New Mexico
Water Supply Outlook Report
April 1, 2023

Jaz Ammon, NRCS New Mexico Water Supply Specialist, performs a Snow Pillow assessment at the Taos Pueblo SNOTEL station in the Sangre de Cristo Mountains on March 21st, 2023. Snow Water Equivalent [SWE] at this site measured 34% higher than the previous year's April 1 total. NRCS Photo: Mike Ardison

Basin Outlook Reports

and

Federal - State - Private Cooperative Snow Surveys

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https://www.nrcs.usda.gov/conservation-basics/conservation-by-state/new-mexico/new-mexico-snow-survey

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How forecasts are made

Most of the annual streamflow in the western United States 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 SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge 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 others can be interpreted similarly.

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 if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount). By using the exceedance probability information, users can easily determine the chances of receiving more or less water than predicted in the forecast.

April 1, 2023, Summary

March was an anomalously snowy month across nearly all the mountainous regions in New Mexico, leading one NRCS Forecast Hydrologist to describe the month as a “bonanza” for productive winter storms. Several SNOTEL stations have broken daily Snow Water Equivalent [SWE] records since their installation, mostly west of and along the Continental Divide in the Chuska, and Zuni and Northern Jemez Ranges. These robust statewide increases in both SWE and total precipitation during March continue to paint an optimistic water supply picture for New Mexico’s major river basins for this water year. Many lower elevation and more southerly survey points still held a considerable amount of snow on April 1st when they would typically be close to or completely snow-free. This remarkable snowfall has substantially improved the outlook for snowmelt translating into observed streamflow during the spring runoff period compared to calculations produced last month. When compared against April 2022 observations, the snowpack and overall water supply picture are *dramatically* improved as New Mexico moves into the growing season. Generally robust fall baseflows coupled with reduced soil moisture deficits going into winter should combine with these improved snow totals to translate into higher runoff efficiencies than those of the past several years. Many factors influencing how the melt season unfolds (such as dust on snow events as seen in widespread areas across the southwest last year or rain on snow occurrence) may still have a substantial impact on spring and summer runoff cycles, particularly in the highest elevation and furthest north areas contributing to the Rio Grande and San Juan basins. Above to far above normal streamflow volumes are now likely for the primary forecast period in every aggregated New Mexico basin system including the Canadian which had not seen a comparable share of water year total precipitation relative to other regions until March. The water supply forecasts for western New Mexico reflect these conditions, with even more notable flow volumes likely along the New Mexico- Arizona state line than elsewhere in the state as streamflow in this region is likely to exceed median volumes by a considerable margin. Overall, the current water supply outlook looks positive for reducing the strain of prolonged drought throughout the state.

Logan Peterson, NRCS Soil Scientist, assembles a snow sampling kit at the Hematite Park manual snow course in the Canadian Basin on March 28th, 2023. SWE at this site measured 153% of the reference period normal for the April 1 survey cycle. NRCS Photo: Jaz Ammon

Snowpack

Many individual sites in New Mexico have exceeded recorded snowpack maximums, setting new records since their establishment while contributing to a robust snowpack as the state enters the spring warming and melt cycle. Basinwide April 1 Snow Water Equivalent [SWE] values were measured at near record levels in the San Juan, Canadian, and Lower Rio Grande basins. These catchment regions showed 206%, 181%, and 276% of the reference period normal water content in the snowpack, respectively (***figure 1***). Comparisons to last year by percent of reference period normal SWE for these basins are circled in green in ***figure 1*** below. By far the greatest percent increase in SWE over April 1 values in 2022 was seen in the Gila-San Francisco basin, seen accented in orange in ***figure 1***. This contrast adds up to a whopping 1,982% of median increase over last year's meager April 1 snowpack in the Gila- San Francisco (***figure 2***). This dramatic statistical increase in the Gila- San Francisco dwarfs the percent increase in SWE seen in the Lower Rio Grande (up 194% of normal from last year) and the San Juan (which by increased 106% of normal over last year), as shown in ***figure 2***. While the snowpack numbers for the Gila- San Francisco are impressive this month, this a generally low snow volume aggregated basin and the total water content in the deeper snowpack further north will account for a larger

portion of New Mexico's total water supply. **All** New Mexico forecast basins showed well above normal snowpack on April 1. This presents an interesting comparison to the abnormally dry conditions observed during the April 1 survey cycle last year.

A complicating factor in statistical comparison from year to year was noted this month, as several lower elevation measurement sites have exhibited a long-term median of zero inches of SWE on the April 1 survey cycle. A good example of this anomaly was seen in the Zuni Mountains, where significant snow was measured at both Rice Park SNOTEL and the localized manual snow courses this month. When the long- term normal is zero inches of SWE, a percent of normal cannot be calculated. While automated tools such as the NRCS interactive climate map will not display a representative value for the entire basin for percent of normal under these circumstances, a closer look at individual measurement sites can more accurately portray the abnormally high SWE value present at the site this month. In truth, with a long-term normal of zero, *any* observed SWE value would be abnormally high for this time of year. ***Figure 3*** has been included below to illustrate this phenomenon for the Rice Park SNOTEL site, from which SWE and precipitation data are used to compile forecasts for the Zuni- Bluewater basin. More detailed reporting of conditions within each basin where NRCS SWE measurements are recorded in New Mexico can be viewed in the attached basinwide Snowpack Summary. New for this month, plots have been included after each basin's Water Supply Outlook table to illustrate how this year's SWE values compare to the period of record within the basin. These basinwide plots can be interpreted in the same manner as ***figure 3***. Users are encouraged to explore the NRCS Water and Climate Center's Interactive Map, to access these plots, and to explore the associated input data. Map controls will need to be set to the appropriate New Mexico Basin Parameters to replicate the plots seen in this report by clicking on the corresponding forecast basin. This online tool can be found here[1] and individual web addresses for the included basinwide SWE plots will be included after each graphic provided later in this report.

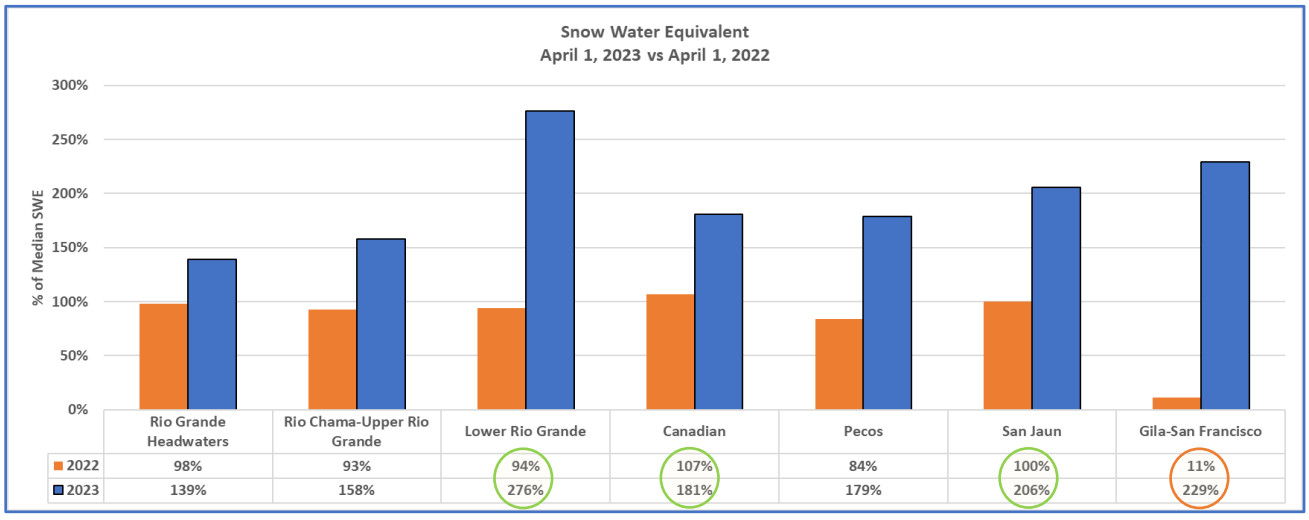


figure 1: *Percent of reference period normal Snow Water Equivalent by basin for April 1, 2023, compared to last year.*

[1] *https://www.nrcs.usda.gov/wps/portal/wcc/home/quicklinks/imap*

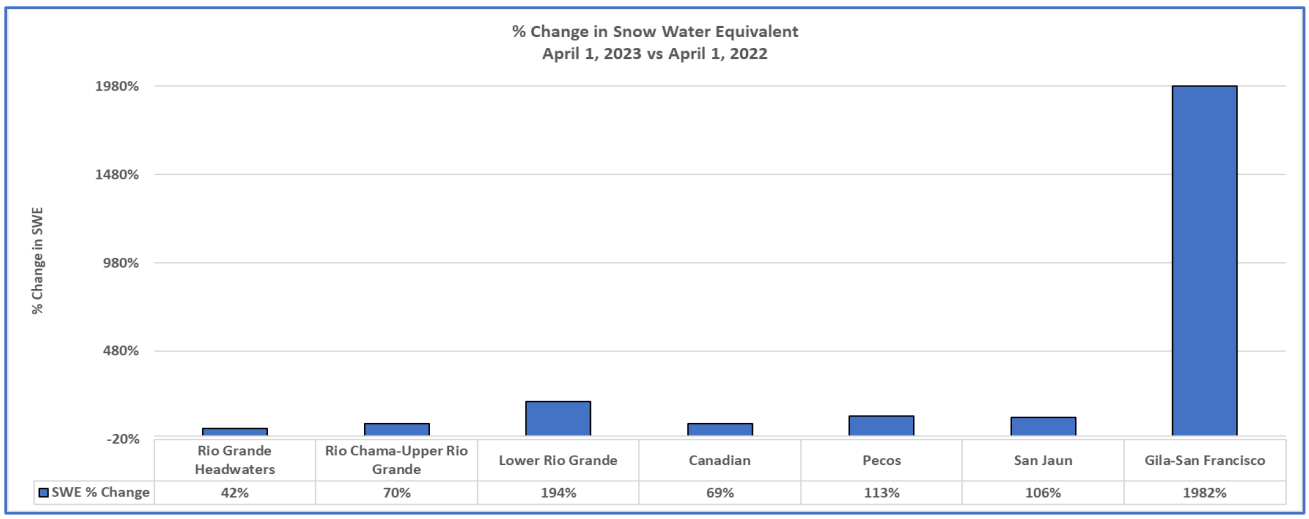


figure 2: *Percent change in reference period normal Snow Water Equivalent between April 1, 2022, and April 1, 2023.*

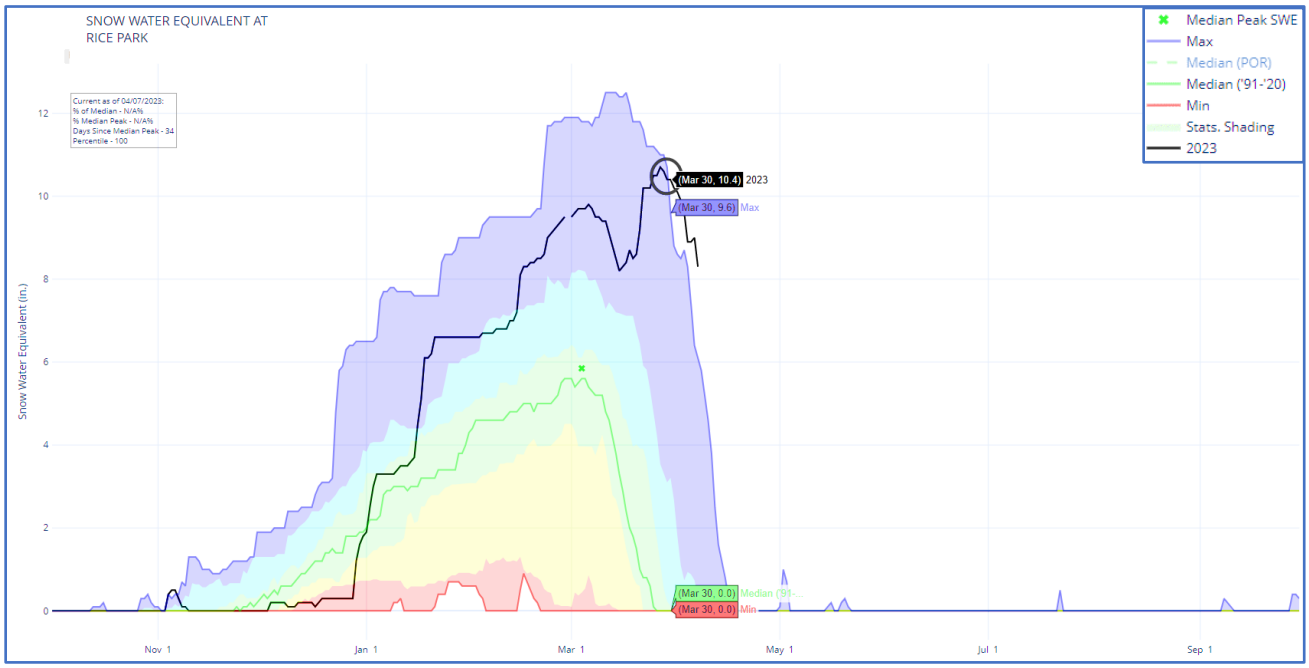


figure 3: *This plot shows inclusive Snow Water Equivalent trends throughout the Water Year (October 1 through September 30) for the Rice Park SNOTEL Station in the Zuni Mountains. The solid green line on this plot shows median SWE values at Rice Park SNOTEL in the Zuni-Bluewater Basin have dropped to zero by March 26th throughout the reference period (1991-2020). The 10.4 inches of SWE recorded at the site on March 30th, illustrated by the circled portion of the plot, represents the highest SWE value recorded for that date and each additional date in 2023 for which the black line exceeds the purple line indicating the previous Maximum recorded value. Users accessing this report electronically can explore this plot here[2]*

[2] https://www.nrcs.usda.gov/Internet/WCIS/AWS_PLOTS/siteCharts/POR/WTEQ/NM/Rice%20Park.html

Precipitation

Total precipitation as both rain and frozen water throughout March continued to paint an optimistic picture for New Mexico's water supply. Basinwide water year-to-date precipitation reached near-record levels in late March in the Lower Rio Grande, San Juan, and Pecos basins. Percent of reference period normal water year-to-date precipitation for April 1 can be seen in ***figure 4***. The greatest increase over last year's total precipitation for the April 1 reporting period occurred in the Lower Rio Grande, Gila- San Francisco, and Pecos basins, as outlined in ***figure 5***. While San Juan Basin precipitation has been well above normal this year, relatively higher totals across the basin last year reduce the year-to-year contrast when compared to basins which experienced drier conditions early in water year 2022. **All** New Mexico basins are currently reporting above to well above reference period normal total precipitation for water year 2023. The western and southern extents of the state show relatively higher percent of normal precipitation when compared to the northern and eastern New Mexico basins. The remaining reported basins are all showing strong increases in overall precipitation to date when compared to values measured in water year 2022 through April 1 (***figure 5***). The smallest percent change from last year has occurred in the Rio Grande Headwaters basin with a gain of 28% of median, due to the relatively wetter water year 2022 in southern Colorado than was seen throughout New Mexico (***figure 5***). Specific recorded totals for each New Mexico sub-basin can be seen in the tables included in the Basinwide Precipitation Summary below. Due to some measurement anomalies affecting precipitation gages in colder locations throughout the forecast region, plots showing current precipitation compared to the period of record for each basin (similar to the included SWE plots) are not included in this report. The map graphic for percent of normal water year-to-date precipitation shows the Zuni watershed alone, while ***figure 4*** and ***figure 5*** include the Zuni and Bluewater basins as contributing to totals reported for the larger San Juan and Lower Rio Grande basins, respectively.

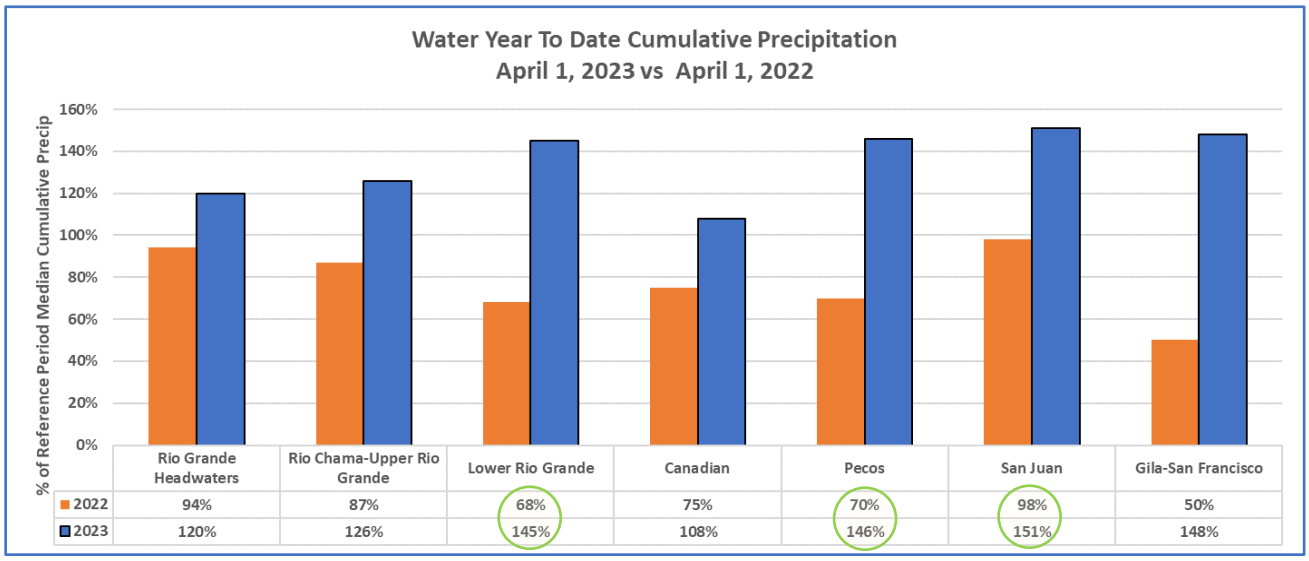


figure 4: *Percent of reference period normal basinwide water year-to-date total precipitation for April 1, 2023, compared to last year.*

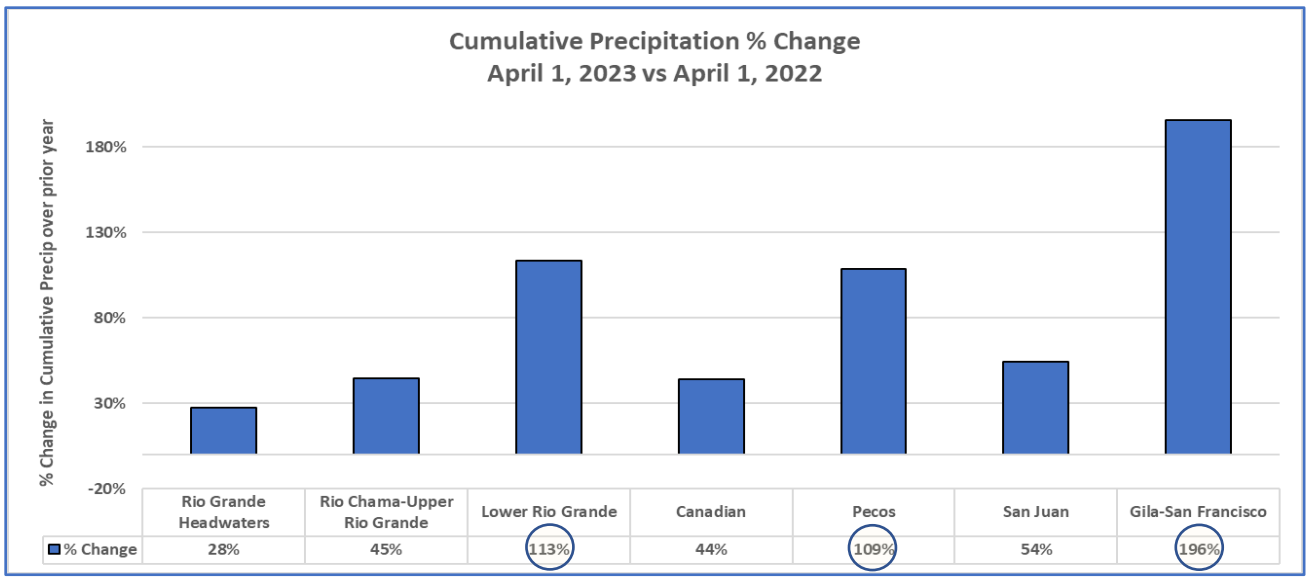


figure 5: *Percent change in reference period normal water year-to-date precipitation between April 1, 2022, and April 1, 2023.*

Reservoirs

New Mexico reservoir systems showed complete reporting for April 1, an improvement in data availability compared to last month. All reservoir storage systems with NRCS reporting are showing increased storage levels compared to last year (***table 1***; ***figures 6 & 7***). The Rio Grande Headwaters catchment has seen the greatest increase in total storage since last year, with a 46% increase over April 1 volumes in 2022 (***figure 7***). With significant snowpack remaining in the higher elevations throughout the contributing area in all major forecast basins, reservoir volumes can be expected to increase throughout April as runoff is captured during the melt period. Water-users are encouraged to continue monitoring reservoir management decisions and cumulative conditions to evaluate water use plans as the water year progresses and reservoir volumes vary due to management priorities. Further detail on the status of specific reservoirs in each major basin can be found in the attached Reservoir Storage Summary tables. An absent value in the table (as seen for La Jara Reservoir in the Rio Grande Headwaters and Lake Avalon in the Pecos system) represents data that have not been made available to the NRCS at the time of reporting.

table 1:

Basinwide Summary: April 1, 2023 (Medians based on 1991-2020 reference period)	Reservoir Storage Summary End of March, 2023				
	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Rio Grande Headwaters	**28%**	**25%**	**26%**	**105%**	**95%**
Rio Chama-Upper Rio Grande	**9%**	**8%**	**28%**	**31%**	**28%**
Lower Rio Grande	**14%**	**10%**	**22%**	**67%**	**46%**
Canadian	**17%**	**16%**	**52%**	**32%**	**31%**
Pecos	**5%**	**4%**	**8%**	**67%**	**57%**
San Juan	**53%**	**49%**	**75%**	**70%**	**65%**

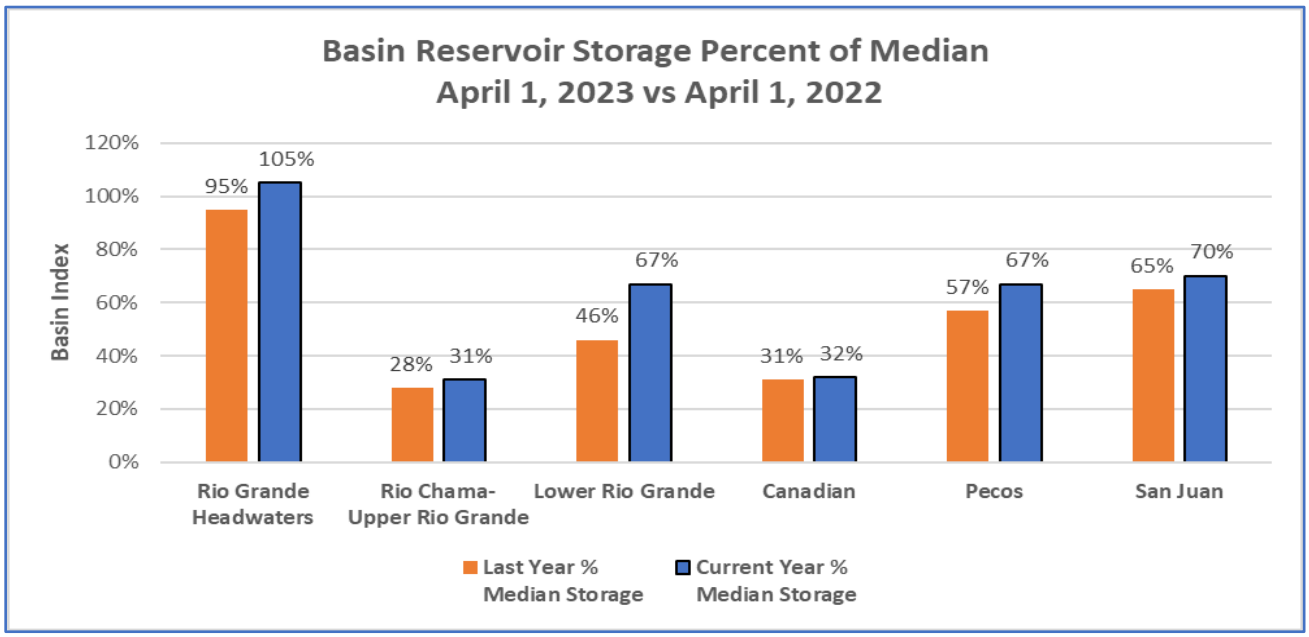


figure 6: *Percent of reference period normal reservoir storage for April 1, 2023, compared to last year.*

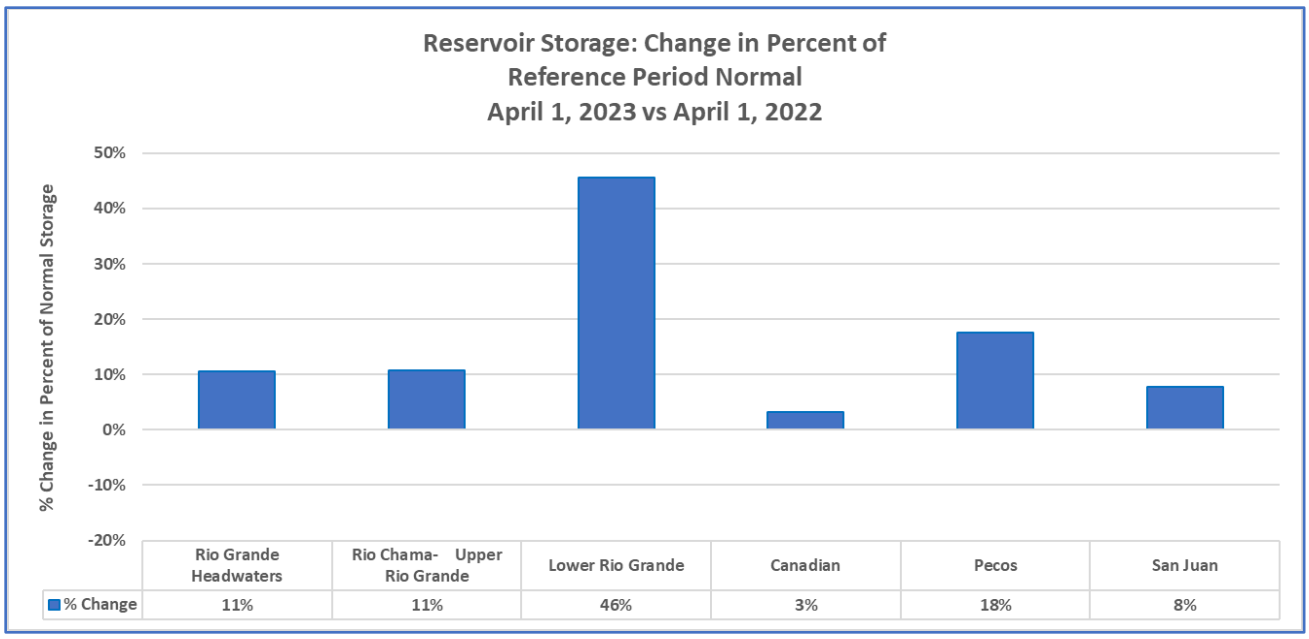


figure 7: *Percent change in reference period normal reservoir storage between April 1, 2022, and April 1, 2023.*

Streamflow

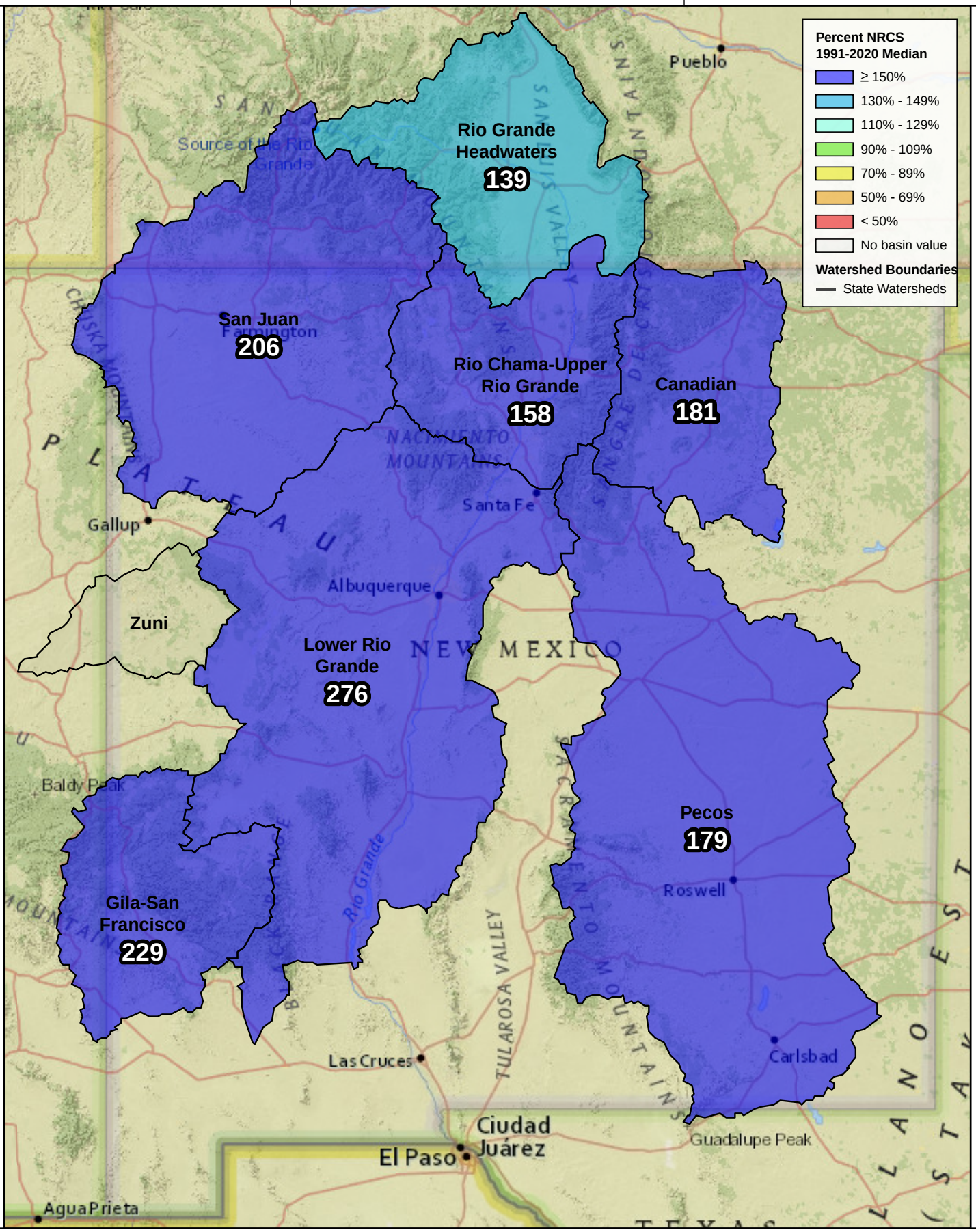
March 2023 observed streamflow volumes were notably high in the Zuni, Gila-San Francisco, and Pecos basins. While these are relatively low-volume systems, the Rio Nutria near Ramah and the San Francisco River at Glenwood stand out for significantly above normal March observed streamflow, reflected in the basinwide statistics and in forecasted volumes shown in the attached table. The Pecos basin saw significantly higher than normal March flows in the Rio Ruidoso at Hollywood. While the Rio Chama- Upper Rio Grande and the Lower Rio Grande basins in New Mexico reached slightly below normal March flow volumes, the San Juan, Rio Grande Headwaters, and Canadian basins saw flows well below the reference period normal. With cold temperatures in the higher elevations throughout March across the northern extent of the New Mexico forecast region, forecasted flows likely provide a clearer picture for expected spring water supply totals in these areas than that obtained from March observed volumes alone.

The increased skill of streamflow forecasts included in this month's report allows these forecast volumes to provide operational value in water use zones throughout the state. Again, the lower volume Zuni River system contributing to the Little Colorado in Arizona stands out, with primary period flows forecast to be orders of magnitude higher than normal. This can be seen in the forecast summary map graphic as well as the forecast tables included later in this report. The Lower Rio Grande basin in New Mexico also is expected to see significantly higher than normal streamflow volumes, along with well above normal flows expected on the basin scale in every forecast system across the state. Spring weather events and other factors will make this season an interesting one to track as we move through the forecast period and begin to account for observed values at each gaging station throughout the state.

There is some concern regarding the potential for increased overall flow volumes and possible flood occurrence in several New Mexico basins following large scale land cover alteration from extensive wildfire activity in 2022. The forecast basins most impacted by these fires are the Pecos, Canadian, and parts of the Mimbres and Gila-San Francisco. Gallinas Creek in the Pecos basin is one watershed to monitor closely, as fire impacts were extensive in the upper reaches of the catchment area. To illustrate this concern, the April through July Forecast Period 50% exceedance probability forecast for Gallinas Creek near Montezuma is 215% of reference period normal, as seen in the forecast tables included below. The snowmelt processes on which NRCS streamflow forecasting computations are focused will play a role in soil moisture, baseflow conditions, and overall water volumes observed at a given forecast point. The type of damaging flood events most frequently observed in the Southwestern U.S. tend to follow high intensity short duration storm cycles, dramatic increases in air temperature during snow melt, or rain on snow events. Predicting the timing and extent of such weather occurrences is a strength of some partner agencies but lies beyond the scope of NRCS Snow Survey and Water Supply Forecasting products. To mitigate flood risk in sensitive areas, users are encouraged to reference the 5% exceedance probability flow volumes included below in the Streamflow Forecast Summary for April 1, 2023. These values at each forecast point provide a forecasted high volume which is least statistically likely to occur at a given forecast point and therefore may provide conservative guidance for planning purposes to account for extreme runoff events. The percent median values reported in the Forecast Summary are for the 50% exceedance probability streamflow volumes, which are most statistically likely to occur during the snowmelt and runoff period covered by an NRCS forecast. Points lying directly downstream of extensively burned portions of a watershed may see increased volumes during the snowmelt cycle compared to pre-fire conditions, particularly in basins exhibiting above normal peak SWE accumulation.

Bare manual snow course at Ojo Redondo in the Zuni Mountains on March 25, 2022 (left). Image on the right is from the same location on March 31, 2023. NRCS Photos: Jaz Ammon

Snow Water Equivalent	New Mexico Basinwide Snowpack Summary Percent NRCS 1991-2020 Median	End of March, 2023



USDA Natural Resources Conservation Service
United States Department of Agriculture

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Created 4-10-2023

Report Created: 4/6/2023

Basinwide Summary: April 1, 2023
(Medians based On 1991-2020 reference period)

Snowpack Summary For April 1, 2023

Canadian	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Aztec #2	SC	9880			3.1			
Hematite Park	SC	9500	19	5.2	3.4	153%	4.1	121%
North Costilla	SNOTEL	10598	26	6.4	4.7	136%	2.7	57%
Palo	SC	9300	33	9.5	6.2	153%	4.2	68%
Palo	SNOTEL	9343		8.2	0.0		2.3	
Red River Pass #2	SNOTEL	9855	20	6.9	6.4	108%	5.0	78%
Shuree	SNOTEL	10092	17	5.3	1.6	331%	4.7	294%
Taos Canyon	SC	9100	16	3.4	3.2	106%	3.6	113%
Tolby	SNOTEL	10220	35	10.9	3.5	311%	7.2	206%
Wesner Springs	SNOTEL	11151	53	17.6	11.5	153%	9.5	83%
Basin Index						**181%**		**107%**
# of sites						9		9

Canadian Headwaters	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Aztec #2	SC	9880			3.1			
Hematite Park	SC	9500	19	5.2	3.4	153%	4.1	121%
North Costilla	SNOTEL	10598	26	6.4	4.7	136%	2.7	57%
Palo	SC	9300	33	9.5	6.2	153%	4.2	68%
Palo	SNOTEL	9343		8.2	0.0		2.3	
Red River Pass #2	SNOTEL	9855	20	6.9	6.4	108%	5.0	78%
Shuree	SNOTEL	10092	17	5.3	1.6	331%	4.7	294%
Taos Canyon	SC	9100	16	3.4	3.2	106%	3.6	113%
Tolby	SNOTEL	10220	35	10.9	3.5	311%	7.2	206%
Basin Index						**192%**		**117%**
# of sites						8		8

Gila-San Francisco	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beaver Head	SNOTEL	8076	0	0.0	0.0		0.0	
Coronado Trail	SNOTEL	8418	0	0.0	0.0		0.0	
Coronado Trail	SC	8350	0	0.0	0.0		0.0	
Frisco Divide	SNOTEL	8013	0	0.0	0.0		0.0	
Hannagan Meadows	SNOTEL	9027	24	9.8	3.0	327%	0.4	13%
Lookout Mountain	SNOTEL	8509	0	0.0	0.0		0.0	
Nutrioso	SC	8500	0	0.0	0.0		0.0	
Nutrioso	SNOTEL	8571	0	0.0	0.0		0.0	
Signal Peak	SNOTEL	8405	0	0.0	0.0		0.1	
Silver Creek Divide	SNOTEL	9096	16	6.7	4.2	160%	0.3	7%
State Line	SC	8000			0.0			
Basin Index						**229%**		**11%**
# of sites						10		10

San Francisco	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beaver Head	SNOTEL	8076	0	0.0	0.0		0.0	
Coronado Trail	SNOTEL	8418	0	0.0	0.0		0.0	
Coronado Trail	SC	8350	0	0.0	0.0		0.0	
Frisco Divide	SNOTEL	8013	0	0.0	0.0		0.0	
Hannagan Meadows	SNOTEL	9027	24	9.8	3.0	327%	0.4	13%
Nutrioso	SC	8500	0	0.0	0.0		0.0	
Nutrioso	SNOTEL	8571	0	0.0	0.0		0.0	
Silver Creek Divide	SNOTEL	9096	16	6.7	4.2	160%	0.3	7%
State Line	SC	8000			0.0			
Basin Index						**229%**		**10%**
# of sites						8		8

Upper Gila	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Lookout Mountain	SNOTEL	8509	0	0.0	0.0		0.0	
Signal Peak	SNOTEL	8405	0	0.0	0.0		0.1	
Silver Creek Divide	SNOTEL	9096	16	6.7	4.2	160%	0.3	7%
Basin Index						**160%**		**10%**
# of sites						3		3

Lower Rio Grande	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Boon	SC	8140	23	7.7	0.0		1.8	
Elk Cabin	SNOTEL	8239	5	2.3	0.0		0.4	
Garita Peak	SNOTEL	10115	44	13.0			3.5	
Lookout Mountain	SNOTEL	8509	0	0.0	0.0		0.0	
Mcknight Cabin	SNOTEL	9242	1	0.3	0.0		0.0	
Ojo Redondo	SC	8200	8	2.2	0.0		0.0	
Quemazon	SNOTEL	9507	20	7.8	3.8	205%	1.2	32%
Rice Park	SNOTEL	8497	26	10.1	0.0		0.0	
Rio En Medio	SC	10300	36	10.6	6.2	171%	2.7	44%
Santa Fe	SNOTEL	11465	65	20.0	13.4	149%	12.0	90%
Senorita Divide #2	SNOTEL	8569	39	12.0	5.0	240%	4.7	94%
Signal Peak	SNOTEL	8405	0	0.0	0.0		0.1	
Vacas Locas	SNOTEL	9364	54	16.5	4.0	413%	7.4	185%
Basin Index						**276%**		**94%**
# of sites						12		12

Jemez	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Garita Peak	SNOTEL	10115	44	13.0			3.5	
Quemazon	SNOTEL	9507	20	7.8	3.8	205%	1.2	32%
Senorita Divide #2	SNOTEL	8569	39	12.0	5.0	240%	4.7	94%
Vacas Locas	SNOTEL	9364	54	16.5	4.0	413%	7.4	185%
Basin Index						**284%**		**104%**
# of sites						3		3

Mimbres	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Mcknight Cabin	SNOTEL	9242	1	0.3	0.0		0.0	
Signal Peak	SNOTEL	8405	0	0.0	0.0		0.1	
Basin Index								
# of sites						2		2

Pecos	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Elk Cabin	SNOTEL	8239	5	2.3	0.0		0.4	
PanchueLa	SC	8400	14	4.0	0.6	667%	2.3	383%
Rio En Medio	SC	10300	36	10.6	6.2	171%	2.7	44%
Santa Fe	SNOTEL	11465	65	20.0	13.4	149%	12.0	90%
Sierra Blanca	SNOTEL	10268	9	2.9	0.4	725%	0.0	0%
Wesner Springs	SNOTEL	11151	53	17.6	11.5	153%	9.5	83%
Basin Index						**179%**		**84%**
# of sites						6		6

Pecos Headwaters	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Elk Cabin	SNOTEL	8239	5	2.3	0.0		0.4	
PanchueLa	SC	8400	14	4.0	0.6	667%	2.3	383%
Rio En Medio	SC	10300	36	10.6	6.2	171%	2.7	44%
Santa Fe	SNOTEL	11465	65	20.0	13.4	149%	12.0	90%
Wesner Springs	SNOTEL	11151	53	17.6	11.5	153%	9.5	83%
Basin Index						**172%**		**85%**
# of sites						5		5

Rio Hondo	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Sierra Blanca	SNOTEL	10268	9	2.9	0.4	725%	0.0	0%
Basin Index						**725%**		**0%**
# of sites						1		1

Rio Chama-Upper Rio Grande	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Bateman	SNOTEL	9249	49	17.5	10.0	175%	8.0	80%
Chamita	SNOTEL	8383	44	14.4	6.4	225%	6.6	103%
Cumbres Trestle	SNOTEL	10035	121	40.7	24.5	166%	26.6	109%
Elk Cabin	SNOTEL	8239	5	2.3	0.0		0.4	
Gallegos Peak	SNOTEL	9480	32	13.1	8.0	164%	8.4	105%
Garita Peak	SNOTEL	10115	44	13.0			3.5	
Hematite Park	SC	9500	19	5.2	3.4	153%	4.1	121%
Hopewell	SNOTEL	10095	69	22.1	16.2	136%	14.9	92%
North Costilla	SNOTEL	10598	26	6.4	4.7	136%	2.7	57%
Palo	SC	9300	33	9.5	6.2	153%	4.2	68%
Palo	SNOTEL	9343		8.2	0.0		2.3	
Quemazon	SNOTEL	9507	20	7.8	3.8	205%	1.2	32%
Red River Pass #2	SNOTEL	9855	20	6.9	6.4	108%	5.0	78%
Rio En Medio	SC	10300	36	10.6	6.2	171%	2.7	44%
Rio Santa Barbara	SNOTEL	10664	60	16.9			10.6	
Santa Fe	SNOTEL	11465	65	20.0	13.4	149%	12.0	90%
Shuree	SNOTEL	10092	17	5.3	1.6	331%	4.7	294%
Taos Canyon	SC	9100	16	3.4	3.2	106%	3.6	113%
Taos Powderhorn	SNOTEL	11045	76	22.2	15.8	141%	16.5	104%
Taos Powderhorn	SC	11250	91	27.2	24.2	112%	19.9	82%
Taos Pueblo	SNOTEL	11020	61	20.0			14.9	
Tres Ritos	SNOTEL	8755	3	0.8	0.0		0.0	
Basin Index						**158%**		**93%**
# of sites						19		19

Rio Chama	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Bateman	SNOTEL	9249	49	17.5	10.0	175%	8.0	80%
Chamita	SNOTEL	8383	44	14.4	6.4	225%	6.6	103%
Cumbres Trestle	SNOTEL	10035	121	40.7	24.5	166%	26.6	109%
Garita Peak	SNOTEL	10115	44	13.0			3.5	
Hopewell	SNOTEL	10095	69	22.1	16.2	136%	14.9	92%
Basin Index						**166%**		**98%**
# of sites						4		4

Upper Rio Grande	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Elk Cabin	SNOTEL	8239	5	2.3	0.0		0.4	
Gallegos Peak	SNOTEL	9480	32	13.1	8.0	164%	8.4	105%
Hematite Park	SC	9500	19	5.2	3.4	153%	4.1	121%
North Costilla	SNOTEL	10598	26	6.4	4.7	136%	2.7	57%
Palo	SC	9300	33	9.5	6.2	153%	4.2	68%
Palo	SNOTEL	9343		8.2	0.0		2.3	
Quemazon	SNOTEL	9507	20	7.8	3.8	205%	1.2	32%
Red River Pass #2	SNOTEL	9855	20	6.9	6.4	108%	5.0	78%
Rio En Medio	SC	10300	36	10.6	6.2	171%	2.7	44%
Rio Santa Barbara	SNOTEL	10664	60	16.9			10.6	
Santa Fe	SNOTEL	11465	65	20.0	13.4	149%	12.0	90%
Shuree	SNOTEL	10092	17	5.3	1.6	331%	4.7	294%
Taos Canyon	SC	9100	16	3.4	3.2	106%	3.6	113%
Taos Powderhorn	SNOTEL	11045	76	22.2	15.8	141%	16.5	104%
Taos Powderhorn	SC	11250	91	27.2	24.2	112%	19.9	82%
Taos Pueblo	SNOTEL	11020	61	20.0			14.9	
Tres Ritos	SNOTEL	8755	3	0.8	0.0		0.0	
Basin Index						**154%**		**91%**
# of sites						15		15

Rio Grande Headwaters	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beartown	SNOTEL	11600	91	31.1	20.6	151%	20.8	101%
Cochetopa Pass	SC	10000	24	4.9	5.7	86%	2.8	49%
Cochetopa Pass	SNOTEL	10061	24	5.6	4.1	137%	3.8	93%
Culebra #2	SNOTEL	10562	49	14.1	12.6	112%	9.4	75%
Cumbres Trestle	SNOTEL	10035	121	40.7	24.5	166%	26.6	109%
Grayback	SC	11600	61	17.6	13.4	131%		
Grayback	SNOTEL	11626	12	4.4			3.4	
Hayden Pass	SNOTEL	10699	28	8.0	13.0	62%	9.2	71%
La Veta Pass	SC	9440	30	7.9	7.6	104%		
Lily Pond	SNOTEL	11069	65	20.3	11.4	178%	12.6	111%
Medano Pass	SNOTEL	9668	19	5.7	0.7	814%	7.2	1029%
Middle Creek	SNOTEL	11269	75	24.7	17.8	139%	18.8	106%
Moon Pass	SNOTEL	11128	21	5.3	5.8	91%	5.3	91%
North Costilla	SNOTEL	10598	26	6.4	4.7	136%	2.7	57%
Pinos Mill	SC	10000	102	33.9	21.6	157%	23.6	109%
Platoro	SC	9880	72	21.2	12.6	168%	12.5	99%
Pool Table Mountain	SC	9840	23	5.3	4.1	129%		
Porcupine	SC	10280	42	9.8	7.0	140%		
San Antonio Sink	SC	9200			4.8		9.3	194%
San Antonio Sink	SNOTEL	9143	40	12.3			9.9	
Sargents Mesa	SNOTEL	11499	46	12.0	10.5	114%	7.5	71%
Silver Lakes	SC	9500	34	10.1	4.2	240%		
Slumgullion	SNOTEL	11560	52	13.9	13.6	102%	10.7	79%
Trinchera	SNOTEL	10922	38	10.2	10.2	100%	7.8	76%
Upper Rio Grande	SNOTEL	9379	35	10.0	4.8	208%	4.7	98%
Ute Creek	SNOTEL	10734	33	8.8	11.8	75%	10.0	85%
Wager Gulch	SNOTEL	11132	41	11.6			7.2	
Wolf Creek Summit	SNOTEL	10957	138	48.4	28.4	170%	34.2	120%
Basin Index						**139%**		**98%**
# of sites						19		19

Alamosa	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Grayback	SNOTEL	11626	12	4.4			3.4	
Grayback	SC	11600	61	17.6	13.4	131%		
Lily Pond	SNOTEL	11069	65	20.3	11.4	178%	12.6	111%
Platoro	SC	9880	72	21.2	12.6	168%	12.5	99%
Silver Lakes	SC	9500	34	10.1	4.2	240%		
Basin Index						**173%**		**105%**
# of sites						2		2

Conejos	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Cumbres Trestle	SNOTEL	10035	121	40.7	24.5	166%	26.6	109%
Lily Pond	SNOTEL	11069	65	20.3	11.4	178%	12.6	111%
Pinos Mill	SC	10000	102	33.9	21.6	157%	23.6	109%
Platoro	SC	9880	72	21.2	12.6	168%	12.5	99%
San Antonio Sink	SC	9200			4.8		9.3	194%
San Antonio Sink	SNOTEL	9143	40	12.3			9.9	
Basin Index						**166%**		**107%**
# of sites						4		4

Culebra-Trinchera	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Culebra #2	SNOTEL	10562	49	14.1	12.6	112%	9.4	75%
La Veta Pass	SC	9440	30	7.9	7.6	104%		
Trinchera	SNOTEL	10922	38	10.2	10.2	100%	7.8	76%
Ute Creek	SNOTEL	10734	33	8.8	11.8	75%	10.0	85%
Basin Index						**96%**		**79%**
# of sites						3		3

Headwaters Rio Grande	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beartown	SNOTEL	11600	91	31.1	20.6	151%	20.8	101%
Grayback	SNOTEL	11626	12	4.4			3.4	
Grayback	SC	11600	61	17.6	13.4	131%		
Middle Creek	SNOTEL	11269	75	24.7	17.8	139%	18.8	106%
Pool Table Mountain	SC	9840	23	5.3	4.1	129%		
Porcupine	SC	10280	42	9.8	7.0	140%		
Slumgullion	SNOTEL	11560	52	13.9	13.6	102%	10.7	79%
Upper Rio Grande	SNOTEL	9379	35	10.0	4.8	208%	4.7	98%
Wager Gulch	SNOTEL	11132	41	11.6			7.2	
Wolf Creek Summit	SNOTEL	10957	138	48.4	28.4	170%	34.2	120%
Basin Index						**150%**		**105%**
# of sites						5		5

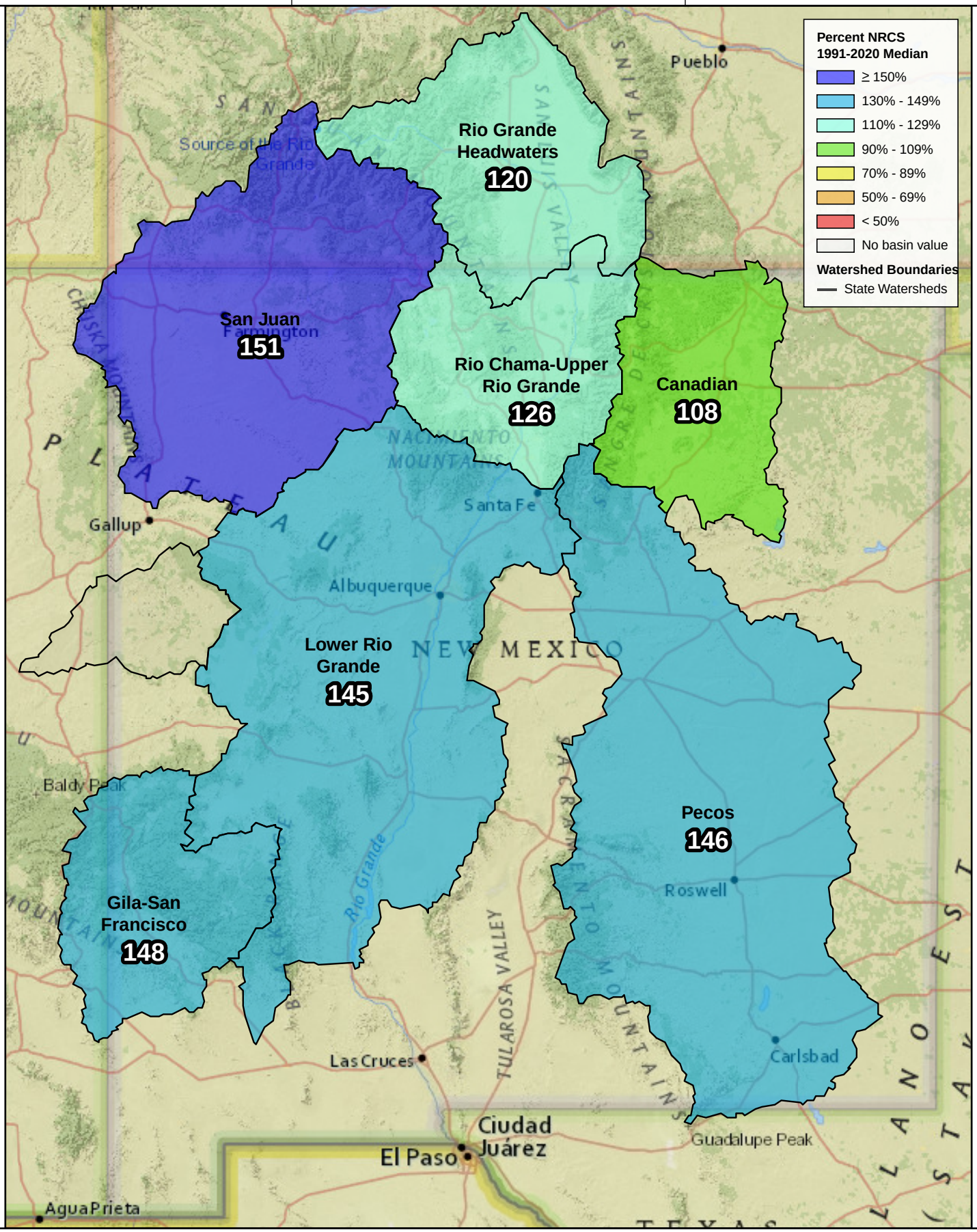
Zuni	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Boon	SC	8140	23	7.7	0.0		1.8	
Dan Valley	SC	7640	16	5.1	0.0		0.0	
Mcgaffey	SC	8120	11	1.8	0.0		0.0	
Basin Index								
# of sites						3		3

Zuni-Bluewater	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Boon	SC	8140	23	7.7	0.0		1.8	
Dan Valley	SC	7640	16	5.1	0.0		0.0	
Mcgaffey	SC	8120	11	1.8	0.0		0.0	
Ojo Redondo	SC	8200	8	2.2	0.0		0.0	
Rice Park	SNOTEL	8497	26	10.1	0.0		0.0	
Basin Index								
# of sites						5		5

San Juan	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beartown	SNOTEL	11600	91	31.1	20.6	151%	20.8	101%
Beaver Spring	SC	9220	65	21.9	6.0	365%	5.6	93%
Beaver Spring	SNOTEL	9255	67	19.1	2.0	955%	6.2	310%
Bowl Canyon	SC	8980	57	18.0	6.6	273%	8.6	130%
Cascade #2	SNOTEL	9012	57	20.5	5.6	366%	0.6	11%
Columbus Basin	SNOTEL	10781	123	36.4	23.5	155%	20.5	87%
Hidden Valley	SC	8480	50	17.6	3.2	550%	7.4	231%
Lemon Reservoir	SC	8700	53	17.6	4.7	374%	2.1	45%
Mancos	SNOTEL	10044	80	24.2	14.7	165%	12.6	86%
Mineral Creek	SNOTEL	10046	60	18.6	14.8	126%	11.3	76%
Missionary Spring	SC	7940	20	6.5	0.0		0.0	
Molas Lake	SNOTEL	10631	89	27.7	18.1	153%	18.6	103%
Navajo Whiskey Ck	SNOTEL	9064		21.1	0.0		1.8	
Red Mountain Pass	SNOTEL	11080	97	30.0	22.3	135%	19.3	87%
Sharkstooth	SNOTEL	10747	106	36.0	18.8	191%	18.7	99%
Spud Mountain	SNOTEL	10674	124	41.1	22.6	182%	20.8	92%
Stump Lakes	SNOTEL	11248	90	29.0	16.2	179%	16.0	99%
Tsaile Canyon #1	SC	8160	48	16.9	0.7	2414%	4.0	571%
Tsaile Canyon #3	SC	8920	65	21.6	5.5	393%	6.6	120%
Upper San Juan	SC	10200	128	37.0	28.5	130%	27.3	96%
Upper San Juan	SNOTEL	10140	129	47.3	27.0	175%	27.6	102%
Vallecito	SNOTEL	10782	87	26.1	14.2	184%	12.5	88%
Weminuche Creek	SNOTEL	10749	89	32.0	15.0	213%	12.0	80%
Whiskey Creek	SC	9050	70	23.9	6.5	368%	11.6	178%
Wolf Creek Summit	SNOTEL	10957	138	48.4	28.4	170%	34.2	120%
Basin Index						**206%**		**100%**
# of sites						25		25

San Juan Headwaters	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beartown	SNOTEL	11600	91	31.1	20.6	151%	20.8	101%
Cascade #2	SNOTEL	9012	57	20.5	5.6	366%	0.6	11%
Columbus Basin	SNOTEL	10781	123	36.4	23.5	155%	20.5	87%
Lemon Reservoir	SC	8700	53	17.6	4.7	374%	2.1	45%
Mineral Creek	SNOTEL	10046	60	18.6	14.8	126%	11.3	76%
Molas Lake	SNOTEL	10631	89	27.7	18.1	153%	18.6	103%
Red Mountain Pass	SNOTEL	11080	97	30.0	22.3	135%	19.3	87%
Spud Mountain	SNOTEL	10674	124	41.1	22.6	182%	20.8	92%
Stump Lakes	SNOTEL	11248	90	29.0	16.2	179%	16.0	99%
Upper San Juan	SC	10200	128	37.0	28.5	130%	27.3	96%
Upper San Juan	SNOTEL	10140	129	47.3	27.0	175%	27.6	102%
Vallecito	SNOTEL	10782	87	26.1	14.2	184%	12.5	88%
Weminuche Creek	SNOTEL	10749	89	32.0	15.0	213%	12.0	80%
Wolf Creek Summit	SNOTEL	10957	138	48.4	28.4	170%	34.2	120%
Basin Index						**169%**		**93%**
# of sites						14		14

Water Year to Date Precipitation	New Mexico Basinwide Precipitation Summary Percent NRCS 1991-2020 Median	October 1, 2022 - March 31, 2023



USDA Natural Resources Conservation Service
United States Department of Agriculture

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Created 4-10-2023

Report Created: 4/6/2023

Basinwide Summary: April 1, 2023
(Medians based On 1991-2020 reference period)

			Monthly Total Precipitation For March 2023					Water Year To Date Precipitation through March 2023				
Canadian	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
North Costilla	SNOTEL	10598	3.4	2.4	142%	2	83%	11.9	12.6	94%	7.8	62%
Palo	SNOTEL	9343	2.8	1.2	233%	2.5	208%	11.3	9.6	118%	8	83%
Red River Pass #2	SNOTEL	9855	2	1.8	111%	2.2	122%	9.2	10.3	89%	7.4	72%
Shuree	SNOTEL	10092	1.9	1.4	136%	2.3	164%	8.2	9.5	86%	7.2	76%
Tolby	SNOTEL	10220	3.4	1.8	189%	3.3	183%	13.4	12.2	110%	10.7	88%
Wesner Springs	SNOTEL	11151	5.6	2.5	224%	3.7	148%	23.1	17.4	133%	12.8	74%
Basin Index					**172%**		**144%**			**108%**		**75%**
# of sites					6		6			6		6

Canadian Headwaters	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
North Costilla	SNOTEL	10598	3.4	2.4	142%	2	83%	11.9	12.6	94%	7.8	62%
Palo	SNOTEL	9343	2.8	1.2	233%	2.5	208%	11.3	9.6	118%	8	83%
Red River Pass #2	SNOTEL	9855	2	1.8	111%	2.2	122%	9.2	10.3	89%	7.4	72%
Shuree	SNOTEL	10092	1.9	1.4	136%	2.3	164%	8.2	9.5	86%	7.2	76%
Tolby	SNOTEL	10220	3.4	1.8	189%	3.3	183%	13.4	12.2	110%	10.7	88%
Basin Index					**157%**		**143%**			**100%**		**76%**
# of sites					5		5			5		5

Gila-San Francisco	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Beaver Head	SNOTEL	8076	2			0.4		14.5			5.8	
Coronado Trail	SNOTEL	8418	1.9	1.2	158%	0.5	42%	13.8	10	138%	5.2	52%
Frisco Divide	SNOTEL	8013	1.2	1.1	109%	0.6	55%	12.4	8.2	151%	5.1	62%
Hannagan Meadows	SNOTEL	9027	4	2	200%	0.2	10%	22.9	15.8	145%	7.3	46%
Lookout Mountain	SNOTEL	8509	1.2	1	120%	0.6	60%	11.4	7.2	158%	3.4	47%
Nutrioso	SNOTEL	8571	1.8	0.7	257%	0.6	86%	12.2	7.2	169%	3.5	49%
Signal Peak	SNOTEL	8405	1.4	0.8	175%	0.8	100%	16.1	11.2	144%	5	45%
Silver Creek Divide	SNOTEL	9096	2.6	2.4	108%	0.8	33%	22.8	15.9	143%	8	50%
Basin Index					**153%**		**45%**			**148%**		**50%**
# of sites					7		7			7		7

San Francisco	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Beaver Head	SNOTEL	8076	2			0.4		14.5			5.8	
Coronado Trail	SNOTEL	8418	1.9	1.2	158%	0.5	42%	13.8	10	138%	5.2	52%
Frisco Divide	SNOTEL	8013	1.2	1.1	109%	0.6	55%	12.4	8.2	151%	5.1	62%
Hannagan Meadows	SNOTEL	9027	4	2	200%	0.2	10%	22.9	15.8	145%	7.3	46%
Nutrioso	SNOTEL	8571	1.8	0.7	257%	0.6	86%	12.2	7.2	169%	3.5	49%
Silver Creek Divide	SNOTEL	9096	2.6	2.4	108%	0.8	33%	22.8	15.9	143%	8	50%
Basin Index					**155%**		**36%**			**147%**		**51%**
# of sites					5		5			5		5

Upper Gila	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Lookout Mountain	SNOTEL	8509	1.2	1	120%	0.6	60%	11.4	7.2	158%	3.4	47%
Signal Peak	SNOTEL	8405	1.4	0.8	175%	0.8	100%	16.1	11.2	144%	5	45%
Silver Creek Divide	SNOTEL	9096	2.6	2.4	108%	0.8	33%	22.8	15.9	143%	8	50%
Basin Index					**124%**		**52%**			**147%**		**48%**
# of sites					3		3			3		3

Lower Rio Grande	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Elk Cabin	SNOTEL	8239	3.9	1.2	325%	2.7	225%	15.9	9.8	162%	7.5	77%
Garita Peak	SNOTEL	10115	5.1			2.9		18.5			9.6	
Lookout Mountain	SNOTEL	8509	1.2	1	120%	0.6	60%	11.4	7.2	158%	3.4	47%
Mcknight Cabin	SNOTEL	9242	0.9	0.7	129%	0.7	100%	12.2	8.7	140%	3.1	36%
Quemazon	SNOTEL	9507	3.3	1.6	206%	2.1	131%	14.6	11.4	128%	8.3	73%
Rice Park	SNOTEL	8497	4.5	1.4	321%	1.7	121%	18.2	10.2	178%	10.8	106%
Santa Fe	SNOTEL	11465	6.8	2.4	283%	3.9	163%	23.7	17.8	133%	13	73%
Senorita Divide #2	SNOTEL	8569	5.9	2.1	281%	1.4	67%	18.7	14.1	133%	9	64%
Signal Peak	SNOTEL	8405	1.4	0.8	175%	0.8	100%	16.1	11.2	144%	5	45%
Vacas Locas	SNOTEL	9364	6.1	1.5	407%	1.8	120%	19.7	13.6	145%	10.5	77%
Basin Index					**268%**		**124%**			**145%**		**68%**
# of sites					9		9			9		9

Jemez	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Garita Peak	SNOTEL	10115	5.1			2.9		18.5			9.6	
Quemazon	SNOTEL	9507	3.3	1.6	206%	2.1	131%	14.6	11.4	128%	8.3	73%
Senorita Divide #2	SNOTEL	8569	5.9	2.1	281%	1.4	67%	18.7	14.1	133%	9	64%
Vacas Locas	SNOTEL	9364	6.1	1.5	407%	1.8	120%	19.7	13.6	145%	10.5	77%
Basin Index					**294%**		**102%**			**136%**		**71%**
# of sites					3		3			3		3

Mimbres	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Mcknight Cabin	SNOTEL	9242	0.9	0.7	129%	0.7	100%	12.2	8.7	140%	3.1	36%
Signal Peak	SNOTEL	8405	1.4	0.8	175%	0.8	100%	16.1	11.2	144%	5	45%
Basin Index					**153%**		**100%**			**142%**		**41%**
# of sites					2		2			2		2

Pecos	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Elk Cabin	SNOTEL	8239	3.9	1.2	325%	2.7	225%	15.9	9.8	162%	7.5	77%
Santa Fe	SNOTEL	11465	6.8	2.4	283%	3.9	163%	23.7	17.8	133%	13	73%
Sierra Blanca	SNOTEL	10268	3.4	1.7	200%	1.6	94%	23.7	14.2	167%	7.9	56%
Wesner Springs	SNOTEL	11151	5.6	2.5	224%	3.7	148%	23.1	17.4	133%	12.8	74%
Basin Index					**253%**		**153%**			**146%**		**70%**
# of sites					4		4			4		4

Pecos Headwaters	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Elk Cabin	SNOTEL	8239	3.9	1.2	325%	2.7	225%	15.9	9.8	162%	7.5	77%
Santa Fe	SNOTEL	11465	6.8	2.4	283%	3.9	163%	23.7	17.8	133%	13	73%
Wesner Springs	SNOTEL	11151	5.6	2.5	224%	3.7	148%	23.1	17.4	133%	12.8	74%
Basin Index					**267%**		**169%**			**139%**		**74%**
# of sites					3		3			3		3

Rio Hondo	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Sierra Blanca	SNOTEL	10268	3.4	1.7	200%	1.6	94%	23.7	14.2	167%	7.9	56%
Basin Index					**200%**		**94%**			**167%**		**56%**
# of sites					1		1			1		1

Rio Chama-Upper Rio Grande	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Bateman	SNOTEL	9249	4.2	2	210%	1.7	85%	15.7	13	121%	12.7	98%
Chamita	SNOTEL	8383	5	1.5	333%	2.1	140%	15.5	11.3	137%	10.3	91%
Cumbres Trestle	SNOTEL	10035	11.9	3.4	350%	4.1	121%	35.6	22.7	157%	23.9	105%
Elk Cabin	SNOTEL	8239	3.9	1.2	325%	2.7	225%	15.9	9.8	162%	7.5	77%
Gallegos Peak	SNOTEL	9480	4.1	2.1	195%	3.7	176%	17.4	14.4	121%	11.8	82%
Garita Peak	SNOTEL	10115	5.1			2.9		18.5			9.6	
Hopewell	SNOTEL	10095	7.4	2.7	274%	3.2	119%	23.6	16.8	140%	18.6	111%
North Costilla	SNOTEL	10598	3.4	2.4	142%	2	83%	11.9	12.6	94%	7.8	62%
Palo	SNOTEL	9343	2.8	1.2	233%	2.5	208%	11.3	9.6	118%	8	83%
Quemazon	SNOTEL	9507	3.3	1.6	206%	2.1	131%	14.6	11.4	128%	8.3	73%
Red River Pass #2	SNOTEL	9855	2	1.8	111%	2.2	122%	9.2	10.3	89%	7.4	72%
Rio Santa Barbara	SNOTEL	10664	5.7			3.6		19.1			12	
Santa Fe	SNOTEL	11465	6.8	2.4	283%	3.9	163%	23.7	17.8	133%	13	73%
Shuree	SNOTEL	10092	1.9	1.4	136%	2.3	164%	8.2	9.5	86%	7.2	76%
Taos Powderhorn	SNOTEL	11045	6.8	3.4	200%	5.5	162%	24.5	20.5	120%	20.8	101%
Taos Pueblo	SNOTEL	11020	8.3			5.3		29.2			21.3	
Tres Ritos	SNOTEL	8755	3.8	1.5	253%	3	200%	13.9	11.2	124%	8.8	79%
Basin Index					**235%**		**143%**			**126%**		**87%**
# of sites					14		14			14		14

Rio Chama	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Bateman	SNOTEL	9249	4.2	2	210%	1.7	85%	15.7	13	121%	12.7	98%
Chamita	SNOTEL	8383	5	1.5	333%	2.1	140%	15.5	11.3	137%	10.3	91%
Cumbres Trestle	SNOTEL	10035	11.9	3.4	350%	4.1	121%	35.6	22.7	157%	23.9	105%
Garita Peak	SNOTEL	10115	5.1			2.9		18.5			9.6	
Hopewell	SNOTEL	10095	7.4	2.7	274%	3.2	119%	23.6	16.8	140%	18.6	111%
Basin Index					**297%**		**116%**			**142%**		**103%**
# of sites					4		4			4		4

Upper Rio Grande	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Elk Cabin	SNOTEL	8239	3.9	1.2	325%	2.7	225%	15.9	9.8	162%	7.5	77%
Gallegos Peak	SNOTEL	9480	4.1	2.1	195%	3.7	176%	17.4	14.4	121%	11.8	82%
North Costilla	SNOTEL	10598	3.4	2.4	142%	2	83%	11.9	12.6	94%	7.8	62%
Palo	SNOTEL	9343	2.8	1.2	233%	2.5	208%	11.3	9.6	118%	8	83%
Quemazon	SNOTEL	9507	3.3	1.6	206%	2.1	131%	14.6	11.4	128%	8.3	73%
Red River Pass #2	SNOTEL	9855	2	1.8	111%	2.2	122%	9.2	10.3	89%	7.4	72%
Rio Santa Barbara	SNOTEL	10664	5.7			3.6		19.1			12	
Santa Fe	SNOTEL	11465	6.8	2.4	283%	3.9	163%	23.7	17.8	133%	13	73%
Shuree	SNOTEL	10092	1.9	1.4	136%	2.3	164%	8.2	9.5	86%	7.2	76%
Taos Powderhorn	SNOTEL	11045	6.8	3.4	200%	5.5	162%	24.5	20.5	120%	20.8	101%
Taos Pueblo	SNOTEL	11020	8.3			5.3		29.2			21.3	
Tres Ritos	SNOTEL	8755	3.8	1.5	253%	3	200%	13.9	11.2	124%	8.8	79%
Basin Index					**204%**		**157%**			**118%**		**79%**
# of sites					10		10			10		10

Rio Grande Headwaters	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Beartown	SNOTEL	11600	8.4	2.9	290%	3.2	110%	30.3	21.9	138%	21.4	98%
Cochetopa Pass	SNOTEL	10061	1.4	1.2	117%	1.4	117%	5.9	7	84%	5.9	84%
Culebra #2	SNOTEL	10562	3.1	2.2	141%	3.1	141%	12.6	11.8	107%	8.7	74%
Cumbres Trestle	SNOTEL	10035	11.9	3.4	350%	4.1	121%	35.6	22.7	157%	23.9	105%
Grayback	SNOTEL	11626	5.8	2.6	223%	2.4	92%	20.2	17	119%	16.7	98%

Hayden Pass	SNOTEL	10699	1.7	2	85%	3.1	155%	10.3	11.8	87%	10.6	90%
Lily Pond	SNOTEL	11069	6.7	2.5	268%	2.1	84%	23.3	17.3	135%	17.2	99%
Medano Pass	SNOTEL	9668	4.1	1.7	241%	4.4	259%	11.2	10.4	108%	12.5	120%
Middle Creek	SNOTEL	11269	5.5	2.9	190%	2.9	100%	26.8	21.2	126%	20.6	97%
Moon Pass	SNOTEL	11128	1	1.2	83%	1.7	142%	5.7	8.4	68%	7.9	94%
North Costilla	SNOTEL	10598	3.4	2.4	142%	2	83%	11.9	12.6	94%	7.8	62%
San Antonio Sink	SNOTEL	9143	3.7			2.3		11.3			11.4	
Sargents Mesa	SNOTEL	11499	2.5	2	125%	1.7	85%	11.2	12.2	92%	8.1	66%
Slumgullion	SNOTEL	11560	3.4	2	170%	2.1	105%	13.4	13.2	102%	10.9	83%
Trinchera	SNOTEL	10922	2.3	2.2	105%	3.5	159%	12.7	11	115%	10.4	95%
Upper Rio Grande	SNOTEL	9379	1.1	1.2	92%	1.4	117%	11.5	9	128%	8.4	93%
Ute Creek	SNOTEL	10734	4.6	2.7	170%	3.9	144%	13.7	14	98%	14.6	104%
Wager Gulch	SNOTEL	11132	3.3			2		14.1			11.1	
Wolf Creek Summit	SNOTEL	10957	16.3	4.2	388%	2.2	52%	45.7	30.2	151%	31	103%
Basin Index					**212%**		**115%**			**120%**		**94%**
# of sites					17		17			17		17

Alamosa	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Grayback	SNOTEL	11626	5.8	2.6	223%	2.4	92%	20.2	17	119%	16.7	98%
Lily Pond	SNOTEL	11069	6.7	2.5	268%	2.1	84%	23.3	17.3	135%	17.2	99%
Basin Index					**245%**		**88%**			**127%**		**99%**
# of sites					2		2			2		2

Conejos	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Cumbres Trestle	SNOTEL	10035	11.9	3.4	350%	4.1	121%	35.6	22.7	157%	23.9	105%
Lily Pond	SNOTEL	11069	6.7	2.5	268%	2.1	84%	23.3	17.3	135%	17.2	99%
San Antonio Sink	SNOTEL	9143	3.7			2.3		11.3			11.4	
Basin Index					**315%**		**105%**			**147%**		**103%**
# of sites					2		2			2		2

Culebra-Trinchera	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Culebra #2	SNOTEL	10562	3.1	2.2	141%	3.1	141%	12.6	11.8	107%	8.7	74%
Trinchera	SNOTEL	10922	2.3	2.2	105%	3.5	159%	12.7	11	115%	10.4	95%
Ute Creek	SNOTEL	10734	4.6	2.7	170%	3.9	144%	13.7	14	98%	14.6	104%
Basin Index					**141%**		**148%**			**106%**		**92%**
# of sites					3		3			3		3

Headwaters Rio Grande	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Beartown	SNOTEL	11600	8.4	2.9	290%	3.2	110%	30.3	21.9	138%	21.4	98%
Grayback	SNOTEL	11626	5.8	2.6	223%	2.4	92%	20.2	17	119%	16.7	98%
Middle Creek	SNOTEL	11269	5.5	2.9	190%	2.9	100%	26.8	21.2	126%	20.6	97%
Slumgullion	SNOTEL	11560	3.4	2	170%	2.1	105%	13.4	13.2	102%	10.9	83%
Upper Rio Grande	SNOTEL	9379	1.1	1.2	92%	1.4	117%	11.5	9	128%	8.4	93%
Wager Gulch	SNOTEL	11132	3.3			2		14.1			11.1	
Wolf Creek Summit	SNOTEL	10957	16.3	4.2	388%	2.2	52%	45.7	30.2	151%	31	103%
Basin Index					**256%**		**90%**			**131%**		**97%**
# of sites					6		6			6		6

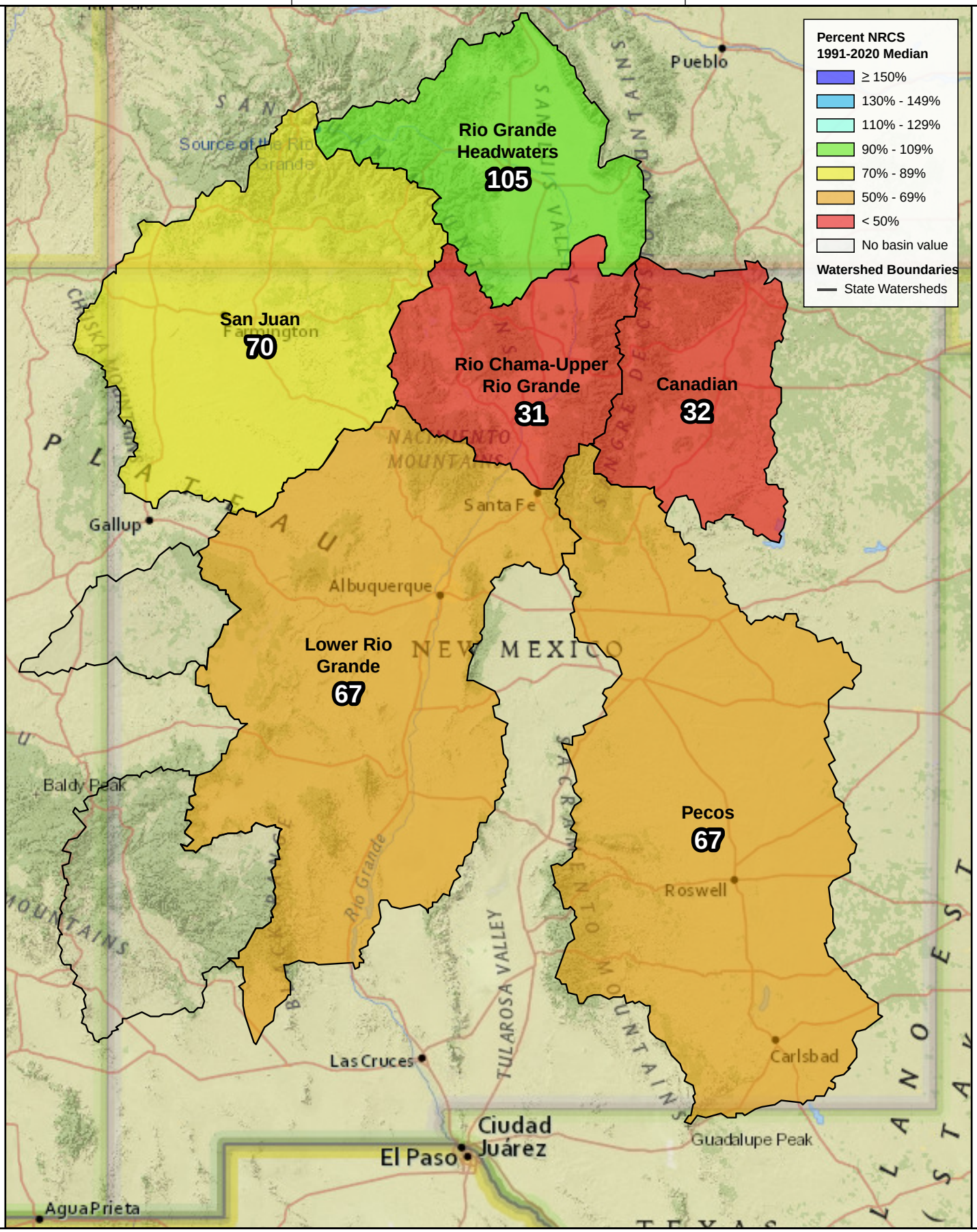
San Juan	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Beartown	SNOTEL	11600	8.4	2.9	290%	3.2	110%	30.3	21.9	138%	21.4	98%
Beaver Spring	SNOTEL	9255	7.7	1.9	405%	3.4	179%	25.5	14.3	178%	15	105%
Cascade #2	SNOTEL	9012	7.8	2.1	371%	2.6	124%	26.8	17.8	151%	17.3	97%
Columbus Basin	SNOTEL	10781	11.3	3	377%	3.4	113%	38	25	152%	23.2	93%
Mancos	SNOTEL	10044	6.5	1.7	382%	2.5	147%	23.5	16.3	144%	13.1	80%
Mineral Creek	SNOTEL	10046	5.9	2.4	246%	3.1	129%	21.3	16.2	131%	17.1	106%
Molas Lake	SNOTEL	10631	9.6	2.7	356%	3.8	141%	27.9	18.8	148%	21	112%
Navajo Whiskey Ck	SNOTEL	9064	6.5	1.3	500%	2.7	208%	22.4	11.1	202%	12	108%
Red Mountain Pass	SNOTEL	11080	7.8	3.8	205%	4.4	116%	31.2	24.5	127%	22.7	93%
Sharkstooth	SNOTEL	10747	11.7	2.2	532%	4	182%	35.7	20	179%	23	115%
Spud Mountain	SNOTEL	10674	12.8	4	320%	5	125%	42.4	28.1	151%	28.5	101%
Stump Lakes	SNOTEL	11248	7	2.6	269%	3	115%	29.3	18.6	158%	16.9	91%
Upper San Juan	SNOTEL	10140	16.1	4	403%	4.2	105%	47.6	32.8	145%	31.4	96%
Vallecito	SNOTEL	10782	7.1	2.3	309%	2.9	126%	26.5	17.2	154%	15.5	90%
Weminuche Creek	SNOTEL	10749	8.7	2.2	395%	3.2	145%	32.3	21.6	150%	18.2	84%
Wolf Creek Summit	SNOTEL	10957	16.3	4.2	388%	2.2	52%	45.7	30.2	151%	31	103%
Basin Index					**349%**		**124%**			**151%**		**98%**
# of sites					16		16			16		16

San Juan Headwaters	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Beartown	SNOTEL	11600	8.4	2.9	290%	3.2	110%	30.3	21.9	138%	21.4	98%
Cascade #2	SNOTEL	9012	7.8	2.1	371%	2.6	124%	26.8	17.8	151%	17.3	97%
Columbus Basin	SNOTEL	10781	11.3	3	377%	3.4	113%	38	25	152%	23.2	93%
Mineral Creek	SNOTEL	10046	5.9	2.4	246%	3.1	129%	21.3	16.2	131%	17.1	106%
Molas Lake	SNOTEL	10631	9.6	2.7	356%	3.8	141%	27.9	18.8	148%	21	112%
Red Mountain Pass	SNOTEL	11080	7.8	3.8	205%	4.4	116%	31.2	24.5	127%	22.7	93%
Spud Mountain	SNOTEL	10674	12.8	4	320%	5	125%	42.4	28.1	151%	28.5	101%
Stump Lakes	SNOTEL	11248	7	2.6	269%	3	115%	29.3	18.6	158%	16.9	91%
Upper San Juan	SNOTEL	10140	16.1	4	403%	4.2	105%	47.6	32.8	145%	31.4	96%

Vallecito	SNOTEL	10782	7.1	2.3	309%	2.9	126%	26.5	17.2	154%	15.5	90%
Weminuche Creek	SNOTEL	10749	8.7	2.2	395%	3.2	145%	32.3	21.6	150%	18.2	84%
Wolf Creek Summit	SNOTEL	10957	16.3	4.2	388%	2.2	52%	45.7	30.2	151%	31	103%
Basin Index					**328%**		**113%**			**146%**		**97%**
# of sites					12		12			12		12

Zuni-Bluewater	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Rice Park	SNOTEL	8497	4.5	1.4	321%	1.7	121%	18.2	10.2	178%	10.8	106%
Basin Index					**321%**		**121%**			**178%**		**106%**
# of sites					1		1			1		1

Reservoir Storage	New Mexico Basinwide Reservoir Storage Summary Percent NRCS 1991-2020 Median	End of March, 2023



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Created 4-10-2023

Report Created: 4/7/2023 6:49:47 AM

Basinwide Summary: April 1, 2023
(Medians based On 1991-2020 reference period)

Reservoir Storage Summary For the End of March 2023

Canadian	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Conchas Lake	21.6	17.4	128.1	254.4	8%	7%	50%	17%	14%
Eagle Nest Lake nr Eagle Nest, NM	34.3	37.6	46.8	79.0	43%	48%	59%	73%	80%
Basin Index					**17%**	**16%**	**52%**	**32%**	**31%**
# of reservoirs					2	2	2	2	2

Lower Rio Grande	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Bluewater Lake	12.4	1.8	6.1	38.5	32%	5%	16%	204%	30%
Caballo Reservoir	55.4	15.9	53.2	332.0	17%	5%	16%	104%	30%
Cochiti Lake	43.2	43.1	51.0	491.0	9%	9%	10%	85%	84%
Mcclure Reservoir	1.5	0.4	1.9	3.3	47%	12%	59%	80%	20%
Elephant Butte Reservoir	330.8	239.6	546.7	2195.0	15%	11%	25%	61%	44%
Basin Index					**14%**	**10%**	**22%**	**67%**	**46%**
# of reservoirs					5	5	5	5	5

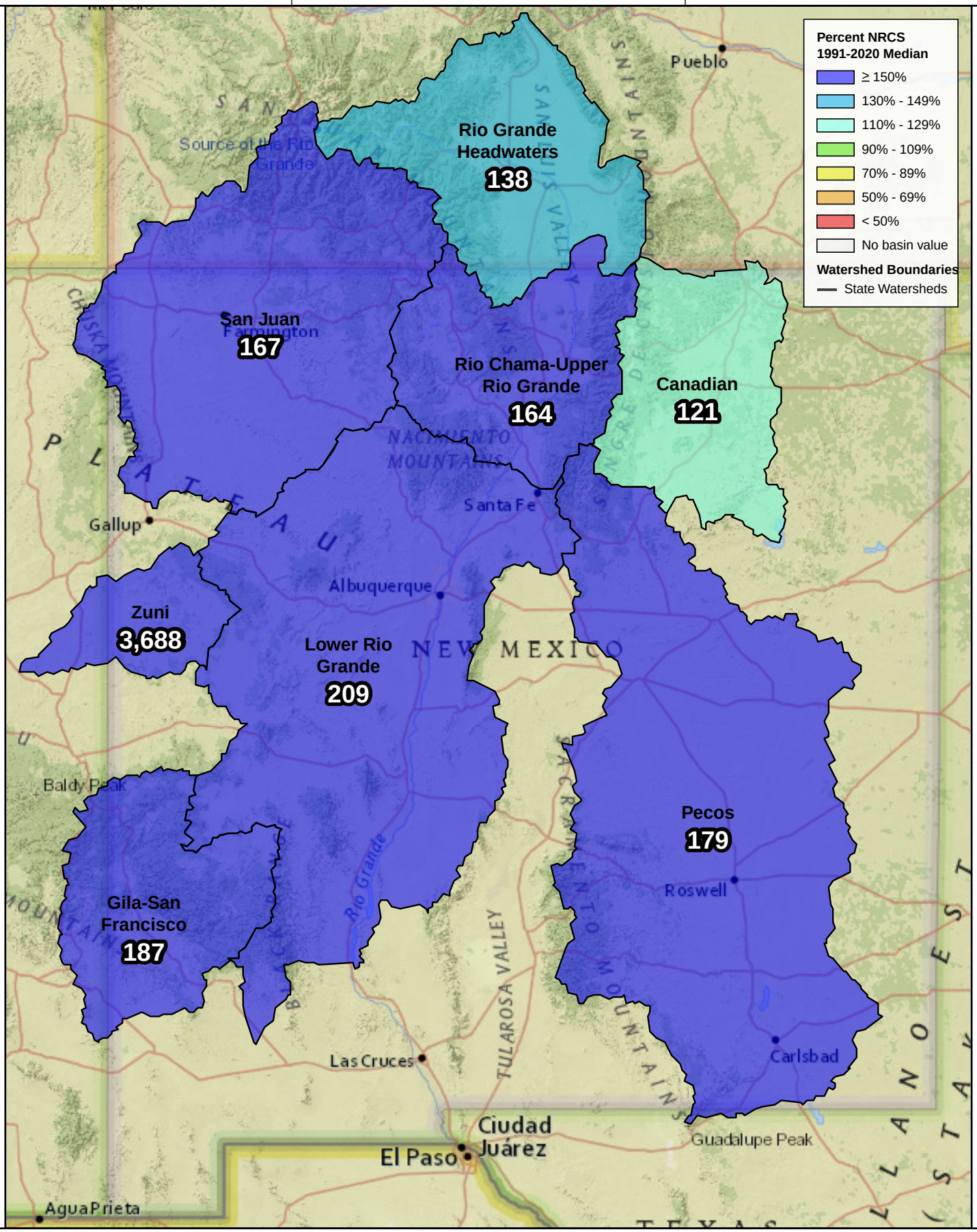
Pecos	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Lake Sumner	20.4	15.9	27.2	102.0	20%	16%	27%	75%	59%
Santa Rosa Reservoir	19.9	17.8	53.8	432.2	5%	4%	12%	37%	33%
Brantley Lake nr Carlsbad	36.1	31.7	33.9	1008.2	4%	3%	3%	107%	93%
Lake Avalon	1.1		1.3	4.0	28%		33%	87%	
Basin Index					**5%**	**4%**	**8%**	**67%**	**57%**
# of reservoirs					4	3	4	4	3

Rio Chama-Upper Rio Grande	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
El Vado Reservoir	0.5	8.7	98.0	184.8	0%	5%	53%	0%	9%
Nambe Falls Reservoir	1.7	1.7	2.0	1.7	104%	104%	120%	87%	86%
Heron Reservoir	38.7	43.5	230.8	400.0	10%	11%	58%	17%	19%
Costilla Reservoir	7.1	4.6	7.2	16.0	44%	29%	45%	98%	64%
Abiquiu Reservoir	106.6	82.5	167.8	1198.5	9%	7%	14%	64%	49%
Basin Index					**9%**	**8%**	**28%**	**31%**	**28%**
# of reservoirs					5	5	5	5	5

Rio Grande Headwaters	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Beaver Reservoir	4.0	4.0	4.3	4.5	90%	88%	96%	94%	92%
Santa Maria Reservoir	10.0	12.7	8.5	45.0	22%	28%	19%	117%	150%
Mountain Home Reservoir	4.7	4.5	2.9	18.0	26%	25%	16%	162%	156%
Sanchez Reservoir	9.0	6.8	20.4	103.0	9%	7%	20%	44%	33%
La Jara Reservoir	0.9	1.2	2.2					40%	56%
Platoro Reservoir	14.1	14.3	17.7	60.0	24%	24%	30%	80%	81%
Continental Reservoir	12.1	10.9	5.6	27.0	45%	40%	21%	215%	195%
Rio Grande Reservoir	29.5	23.2	19.5	51.0	58%	46%	38%	151%	119%
Terrace Reservoir	8.5	6.4	7.4	18.0	47%	35%	41%	115%	86%
Basin Index					**28%**	**25%**	**26%**	**105%**	**95%**
# of reservoirs					8	8	8	9	9

San Juan	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Navajo Reservoir	920.0	853.5	1315.0	1696.0	54%	50%	78%	70%	65%
Vallecito Reservoir	45.6	48.2	74.5	126.0	36%	38%	59%	61%	65%
Lemon Reservoir	17.4	14.0	19.0	40.0	44%	35%	48%	92%	74%
Jackson Gulch Reservoir	5.8	4.6	4.6	10.0	58%	46%	46%	126%	99%
Basin Index					**53%**	**49%**	**75%**	**70%**	**65%**
# of reservoirs					4	4	4	4	4

Forecast Volume, 50% Exceedance Probability	New Mexico Basinwide Forecast Streamflow Summary Percent NRCS 1991-2020 Median	Primary Period, April 1, 2023



USDA Natural Resources Conservation Service
United States Department of Agriculture

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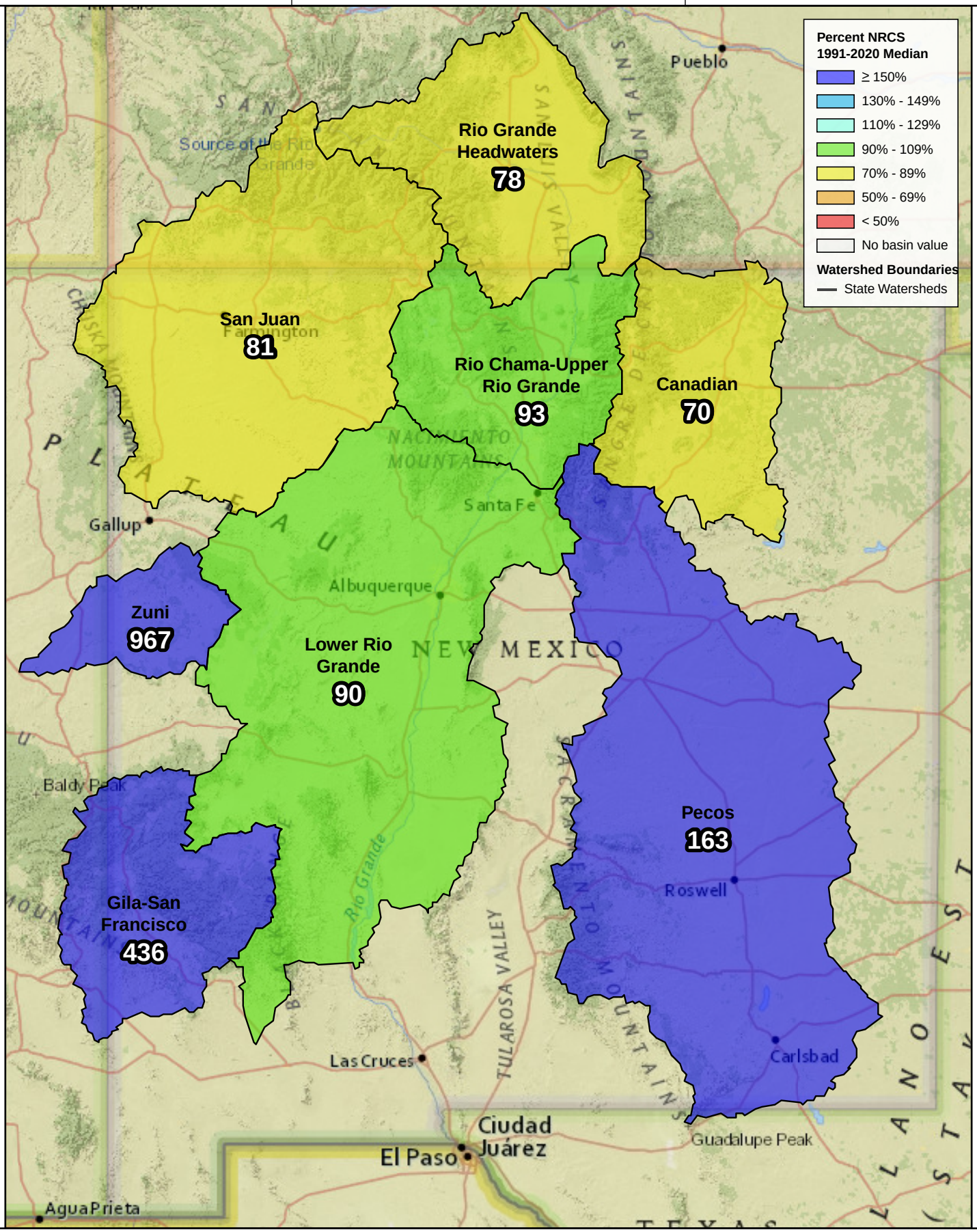
1 month Adjusted Volume, Observed	New Mexico Basinwide Observed Streamflow Summary Percent NRCS 1991-2020 Median	March 1, 2023 - March 31, 2023



USDA Natural Resources Conservation Service
United States Department of Agriculture

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Streamflow Forecast Summary: April 1, 2023
(Medians based On 1991-2020 reference period)

		Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						
Canadian	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Vermejo R nr Dawson								
	MAR-JUN	1.85	3.4	4.8	91%	6.4	9.3	5.3
	APR-JUN	1.55	3.1	4.5	94%	6.1	9	4.8
Cimarron R nr Cimarron[2]								
	MAR-JUN	4.7	9.2	12.3	134%	15.3	19.9	9.2
	APR-JUN	2.8	7.3	10.4	141%	13.4	18	7.4
Eagle Nest Reservoir Inflow								
	MAR-JUN	4	6.6	8.4	125%	10.1	12.7	6.7
	APR-JUN	2.2	4.8	6.6	135%	8.3	10.9	4.9
Ponil Ck nr Cimarron								
	MAR-JUN	1.61	3.5	5.2	96%	7.3	11	5.4
	APR-JUN	1.39	3.3	5	102%	7.1	10.8	4.9
Rayado Ck nr Cimarron								
	MAR-JUN	2.7	4.6	5.9	116%	7.2	9.1	5.1
	APR-JUN	2.3	4.2	5.5	125%	6.8	8.7	4.4

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

		Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						
Gila-San Francisco	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
San Francisco R at Clifton								
	APR-MAY	14.3	21	27	223%	34	46	12.1
Gila R at Gila								
	APR-MAY	13.5	17.7	21	154%	25	31	13.6
Gila R bl Blue Ck nr Virden								
	APR-MAY	12.1	18.6	24	168%	30	42	14.3
San Francisco R at Glenwood								
	APR-MAY	6.5	9.9	12.7	240%	16	22	5.3

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						
Lower Rio Grande	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Jemez R bl Jemez Canyon Dam								
	MAR-JUL	26	33	39	177%	45	55	22
	APR-JUL	21	28	34	197%	40	50	17.3
Jemez R nr Jemez								
	MAR-JUL	35	42	47	162%	52	60	29
	APR-JUL	30	37	42	175%	47	55	24
Santa Fe R nr Santa Fe [2]								
	APR-JUL	3.9	4.7	5.4	186%	6.1	7.1	2.9
Mimbres R at Mimbres								
	APR-MAY	2.5	3.5	4.3	377%	5.2	6.6	1.14
Rio Grande at San Marcial								

	MAR-JUL	450	565	640	186%	715	830	345
	APR-JUL	405	520	595	213%	670	785	280

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						
Pecos	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Pecos R nr Pecos								
	MAR-JUL	56	69	79	149%	90	107	53
	APR-JUL	53	66	76	155%	87	104	49
Rio Ruidoso at Hollywood								
	MAR-JUN	6.2	7.5	8.4	247%	9.4	11.1	3.4
	APR-JUN	3.7	5	5.9	227%	6.9	8.6	2.6
Gallinas Ck nr Montezuma								
	MAR-JUL	9.5	13.1	15.9	199%	19	24	8
	APR-JUL	7.6	11.2	14	215%	17.1	22	6.5
Pecos R ab Santa Rosa Lk								
	MAR-JUL	38	55	69	168%	84	109	41
	APR-JUL	35	52	66	189%	81	106	35
Pecos R nr Anton Chico								
	MAR-JUL	56	77	93	175%	111	140	53
	APR-JUL	47	68	84	191%	102	131	44

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		Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						
Rio Chama-Upper Rio Grande	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Santa Cruz R at Cundiyo								
	MAR-JUL	17.5	21	24	145%	27	31	16.6
	APR-JUL	15.8	19.4	22	157%	25	29	14
Costilla Reservoir Inflow[2]								
	MAR-JUL	5.3	7.4	9.1	88%	10.9	14	10.3
	APR-JUL	5.1	7.2	8.9	93%	10.7	13.8	9.6
Nambe Falls Reservoir Inflow[2]								
	MAR-JUL	5.8	7.1	8	143%	9	10.6	5.6
	APR-JUL	4.9	6.2	7.1	145%	8.1	9.7	4.9
Rio Lucero nr Arroyo Seco								
	APR-JUL	6.8	8.7	10.2	110%	11.8	14.3	9.3
Embudo Ck at Dixon								
	MAR-JUL	44	57	67	209%	78	95	32
	APR-JUL	40	53	63	217%	74	91	29
Tesuque Ck ab diversions								
	MAR-JUL	1.58	2	2.3	204%	2.7	3.3	1.13
	APR-JUL	1.34	1.79	2.1	221%	2.5	3.1	0.95
Rio Pueblo de Taos nr Taos								
	APR-JUL	9.7	12.7	15	128%	17.5	22	11.7
Rio Hondo nr Valdez								
	MAR-JUL	10.4	13.4	15.7	104%	18.2	22	15.1
	APR-JUL	9.7	12.7	15	106%	17.5	21	14.2
Costilla Ck nr Costilla [2]								

	APR-JUL	10.4	15.7	20	91%	25	33	22
Rio Grande at Otowi Bridge [2]								
	MAR-JUL	630	755	850	150%	950	1100	565
	APR-JUL	560	685	780	166%	880	1030	470
Red R bl Fish Hatchery nr Questa								
	MAR-JUL	19.5	24	28	90%	32	39	31
	APR-JUL	16.4	21	25	89%	29	36	28
Rio Pueblo de Taos bl Los Cordovas								
	MAR-JUL	13.8	22	30	143%	38	53	21
	APR-JUL	11.3	20	28	158%	36	51	17.7
El Vado Reservoir Inflow [2]								
	MAR-JUL	250	295	330	177%	365	420	186
	APR-JUL	235	280	315	190%	350	405	166

1) 90% And 10% exceedance probabilities are actually 95% And 5%
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		Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						
Rio Grande Headwaters	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Sangre de Cristo Ck [2]								
	APR-SEP	6.6	10.1	13	119%	16.2	22	10.9
Ute Ck nr Fort Garland								
	APR-SEP	6.9	9	10.6	94%	12.3	15.1	11.3
Platoro Reservoir Inflow [2]								
	APR-JUL	60	69	75	147%	82	92	51
	APR-SEP	67	77	84	147%	92	103	57
Rio Grande at Wagon Wheel Gap[2]								
	APR-SEP	280	345	390	126%	440	515	310
San Antonio R at Ortiz								
	APR-SEP	18.1	22	24	250%	27	31	9.6
Rio Grande at Thirty Mile Bridge[2]								
	APR-JUL	111	129	142	128%	155	173	111
	APR-SEP	119	142	158	132%	174	197	120
Rio Grande nr Lobatos[2]								
La Jara Ck nr Capulin								
	APR-JUL	7.5	9.8	11.5	169%	13.3	16.3	6.8
Los Pinos R nr Ortiz								
	APR-SEP	85	99	108	177%	118	134	61
Saguache Ck nr Saguache [2]								
	APR-SEP	14.2	20	25	89%	30	39	28
Rio Grande nr Del Norte [2]								
	APR-SEP	460	555	625	130%	695	810	480
Alamosa Ck ab Terrace Reservoir								
	APR-SEP	74	86	94	154%	103	116	61
Conejos R nr Mogote [2]								
	APR-SEP	225	255	280	167%	305	340	168
SF Rio Grande at South Fork[2]								
	APR-SEP	139	160	175	156%	191	215	112
Trinchera Ck ab Turners Ranch								
	APR-SEP	7.5	9.8	11.5	112%	13.4	16.4	10.3
Culebra Ck at San Luis [2]								
	APR-SEP	9.5	14.4	18.3	110%	23	30	16.7

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

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San Juan	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						
Vallecito Reservoir Inflow[2]								
	APR-JUL	205	240	270	160%	295	340	169
Mancos R nr Mancos [2]								
	APR-JUL	21	28	33	208%	39	48	15.9
Lemon Reservoir Inflow[2]								
	APR-JUL	68	79	86	191%	94	107	45
Rio Blanco at Blanco Diversion [2]								
	APR-JUL	59	68	75	156%	82	93	48
Piedra R nr Arboles								
	APR-JUL	235	270	300	171%	330	375	175
Animas R at Durango								
	APR-JUL	510	580	630	168%	680	760	375
Navajo Reservoir Inflow [2]								
	APR-JUL	795	950	1060	168%	1180	1360	630
Navajo R bl Oso Diversion [2]								
	APR-JUL	71	82	90	161%	98	111	56
Captain Tom Wash nr Two Gray Hills								
	MAR-MAY	3.1	5.6	8	1290%	11	16.6	0.62
La Plata R at Hesperus								
	APR-JUL	25	30	33	176%	37	43	18.8
San Juan R nr Carracas [2]								
	APR-JUL	415	485	535	160%	585	670	335

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Zuni	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						
Zuni R ab Black Rock Reservoir								
	APR-MAY	0.27	0.58	0.85		1.17	1.73	
Rio Nutria nr Ramah								
	APR-MAY	1.15	1.68	2.1	2625%	2.6	3.3	0.08

1) 90% And 10% exceedance probabilities are actually 95% And 5%
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Rio Grande Headwaters
Streamflow Forecasts - April 1, 2023

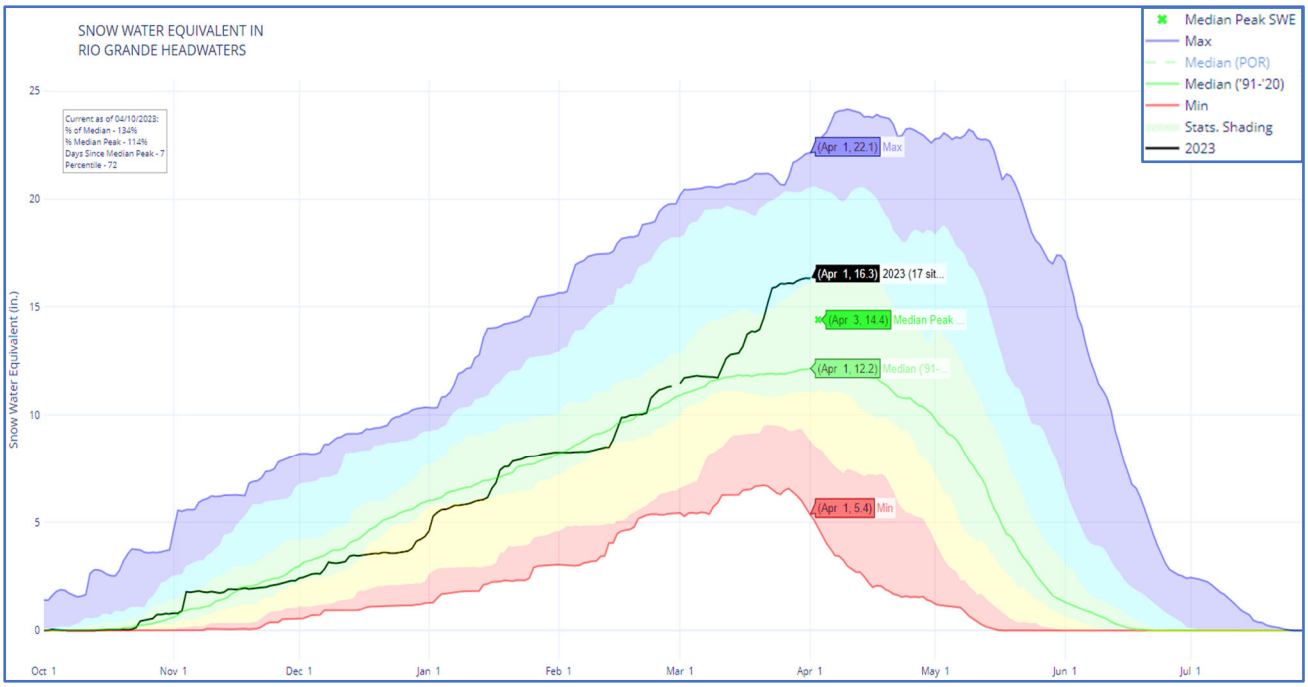
Forecast Exceedance Probabilities For Risk Assessment
Chance that actual volume will exceed forecast

Rio Grande Headwaters	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Trinchera Ck ab Turners Ranch	APR-SEP	7.5	9.8	11.5	112%	13.4	16.4	10.3
Rio Grande nr Del Norte [2]	APR-SEP	460	555	625	130%	695	810	480
Conejos R nr Mogote [2]	APR-SEP	225	255	280	167%	305	340	168
Culebra Ck at San Luis [2]	APR-SEP	9.5	14.4	18.3	110%	23	30	16.7
Rio Grande nr Lobatos[2]								
Platoro Reservoir Inflow [2]	APR-JUL	60	69	75	147%	82	92	51
	APR-SEP	67	77	84	147%	92	103	57
SF Rio Grande at South Fork[2]	APR-SEP	139	160	175	156%	191	215	112
Rio Grande at Thirty Mile Bridge[2]	APR-JUL	111	129	142	128%	155	173	111
	APR-SEP	119	142	158	132%	174	197	120
La Jara Ck nr Capulin	APR-JUL	7.5	9.8	11.5	169%	13.3	16.3	6.8
San Antonio R at Ortiz	APR-SEP	18.1	22	24	250%	27	31	9.6
Los Pinos R nr Ortiz	APR-SEP	85	99	108	177%	118	134	61
Ute Ck nr Fort Garland	APR-SEP	6.9	9	10.6	94%	12.3	15.1	11.3
Sangre de Cristo Ck [2]	APR-SEP	6.6	10.1	13	119%	16.2	22	10.9
Rio Grande at Wagon Wheel Gap[2]	APR-SEP	280	345	390	126%	440	515	310
Alamosa Ck ab Terrace Reservoir	APR-SEP	74	86	94	154%	103	116	61
Saguache Ck nr Saguache [2]	APR-SEP	14.2	20	25	89%	30	39	28

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 March, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Sanchez Reservoir	9.0	6.8	20.4	103.0
Beaver Reservoir	4.0	4.0	4.3	4.5
Mountain Home Reservoir	4.7	4.5	2.9	18.0
La Jara Reservoir	0.9	1.2	2.2	
Continental Reservoir	12.1	10.9	5.6	27.0
Terrace Reservoir	8.5	6.4	7.4	18.0
Santa Maria Reservoir	10.0	12.7	8.5	45.0
Platoro Reservoir	14.1	14.3	17.7	60.0
Rio Grande Reservoir	29.5	23.2	19.5	51.0

Watershed Snowpack Analysis April 1, 2023	# of Sites	% Median	Last Year % Median
Rio Grande Headwaters	19	139%	98%
Alamosa	2	173%	105%
Conejos	4	166%	107%
Culebra-Trinchera	3	96%	79%
Headwaters Rio Grande	5	150%	105%



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Rio Chama-Upper Rio Grande
Streamflow Forecasts - April 1, 2023

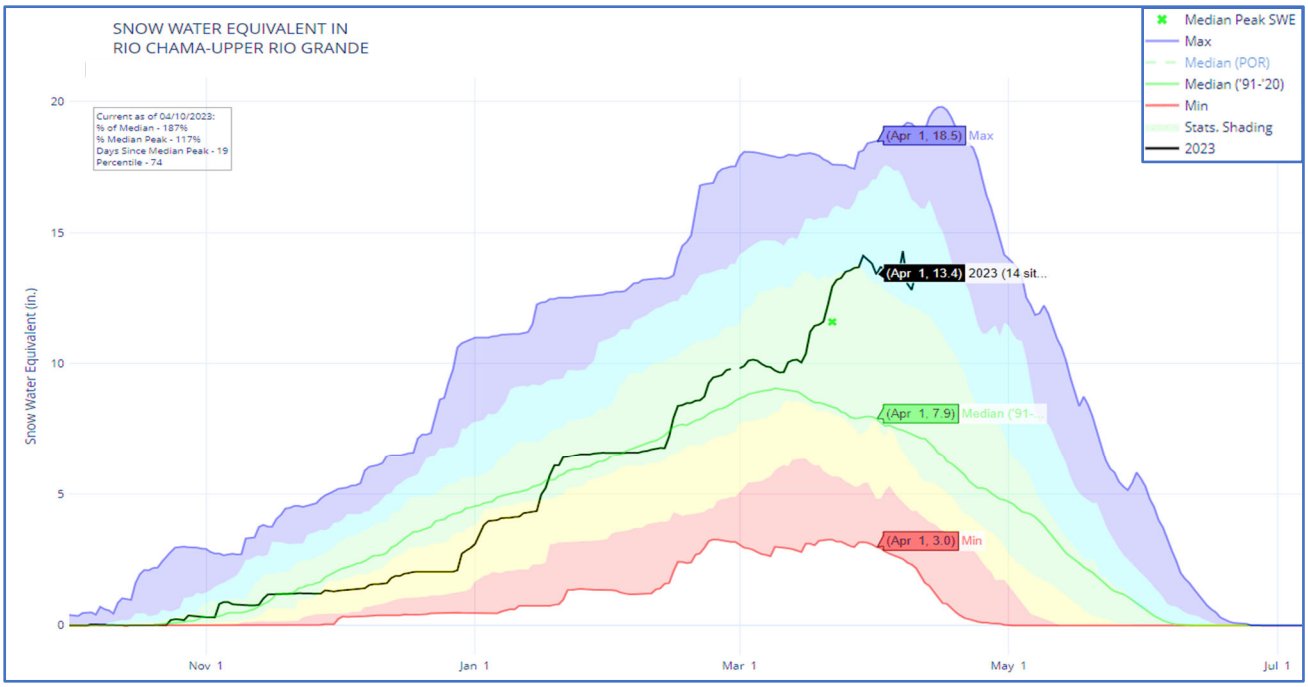
Forecast Exceedance Probabilities For Risk Assessment
Chance that actual volume will exceed forecast

Rio Chama-Upper Rio Grande	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Tesuque Ck ab diversions								
	MAR-JUL	1.58	2	2.3	204%	2.7	3.3	1.13
	APR-JUL	1.34	1.79	2.1	221%	2.5	3.1	0.95
Red R bl Fish Hatchery nr Questa								
	MAR-JUL	19.5	24	28	90%	32	39	31
	APR-JUL	16.4	21	25	89%	29	36	28
Rio Pueblo de Taos bl Los Cordovas								
	MAR-JUL	13.8	22	30	143%	38	53	21
	APR-JUL	11.3	20	28	158%	36	51	17.7
El Vado Reservoir Inflow [2]								
	MAR-JUL	250	295	330	177%	365	420	186
	APR-JUL	235	280	315	190%	350	405	166
Santa Cruz R at Cundiyo								
	MAR-JUL	17.5	21	24	145%	27	31	16.6
	APR-JUL	15.8	19.4	22	157%	25	29	14
Rio Lucero nr Arroyo Seco								
	APR-JUL	6.8	8.7	10.2	110%	11.8	14.3	9.3
Rio Grande at Otowi Bridge [2]								
	MAR-JUL	630	755	850	150%	950	1100	565
	APR-JUL	560	685	780	166%	880	1030	470
Costilla Ck nr Costilla [2]								
	APR-JUL	10.4	15.7	20	91%	25	33	22
Embudo Ck at Dixon								
	MAR-JUL	44	57	67	209%	78	95	32
	APR-JUL	40	53	63	217%	74	91	29
Nambe Falls Reservoir Inflow[2]								
	MAR-JUL	5.8	7.1	8	143%	9	10.6	5.6
	APR-JUL	4.9	6.2	7.1	145%	8.1	9.7	4.9
Rio Hondo nr Valdez								
	MAR-JUL	10.4	13.4	15.7	104%	18.2	22	15.1
	APR-JUL	9.7	12.7	15	106%	17.5	21	14.2
Rio Pueblo de Taos nr Taos								
	APR-JUL	9.7	12.7	15	128%	17.5	22	11.7
Costilla Reservoir Inflow[2]								
	MAR-JUL	5.3	7.4	9.1	88%	10.9	14	10.3
	APR-JUL	5.1	7.2	8.9	93%	10.7	13.8	9.6

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 March, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Abiquiu Reservoir	106.6	82.5	167.8	1198.5
Nambe Falls Reservoir	1.7	1.7	2.0	1.7
Costilla Reservoir	7.1	4.6	7.2	16.0
Heron Reservoir	38.7	43.5	230.8	400.0
El Vado Reservoir	0.5	8.7	98.0	184.8

Watershed Snowpack Analysis April 1, 2023	# of Sites	% Median	Last Year % Median
Rio Chama-Upper Rio Grande	19	158%	93%
Rio Chama	4	166%	98%
Upper Rio Grande	15	154%	91%



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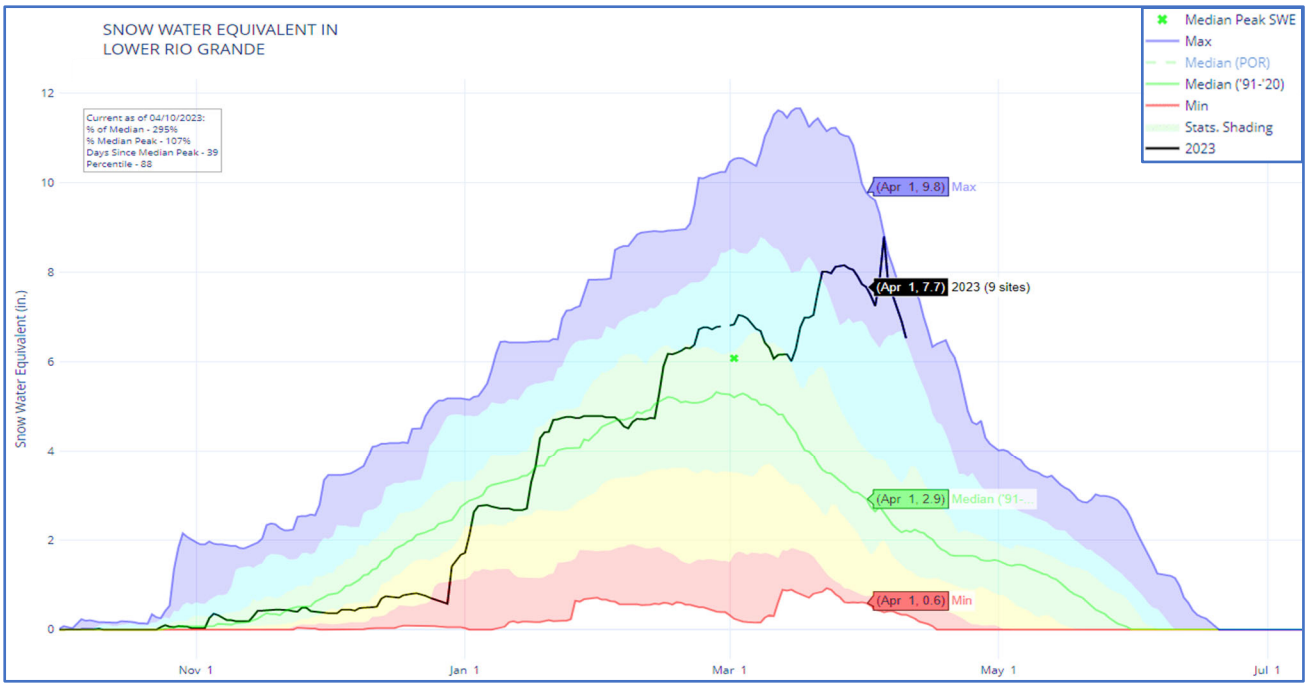
Lower Rio Grande
Streamflow Forecasts - April 1, 2023

		Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						
Lower Rio Grande	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Santa Fe R nr Santa Fe [2]								
	APR-JUL	3.9	4.7	5.4	186%	6.1	7.1	2.9
Rio Grande at San Marcial								
	MAR-JUL	450	565	640	186%	715	830	345
	APR-JUL	405	520	595	213%	670	785	280
Mimbres R at Mimbres								
	APR-MAY	2.5	3.5	4.3	377%	5.2	6.6	1.14
Jemez R nr Jemez								
	MAR-JUL	35	42	47	162%	52	60	29
	APR-JUL	30	37	42	175%	47	55	24
Jemez R bl Jemez Canyon Dam								
	MAR-JUL	26	33	39	177%	45	55	22
	APR-JUL	21	28	34	197%	40	50	17.3

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 March, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Elephant Butte Reservoir	330.8	239.6	546.7	2195.0
Mcclure Reservoir	1.5	0.4	1.9	3.3
Bluewater Lake	12.4	1.8	6.1	38.5
Cochiti Lake	43.2	43.1	51.0	491.0
Caballo Reservoir	55.4	15.9	53.2	332.0

Watershed Snowpack Analysis April 1, 2023	# of Sites	% Median	Last Year % Median
Lower Rio Grande	12	276%	94%
Jemez	3	284%	104%
Mimbres	2		



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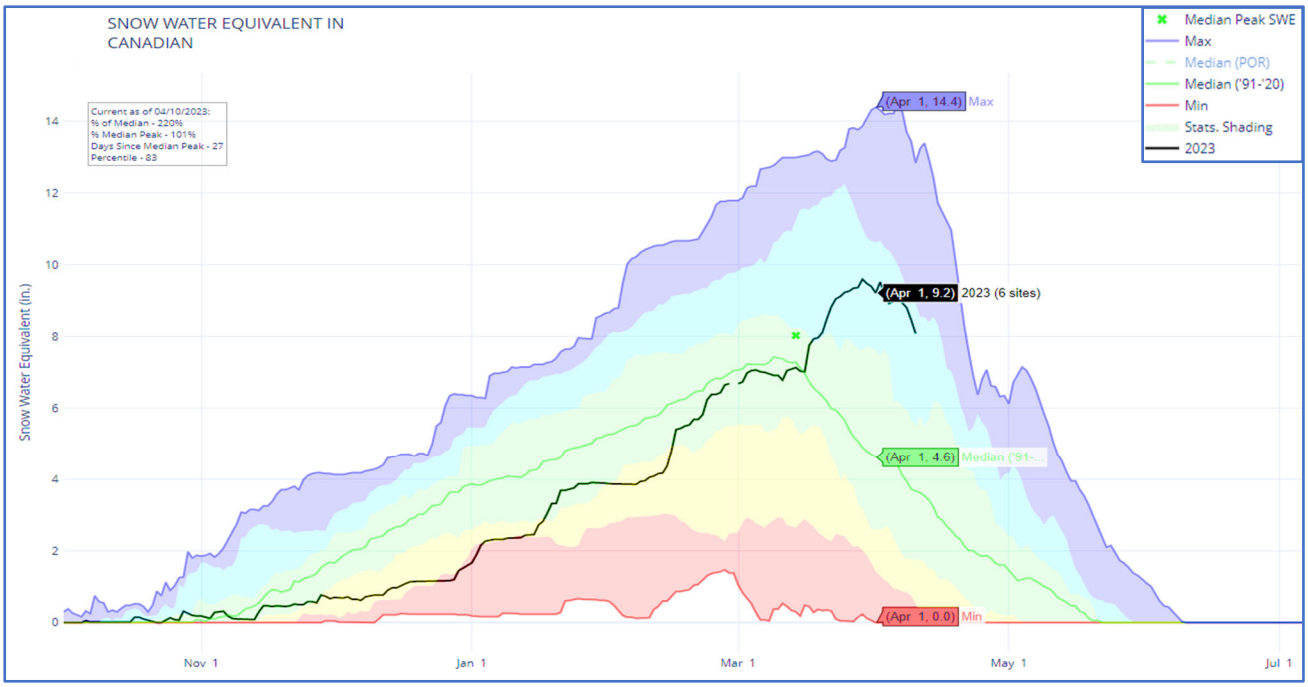
Canadian
Streamflow Forecasts - April 1, 2023

Canadian	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						
Vermejo R nr Dawson								
	MAR-JUN	1.85	3.4	4.8	91%	6.4	9.3	5.3
	APR-JUN	1.55	3.1	4.5	94%	6.1	9	4.8
Ponil Ck nr Cimarron								
	MAR-JUN	1.61	3.5	5.2	96%	7.3	11	5.4
	APR-JUN	1.39	3.3	5	102%	7.1	10.8	4.9
Cimarron R nr Cimarron[2]								
	MAR-JUN	4.7	9.2	12.3	134%	15.3	19.9	9.2
	APR-JUN	2.8	7.3	10.4	141%	13.4	18	7.4
Eagle Nest Reservoir Inflow								
	MAR-JUN	4	6.6	8.4	125%	10.1	12.7	6.7
	APR-JUN	2.2	4.8	6.6	135%	8.3	10.9	4.9
Rayado Ck nr Cimarron								
	MAR-JUN	2.7	4.6	5.9	116%	7.2	9.1	5.1
	APR-JUN	2.3	4.2	5.5	125%	6.8	8.7	4.4

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

Reservoir Storage End of March, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Conchas Lake	21.6	17.4	128.1	254.4
Eagle Nest Lake nr Eagle Nest, NM	34.3	37.6	46.8	79.0

Watershed Snowpack Analysis April 1, 2023	# of Sites	% Median	Last Year % Median
Canadian	9	181%	107%
Canadian Headwaters	8	192%	117%



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Pecos
Streamflow Forecasts - April 1, 2023

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

Pecos	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Gallinas Ck nr Montezuma								
	MAR-JUL	9.5	13.1	15.9	199%	19	24	8
	APR-JUL	7.6	11.2	14	215%	17.1	22	6.5
Rio Ruidoso at Hollywood								
	MAR-JUN	6.2	7.5	8.4	247%	9.4	11.1	3.4
	APR-JUN	3.7	5	5.9	227%	6.9	8.6	2.6
Pecos R nr Pecos								
	MAR-JUL	56	69	79	149%	90	107	53
	APR-JUL	53	66	76	155%	87	104	49
Pecos R ab Santa Rosa Lk								
	MAR-JUL	38	55	69	168%	84	109	41
	APR-JUL	35	52	66	189%	81	106	35
Pecos R nr Anton Chico								
	MAR-JUL	56	77	93	175%	111	140	53
	APR-JUL	47	68	84	191%	102	131	44

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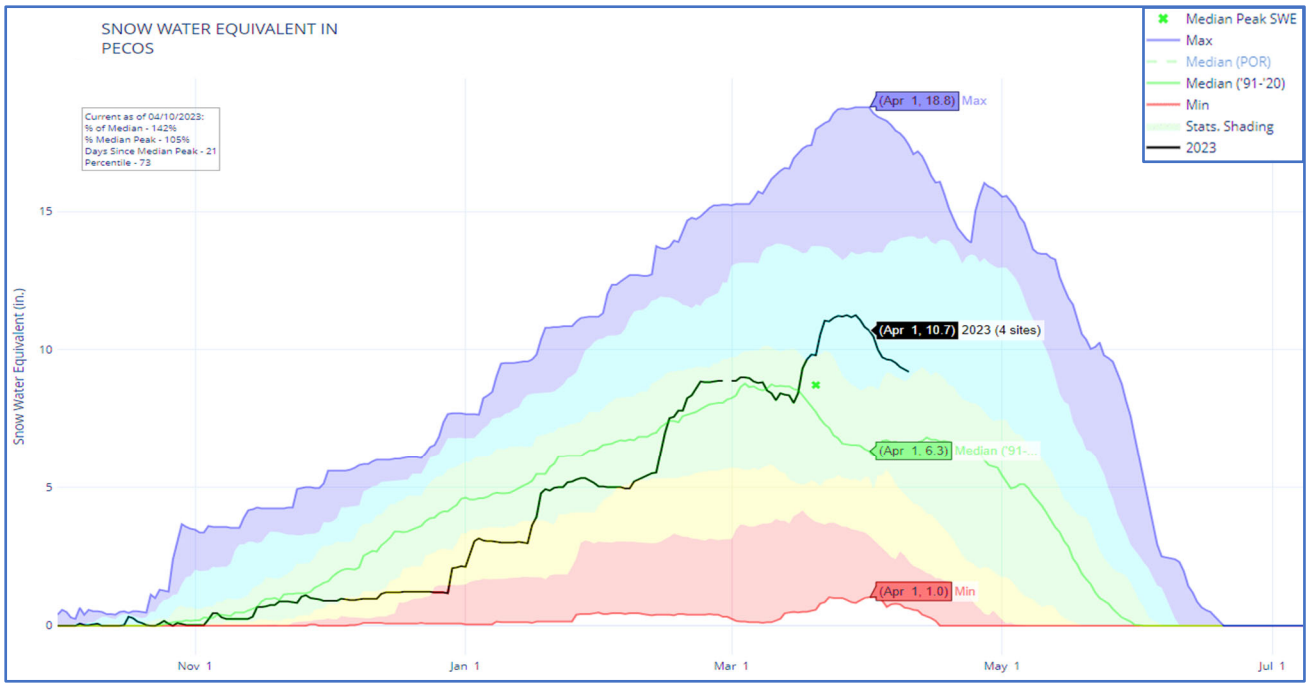
Reservoir Storage End of March, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Brantley Lake nr Carlsbad	36.1	31.7	33.9	1008.2
Brantley Lake nr Carlsbad	36.1	31.7	33.9	1008.2
Lake Avalon	1.1		1.3	4.0
Lake Avalon	1.1		1.3	4.0
Lake Sumner	20.4	15.9	27.2	102.0
Lake Sumner	20.4	15.9	27.2	102.0
Santa Rosa Reservoir	19.9	17.8	53.8	432.2
Santa Rosa Reservoir	19.9	17.8	53.8	432.2

Watershed Snowpack Analysis April 1, 2023	# of Sites	% Median	Last Year % Median
Pecos	6	179%	84%
Pecos Headwaters	5	172%	85%
Rio Hondo	1	725%	0%



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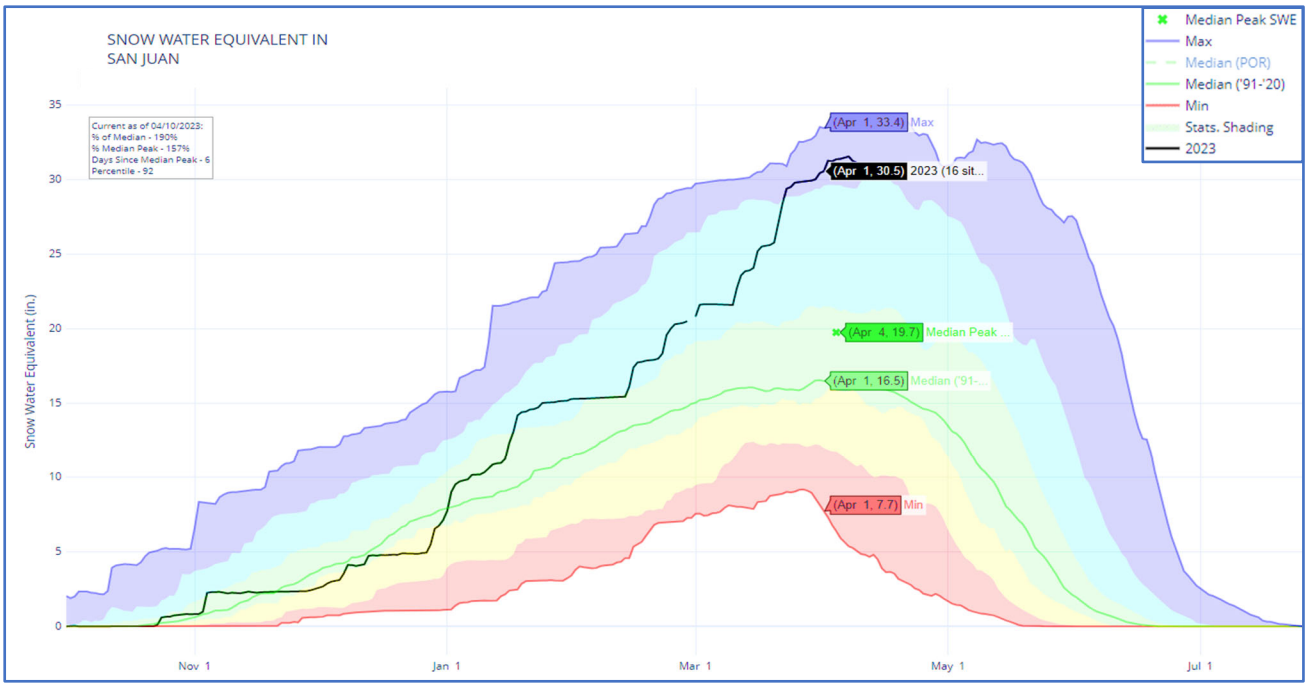
San Juan
Streamflow Forecasts - April 1, 2023

		Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						
San Juan	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Lemon Reservoir Inflow[2]	APR-JUL	68	79	86	191%	94	107	45
Mancos R nr Mancos [2]	APR-JUL	21	28	33	208%	39	48	15.9
Vallecito Reservoir Inflow[2]	APR-JUL	205	240	270	160%	295	340	169
Animas R at Durango	APR-JUL	510	580	630	168%	680	760	375
Rio Blanco at Blanco Diversion [2]	APR-JUL	59	68	75	156%	82	93	48
Captain Tom Wash nr Two Gray Hills	MAR-MAY	3.1	5.6	8	1290%	11	16.6	0.62
Navajo R bl Oso Diversion [2]	APR-JUL	71	82	90	161%	98	111	56
Piedra R nr Arboles	APR-JUL	235	270	300	171%	330	375	175
La Plata R at Hesperus	APR-JUL	25	30	33	176%	37	43	18.8
Navajo Reservoir Inflow [2]	APR-JUL	795	950	1060	168%	1180	1360	630
San Juan R nr Carracas [2]	APR-JUL	415	485	535	160%	585	670	335

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 March, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Lemon Reservoir	17.4	14.0	19.0	40.0
Jackson Gulch Reservoir	5.8	4.6	4.6	10.0
Vallecito Reservoir	45.6	48.2	74.5	126.0
Navajo Reservoir	920.0	853.5	1315.0	1696.0

Watershed Snowpack Analysis April 1, 2023	# of Sites	% Median	Last Year % Median
San Juan	25	206%	100%
San Juan Headwaters	14	169%	93%



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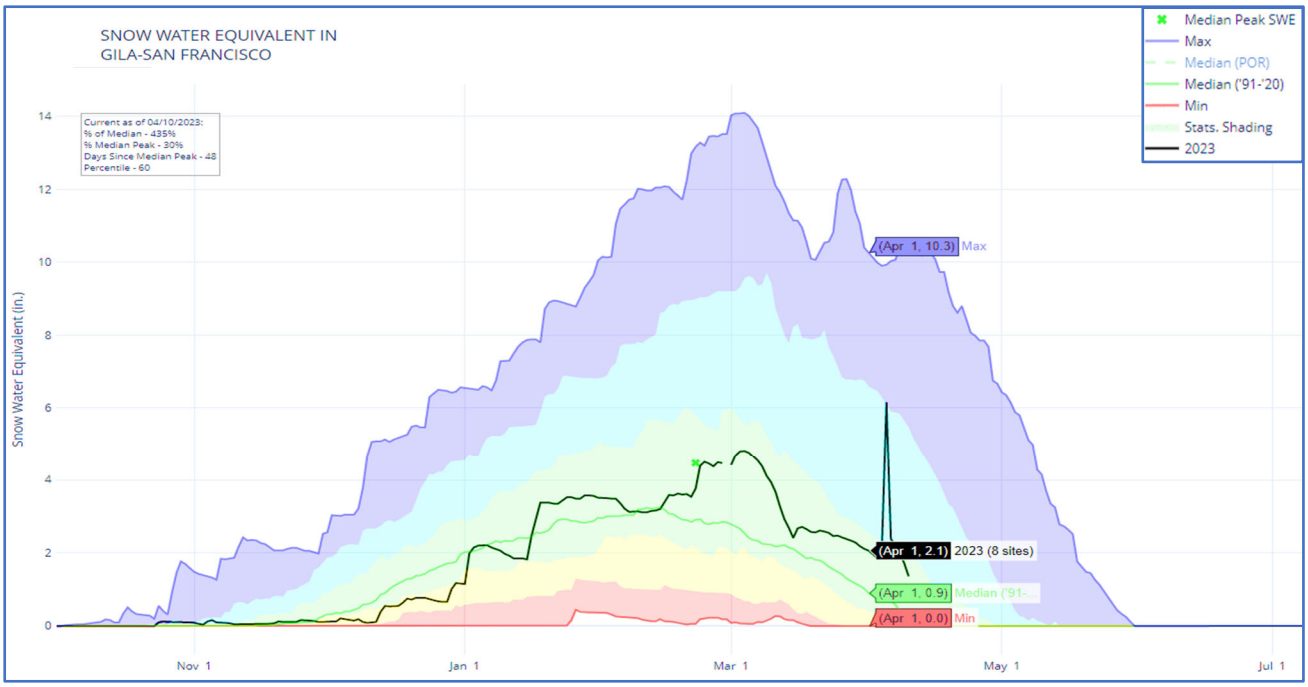
Gila-San Francisco
Streamflow Forecasts - April 1, 2023

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

Gila-San Francisco	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
San Francisco R at Clifton								
	APR-MAY	14.3	21	27	223%	34	46	12.1
Gila R bl Blue Ck nr Virden								
	APR-MAY	12.1	18.6	24	168%	30	42	14.3
Gila R at Gila								
	APR-MAY	13.5	17.7	21	154%	25	31	13.6
San Francisco R at Glenwood								
	APR-MAY	6.5	9.9	12.7	240%	16	22	5.3

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

Watershed Snowpack Analysis April 1, 2023	# of Sites	% Median	Last Year % Median
Gila-San Francisco	10	229%	11%
San Francisco	8	229%	10%
Upper Gila	3	160%	10%



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Zuni
Streamflow Forecasts - April 1, 2023

		Forecast Exceedance Probabilities For Risk Assessment Chance that actual volume will exceed forecast						
Zuni	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Zuni R ab Black Rock Reservoir	APR-MAY	0.27	0.58	0.85		1.17	1.73	
Rio Nutria nr Ramah	APR-MAY	1.15	1.68	2.1	2625%	2.6	3.3	0.08

1) 90% And 10% exceedance probabilities are actually 95% And 5%
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Watershed Snowpack Analysis April 1, 2023	# of Sites	% Median	Last Year % Median
Zuni	3		
Zuni-Bluewater	5		

NEW MEXICO WATER SUPPLY OUTLOOK REPORT

Natural Resources Conservation Service

Albuquerque, New Mexico

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