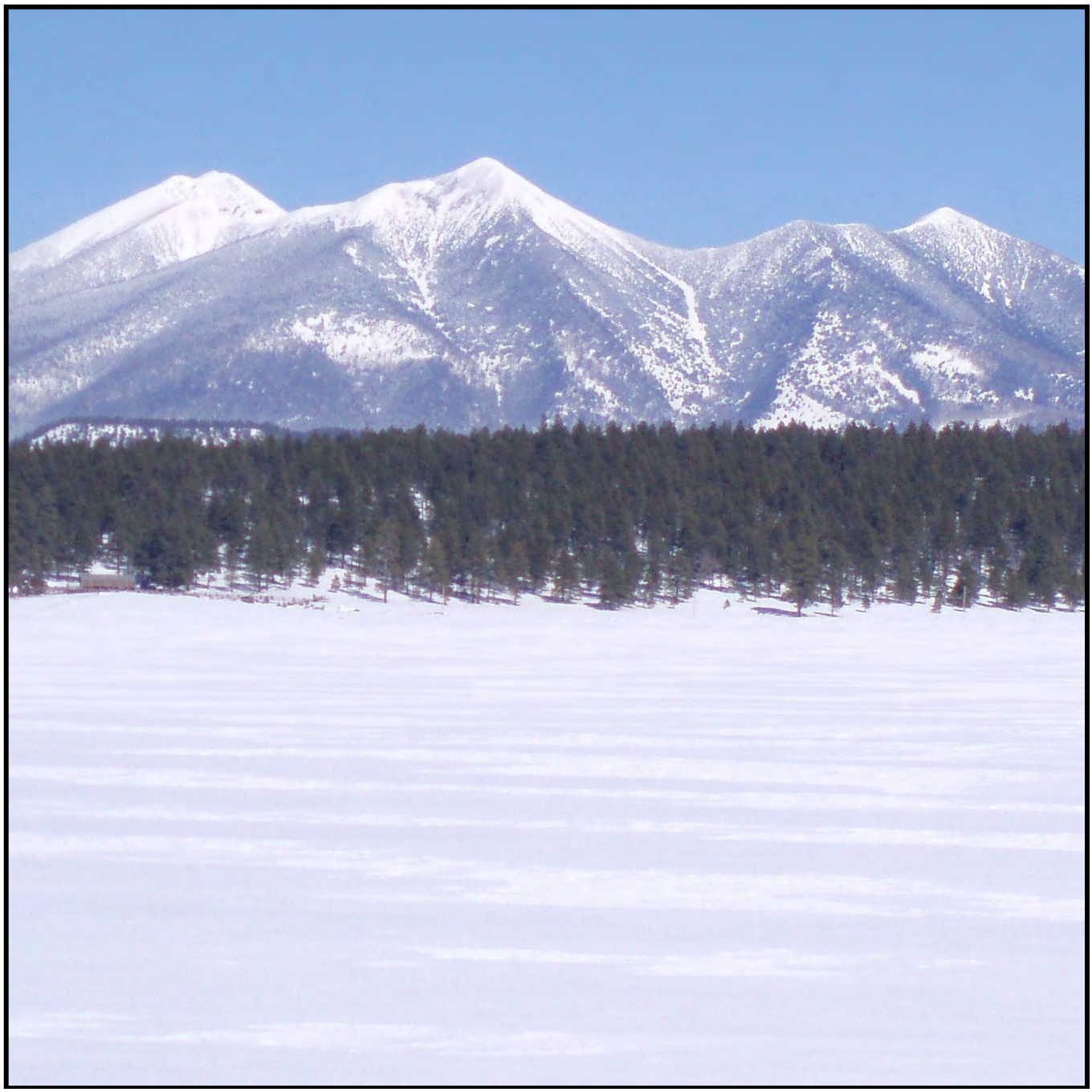
United States Department of Agriculture

Natural Resources Conservation Service

Arizona Basin Outlook Report March 15, 2022



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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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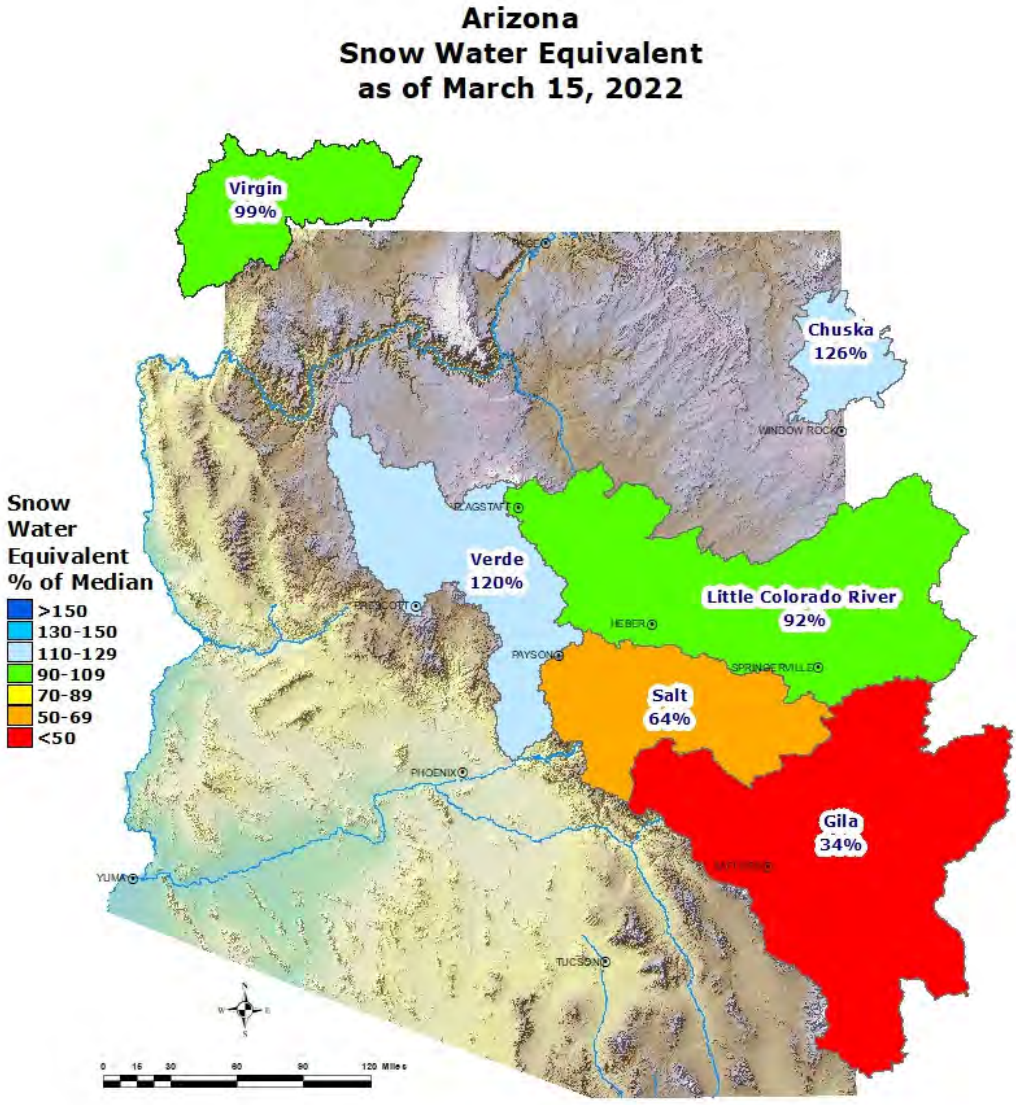
ARIZONA Basin Outlook Report
as of March 15, 2022

SUMMARY

As of March 15, snowpack levels are well below median to above median throughout the major basins of the state. Precipitation for the first half of March was well below median to median in the major river basins. The Salt and Verde River reservoir system stands at 71 percent of capacity, while San Carlos Reservoir is at 3 percent of capacity. The mid-month forecast calls for well below median runoff for the major basins during the spring runoff period.

SNOWPACK

Snow water equivalent levels in the state's major river basins are well below median to above median, ranging from 34 percent of median in the Gila River Basin, to 120 percent of median in the Verde River Basin.

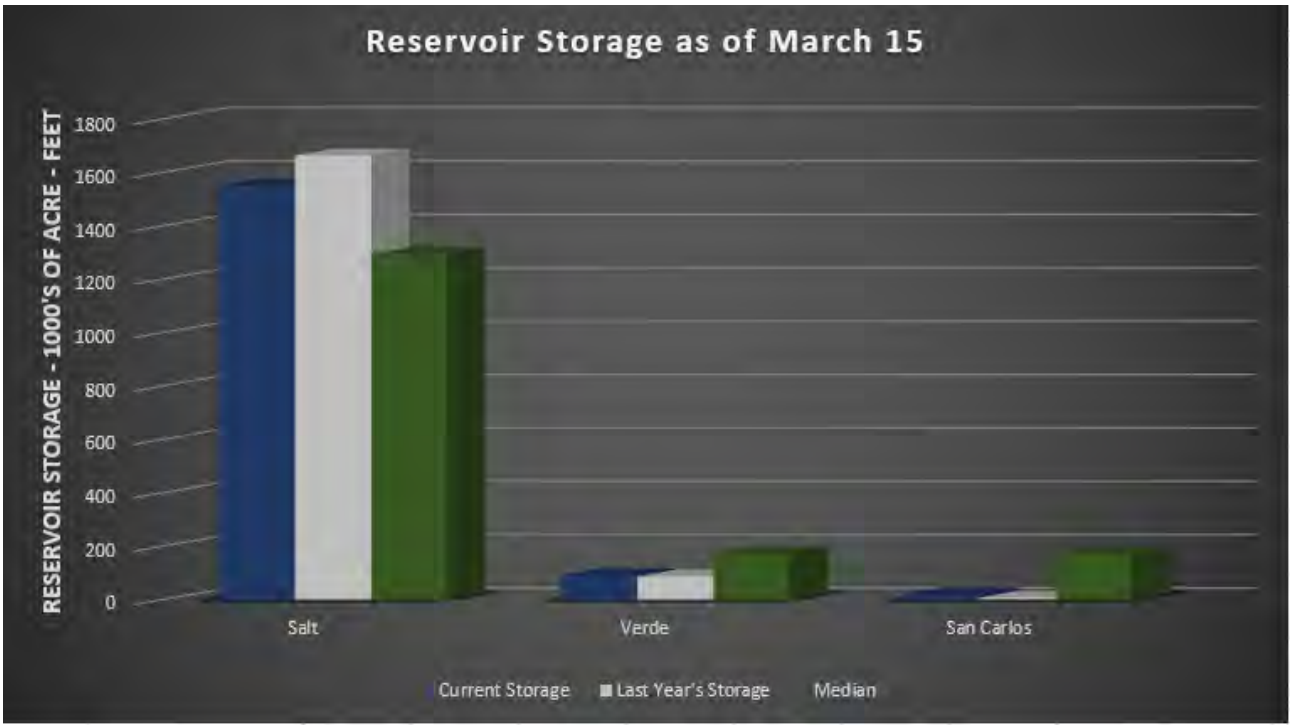


PRECIPITATION

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

RESERVOIR STORAGE

As of March 15, the Salt and Verde River reservoir system stands at 71 percent of capacity. San Carlos Reservoir is currently at 3 percent of capacity.

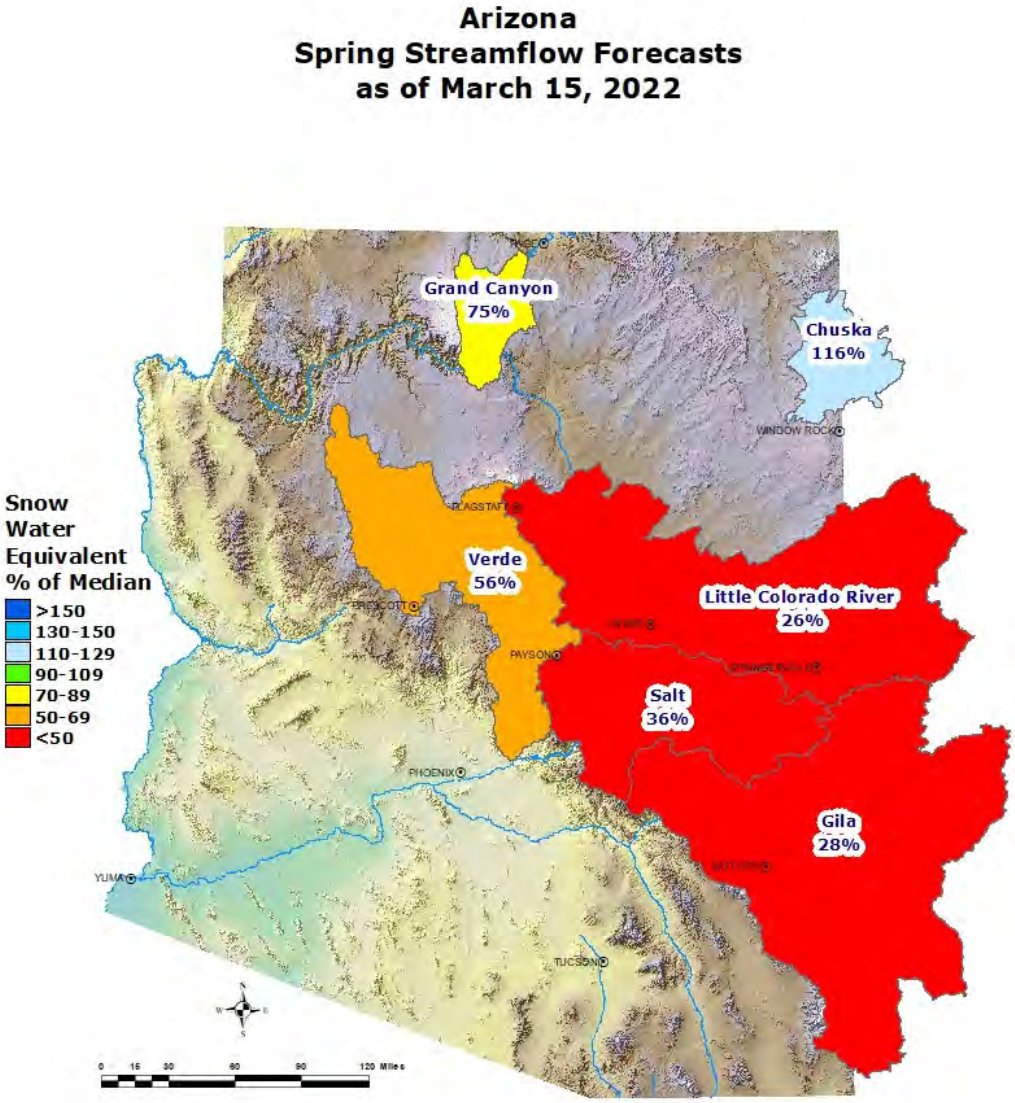


Key storage volumes displayed in thousands of acre-feet (x1000):

Reservoir	Current Storage	Last Year Storage	30-Year Average	Storage Capacity
Salt River System	1550.9	1663.9	1294.0	2025.8
Verde River System	92.9	87.4	175.0	287.4
San Carlos Reservoir	21.1	8.4	171.2	875.0
Lyman Lake	4.6	7.3	8.1	30.0
Lake Havasu	580.4	571.3	563.8	619.0
Lake Mohave	1692.9	1688.0	1685.0	1810.0
Lake Mead	8536.0	10519.0	15393.0	26159.0
Lake Powell	5812.0	9043.4	13047.0	24322.0

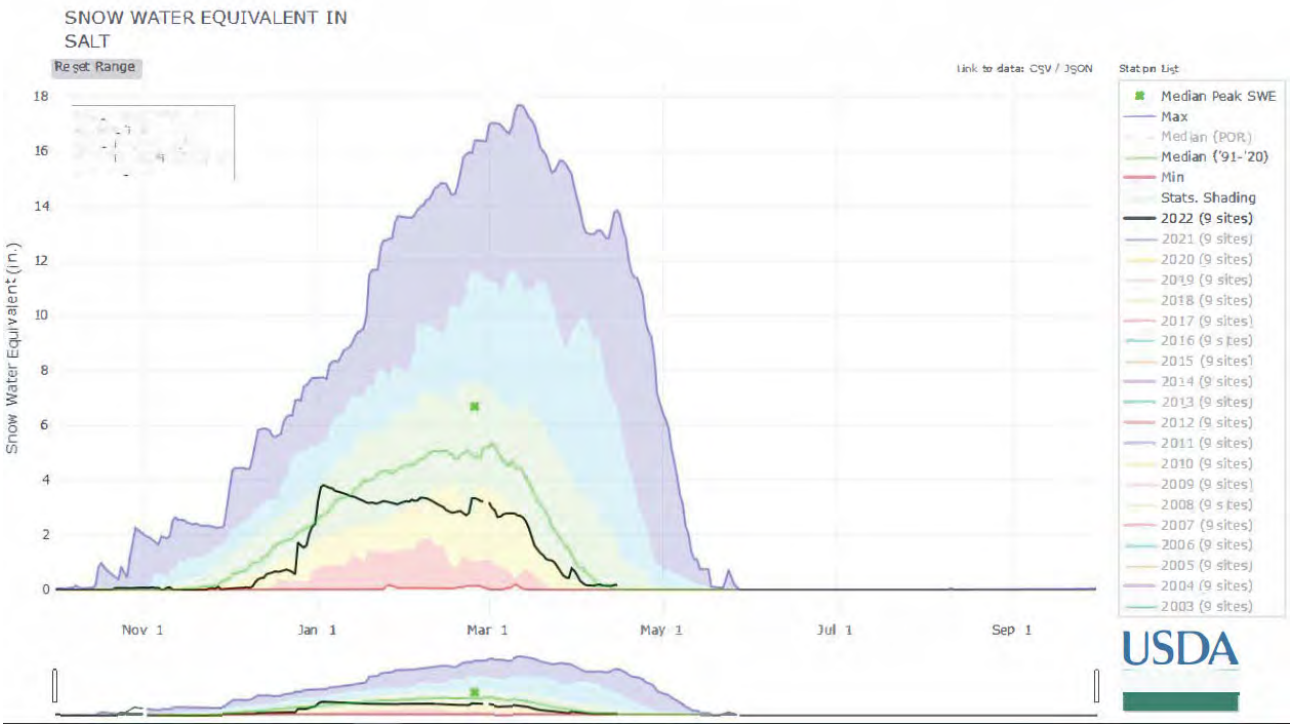
STREAMFLOW

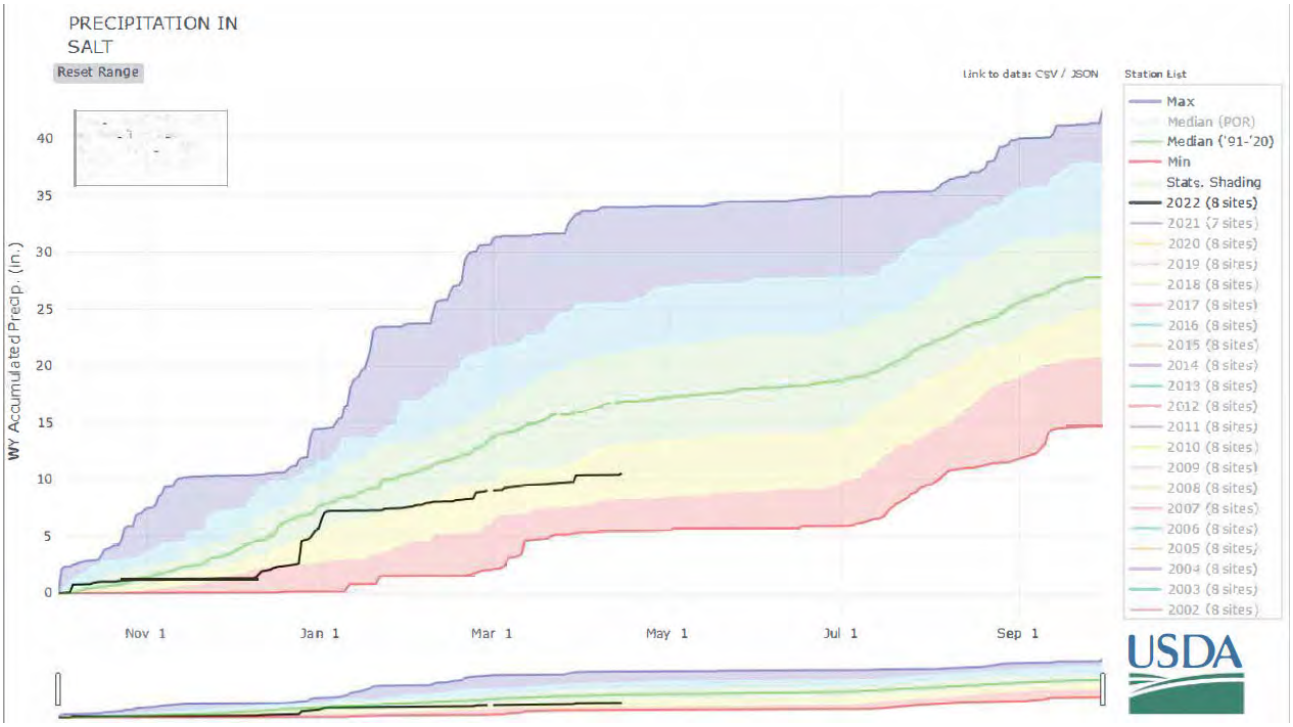
As of March 15, the forecast calls for well below median streamflow for the spring runoff period, ranging from 26 percent of median in the Little Colorado River above Lyman Lake to 56 percent of median in the Verde River above Horseshoe Dam. Please refer to the basin forecast tables found in this report for more information regarding water supply forecasts.



SALT RIVER BASIN as of March 15, 2022

Well below median streamflow levels are forecast for the basin. In the Salt River, near Roosevelt, the forecast calls for 36% of median streamflow through May, while at Tonto Creek, the forecast calls for 30% of median streamflow through May. Snow survey measurements show the Salt snowpack to be at 64% of median.





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Salt
Streamflow Forecasts - March 16, 2022

Salt	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Tonto Ck ab Gun Ck nr Roosevelt[3]								
	MAR			4	34%			11.9
	M15-MAY	0.17	1.1	2.5	30%	4	7.6	8.2
Salt R nr Roosevelt[3]								
	MAR			32	37%			86
	M15-MAY	20	35	48	36%	64	94	133

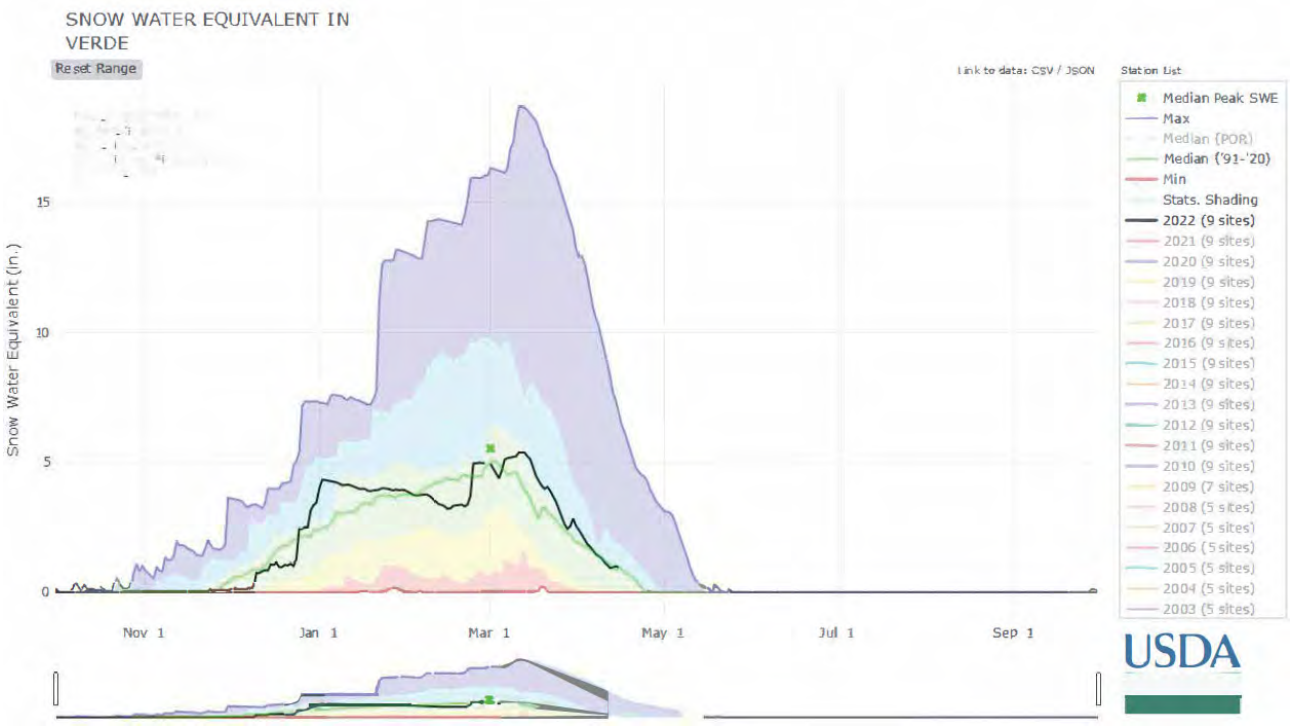
1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

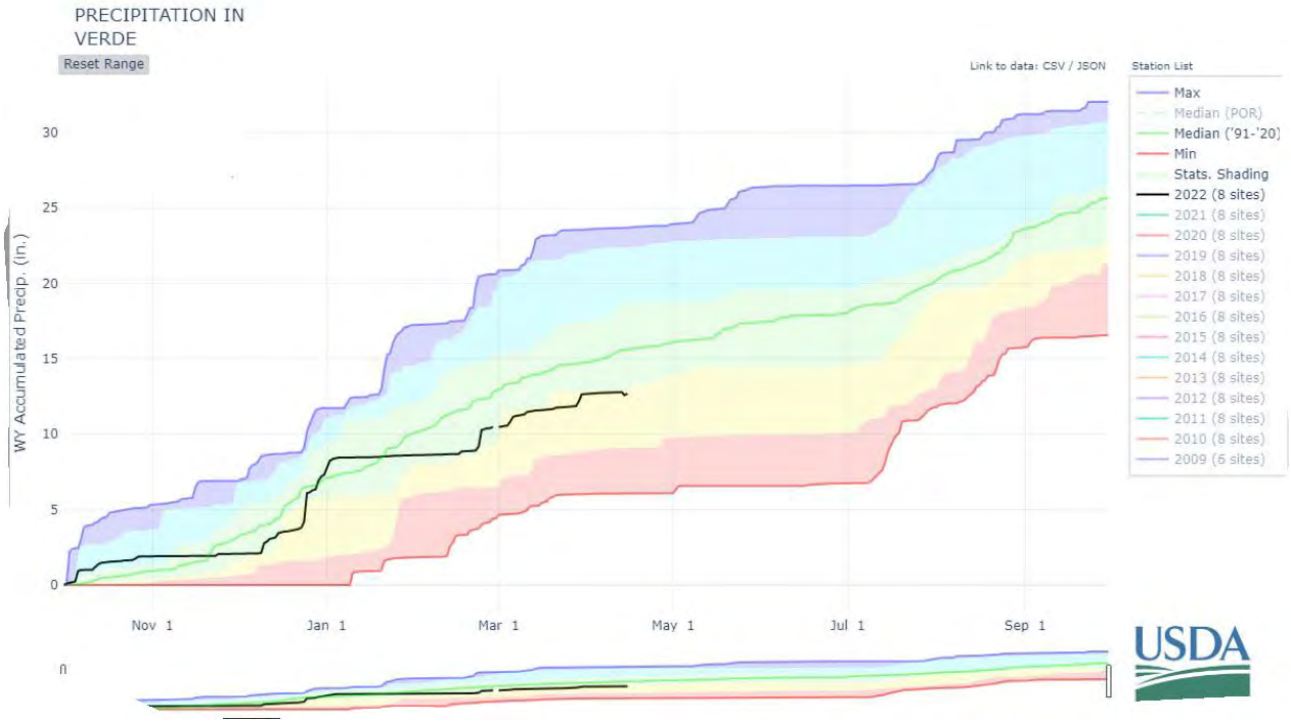
Reservoir Storage Middle of February, 2022	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Salt River Reservoir System		1663.9	1294.0	2025.8

Watershed Snowpack Analysis March 16, 2022	# of Sites	% Median	Last Year % Median
Salt	10	64%	31%

VERDE RIVER BASIN as of March 15, 2022

Well below median streamflow levels are forecast for the basin. In the Verde River above Horseshoe Dam, the forecast calls for 56% of median streamflow through May. Snow survey measurements show the Verde snowpack to be at 120% of median.





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Verde
Streamflow Forecasts - March 16, 2022

Verde	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Verde R bl Tangle Ck ab Horseshoe Dam								
	MAR			20	37%			54
	M15-MAY	4	12.3	22	56%	36	65	39

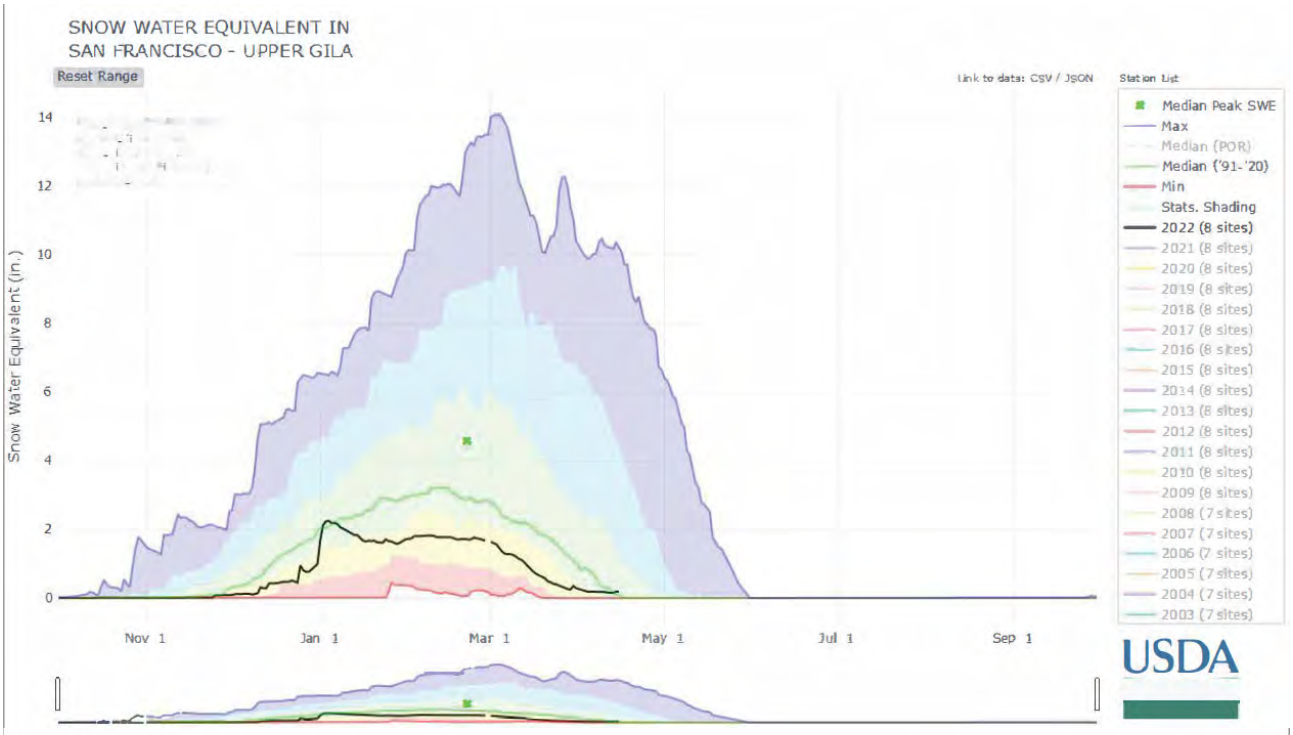
1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

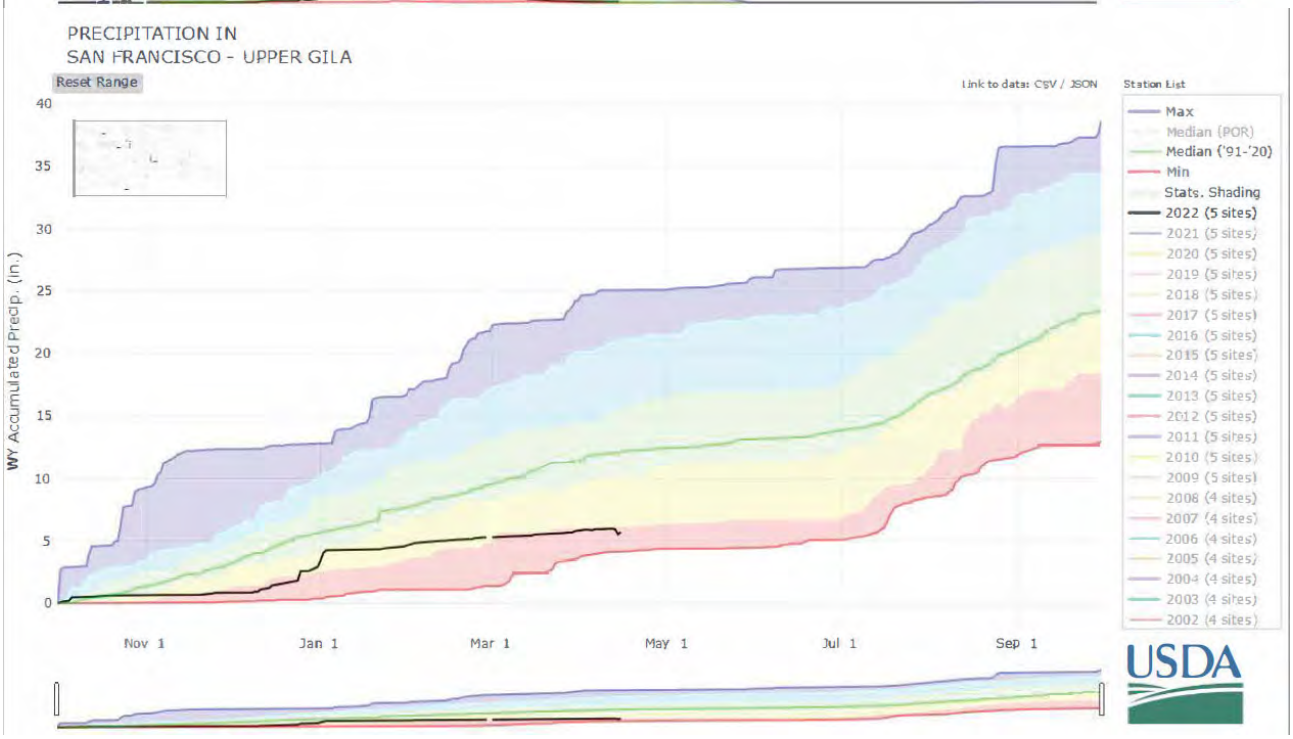
Reservoir Storage Middle of February, 2022	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Verde River Reservoir System		87.4	175.0	287.4

Watershed Snowpack Analysis March 16, 2022	# of Sites	% Median	Last Year % Median
Verde	15	120%	109%

SAN FRANCISCO-UPPER GILA RIVER BASIN as of March 15, 2022

Well below median streamflow levels are forecast for the basin. In the San Francisco River, at Clifton, the forecast calls for 37% of median streamflow levels through May. In the Gila River, near Solomon, the forecast calls for 28% of median streamflow levels through May. At San Carlos Reservoir, inflow to the lake is forecast at 34% of median through May. Snow survey measurements show the snowpack for this basin to be at 34% of median.





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San Francisco - Upper Gila
Streamflow Forecasts - March 16, 2022

San Francisco - Upper Gila	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast 90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Gila R at Gila[3]								
	M15-MAY	3.2	5	6.5	33%	8.3	11.5	19.9
San Carlos Reservoir Inflow[3]								
	M15-MAY	0	1.66	7.5	34%	16.7	33	22
Gila R bl Blue Ck nr Virden[3]								
	M15-MAY	0.48	2.7	5.3	25%	8.6	15.1	21
San Francisco R at Glenwood[3]								
	M15-MAY	0.5	1.45	2.5	27%	4	7.2	9.3
Gila R nr Solomon[3]								
	MAR			12	36%			33
	M15-MAY	1.11	6.7	13.3	28%	22	39	47
San Francisco R at Clifton[3]								
	M15-MAY	0.94	4.5	8.4	37%	13.5	23	23

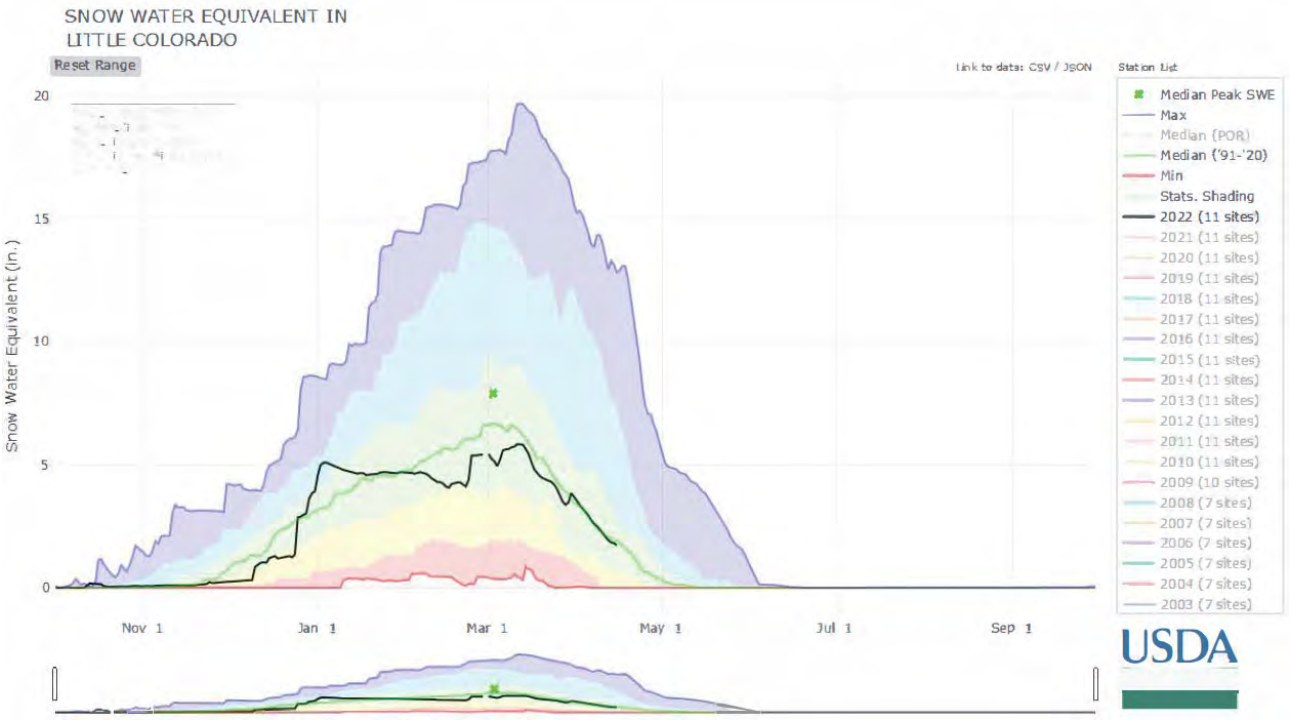
1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

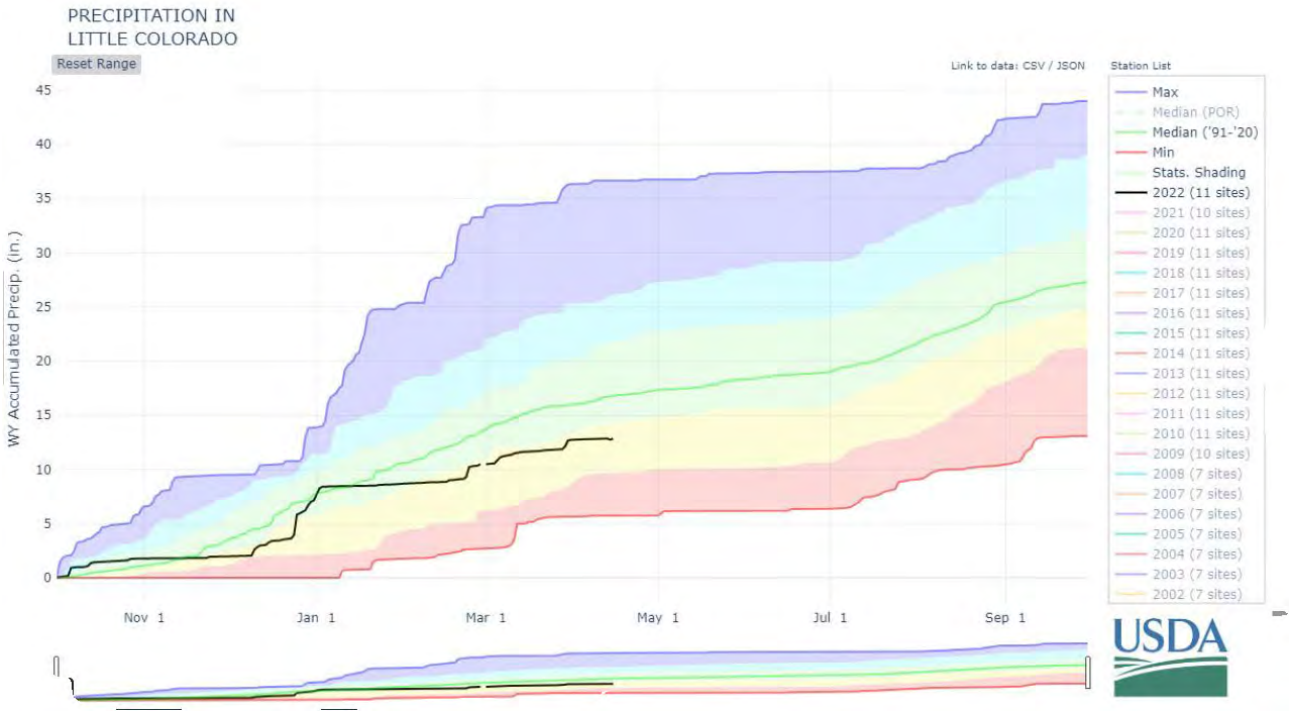
Reservoir Storage Middle of February, 2022	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
San Carlos Reservoir	26.7	9.3	171.2	875.0

Watershed Snowpack Analysis March 16, 2022	# of Sites	% Median	Last Year % Median
San Francisco - Upper Gila	9	34%	79%

LITTLE COLORADO RIVER BASIN as of March 15, 2022

Well below median 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 24% of median through May. Snow survey measurements show the snowpack for this basin to be at 92% of median.





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Little Colorado
Streamflow Forecasts - March 16, 2022

Little Colorado	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Rio Nutria nr Ramah[3]								
Little Colorado R ab Lyman Lake[3]	MAR-JUN	0.29	0.77	1.3	26%	2	3.5	5
Blue Ridge Reservoir Inflow[2]	MAR-MAY	0.53	1.42	2.4	24%	3.7	6.5	9.9
Zuni R ab Black Rock Reservoir								
Lake Mary Reservoir Inflow	MAR-MAY	0.47	1.03	1.6	64%	2.3	3.8	2.5

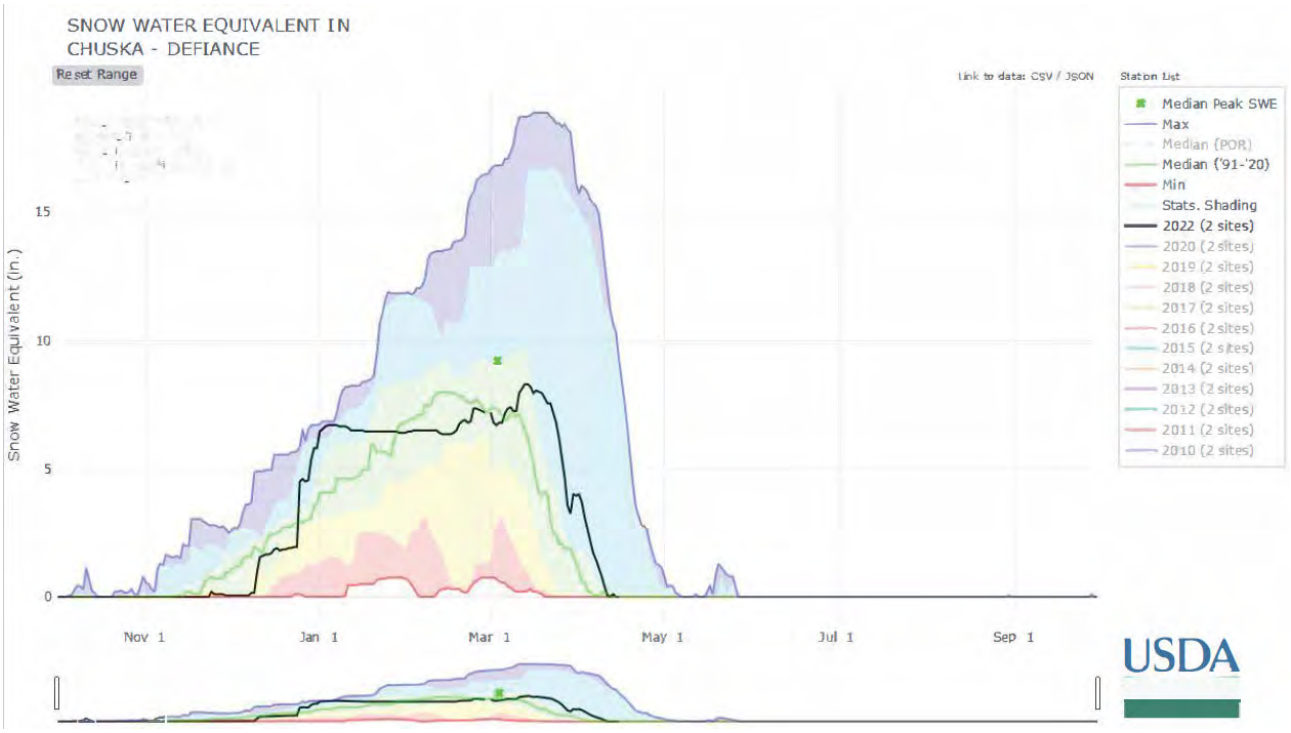
1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

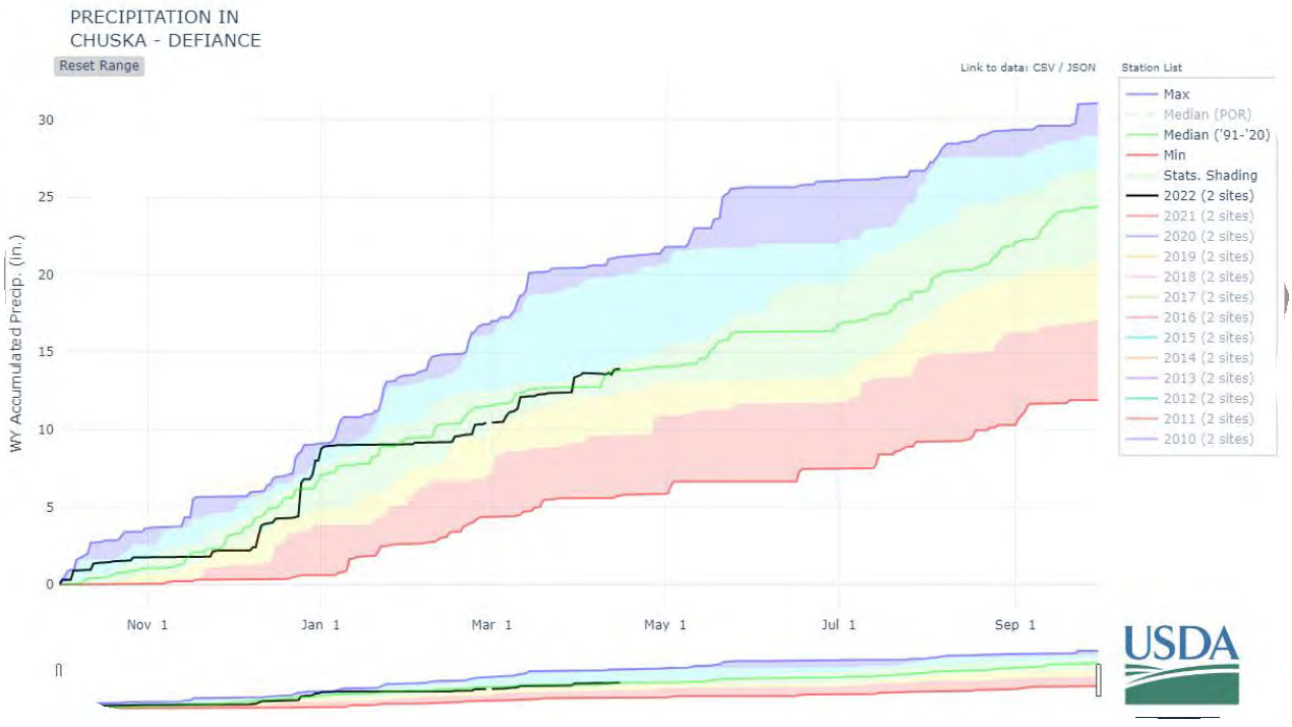
Reservoir Storage Middle of February, 2022	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Lyman Reservoir	4.7	7.3	8.1	30.0
Cragin Dam Reservoir	7.2	3.1	11.9	0.0
Show Low Lake			4.5	5.1

Watershed Snowpack Analysis March 16, 2022	# of Sites	% Median	Last Year % Median
Little Colorado	19	92%	70%

CHUSKA MOUNTAINS as of March 15, 2022

Above median streamflow levels are forecast for Wheatfields Creek, Captain Tom Wash, and Bowl Canyon Creek. Snow survey measurements conducted by staff of the Navajo Nation Water Management Branch show the Chuska snowpack to be at 126% of median.





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Chuska - Defiance
Streamflow Forecasts - March 16, 2022

		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Chuska - Defiance	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Bowl Canyon Ck ab Asaayi Lake[3]	MAR-MAY	0.52	0.76	0.95	116%	1.16	1.51	0.82
Captain Tom Wash nr Two Gray Hills[3]	MAR-MAY	0.14	0.4	0.7	113%	1.12	1.99	0.62
Wheatfields Ck nr Wheatfields	MAR-MAY	0.23	0.57	0.9	108%	1.3	2	0.83

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

Watershed Snowpack Analysis March 16, 2022	# of Sites	% Median	Last Year % Median
Chuska - Defiance	9	126%	64%

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Streamflow Forecast Summary: March 16, 2022
(Medians based on 1991-2020 reference period)

		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
San Francisco - Upper Gila	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Gila R at Gila[3]								
	M15-MAY	3.2	5	6.5	33%	8.3	11.5	19.9
San Carlos Reservoir Inflow[3]								
	M15-MAY	0	1.66	7.5	34%	16.7	33	22
Gila R bl Blue Ck nr Virden[3]								
	M15-MAY	0.48	2.7	5.3	25%	8.6	15.1	21
San Francisco R at Glenwood[3]								
	M15-MAY	0.5	1.45	2.5	27%	4	7.2	9.3
Gila R nr Solomon[3]								
	MAR			12	36%			33
	M15-MAY	1.11	6.7	13.3	28%	22	39	47
San Francisco R at Clifton[3]								
	M15-MAY	0.94	4.5	8.4	37%	13.5	23	23

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

		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Salt	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Tonto Ck ab Gun Ck nr Roosevelt[3]								
	MAR			4	34%			11.9
	M15-MAY	0.17	1.1	2.5	30%	4	7.6	8.2
Salt R nr Roosevelt[3]								
	MAR			32	37%			86
	M15-MAY	20	35	48	36%	64	94	133

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

		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Little Colorado	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Rio Nutria nr Ramah[3]								
Little Colorado R ab Lyman Lake[3]								
	MAR-JUN	0.29	0.77	1.3	26%	2	3.5	5
Blue Ridge Reservoir Inflow[2]								
	MAR-MAY	0.53	1.42	2.4	24%	3.7	6.5	9.9
Zuni R ab Black Rock Reservoir								
Lake Mary Reservoir Inflow								
	MAR-MAY	0.47	1.03	1.6	64%	2.3	3.8	2.5

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

Verde	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Verde R bl Tangle Ck ab Horseshoe Dam								
	MAR			20	37%			54
	M15-MAY	4	12.3	22	56%	36	65	39

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

Chuska - Defiance	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Bowl Canyon Ck ab Asaayi Lake[3]								
	MAR-MAY	0.52	0.76	0.95	116%	1.16	1.51	0.82
Captain Tom Wash nr Two Gray Hills[3]								
	MAR-MAY	0.14	0.4	0.7	113%	1.12	1.99	0.62
Wheatfields Ck nr Wheatfields								
	MAR-MAY	0.23	0.57	0.9	108%	1.3	2	0.83

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

Grand Canyon	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Lake Powell Inflow [3]								
	APR-JUL	2750	3790	4600	75%	5480	6930	6130

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

Virgin	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Santa Clara R nr Pine Valley[3]								
Virgin R at Virgin								
Virgin R nr Hurricane								
Virgin R at Littlefield								

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

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Basinwide Summary: March 16, 2022
(Medians based on 1991-2020 reference period)

Snowpack Summary for March 16, 2022

San Francisco - Upper Gila	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beaver Head	SNOTEL	7990	1	1.4	0.4	350%	0.0	0%
Coronado Trail	SNOTEL	8400	1	0.0	0.0		0.0	
Coronado Trail	SC	8350	0	0.0	0.0		0.0	
Frisco Divide	SNOTEL	8000		0.2	0.0		0.0	
Hannagan Meadows	SNOTEL	9020			8.6		1.4	16%
Lookout Mountain	SNOTEL	8500		0.0	0.0		0.0	
Nutrioso	SC	8500	0	0.0	0.0		0.0	
Nutrioso	SNOTEL	8500	1	0.0	0.0		0.0	
Signal Peak	SNOTEL	8360	1	0.0	0.0		0.0	
Silver Creek Divide	SNOTEL	9000	3	1.0	7.2	14%	6.0	83%
State Line	SC	8000			0.2			
Basin Index						**34%**		**79%**
# of sites						9		9

Salt	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Baldy	SNOTEL	9125	9	3.5	6.2	56%	0.0	0%
Beaver Head	SNOTEL	7990	1	1.4	0.4	350%	0.0	0%
Buck Spring	SC	7400	3	0.4	0.0		0.2	
Coronado Trail	SNOTEL	8400	1	0.0	0.0		0.0	
Coronado Trail	SC	8350	0	0.0	0.0		0.0	
Fort Apache	SC	9160	25	6.9	7.7	90%	3.1	40%
Hannagan Meadows	SNOTEL	9020			8.6		1.4	16%
Hawley Lake	SNOTEL	8300	31	10.3			8.2	
Heber	SNOTEL	7640	2	0.2	0.4	50%	1.5	375%
Maverick Fork	SNOTEL	9200	11	5.1	7.4	69%	0.0	0%
Promontory	SNOTEL	7930	6	3.0	10.2	29%	5.3	52%
Wildcat	SNOTEL	7850	4	0.1	0.0		0.0	
Workman Creek	SNOTEL	6900			0.2		1.2	600%
Basin Index						**64%**		**31%**
# of sites						10		10

Little Colorado	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Baker Butte	SNOTEL	7300	2	0.9	2.3	39%	2.5	109%
Baker Butte No. 2	SC	7700	20	5.7	10.0	57%	6.6	66%
Baker Butte Smt	SNOTEL	7700	30	9.0	10.2	88%	11.0	108%
Baldy	SNOTEL	9125	9	3.5	6.2	56%	0.0	0%
Boon	SC	8140						
Buck Spring	SC	7400	3	0.4	0.0		0.2	
Cheese Springs	SC	8700	20	5.2	5.4	96%	3.2	59%
Dan Valley	SC	7640						
Fort Apache	SC	9160	25	6.9	7.7	90%	3.1	40%
Fort Valley	SNOTEL	7350	0	0.4	0.0		1.4	
Fort Valley	SC	7350	4	0.8	0.4	200%	1.4	350%
Heber	SNOTEL	7640	2	0.2	0.4	50%	1.5	375%
Lake Mary	SC	6930	4	1.6	0.5	320%	0.0	0%
Maverick Fork	SNOTEL	9200	11	5.1	7.4	69%	0.0	0%
Mcgaffey	SC	8120						
Mormon Mountain	SNOTEL	7500	12	5.4	2.4	225%	2.4	100%

Mormon Mountain Summit #2	SC	8470			8.3		7.2	87%
Mormon Mtn Summit	SNOTEL	8500	34	10.4	7.6	137%	7.6	100%
Nutrioso	SC	8500	0	0.0	0.0		0.0	
Nutrioso	SNOTEL	8500	1	0.0	0.0		0.0	
Promontory	SNOTEL	7930	6	3.0	10.2	29%	5.3	52%
Snow Bowl #2	SC	11200	55	16.2	14.8	109%	10.4	70%
Snowslide Canyon	SNOTEL	9730	47	18.6	16.1	116%	14.3	89%
Basin Index						**92%**		**70%**
# of sites						19		19

Verde	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Baker Butte	SNOTEL	7300	2	0.9	2.3	39%	2.5	109%
Baker Butte No. 2	SC	7700	20	5.7	10.0	57%	6.6	66%
Baker Butte Smt	SNOTEL	7700	30	9.0	10.2	88%	11.0	108%
Bar M	SNOTEL	6393	0	0.5			1.3	
Chalender	SNOTEL	7100	1	2.4	0.0		2.5	
Chalender	SC	7100	0	0.0	0.4	0%	1.3	325%
Fort Valley	SNOTEL	7350	0	0.4	0.0		1.4	
Fort Valley	SC	7350	4	0.8	0.4	200%	1.4	350%
Fry	SNOTEL	7200	13	5.5	3.1	177%	4.2	135%
Happy Jack	SC	7630	7	2.3	1.6	144%	1.3	81%
Happy Jack	SNOTEL	7630	21	8.9	3.6	247%	6.1	169%
Mormon Mountain	SNOTEL	7500	12	5.4	2.4	225%	2.4	100%
Mormon Mountain Summit #2	SC	8470			8.3		7.2	87%
Mormon Mtn Summit	SNOTEL	8500	34	10.4	7.6	137%	7.6	100%
Newman Park	SC	6750	0	0.2	0.2	100%	1.9	950%
Snow Bowl #2	SC	11200	55	16.2	14.8	109%	10.4	70%
White Horse Lake	SNOTEL	7180	0	0.8	0.6	133%	1.9	317%
Williams Ski Run	SC	7720			7.8			
Basin Index						**120%**		**109%**
# of sites						15		15

Chuska - Defiance	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beaver Spring	SC	9220	28	9.6	8.6	112%	5.8	67%
Beaver Spring	SNOTEL	9200	22	8.7	5.8	150%	5.5	95%
Bowl Canyon	SC	8980	36	8.4	7.9	106%	5.2	66%
Fluted Rock	SC	7800	12	4.0	1.2	333%	1.4	117%
Hidden Valley	SC	8480	32	8.4	7.6	111%	3.2	42%
Missionary Spring	SC	7940	12	3.2	0.4	800%	0.0	0%
Navajo Whiskey Ck	SNOTEL	9050	20	7.2	4.6	157%		
Tsaile Canyon #1	SC	8160	23	8.7	6.5	134%	2.0	31%
Tsaile Canyon #3	SC	8920	30	9.6	9.3	103%	5.6	60%
Whiskey Creek	SC	9050		9.6	8.6	112%	7.0	81%
Basin Index						**126%**		**64%**
# of sites						9		9

Grand Canyon	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Bright Angel	SC	8400			6.6			
Grand Canyon	SC	7500	0	0.2	0.0			
Basin Index								
# of sites						0		0

Virgin	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Gardner Peak	SNOTEL	8322	22	9.7	11.9	82%	7.5	63%
Gutz Peak	SNOTEL	6763	25	11.6	5.2	223%	5.1	98%
Harris Flat	SNOTEL	7792	22	9.1	7.6	120%	2.5	33%
Kolob	SNOTEL	9263	50	17.5	19.4	90%	12.7	65%
Little Grassy	SNOTEL	6065	0	0.0	0.0		0.1	
Long Flat	SNOTEL	7982	13	6.6	5.5	120%	4.4	80%
Long Valley Jct	SNOTEL	7465	8	4.1	2.6	158%	1.0	38%
Midway Valley	SNOTEL	9827	56	15.9	21.1	75%	14.2	67%
Webster Flat	SNOTEL	9203	32	11.5	13.2	87%	8.9	67%
Basin Index						**99%**		**65%**
# of sites						9		9