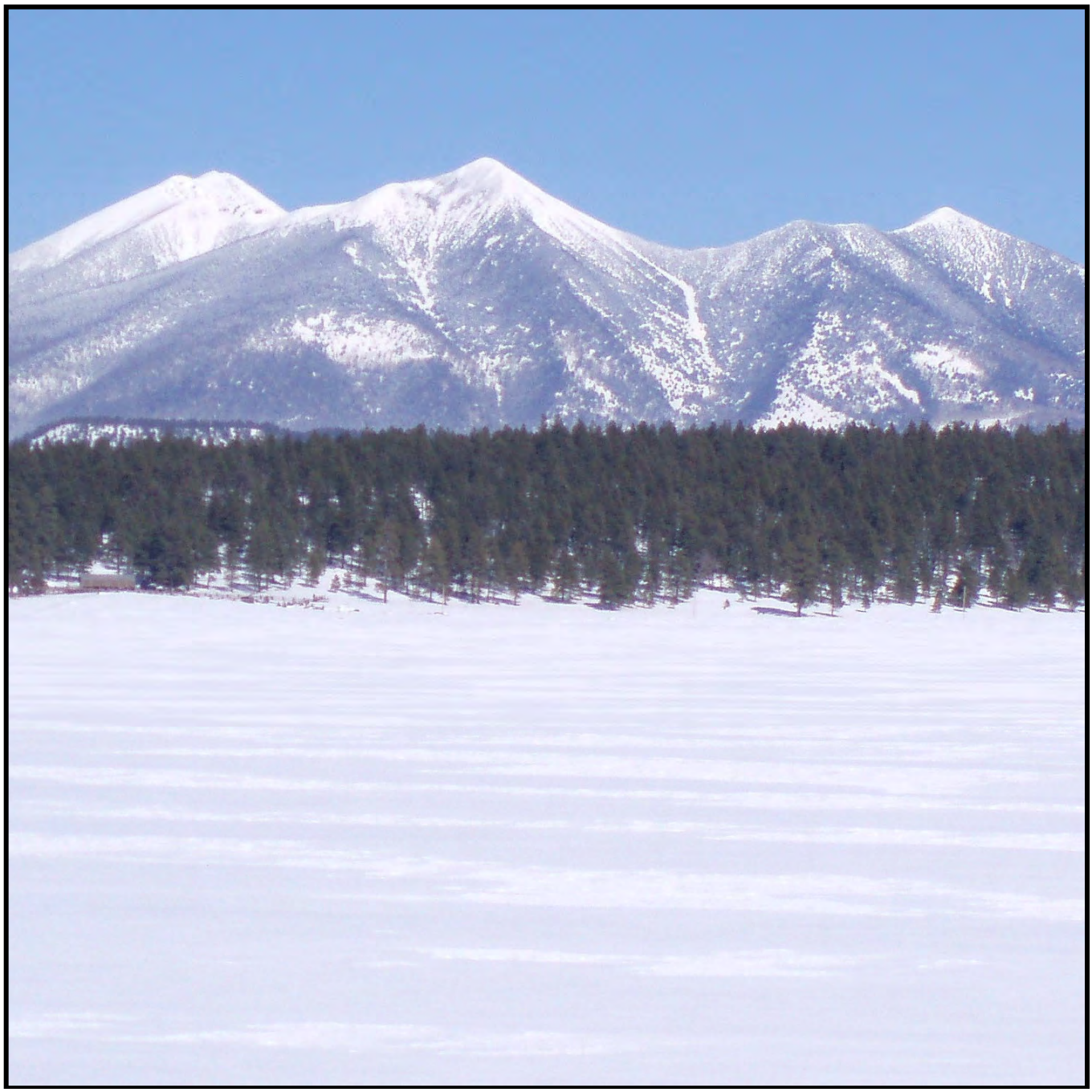
United States Department of Agriculture

Natural Resources Conservation Service

Arizona Basin Outlook Report February 1, 2022



Issued by

Terry Cosby
Chief
Natural Resources Conservation Service
U.S. Department of Agriculture

Released by

Keisha L. Tatem
State Conservationist
Natural Resources Conservation Service
Phoenix, Arizona

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:

Travis Kolling
Water Supply Specialist
230 N. First Ave., Suite 509
Phoenix, AZ 85003-1706
Phone: (602) 280-8834
Email: travis.kolling@az.usda.gov

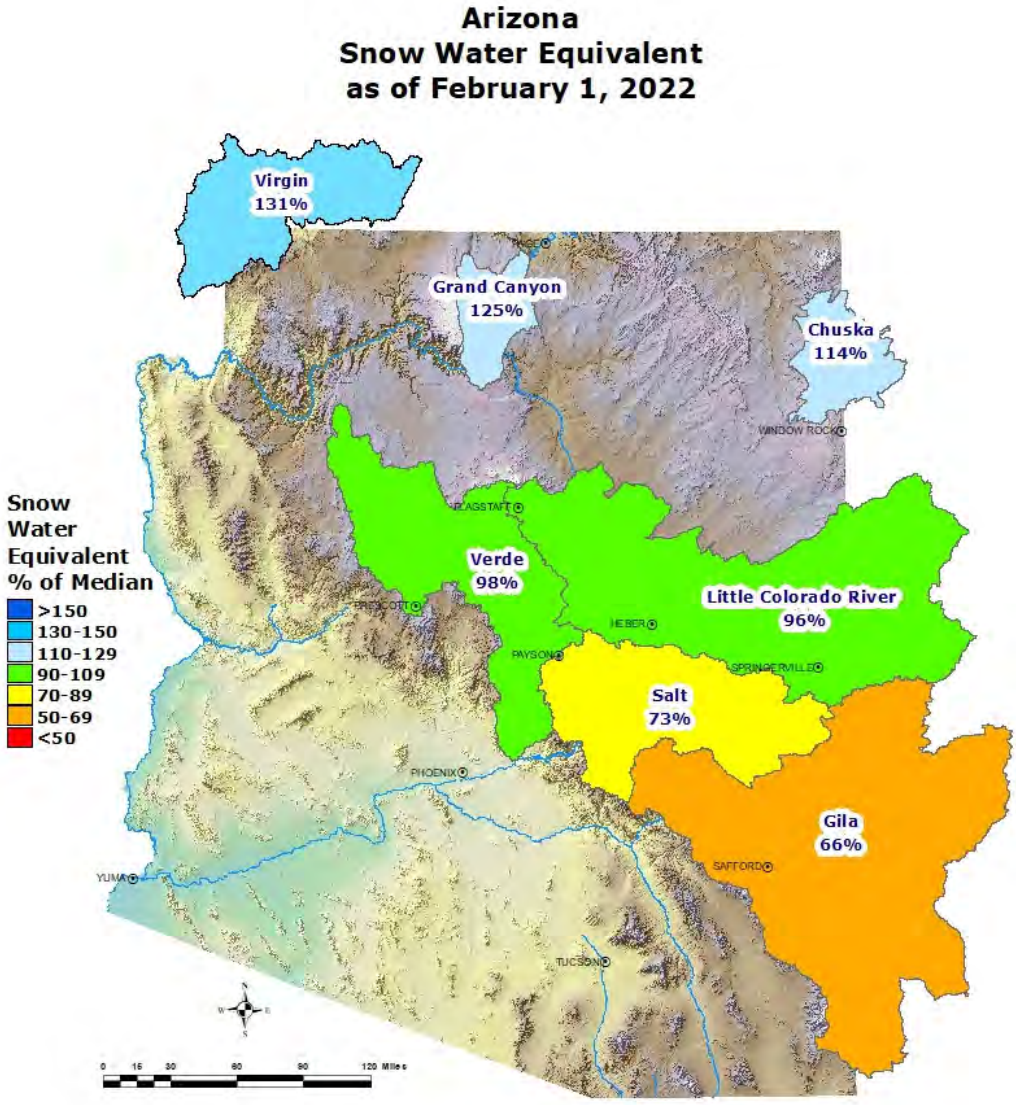
ARIZONA Basin Outlook Report
as of February 1, 2022

SUMMARY

As of February 1, snowpack is at well below median to median levels throughout the major basins of the state. Precipitation for the month of January 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 4 percent of capacity. The forecast calls for well below median to below median runoff in all major basins for the spring runoff period.

SNOWPACK

Snow water equivalent levels in the state's major river basins are well below median to median, ranging from 66 percent of median in the Upper Gila River Basin to 98 percent of median in the Verde River Basin.

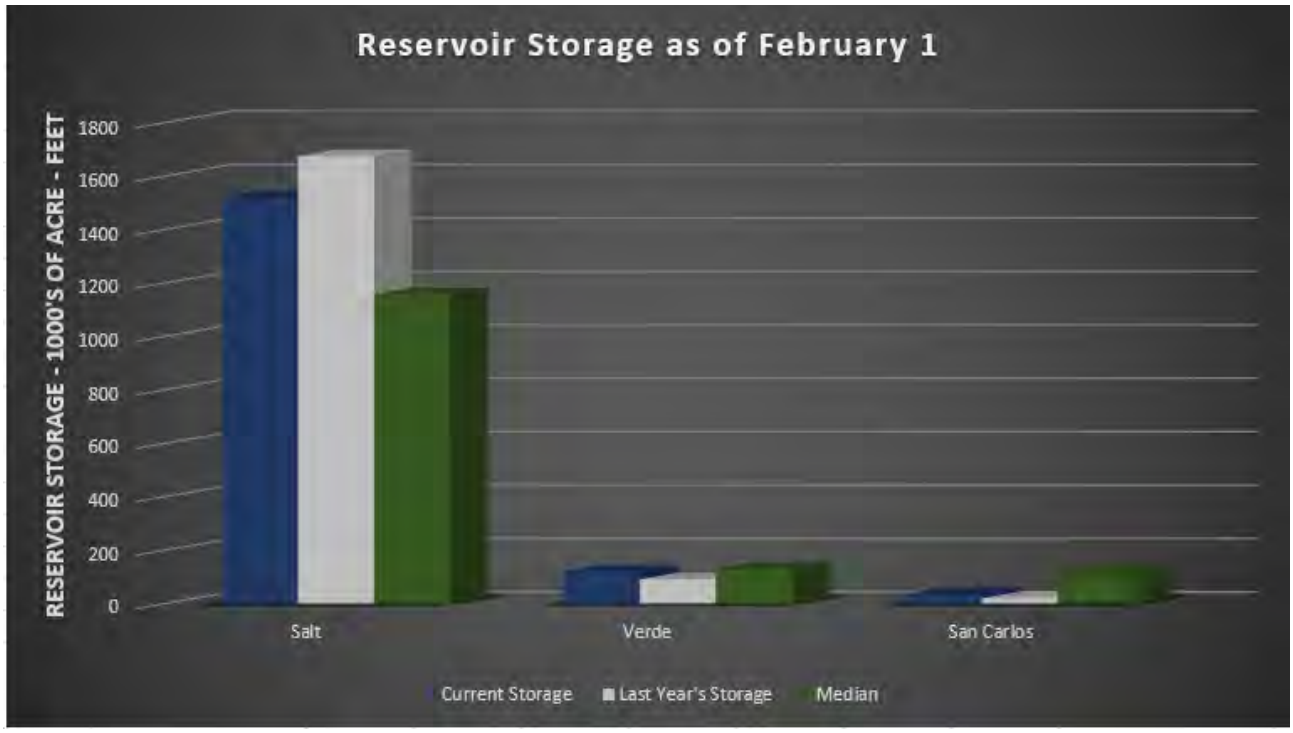


PRECIPITATION

Mountain data from NRCS SNOTEL sites and NWS Cooperator gages show that precipitation for January was well below median to median in the major river basins. Cumulative precipitation since October 1 is also well below median to below 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 February 1, the Salt and Verde River reservoir system stands at 71 percent of capacity. San Carlos Reservoir is currently at 4 percent of capacity.

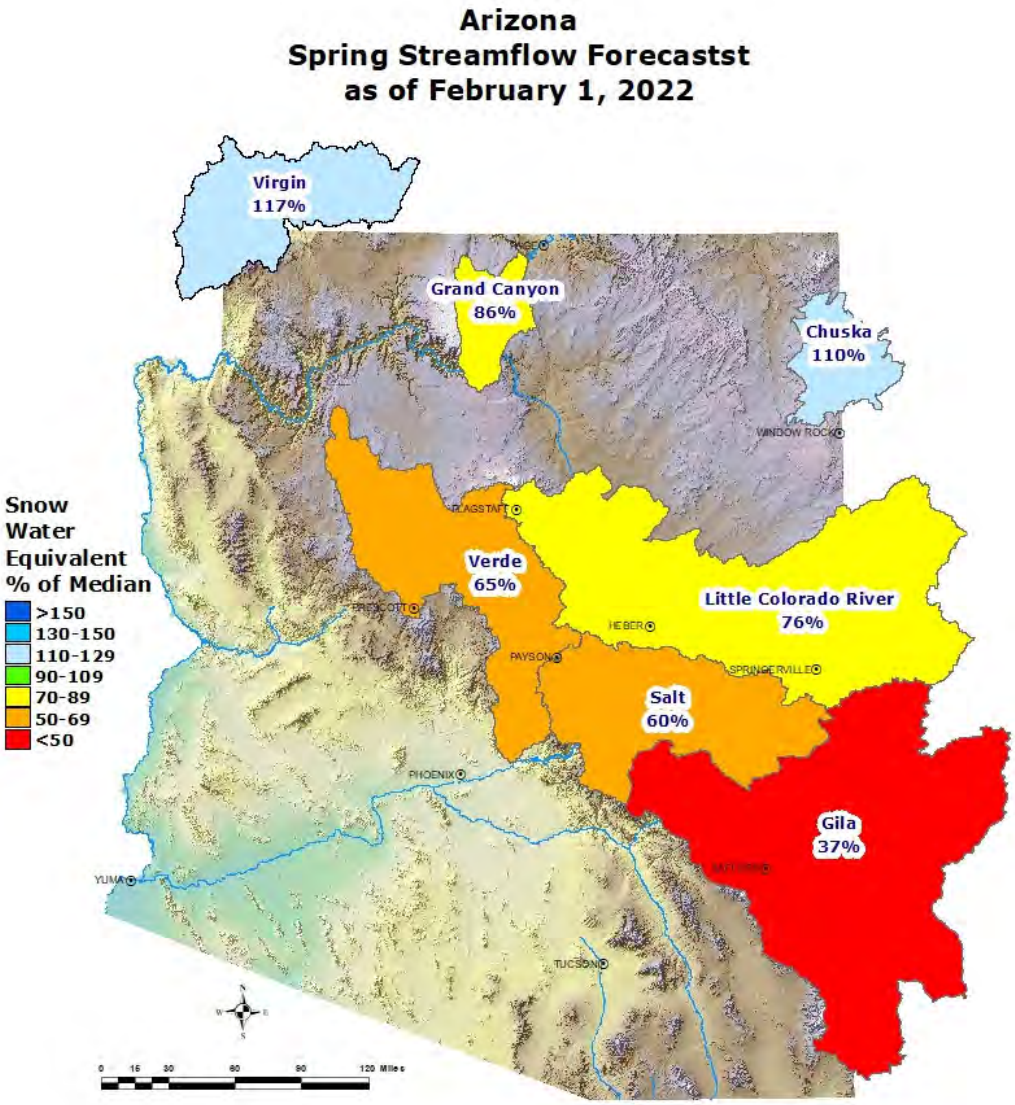


Key storage volumes displayed in thousands of acre-feet (x1000):

Reservoir	Current Storage	Last Year Storage	30-Year Median	Storage Capacity
Salt River System	1519.7	1674.5	1157.0	2025.8
Verde River System	120.4	91.1	130.5	287.4
San Carlos Reservoir	36.4	19.9	116.0	875.0
Lyman Lake	4.8	7.5	7.4	30.0
Lake Havasu	549.6	579.6	556.4	619.0
Lake Mohave	1660.7	1690.0	1658.0	1810.0
Lake Mead	8969.8	10524.0	15227.0	26159.0
Lake Powell	6335.0	9638.5	13471.0	24322.0

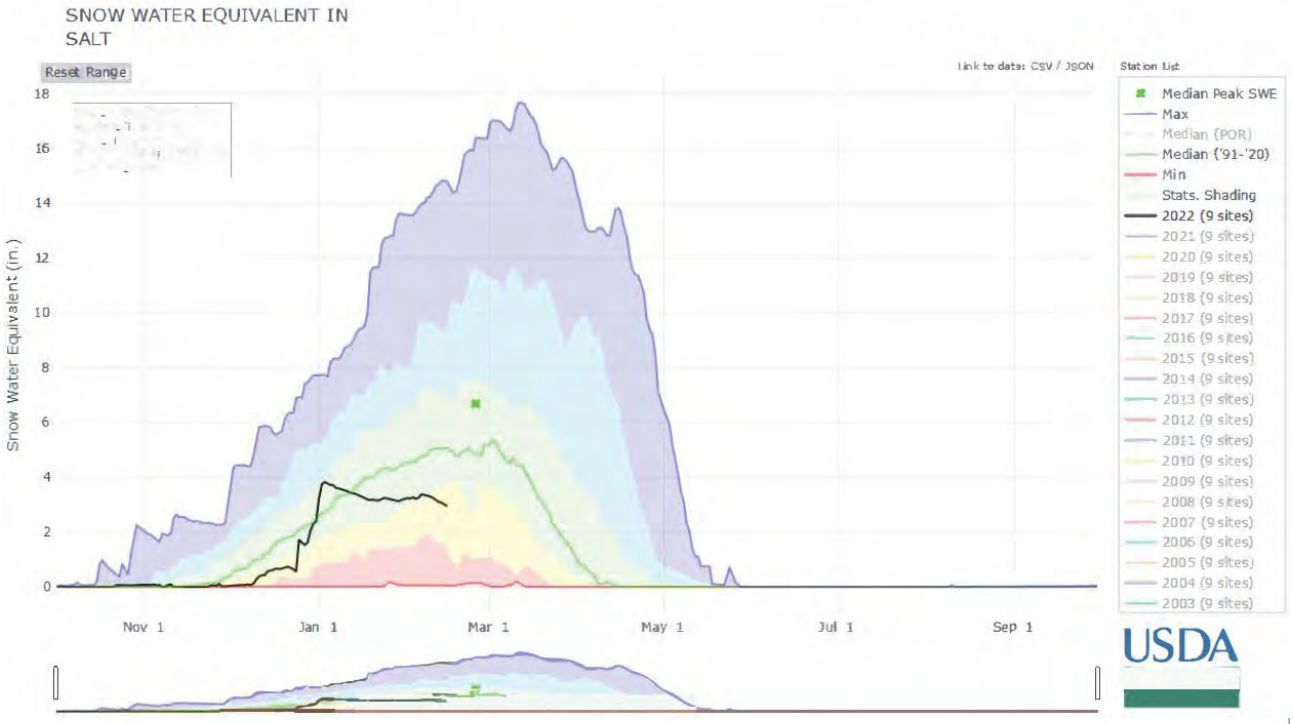
STREAMFLOW

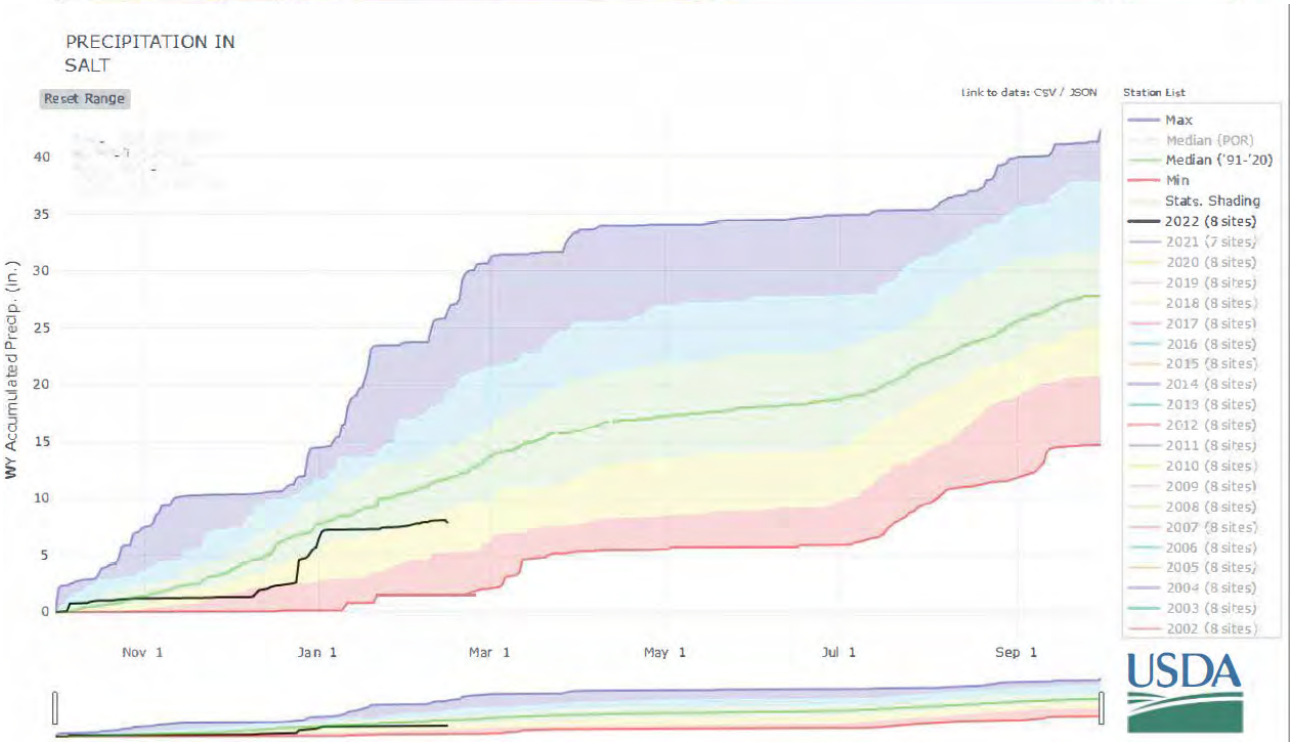
As of February 1, the forecast calls for well below median to below median streamflow for the spring runoff period, ranging from 37 percent of median in the Upper Gila River near Solomon to 76 percent of median in the Little Colorado River above Lyman Lake. Please refer to the basin forecast tables found in this report for more information regarding water supply forecasts.



SALT RIVER BASIN as of February 1, 2022

Well below median streamflow levels are forecast for the basin. In the Salt River, near Roosevelt, the forecast calls for 60% of median streamflow through May, while at Tonto Creek, the forecast calls for 55% of median streamflow through May. Snow survey measurements show the Salt snowpack to be at 73% of median.





Data Current As of: 2/4/2022 8:55:21 AM

Salt

Streamflow Forecasts - February 1, 2022

		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)
Salt R nr Roosevelt								
	FEB			24	67%			36
	FEB-MAY	54	96	135	60%	183	275	225
	MAR-MAY	39	73	105	59%	145	220	179
Tonto Ck ab Gun Ck nr Roosevelt								
	FEB			4.2	66%			6.4
	FEB-MAY	2.4	8.9	17	55%	29	55	31

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

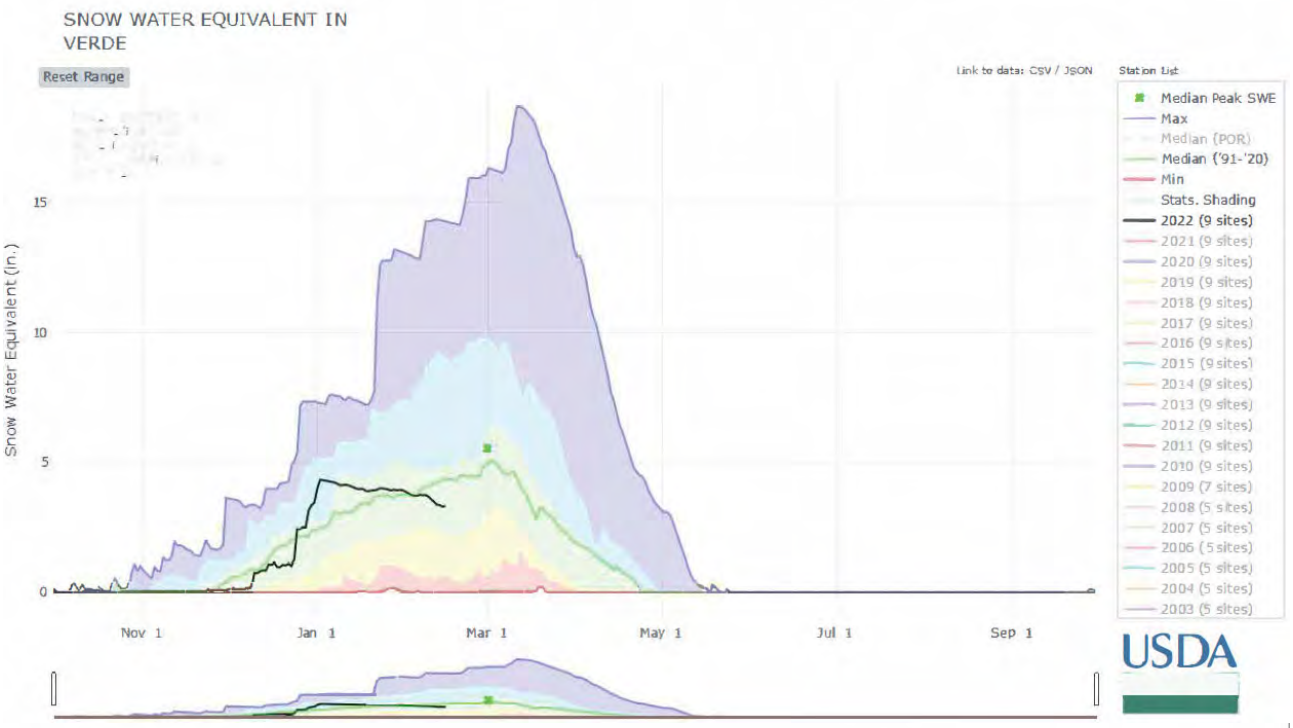
Reservoir Storage End of January, 2022	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Salt River Reservoir System		1674.5	1157.0	2025.8

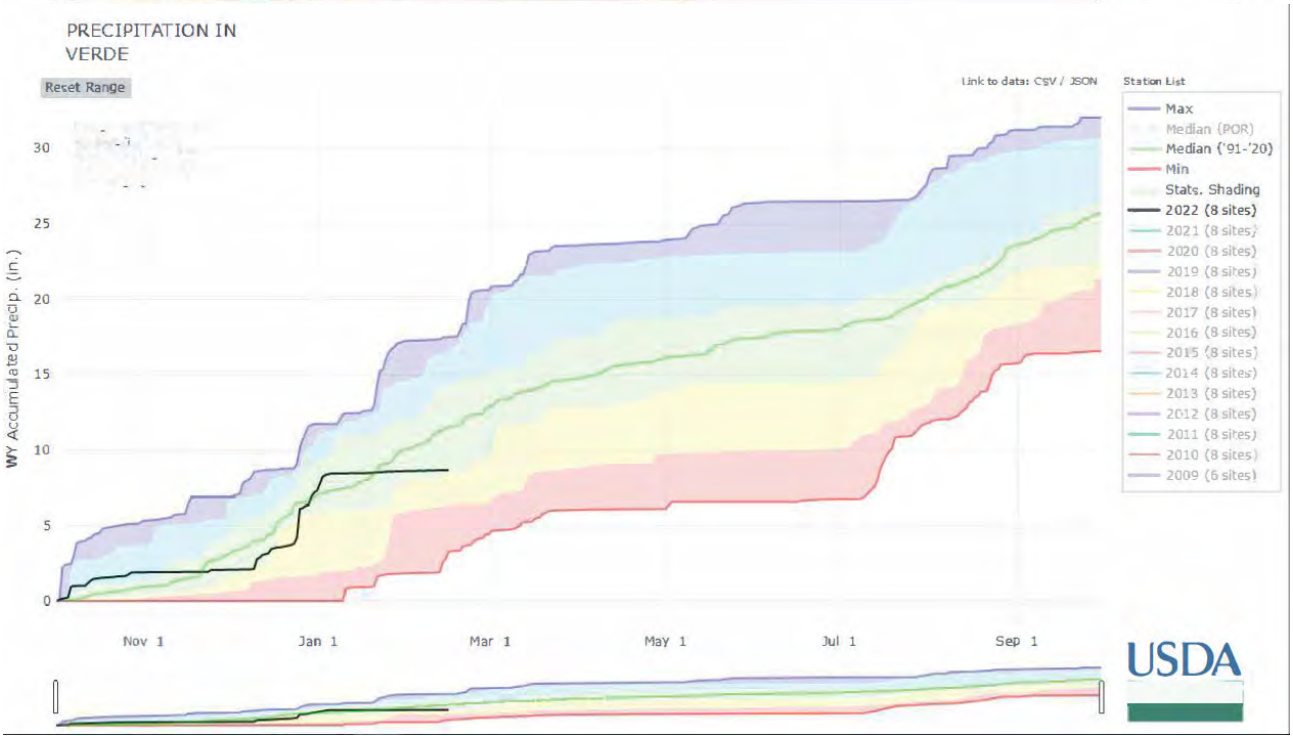
Basin Index

# of reservoirs

VERDE RIVER BASIN as of February 1, 2022

Well below median streamflow levels are forecast for the basin. In the Verde River above Horseshoe Dam, the forecast calls for 65% of median streamflow through May. Snow survey measurements show the Verde snowpack to be at 98% of median.





Data Current As of: 2/4/2022 8:55:31 AM

Verde

Streamflow Forecasts - February 1, 2022

		Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						
Verde	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Verde R bl Tangle Ck ab Horseshoe Dam								
	FEB			20	74%			27
	FEB-MAY	21	48	75	65%	111	183	115

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

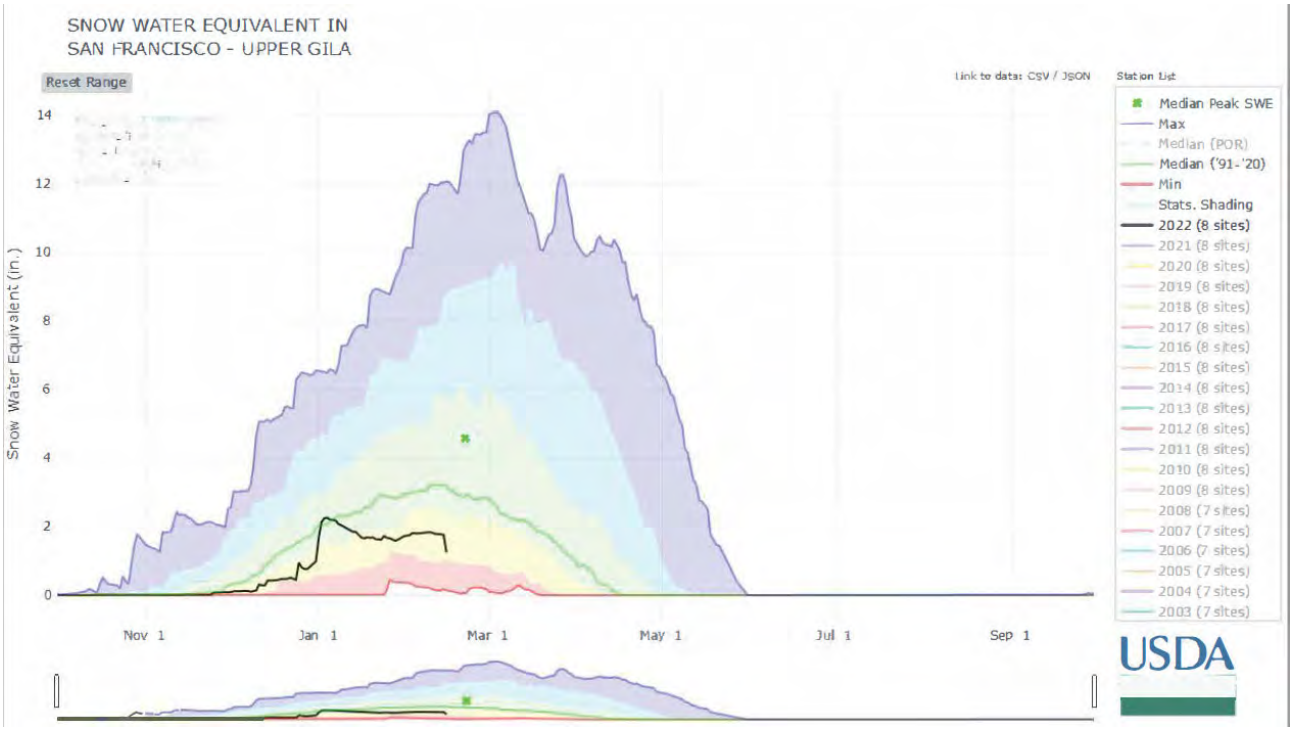
Reservoir Storage End of January, 2022	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Verde River Reservoir System		91.1	130.5	287.4

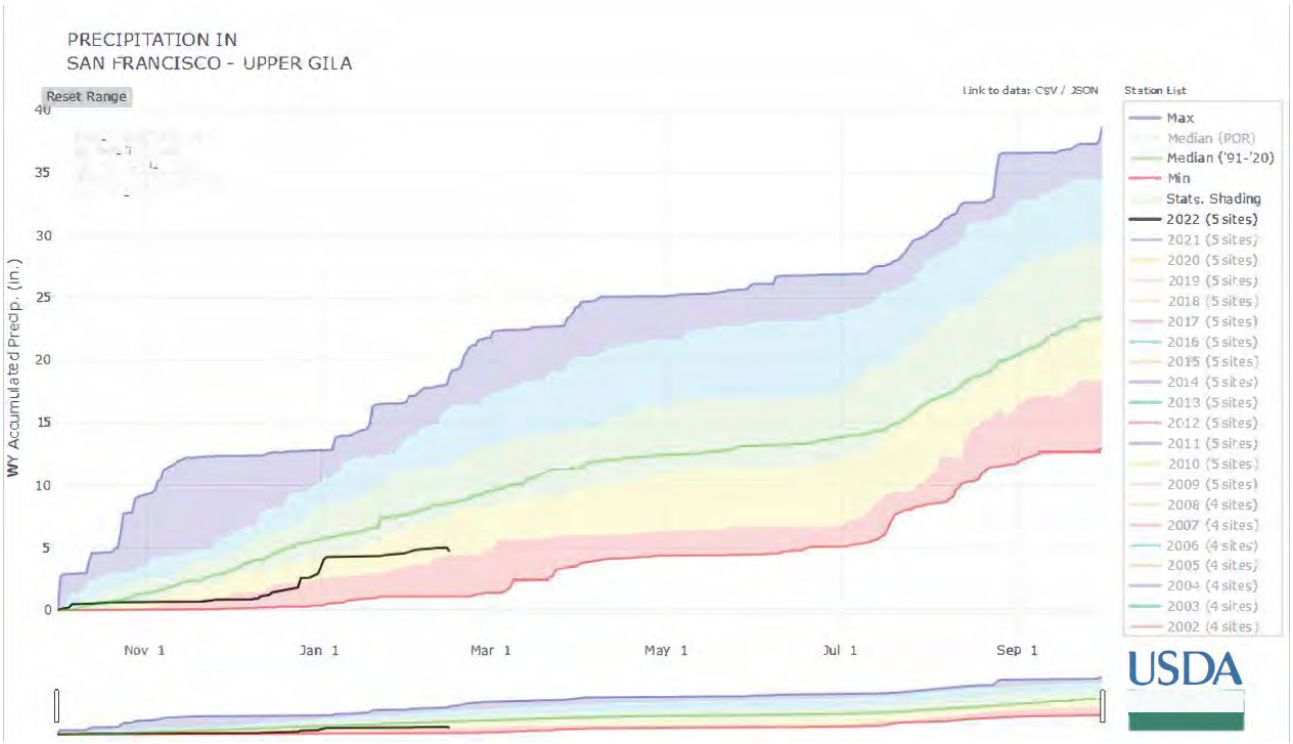
Basin Index

# of reservoirs

SAN FRANCISCO-UPPER GILA RIVER BASIN as of February 1, 2022

Well below median streamflow levels are forecast for the basin. In the San Francisco River, at Clifton, the forecast calls for 45% of median streamflow levels through May. In the Gila River, near Solomon, the forecast calls for 37% of median streamflow levels through May. At San Carlos 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 66% of median.





Data Current As of: 2/4/2022 8:55:15 AM

San Francisco - Upper Gila
Streamflow Forecasts - February 1, 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 nr Solomon								
	FEB			12	57%			21
	FEB-MAY	1.62	15.9	34	37%	59	108	93
Gila R bl Blue Ck nr Virden								
	FEB-MAY	0.49	7.3	16.5	31%	29	55	54
Gila R at Gila								
	FEB-MAY	4.4	9.4	14.5	33%	21	34	44
San Carlos Reservoir Inflow								
	FEB-MAY	0.18	4.6	14	24%	31	77	58
San Francisco R at Glenwood								
	FEB-MAY	1.42	4.1	7	46%	11.1	19.7	15.1
San Francisco R at Clifton								
	FEB-MAY	1.45	9.1	18	45%	30	53	40

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

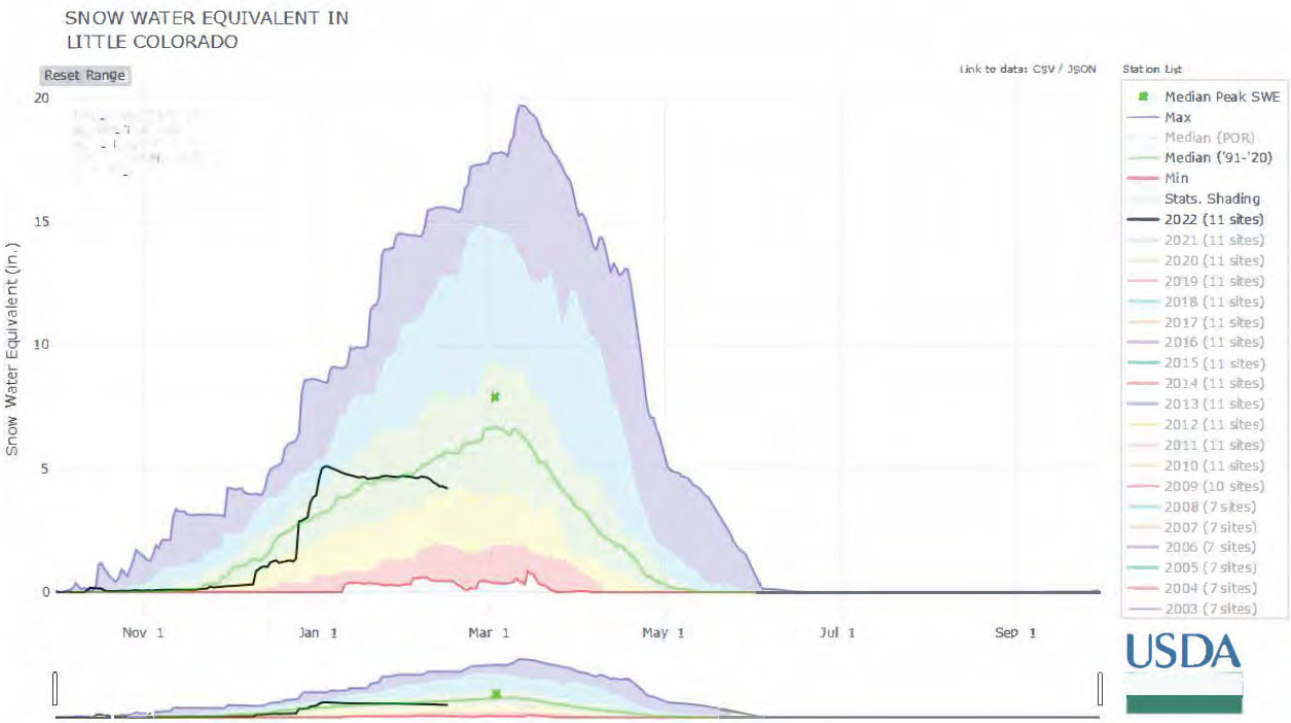
Reservoir Storage **End of January, 2022**	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
San Carlos Reservoir	36.4	19.9	116.0	875.0

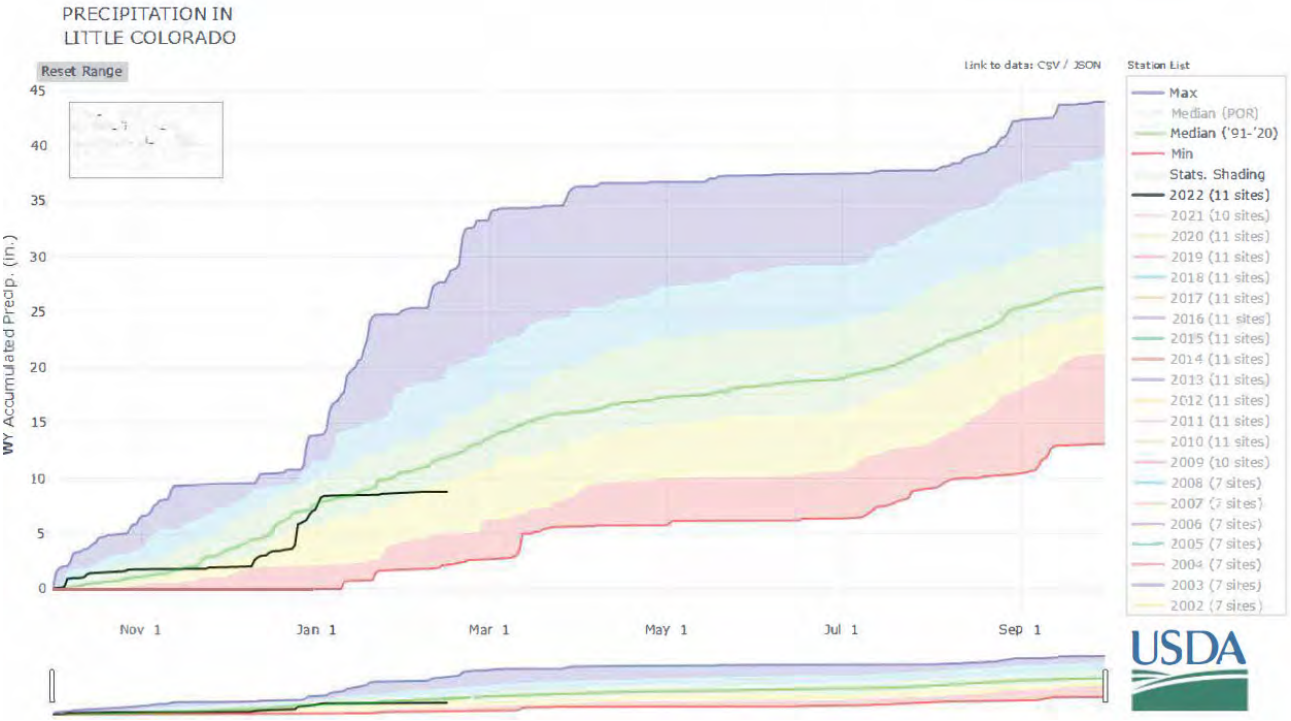
Basin Index

# of reservoirs

LITTLE COLORADO RIVER BASIN as of February 1, 2022

Below median streamflow levels are forecast for the basin. In the Little Colorado River, above Lyman Lake, the forecast calls for 76% of median streamflow through June. At Blue Ridge (C.C. Cragin) Reservoir, inflow to the lake is forecast at 80% of median through May. Snow survey measurements show the snowpack for this basin to be at 96% of median.





Data Current As of: 2/4/2022 8:55:26 AM

Little Colorado
Streamflow Forecasts - February 1, 2022

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)
Little Colorado R ab Lyman Lake	FEB-JUN	1.7	3	4.2	76%	5.7	8.4	5.5
Blue Ridge Reservoir Inflow	FEB-MAY	2	5.4	9	80%	14	24	11.3
Rio Nutria nr Ramah	FEB-MAY	0.02	0.23	0.6	94%	1.24	2.8	0.64
Zuni R ab Black Rock Reservoir	FEB-MAY	0	0	0.1	100%	0.53	2.3	0.1
Lake Mary Reservoir Inflow	FEB-MAY	1.06	2.1	3	91%	4.2	6.5	3.3

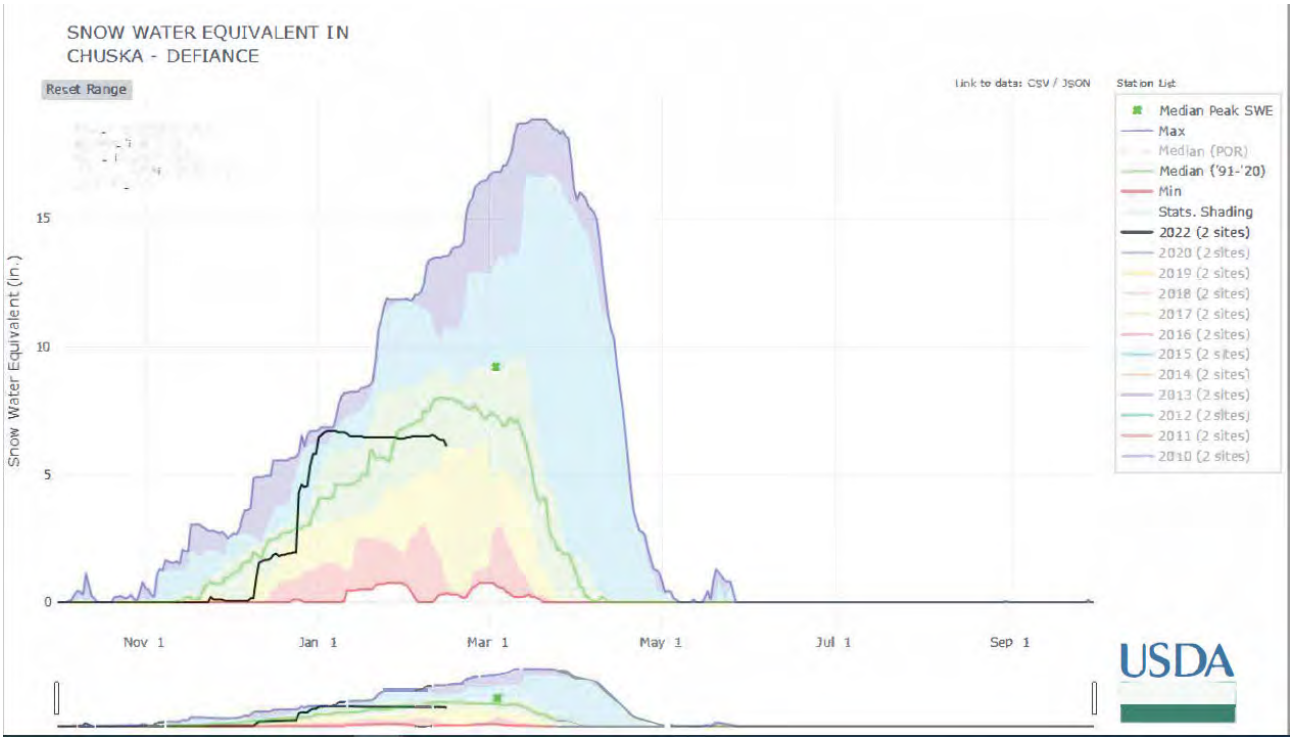
1) 90% And 10% exceedance probabilities are actually 95% And 5%
2) Forecasts are For unimpaired flows. Actual flow will be dependent On management of upstream reservoirs And diversions

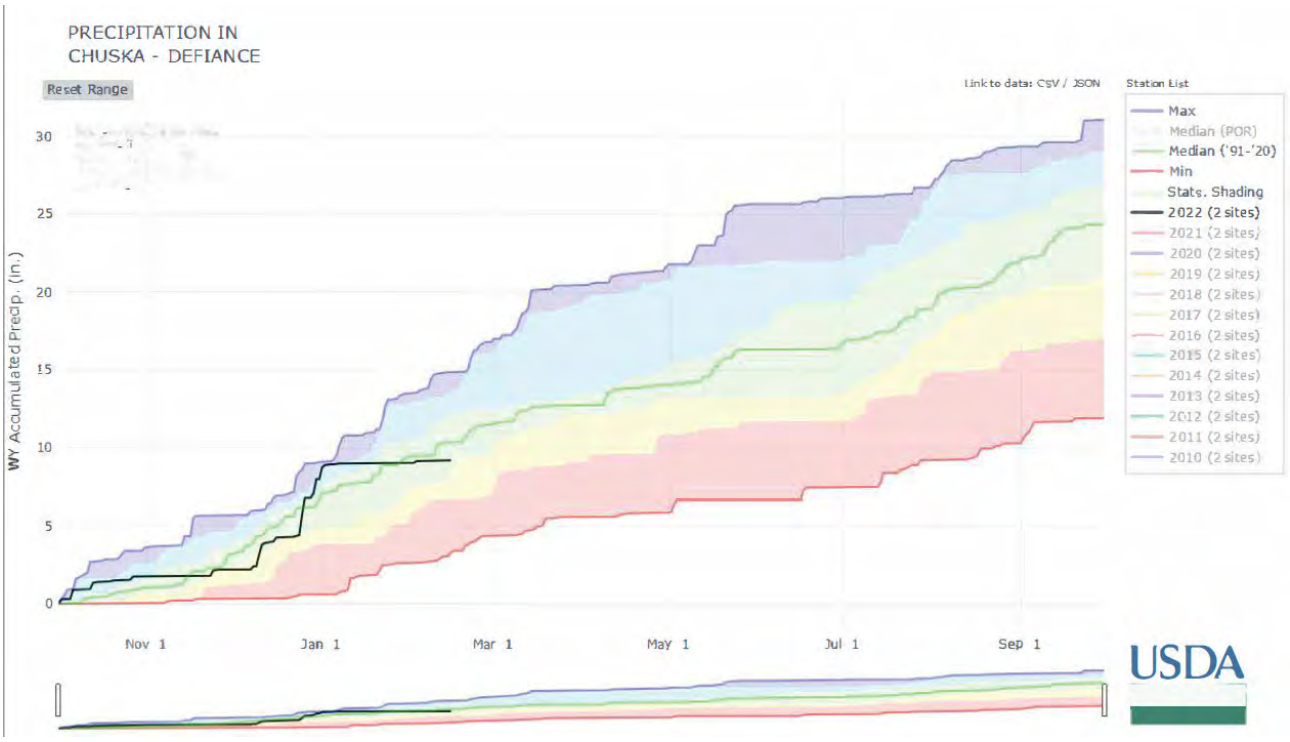
Reservoir Storage End of January, 2022	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Lyman Reservoir	4.8	7.5	7.4	30.0
Cragin Dam Reservoir	6.4	3.0	7.9	0.0
Show Low Lake				5.1

Basin Index
# of reservoirs

CHUSKA MOUNTAINS as of February 1, 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 114% of median.





Data Current As of: 2/4/2022 8:55:36 AM

Chuska - Defiance

Streamflow Forecasts - February 1, 2022

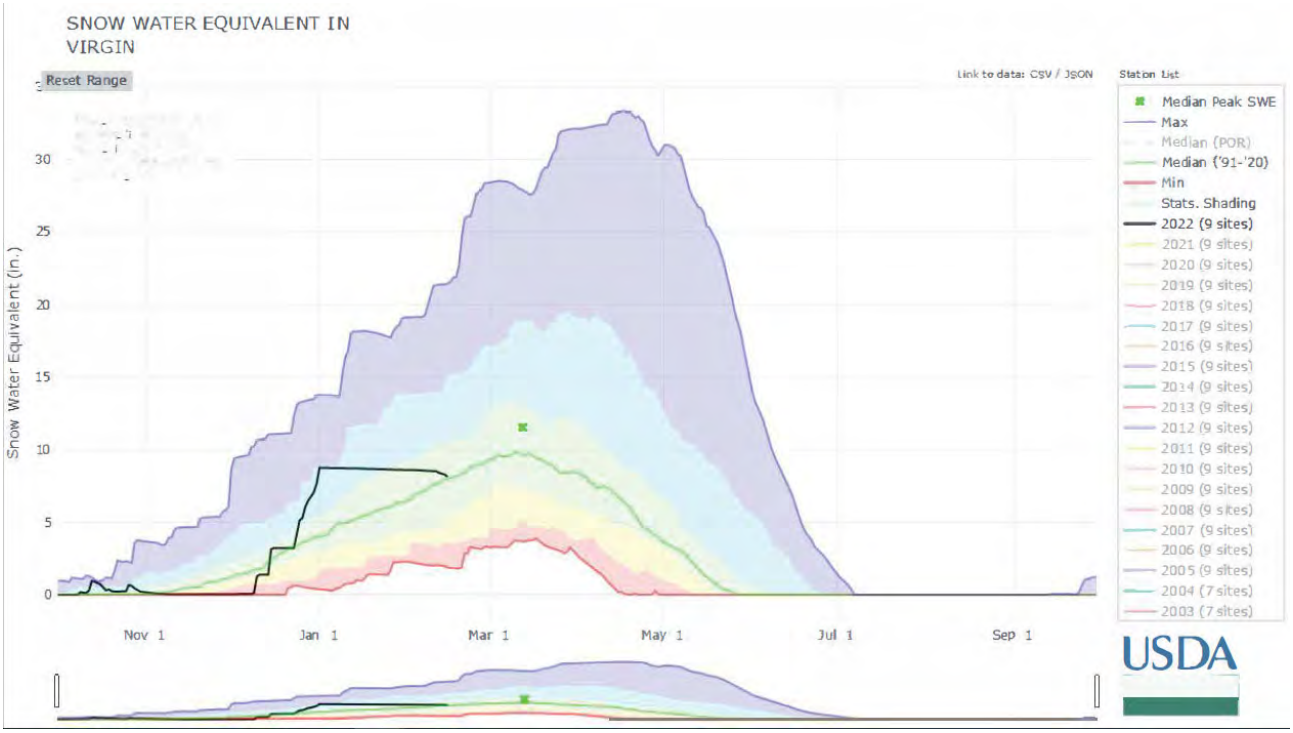
Forecast Exceedance Probabilities For Risk Assessment
Chance that actual volume will exceed forecast

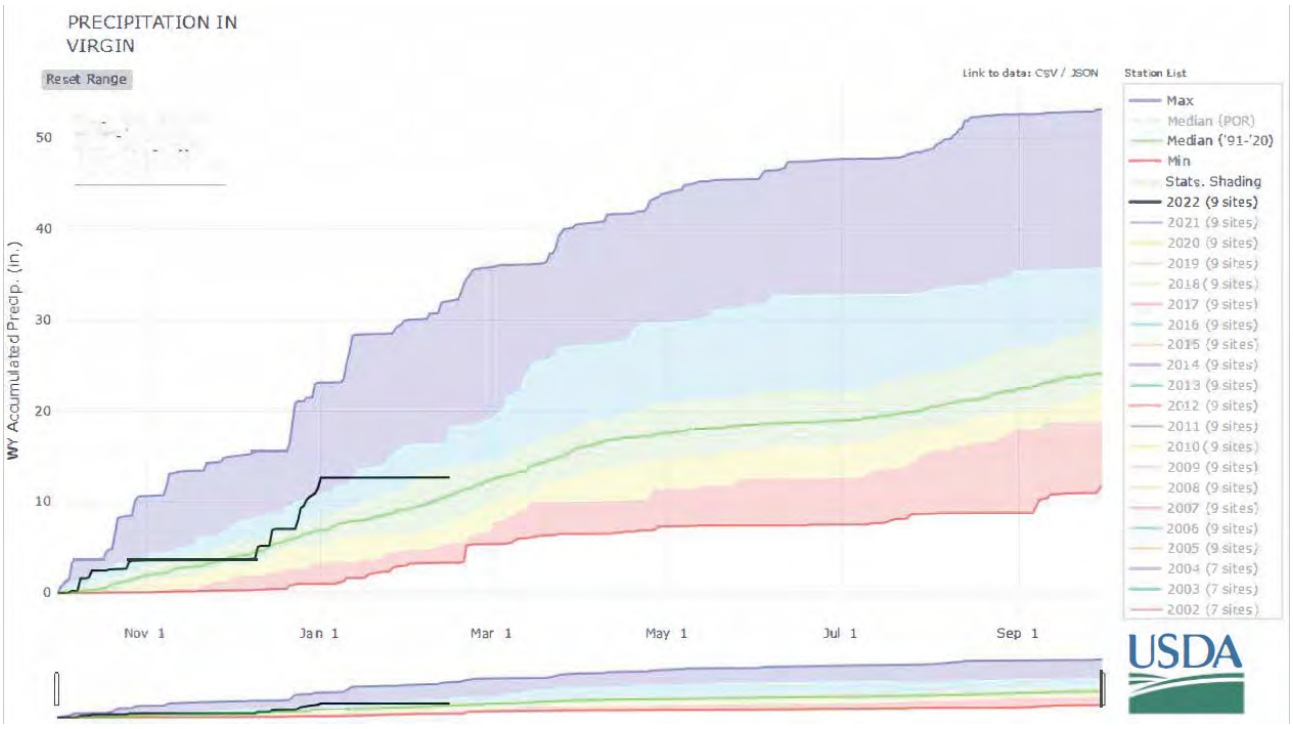
Chuska - Defiance	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Wheatfields Ck nr Wheatfields	MAR-MAY	0.16	0.53	0.9	108%	1.37	2.2	0.83
Bowl Canyon Ck ab Asaayi Lake	MAR-MAY	0.27	0.6	0.9	110%	1.26	1.9	0.82
Captain Tom Wash nr Two Gray Hills	MAR-MAY	0.02	0.26	0.7	113%	1.46	3.4	0.62

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 RIVER BASIN as of February 1, 2022

Above median streamflow levels are forecast for the basin, ranging from 117% of median in the Virgin River at Virgin, to 130% of median in the Virgin River at Littlefield. Snow survey measurements show the snowpack for this basin to be at 131% of median.





Data Current As of: 2/4/2022 8:55:47 AM

Virgin

Streamflow Forecasts - February 1, 2022

		Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						
Virgin	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Virgin R nr Hurricane	APR-JUL	1.55	18.9	40	129%	61	92	31
Virgin R at Littlefield	APR-JUL	2.3	19.5	43	130%	66	101	33
Virgin R at Virgin	APR-JUL	18.2	31	42	117%	54	76	36
Santa Clara R nr Pine Valley	APR-JUL	1.45	2.8	4	125%	5.4	7.8	3.2

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 End of January, 2022	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Kolob Reservoir	3.0	2.7		5.6
Sand Hollow Reservoir	39.0	48.0		50.0
Gunlock	4.7	4.9	7.3	10.4
Quail Creek	24.6	24.9	30.0	40.0

Basin Index
# of reservoirs

Report Created:
2/4/2022 8:55:02 AM

Streamflow Forecast Summary: February 1, 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 nr Solomon								
	FEB			12	57%			21
	FEB-MAY	1.62	15.9	34	37%	59	108	93
Gila R bl Blue Ck nr Virden								
	FEB-MAY	0.49	7.3	16.5	31%	29	55	54
Gila R at Gila								
	FEB-MAY	4.4	9.4	14.5	33%	21	34	44
San Carlos Reservoir Inflow								
	FEB-MAY	0.18	4.6	14	24%	31	77	58
San Francisco R at Glenwood								
	FEB-MAY	1.42	4.1	7	46%	11.1	19.7	15.1
San Francisco R at Clifton								
	FEB-MAY	1.45	9.1	18	45%	30	53	40

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)
Salt R nr Roosevelt								
	FEB			24	67%			36
	FEB-MAY	54	96	135	60%	183	275	225
	MAR-MAY	39	73	105	59%	145	220	179
Tonto Ck ab Gun Ck nr Roosevelt								
	FEB			4.2	66%			6.4
	FEB-MAY	2.4	8.9	17	55%	29	55	31

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)
Little Colorado R ab Lyman Lake								
	FEB-JUN	1.7	3	4.2	76%	5.7	8.4	5.5
Blue Ridge Reservoir Inflow								
	FEB-MAY	2	5.4	9	80%	14	24	11.3
Rio Nutria nr Ramah								
	FEB-MAY	0.02	0.23	0.6	94%	1.24	2.8	0.64
Zuni R ab Black Rock Reservoir								
	FEB-MAY	0	0	0.1	100%	0.53	2.3	0.1
Lake Mary Reservoir Inflow								
	FEB-MAY	1.06	2.1	3	91%	4.2	6.5	3.3

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

		Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						
Verde	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Verde R bl Tangle Ck ab Horseshoe Dam								
	FEB			20	74%			27
	FEB-MAY	21	48	75	65%	111	183	115

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						
Chuska - Defiance	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Wheatfields Ck nr Wheatfields								
	MAR-MAY	0.16	0.53	0.9	108%	1.37	2.2	0.83
Bowl Canyon Ck ab Asaayi Lake								
	MAR-MAY	0.27	0.6	0.9	110%	1.26	1.9	0.82
Captain Tom Wash nr Two Gray Hills								
	MAR-MAY	0.02	0.26	0.7	113%	1.46	3.4	0.62

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						
Grand Canyon	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Lake Powell Inflow [2]								
	APR-JUL	2850	4210	5290	86%	6490	8480	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

		Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						
Virgin	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Virgin R nr Hurricane								
	APR-JUL	1.55	18.9	40	129%	61	92	31
Virgin R at Littlefield								
	APR-JUL	2.3	19.5	43	130%	66	101	33
Virgin R at Virgin								
	APR-JUL	18.2	31	42	117%	54	76	36
Santa Clara R nr Pine Valley								
	APR-JUL	1.45	2.8	4	125%	5.4	7.8	3.2

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

Report Created: 2/4/2022 8:54:57 AM

Basinwide Summary: February 1, 2022
(Medians based On 1991-2020 reference period)

Snowpack Summary For February 1, 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	2	2.6	2.2	118%	1.8	82%
Coronado Trail	SC	8350	6	1.5	1.2	125%	1.1	92%
Coronado Trail	SNOTEL	8400	1	0.3	2.4	13%	1.0	42%
Frisco Divide	SNOTEL	8000	4	1.5	2.0	75%	1.1	55%
Hannagan Meadows	SNOTEL	9020	10	5.6	7.2	78%	3.2	44%
Lookout Mountain	SNOTEL	8500	0	0.0	1.5	0%	1.5	100%
Nutrioso	SC	8500	4	1.1	0.8	138%	0.8	100%
Nutrioso	SNOTEL	8500	0	0.0	0.0		0.9	
Signal Peak	SNOTEL	8360	2	0.4	2.6	15%	1.7	65%
Silver Creek Divide	SNOTEL	9000	12	3.8	5.7	67%	4.1	72%
State Line	SC	8000			1.6			
Basin Index						**66%**		**67%**
# of sites						10		10

Salt	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Baldy	SNOTEL	9125	17	4.1	5.5	75%	1.9	35%
Beaver Head	SNOTEL	7990	2	2.6	2.2	118%	1.8	82%
Buck Spring	SC	7400	3	1.0	1.4	71%	2.4	171%
Coronado Trail	SC	8350	6	1.5	1.2	125%	1.1	92%
Coronado Trail	SNOTEL	8400	1	0.3	2.4	13%	1.0	42%
Fort Apache	SC	9160	19	4.8	6.6	73%	2.6	39%
Hannagan Meadows	SNOTEL	9020	10	5.6	7.2	78%	3.2	44%
Hawley Lake	SNOTEL	8300	29	8.0			5.1	
Heber	SNOTEL	7640	10	3.4	4.1	83%	4.4	107%
Maverick Fork	SNOTEL	9200	18	5.1	6.0	85%	1.6	27%
Promontory	SNOTEL	7930	17	6.2	7.2	86%	6.8	94%
Wildcat	SNOTEL	7850	7	2.0	2.4	83%	1.5	63%
Workman Creek	SNOTEL	6900	0	0.0	4.0	0%	5.1	128%
Basin Index						**73%**		**67%**
# of sites						12		12

Little Colorado	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Baker Butte	SNOTEL	7300	5	2.2	3.2	69%	5.4	169%
Baker Butte No. 2	SC	7700	15	4.0	6.5	62%	6.6	102%
Baker Butte Smt	SNOTEL	7700	16	5.5	7.2	76%	8.4	117%
Baldy	SNOTEL	9125	17	4.1	5.5	75%	1.9	35%
Boon	SC	8140	16	4.4	2.8	157%	2.2	79%
Buck Spring	SC	7400	3	1.0	1.4	71%	2.4	171%
Cheese Springs	SC	8700	14	3.4	3.9	87%	2.1	54%
Dan Valley	SC	7640	12	2.4	2.0	120%	1.2	60%
Fort Apache	SC	9160	19	4.8	6.6	73%	2.6	39%
Fort Valley	SC	7350	6	2.1	0.8	263%	3.1	388%
Fort Valley	SNOTEL	7350	1	0.5	0.2	250%	2.6	1300%
Heber	SNOTEL	7640	10	3.4	4.1	83%	4.4	107%
Lake Mary	SC	6930	6	1.8	2.2	82%	3.0	136%
Maverick Fork	SNOTEL	9200	18	5.1	6.0	85%	1.6	27%
Mcgaffey	SC	8120	9	2.4	1.2	200%	1.2	100%

Mormon Mountain	SNOTEL	7500	16	4.7	3.3	142%	5.5	167%
Mormon Mountain Summit #2	SC	8470	28	8.6	8.3	104%	7.0	84%
Mormon Mtn Summit	SNOTEL	8500	22	6.7	6.2	108%	5.2	84%
Nutrioso	SC	8500	4	1.1	0.8	138%	0.8	100%
Nutrioso	SNOTEL	8500	0	0.0	0.0		0.9	
Promontory	SNOTEL	7930	17	6.2	7.2	86%	6.8	94%
Snow Bowl #2	SC	11200	36	7.6	9.8	78%	7.2	73%
Snowslide Canyon	SNOTEL	9730	28	13.2	9.6	138%	9.8	102%
Basin Index						**96%**		**93%**
# of sites						23		23

Verde	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Baker Butte	SNOTEL	7300	5	2.2	3.2	69%	5.4	169%
Baker Butte No. 2	SC	7700	15	4.0	6.5	62%	6.6	102%
Baker Butte Smt	SNOTEL	7700	16	5.5	7.2	76%	8.4	117%
Bar M	SNOTEL	6393	1	0.7			3.9	
Chalender	SNOTEL	7100	4	2.5	2.9	86%	2.9	100%
Chalender	SC	7100	0	0.0	1.1	0%		
Fort Valley	SC	7350	6	2.1	0.8	263%	3.1	388%
Fort Valley	SNOTEL	7350	1	0.5	0.2	250%	2.6	1300%
Fry	SNOTEL	7200	14	4.8	4.6	104%	5.2	113%
Happy Jack	SC	7630	10	3.1	2.8	111%	4.2	150%
Happy Jack	SNOTEL	7630	14	5.6	4.1	137%	5.9	144%
Mormon Mountain	SNOTEL	7500	16	4.7	3.3	142%	5.5	167%
Mormon Mountain Summit #2	SC	8470	28	8.6	8.3	104%	7.0	84%
Mormon Mtn Summit	SNOTEL	8500	22	6.7	6.2	108%	5.2	84%
Newman Park	SC	6750	5	2.0	1.4	143%	4.6	329%
Snow Bowl #2	SC	11200	36	7.6	9.8	78%	7.2	73%
White Horse Lake	SNOTEL	7180	3	2.6	2.2	118%	4.5	205%
Williams Ski Run	SC	7720			5.0			
Basin Index						**98%**		**123%**
# 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	24	7.8	7.7	101%		
Beaver Spring	SNOTEL	9200	21	6.4	6.9	93%	4.3	62%
Bowl Canyon	SC	8980	23	6.6	6.0	110%	3.4	57%
Fluted Rock	SC	7800	12	3.0	2.2	136%	2.2	100%
Hidden Valley	SC	8480	22	7.4	5.2	142%	2.8	54%
Missionary Spring	SC	7940	11	3.0	2.8	107%	1.3	46%
Navajo Whiskey Ck	SNOTEL	9050	21	6.5	6.8	96%		
Tsaile Canyon #1	SC	8160	19	6.6	5.0	132%		
Tsaile Canyon #3	SC	8920	25	7.4	6.6	112%		
Whiskey Creek	SC	9050	30	10.4	6.6	158%		
Basin Index						**114%**		**61%**
# of sites						5		5

Grand Canyon	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Bright Angel	SC	8400	23	7.0	5.3	132%	3.0	57%
Grand Canyon	SC	7500	5	1.5	1.5	100%	1.6	107%
Basin Index						**125%**		**68%**

	# of sites					2		2

Virgin	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Gardner Peak	SNOTEL	8322	25	8.0	7.8	103%	4.9	63%
Gutz Peak	SNOTEL	6763	29	10.8	6.0	180%	4.6	77%
Harris Flat	SNOTEL	7792	25	7.7	4.0	193%	2.7	68%
Kolob	SNOTEL	9263	41	13.1	11.4	115%	8.4	74%
Little Grassy	SNOTEL	6065	14	5.1	1.8	283%	2.9	161%
Long Flat	SNOTEL	7982	19	6.5	4.4	148%	3.0	68%
Long Valley Jct	SNOTEL	7465	20	5.8	3.0	193%	2.3	77%
Midway Valley	SNOTEL	9827	41	11.2	12.8	88%	8.7	68%
Webster Flat	SNOTEL	9203	27	8.3	7.4	112%	5.5	74%
Basin Index						**131%**		**73%**
# of sites						9		9