4.0	8.9	11.8	30.0
Basin-wide Total	4.0	8.9	11.8	30.0
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis January 1, 2015	# of Sites	% Median	Last Year % Median
LITTLE COLORADO RIVER BASIN	10	36%	86%
CENTRAL MOGOLLON RIM	4	59%	101%

CHUSKA MOUNTAINS as of January 1, 2015

Snow survey measurements conducted by staff of the Navajo Nation Water Management Branch show the Chuska snowpack to be at 44% of median. The forecast calls for well below normal runoff for Wheatfields Creek, Captain Tom Wash, and Bowl Canyon Creek.



Chuska Mountains Streamflow Forecasts - January 1, 2015

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

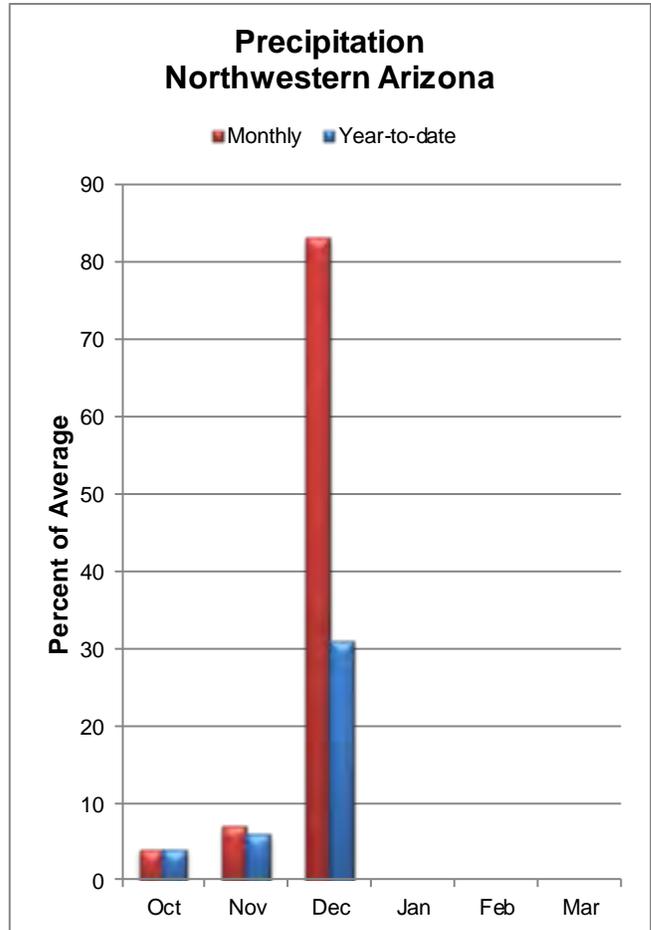
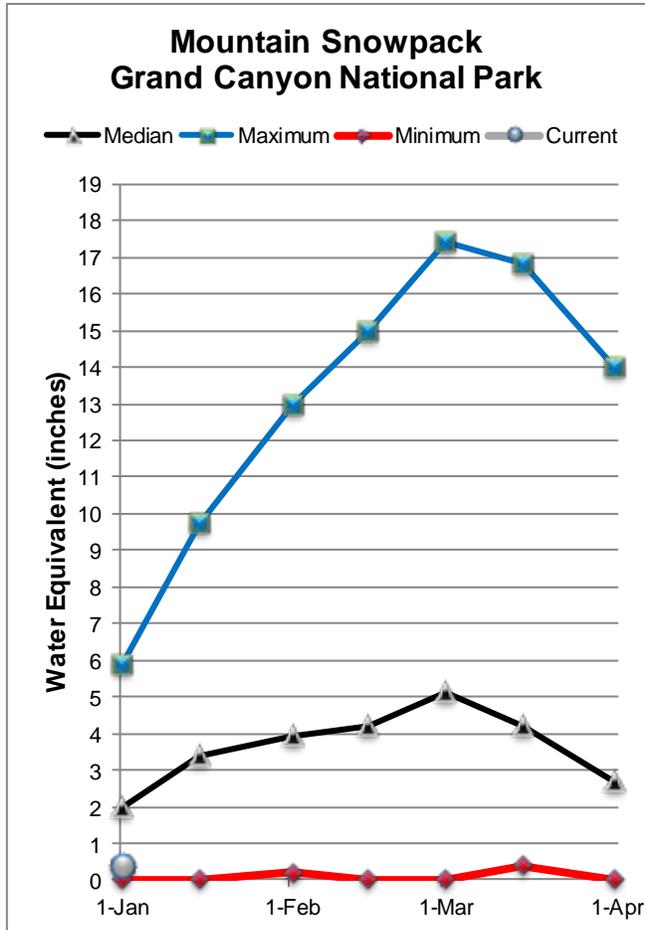
CHUSKA MOUNTAINS	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Captain Tom Wash nr Two Gray Hills	MAR-MAY	0.1	0.33	1.5	58%	4.1	11.6	2.6
Wheatfields Ck nr Wheatfields	MAR-MAY	0.4	0.43	1.1	52%	2.1	4.1	2.1
Bowl Canyon Ck ab Asaayi Lake	MAR-MAY	0.3	0.35	0.75	58%	1.29	2.4	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 January 1, 2015	# of Sites	% Median	Last Year % Median
CHUSKA MOUNTAINS	5	44%	94%
DEFIANCE PLATEAU	1	80%	130%

NORTHWESTERN ARIZONA as of January 1, 2015

On the Colorado River, below normal inflow to Lake Powell is forecast at 89% 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 27% of median.



Northwestern Arizona Streamflow Forecasts - January 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	15	16	23	35%	41	74	65
Lake Powell Inflow ²	APR-JUL	3130	4940	6400	89%	8050	10800	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 December, 2014	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Lake Havasu	5511.0	536.8	562.7	619.0
Lake Mohave	1559.7	1604.9	1602.0	1810.0
Lake Mead	10676.0	12349.0	20297.0	26159.0
Lake Powell	11536.7	10307.1	17745.0	24322.0
Basin-wide Total	29283.4	24797.8	40206.7	52910.0
# of reservoirs	4	4	4	4

Watershed Snowpack Analysis January 1, 2015	# of Sites	% Median	Last Year % Median
NORTHWESTERN ARIZONA	1	27%	50%

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

Snowpack Summary for January 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	7	1.2	3.7	32%	2.6	70%
7	Beaver Head	SNOTEL	7990	2	1.0	2.7	37%	3.0	111%
8	Beaver Head	SC	8000	0	0.0	1.3	0%	0.7	54%
12	Buck Spring	SC	7400	0	0.0	1.5	0%	0.6	40%
16	Coronado Trail	SNOTEL	8400	2	0.4	1.8	22%	0.2	11%
17	Coronado Trail	SC	8350	0	0.0	0.7	0%	0.0	0%
19	Fort Apache	SC	9160	6	0.9	3.7	24%	2.5	68%
24	Hannagan Meadows	SNOTEL	9020	7	1.7	5.0	34%	3.5	70%
29	Maverick Fork	SNOTEL	9200	9	1.2	4.0	30%	2.8	70%
34	Nutriosio	SC	8500	0	0.0	0.4	0%	0.0	0%
35	Nutriosio	SNOTEL	8500	1	0.3			0.0	
42	Wildcat	SNOTEL	7850	2	0.5	1.3	38%	0.5	38%
44	Workman Creek	SNOTEL	6900	18	2.0	1.9	105%	3.5	184%
Basin Index							32%		71%
# 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	16	1.6	1.6	100%	2.2	138%
3	Baker Butte No. 2	SC	7700	3	0.6	3.4	18%	3.9	115%
4	Baker Butte Smt	SNOTEL	7700	22	3.5			4.9	
6	Bar M	SNOTEL	6393	10	1.2			1.5	
13	Chalender	SC	7100	0	0.0	0.6	0%	0.7	117%
14	Chalender	SNOTEL	7100	10	0.9			1.6	
20	Fort Valley	SC	7350	0	0.0	0.8	0%	1.2	150%
21	Fort Valley	SNOTEL	7350	7	0.5			1.0	
22	Fry	SNOTEL	7200	17	1.9	2.8	68%	3.4	121%
25	Happy Jack	SNOTEL	7630	18	1.9	1.7	112%	3.5	206%
26	Happy Jack	SC	7630	1	0.3	1.0	30%	1.8	180%
30	Mormon Mountain	SNOTEL	7500	14	1.4	1.8	78%	2.9	161%
31	Mormon Mountain Summit #2	SC	8470	6	1.2	3.6	33%	4.9	136%
32	Mormon Mtn Summit	SNOTEL	8500	13	1.5			3.8	
33	Newman Park	SC	6750	0	0.0	0.6	0%	1.4	233%
41	White Horse Lake	SNOTEL	7180	13	1.7	1.4	121%	1.9	136%
43	Williams Ski Run	SC	7720	0	0.0	2.6	0%	3.5	135%
Basin Index							48%		143%
# 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	9	1.8	8.0	23%	5.0	63%
38	Snowslide Canyon	SNOTEL	9730	24	3.8	8.1	47%	8.8	109%
Basin Index							35%		86%
# 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	1.0	2.7	37%	3.0	111%
9	Beaver Head	SC	8000	0	0.0	1.3	0%	0.7	54%
16	Coronado Trail	SNOTEL	8400	2	0.4	1.8	22%	0.2	11%
17	Coronado Trail	SC	8350	0	0.0	0.7	0%	0.0	0%
	Frisco Divide	SNOTEL	8000	1	0.3	1.5	20%	2.0	133%
24	Hannagan Meadows	SNOTEL	9020	7	1.7	5.0	34%	3.5	70%
	Hummingbird - Aerial And Snow Course	SC	10550			4.4			
	Lookout Mountain	SNOTEL	8500	1	0.4	1.4	29%	1.1	79%
34	Nutriosio	SC	8500	0	0.0	0.4	0%	0.0	0%
35	Nutriosio	SNOTEL	8500	1	0.3			0.0	
	Signal Peak	SNOTEL	8360	4	0.9	1.9	47%	0.9	47%
	Silver Creek Divide	SNOTEL	9000	7	1.7	3.5	49%	1.8	51%
	State Line	SC	8000	1	0.1	0.6	17%	1.2	200%
	Whitewater - Aerial And Snow Course	SC	10750			9.5			
Basin Index							31%		69%
# 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	16	1.6	1.6	100%	2.2	138%
3	Baker Butte No. 2	SC	7700	3	0.6	3.4	18%	3.9	115%
4	Baker Butte Smt	SNOTEL	7700	22	3.5			4.9	
6	Baldy	SNOTEL	9125	7	1.2	3.7	32%	2.6	70%
12	Buck Spring	SC	7400	0	0.0	1.5	0%	0.6	40%
15	Cheese Springs	SC	8700	5	0.5	2.8	18%	1.3	46%
19	Fort Apache	SC	9160	6	0.9	3.7	24%	2.5	68%
27	Heber	SNOTEL	7640	14	1.5	1.6	94%	1.3	81%
28	Lake Mary	SC	6930	0	0.0	1.0	0%	3.0	300%
29	Maverick Fork	SNOTEL	9200	9	1.2	4.0	30%	2.8	70%
36	Promontory	SNOTEL	7930	17	2.1	3.3	64%	2.6	79%
Basin Index							36%		86%
# of sites							10		10

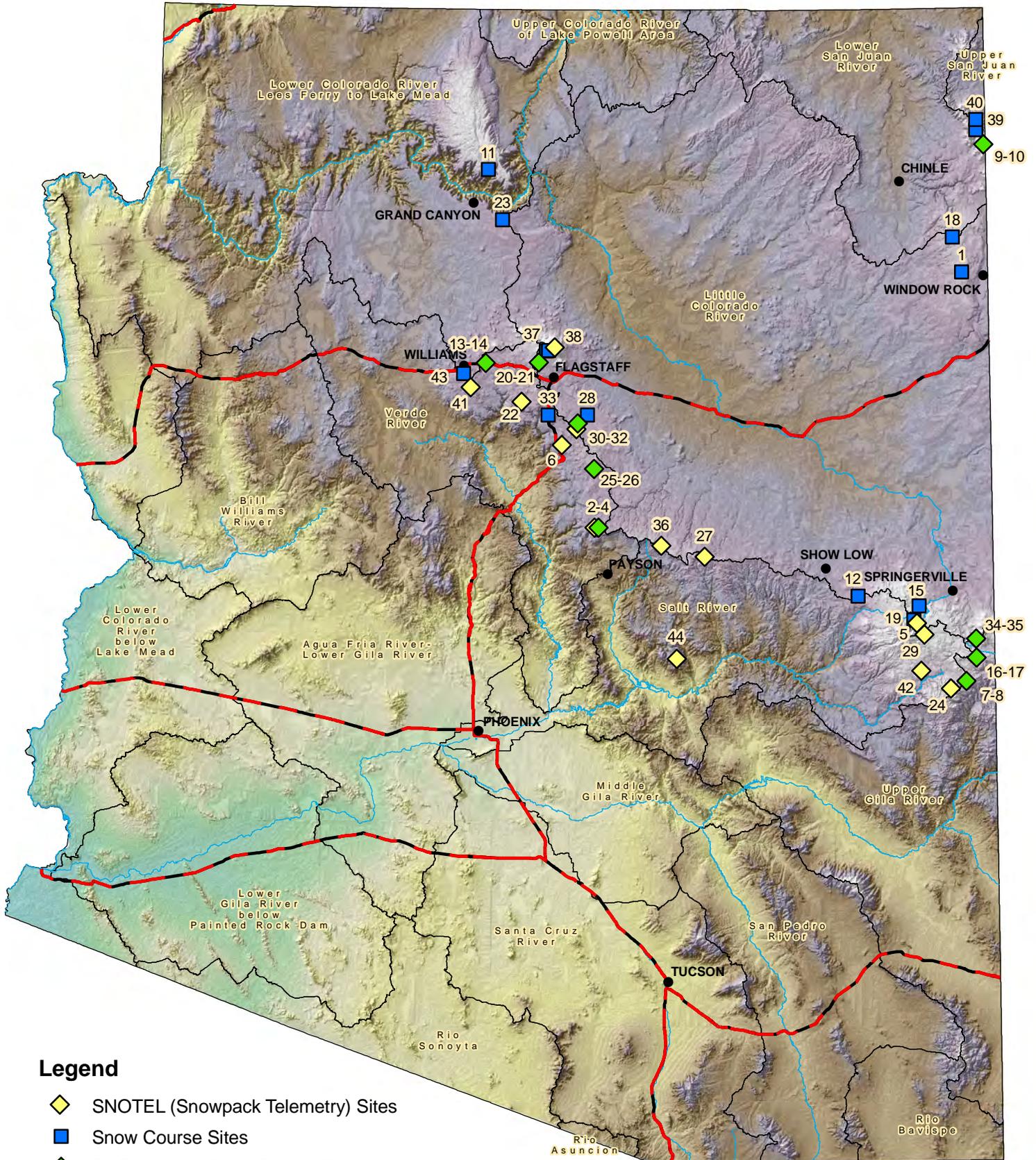
Map Num	CENTRAL MOGOLLON RIM	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
2	Baker Butte	SNOTEL	7300	16	1.6	1.6	100%	2.2	138%
3	Baker Butte No. 2	SC	7700	3	0.6	3.4	18%	3.9	115%
4	Baker Butte Smt	SNOTEL	7700	22	3.5			4.9	
27	Heber	SNOTEL	7640	14	1.5	1.6	94%	1.3	81%
36	Promontory	SNOTEL	7930	17	2.1	3.3	64%	2.6	79%
Basin Index							59%		101%
# 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	1	1.3	3.9	33%		
10	Beaver Spring	SNOTEL	9200	7	1.3			3.3	
	Bowl Canyon	SC	8980	10	1.6	3.5	46%	2.7	77%
	Hidden Valley	SC	8480	5	1.0			1.7	
	Missionary Spring	SC	7940	2	0.3	1.1	27%	1.2	109%
39	Tsaile Canyon #1	SC	8160	5	0.9	2.3	39%	2.3	100%
40	Tsaile Canyon #3	SC	8920	10	1.5	3.8	39%	3.6	95%
	Whiskey Creek	SC	9050	10	1.9	3.5	54%	3.6	103%
	Navajo Whiskey Ck	SNOTEL	9050	6	1.4			2.5	
Basin Index							44%		94%
# of sites							5		5

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	5	0.8	1.0	80%	1.3	130%
Basin Index							80%		130%
# 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	2	0.8	3.0	27%	1.5	50%
23	Grand Canyon	SC	7500	0	0.0	0.9	0%		
Basin Index							27%		50%
# of sites							1		1

Arizona Snow Survey Data Sites



Legend

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

