NRCS Natural Resources Conservation Service

USDA

New Mexico
Water Supply Outlook Report
March 1, 2023

Logan Peterson, NRCS Soil Scientist, performs a measurement at the Ojo Redondo manual snow course in the Zuni Mountains on February 28th, 2023. Snow Water Equivalent [SWE] at this site measured 192% of normal on this visit. NRCS Photo: Jaz Ammon

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.

March 1, 2023, Summary

Statewide increases in both Snow Water Equivalent [SWE] and total precipitation during February continue to paint an optimistic water supply picture for New Mexico's major river basins. Above to well above normal streamflow volumes are now likely for the runoff period in every aggregated basin system aside from the Canadian which has not seen the same magnitude of precipitation as other regions since the start of the 2023 water year. Most significant February gains in SWE were seen in the western New Mexico's San Juan, Zuni, Gila-San Francisco, and Lower Rio Grande basins, as well as in the upper Pecos. This new snowfall has the potential to substantially improve the outlook for snowmelt translating into observed streamflow during the spring runoff period when compared to calculations produced last month. When compared against March 2022 observations, the snowpack and overall water supply picture are greatly improved. 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 recent 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 early rainfall occurrence) may have a substantial impact on spring and summer runoff cycles. With the last month of precipitation accounted for, New Mexico's basins generally show much higher likelihood for near to above normal runoff as compared to the outlook for February. Streamflow forecasts generally reflect this trend.

A cool and generally wet month across much of the Rio Grande has been very good for snowpack accumulation in this region's mountains and the water supply forecasts have moved up from February calculations accordingly. While much of the basin appears poised to reach at least median volumetric runoff outcomes, the Saguache and Sangre de Cristo Mountain basins north of Taos will likely need above normal precipitation for the remainder of the snow accumulation period to reach that threshold. In the Canadian basin, forecasts jumped on the Cimarron and Rayado Rivers, where headwaters received much above normal precipitation.

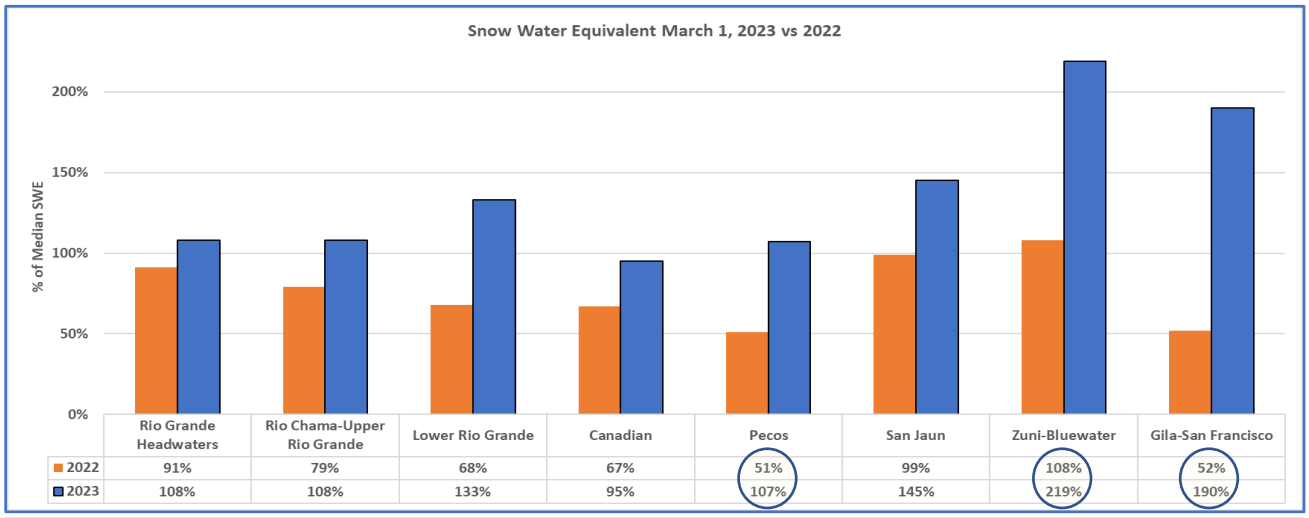
Confidence is increasing for above median flows in many forecast basins for the runoff period. February precipitation was again above median across much of the San Juan and lower Colorado contributing basins west of the Continental Divide, and the snowpack is currently far above normal peak levels in these portions of New Mexico. The water supply forecasts for western New Mexico reflect these conditions, and all forecast points along the New Mexico- Arizona state line are expected to see streamflow exceed median volumes by a considerable margin.

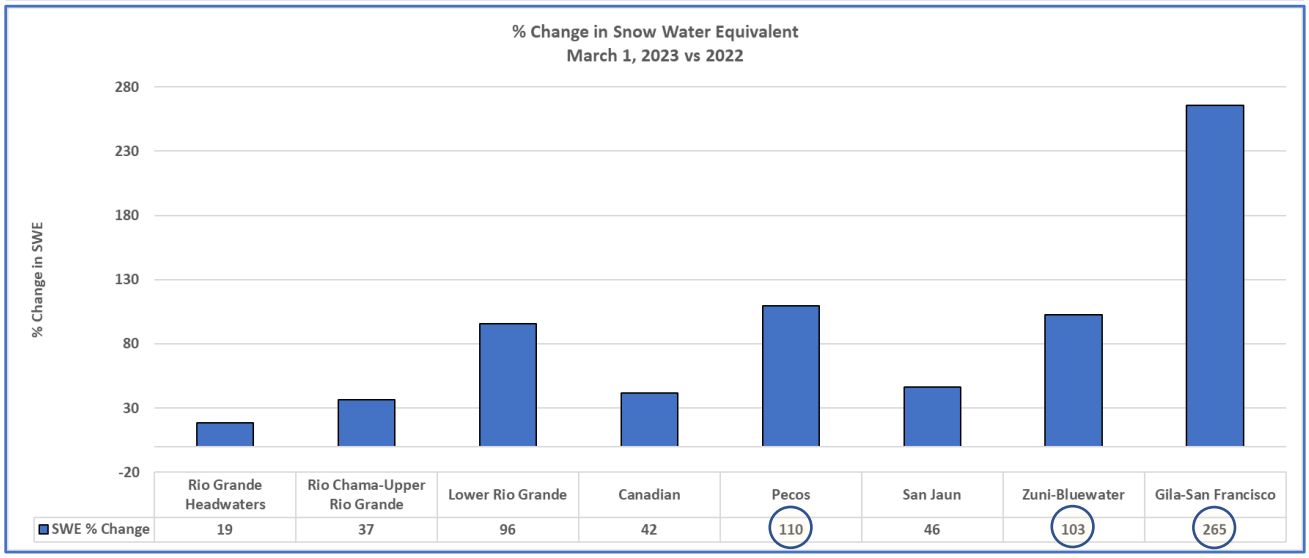
Forecast skill will continue to improve as more of the winter season weather has been recorded, so the range of possible flows throughout New Mexico's forecasted basins can be expected to narrow as peak SWE is reached and snowmelt begins. March and April are critical months for determining what the fate of the snow that has already fallen will be as well as how much additional moisture may be added to the existing snowpack.

Logan Peterson, NRCS Soil Scientist, skis toward the Hematite Park manual snow course in the Canadian Basin on February 22nd, 2023. SWE at this site measured 63% of normal for the March 1 survey cycle. NRCS Photo: Jaz Ammon

Snowpack

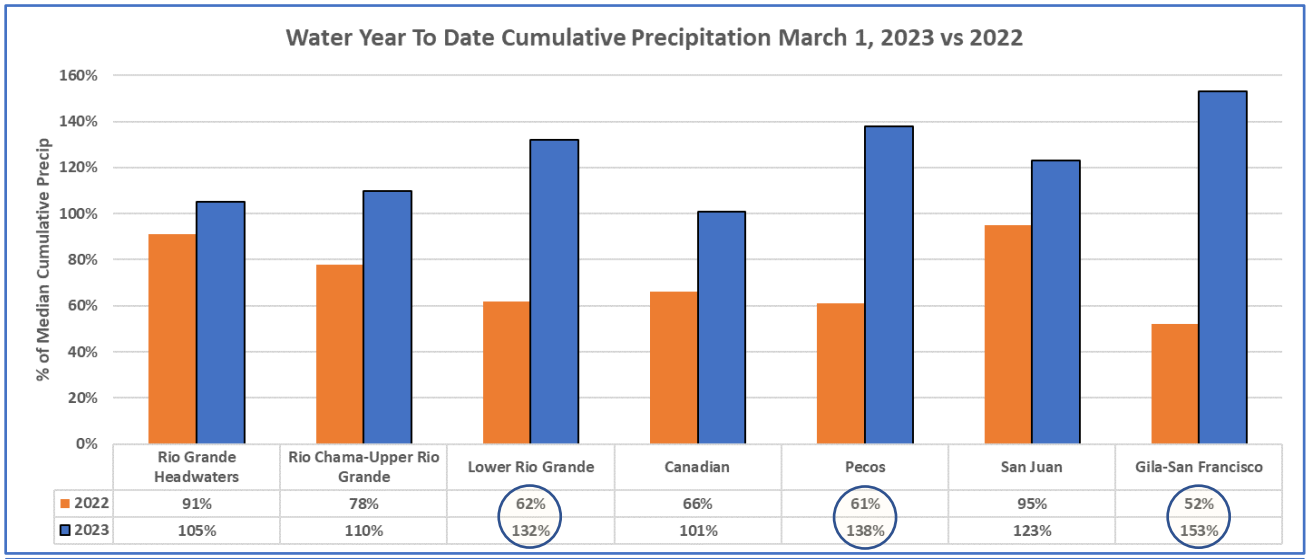
Continuing the trend established in prior months, snow accumulation through March 1, 2023, has been highest in the western New Mexico mountain ranges and along the continental divide, with less snow recorded further east in the state. Snowpack levels ranged from 219% of median Snow Water Equivalent [SWE] in the Zuni-Bluewater and 190% of median for the Gila-San Francisco basin to a low of 95% of reference period normal in the Canadian basin. Snowpack has improved since February 1, as the remaining New Mexico reporting basins all exhibit above to well above normal current SWE totals. The largest percentage change in SWE as compared to the March 1 reporting period in 2022 was recorded in the Gila-San Francisco Basin, with 265% change in SWE when compared to last year. Notably higher SWE measurements over March 1, 2023, were also recorded in the Pecos and Zuni-Bluewater Basins as shown in the figures below. Please note, the map graphic reports on manual measurements in the Zuni watershed alone, while the figures directly below reflect the inclusive 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.

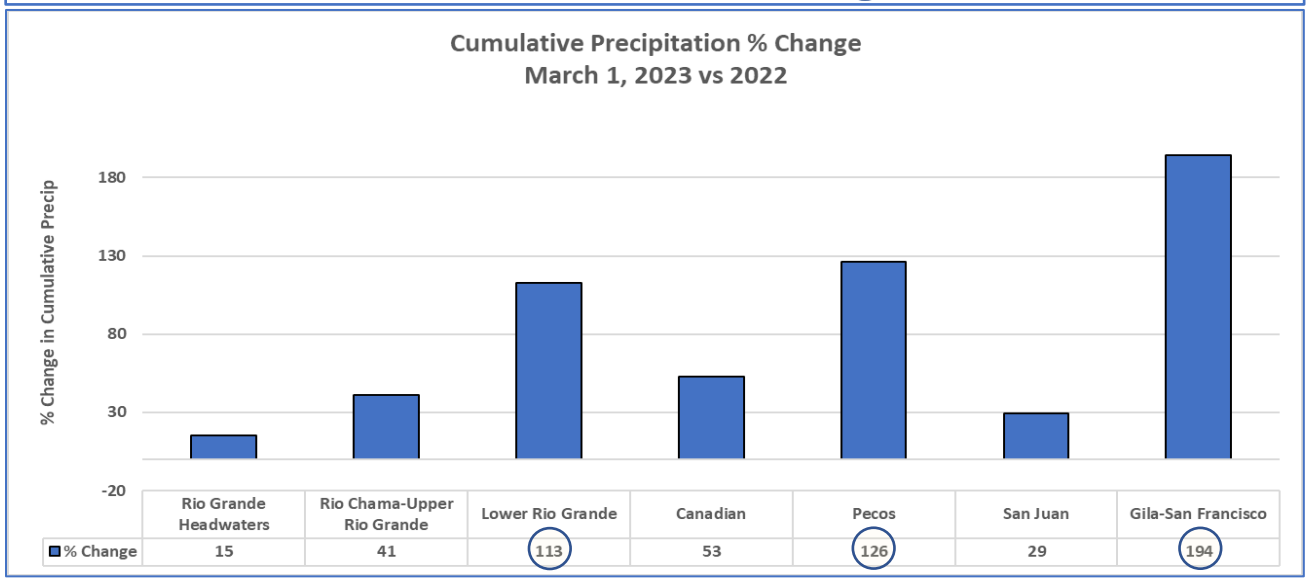




Precipitation

Water year-to-date precipitation for March 1, 2023, also continued the established trend reported in prior months with higher totals across the southern New Mexico basins and relatively less total precipitation further north in the state. All New Mexico basins are currently reporting above reference period normal total precipitation for water year 2023. Notably, the Gila-San Francisco basin has received 153% of normal precipitation since October 1, 2022, on the high end, while the Canadian basin represents the statewide low at just above normal. The remaining reported basins are all showing significant increases in overall precipitation to date compared to values measured in water year 2022 through March 1. The smallest percent change from last year has occurred in the Rio Grande Headwaters basin with a gain of 15% of median. Specific recorded totals for each New Mexico sub-basin can be seen in the tables included in the Basinwide Precipitation Summary below. Again, the map graphic shows the Zuni watershed alone, while the figures directly below include the Zuni and Bluewater basins as contributing to totals reported for the larger San Juan and Lower Rio Grande basins, respectively.

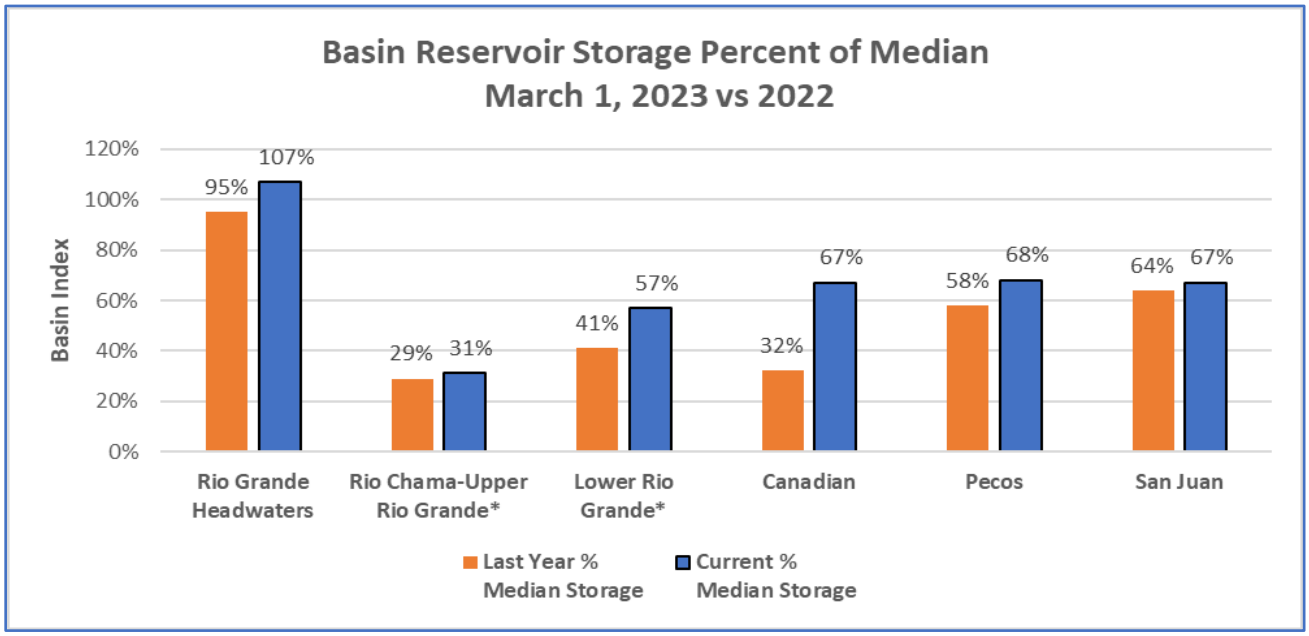




Reservoirs

New Mexico reservoir systems with data available at the time of reporting are showing increased storage levels compared to last year. Several computing issues were noted in the statewide reservoir storage totals after publication of the February 1, 2023, Water Supply Outlook Report for New Mexico. These errors have been corrected here. Water-users should continue to monitor reservoir management decisions and cumulative conditions to evaluate water use plans as the water year progresses and reservoir volumes increase toward annual peaks. Further detail for the status of specific reservoirs in each major basin can be found in the attached Reservoir Storage Summary tables.

Basinwide Summary: March 1, 2023 (Medians based on 1991-2020 reference period)	Reservoir Storage Summary End of February, 2023				
	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Rio Grande Headwaters	**27%**	**24%**	**25%**	**107%**	**95%**
Rio Chama-Upper Rio Grande*	**8%**	**8%**	**26%**	**31%**	**29%**
Lower Rio Grande*	**13%**	**9%**	**22%**	**57%**	**41%**
Canadian	**35%**	**16%**	**52%**	**67%**	**32%**
Pecos	**5%**	**4%**	**7%**	**68%**	**58%**
San Juan	**50%**	**48%**	**75%**	**67%**	**64%**



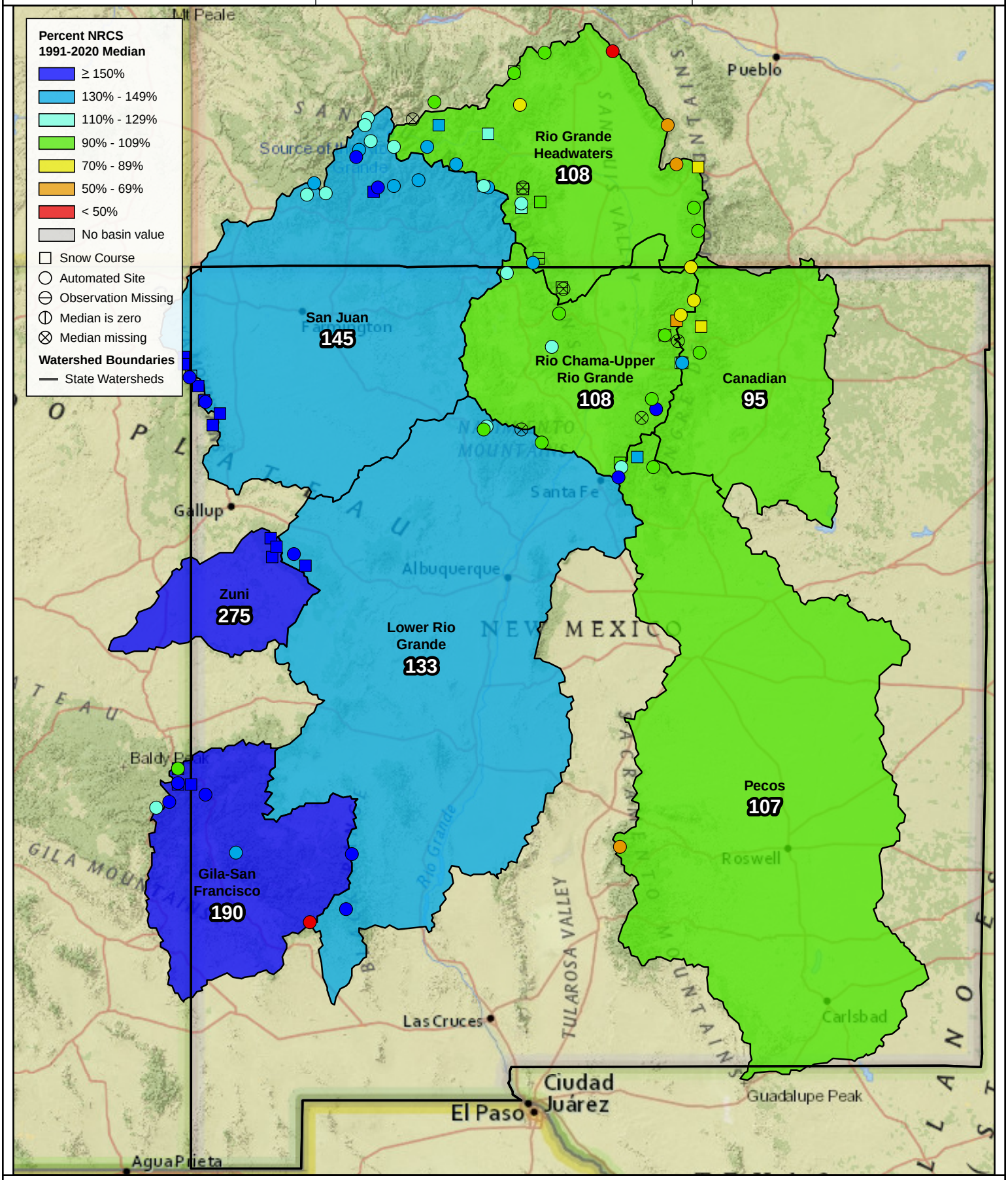
*Values calculated using available storage volume data only. March 1 NRCS storage volume reporting unavailable at time of publication for: Costilla Reservoir (Rio Chama- Upper Rio Grande); Bluewater Lake, McClure Reservoir (Lower Rio Grande).

Streamflow

For many New Mexico basins, March marks the beginning of the primary forecast period for NRCS streamflow volumes. Thus, the increased skill of forecasts included in this report allows these forecast volumes to provide operational value in many water use zones throughout the state. For both *observed* streamflow during the month of February and *forecasted* streamflow volumes for the primary forecast period using March 1 data inputs, the spatial distribution of higher flows closely follows that of observed water year-to-date total precipitation. Thus, the southern portion of New Mexico has seen well above normal monthly *observed* streamflow volumes in February while *forecast* volumes are well above normal for the southern as well as western New Mexico basins. Still, unpredictable future weather factors including continued snow accumulation, air temperature, cloud cover, airborne dust, and potential rain on snow events will continue to influence snow melt and runoff processes over the coming months. Many forecast points in the Rio Grande and San Juan basins will enter the primary forecast period beginning in April.

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. 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 March 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 but may provide conservative guidance for planning purposes to account for extreme high water 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.

Snow Water Equivalent	New Mexico Basinwide Snowpack Summary Percent NRCS 1991-2020 Median	March 1st, 2023



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United States Department of Agriculture

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

Snowpack Summary For March 1, 2023

Canadian	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Aztec #2	SC	9880	14	2.7	3.5	77%		
Hematite Park	SC	9500	17	3.0	4.8	63%	3.3	69%
North Costilla	SNOTEL	10598	24	5.5	6.6	83%	2.6	39%
Palo	SC	9300	29	5.8	6.0	97%	3.8	63%
Palo	SNOTEL	9343	27	7.2	5.2	138%	4.3	83%
Red River Pass #2	SNOTEL	9855	25	5.6	6.8	82%	4.2	62%
Shuree	SNOTEL	10092	21	4.2	5.4	78%	4.2	78%
Taos Canyon	SC	9100	22	4.6	4.0	115%	3.6	90%
Tolby	SNOTEL	10220	29	7.1	7.0	101%	5.2	74%
Wesner Springs	SNOTEL	11151	42	12.2	11.4	107%	7.0	61%
Basin Index						**95%**		**67%**
# of sites						10		9

Canadian Headwaters	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Aztec #2	SC	9880	14	2.7	3.5	77%		
Hematite Park	SC	9500	17	3.0	4.8	63%	3.3	69%
North Costilla	SNOTEL	10598	24	5.5	6.6	83%	2.6	39%
Palo	SC	9300	29	5.8	6.0	97%	3.8	63%
Palo	SNOTEL	9343	27	7.2	5.2	138%	4.3	83%
Red River Pass #2	SNOTEL	9855	25	5.6	6.8	82%	4.2	62%
Shuree	SNOTEL	10092	21	4.2	5.4	78%	4.2	78%
Taos Canyon	SC	9100	22	4.6	4.0	115%	3.6	90%
Tolby	SNOTEL	10220	29	7.1	7.0	101%	5.2	74%
Basin Index						**94%**		**68%**
# 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	10	4.4	1.2	367%	1.2	100%
Coronado Trail	SNOTEL	8418	12	5.0	0.6	833%	0.1	17%
Coronado Trail	SC	8350	13	4.3	0.4	1075%	0.0	0%
Frisco Divide	SNOTEL	8013	14	4.7	2.2	214%	0.5	23%
Hannagan Meadows	SNOTEL	9027	35	10.5	9.2	114%	6.1	66%
Lookout Mountain	SNOTEL	8509	1	0.4	0.1	400%	0.0	0%
Nutrioso	SC	8500	5	1.3	0.3	433%	0.0	0%
Nutrioso	SNOTEL	8571	1	0.1	0.1	100%	0.0	0%
Signal Peak	SNOTEL	8405	1	0.1	1.7	6%	0.0	0%
Silver Creek Divide	SNOTEL	9096	29	10.1	7.2	140%	4.5	63%
State Line	SC	8000	17	4.5	0.9	500%	0.0	0%
Basin Index						**190%**		**52%**
# of sites						11		11

San Francisco	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beaver Head	SNOTEL	8076	10	4.4	1.2	367%	1.2	100%
Coronado Trail	SNOTEL	8418	12	5.0	0.6	833%	0.1	17%
Coronado Trail	SC	8350	13	4.3	0.4	1075%	0.0	0%
Frisco Divide	SNOTEL	8013	14	4.7	2.2	214%	0.5	23%
Hannagan Meadows	SNOTEL	9027	35	10.5	9.2	114%	6.1	66%
Nutrioso	SC	8500	5	1.3	0.3	433%	0.0	0%

Nutrioso	SNOTEL	8571	1	0.1	0.1	100%	0.0	0%
Silver Creek Divide	SNOTEL	9096	29	10.1	7.2	140%	4.5	63%
State Line	SC	8000	17	4.5	0.9	500%	0.0	0%
Basin Index						**203%**		**56%**
# of sites						9		9

Upper Gila	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Lookout Mountain	SNOTEL	8509	1	0.4	0.1	400%	0.0	0%
Signal Peak	SNOTEL	8405	1	0.1	1.7	6%	0.0	0%
Silver Creek Divide	SNOTEL	9096	29	10.1	7.2	140%	4.5	63%
Basin Index						**118%**		**50%**
# 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	22	6.9	3.0	230%	3.0	100%
Elk Cabin	SNOTEL	8239	13	5.9	3.0	197%	0.6	20%
Garita Peak	SNOTEL	10115	32	9.4			5.3	
Lookout Mountain	SNOTEL	8509	1	0.4	0.1	400%	0.0	0%
Mcknight Cabin	SNOTEL	9242	13	4.7	1.7	276%	0.0	0%
Ojo Redondo	SC	8200	18	5.0	2.6	192%	2.4	92%
Quemazon	SNOTEL	9507	22	7.4	7.2	103%	4.8	67%
Rice Park	SNOTEL	8497	32	9.5	5.6	170%	5.7	102%
Rio En Medio	SC	10300	28	7.0	7.4	95%	3.1	42%
Santa Fe	SNOTEL	11465	51	13.2	11.2	118%	8.0	71%
Senorita Divide #2	SNOTEL	8569	31	7.7	7.2	107%	5.0	69%
Signal Peak	SNOTEL	8405	1	0.1	1.7	6%	0.0	0%
Vacas Locas	SNOTEL	9364	44	12.4	9.7	128%	8.4	87%
Basin Index						**133%**		**68%**
# 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	32	9.4			5.3	
Quemazon	SNOTEL	9507	22	7.4	7.2	103%	4.8	67%
Senorita Divide #2	SNOTEL	8569	31	7.7	7.2	107%	5.0	69%
Vacas Locas	SNOTEL	9364	44	12.4	9.7	128%	8.4	87%
Basin Index						**114%**		**76%**
# 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	13	4.7	1.7	276%	0.0	0%
Signal Peak	SNOTEL	8405	1	0.1	1.7	6%	0.0	0%
Basin Index						**141%**		**0%**
# 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	13	5.9	3.0	197%	0.6	20%
Panchuela	SC	8400	17	4.1	3.0	137%	2.7	90%
Rio en Medio	SC	10300	28	7.0	7.4	95%	3.1	42%
Santa Fe	SNOTEL	11465	51	13.2	11.2	118%	8.0	71%
Sierra Blanca	SNOTEL	10268	15	4.2	7.4	57%	0.6	8%
Wesner Springs	SNOTEL	11151	42	12.2	11.4	107%	7.0	61%
Basin Index						**107%**		**51%**
# 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	13	5.9	3.0	197%	0.6	20%
Panchuela	SC	8400	17	4.1	3.0	137%	2.7	90%
Rio en Medio	SC	10300	28	7.0	7.4	95%	3.1	42%
Santa Fe	SNOTEL	11465	51	13.2	11.2	118%	8.0	71%
Wesner Springs	SNOTEL	11151	42	12.2	11.4	107%	7.0	61%
Basin Index						**118%**		**59%**
# 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	15	4.2	7.4	57%	0.6	8%
Basin Index						**57%**		**8%**
# 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	42	11.5	9.6	120%	9.2	96%
Chamita	SNOTEL	8383	36	10.3	8.6	120%	8.1	94%
Cumbres Trestle	SNOTEL	10035	84	26.9	20.6	131%	23.5	114%
Elk Cabin	SNOTEL	8239	13	5.9	3.0	197%	0.6	20%
Gallegos Peak	SNOTEL	9480	37	9.3	8.9	104%	6.8	76%
Garita Peak	SNOTEL	10115	32	9.4			5.3	
Hematite Park	SC	9500	17	3.0	4.8	63%	3.3	69%
Hopewell	SNOTEL	10095	51	14.3	13.6	105%	11.8	87%
North Costilla	SNOTEL	10598	24	5.5	6.6	83%	2.6	39%
Palo	SC	9300	29	5.8	6.0	97%	3.8	63%
Palo	SNOTEL	9343	27	7.2	5.2	138%	4.3	83%
Quemazon	SNOTEL	9507	22	7.4	7.2	103%	4.8	67%
Red River Pass #2	SNOTEL	9855	25	5.6	6.8	82%	4.2	62%
Rio En Medio	SC	10300	28	7.0	7.4	95%	3.1	42%
Rio Santa Barbara	SNOTEL	10664	46	10.4			6.8	
Santa Fe	SNOTEL	11465	51	13.2	11.2	118%	8.0	71%
Shuree	SNOTEL	10092	21	4.2	5.4	78%	4.2	78%
Taos Canyon	SC	9100	22	4.6	4.0	115%	3.6	90%
Taos Powderhorn	SC	11250	70	17.0	19.3	88%	14.8	77%
Taos Powderhorn	SNOTEL	11045	51	14.0	14.4	97%	11.5	80%
Taos Pueblo	SNOTEL	11020	53	14.3			11.5	
Tres Ritos	SNOTEL	8755	12	4.0	0.4	1000%	0.0	0%
Basin Index						**108%**		**79%**
# 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	42	11.5	9.6	120%	9.2	96%
Chamita	SNOTEL	8383	36	10.3	8.6	120%	8.1	94%
Cumbres Trestle	SNOTEL	10035	84	26.9	20.6	131%	23.5	114%
Garita Peak	SNOTEL	10115	32	9.4			5.3	
Hopewell	SNOTEL	10095	51	14.3	13.6	105%	11.8	87%
Basin Index						**120%**		**100%**
# 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	13	5.9	3.0	197%	0.6	20%
Gallegos Peak	SNOTEL	9480	37	9.3	8.9	104%	6.8	76%
Hematite Park	SC	9500	17	3.0	4.8	63%	3.3	69%
North Costilla	SNOTEL	10598	24	5.5	6.6	83%	2.6	39%
Palo	SC	9300	29	5.8	6.0	97%	3.8	63%
Palo	SNOTEL	9343	27	7.2	5.2	138%	4.3	83%
Quemazon	SNOTEL	9507	22	7.4	7.2	103%	4.8	67%
Red River Pass #2	SNOTEL	9855	25	5.6	6.8	82%	4.2	62%
Rio En Medio	SC	10300	28	7.0	7.4	95%	3.1	42%
Rio Santa Barbara	SNOTEL	10664	46	10.4			6.8	
Santa Fe	SNOTEL	11465	51	13.2	11.2	118%	8.0	71%
Shuree	SNOTEL	10092	21	4.2	5.4	78%	4.2	78%
Taos Canyon	SC	9100	22	4.6	4.0	115%	3.6	90%
Taos Powderhorn	SNOTEL	11045	51	14.0	14.4	97%	11.5	80%
Taos Powderhorn	SC	11250	70	17.0	19.3	88%	14.8	77%
Taos Pueblo	SNOTEL	11020	53	14.3			11.5	
Tres Ritos	SNOTEL	8755	12	4.0	0.4	1000%	0.0	0%
Basin Index						**103%**		**68%**
# 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	75	21.4	16.6	129%	15.9	96%
Cochetopa Pass	SNOTEL	10061	20	4.2	4.0	105%	3.0	75%
Cochetopa Pass	SC	10000			3.9			
Culebra #2	SNOTEL	10562	41	9.9	10.6	93%	6.0	57%
Cumbres Trestle	SNOTEL	10035	84	26.9	20.6	131%	23.5	114%
Grayback	SNOTEL	11626	5	2.4			2.6	
Grayback	SC	11600			12.2			
Hayden Pass	SNOTEL	10699	24	5.8	12.7	46%	6.7	53%
La Veta Pass	SC	9440	28	5.4	7.6	71%	8.0	105%
Lily Pond	SNOTEL	11069	52	13.4	10.9	123%	12.6	116%
Medano Pass	SNOTEL	9668	12	2.9	5.5	53%	5.4	98%
Middle Creek	SNOTEL	11269	65	19.1	14.4	133%	16.0	111%
Moon Pass	SNOTEL	11128	16	4.3	5.0	86%	4.2	84%
North Costilla	SNOTEL	10598	24	5.5	6.6	83%	2.6	39%
Pinos Mill	SC	10000			18.0		19.9	111%
Platoro	SC	9880	53	13.2	11.2	118%	11.2	100%
Pool Table Mountain	SC	9840	23	5.0	4.0	125%	1.7	43%
Porcupine	SC	10280	39	8.7	6.6	132%	4.9	74%
San Antonio Sink	SNOTEL	9143	34	8.6			9.0	
San Antonio Sink	SC	9200			6.2		8.8	142%
Sargents Mesa	SNOTEL	11499	41	9.2	9.2	100%	5.8	63%
Silver Lakes	SC	9500	28	6.0	5.7	105%	7.7	135%
Slumgullion	SNOTEL	11560	46	10.1	10.6	95%	8.7	82%
Trinchera	SNOTEL	10922	35	7.9	8.0	99%	4.4	55%
Upper Rio Grande	SNOTEL	9379	35	8.3	5.8	143%	5.0	86%
Ute Creek	SNOTEL	10734	22	6.3	9.6	66%	7.3	76%
Wager Gulch	SNOTEL	11132	34	8.8			6.0	
Wolf Creek Summit	SNOTEL	10957	107	32.6	24.4	134%	29.8	122%
Basin Index						**108%**		**91%**
# of sites						21		21

Alamosa	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Grayback	SC	11600			12.2			
Grayback	SNOTEL	11626	5	2.4			2.6	
Lily Pond	SNOTEL	11069	52	13.4	10.9	123%	12.6	116%
Platoro	SC	9880	53	13.2	11.2	118%	11.2	100%
Silver Lakes	SC	9500	28	6.0	5.7	105%	7.7	135%
Basin Index						**117%**		**113%**
# of sites						3		3

Conejos	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Cumbres Trestle	SNOTEL	10035	84	26.9	20.6	131%	23.5	114%
Lily Pond	SNOTEL	11069	52	13.4	10.9	123%	12.6	116%
Pinos Mill	SC	10000			18.0		19.9	111%
Platoro	SC	9880	53	13.2	11.2	118%	11.2	100%
San Antonio Sink	SNOTEL	9143	34	8.6			9.0	
San Antonio Sink	SC	9200			6.2		8.8	142%
Basin Index						**125%**		**111%**
# of sites						3		3

Culebra-Trinchera	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Culebra #2	SNOTEL	10562	41	9.9	10.6	93%	6.0	57%
La Veta Pass	SC	9440	28	5.4	7.6	71%	8.0	105%
Trinchera	SNOTEL	10922	35	7.9	8.0	99%	4.4	55%
Ute Creek	SNOTEL	10734	22	6.3	9.6	66%	7.3	76%
Basin Index						**82%**		**72%**
# of sites						4		4

Headwaters Rio Grande	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beartown	SNOTEL	11600	75	21.4	16.6	129%	15.9	96%
Grayback	SC	11600			12.2			
Grayback	SNOTEL	11626	5	2.4			2.6	
Middle Creek	SNOTEL	11269	65	19.1	14.4	133%	16.0	111%
Pool Table Mountain	SC	9840	23	5.0	4.0	125%	1.7	43%
Porcupine	SC	10280	39	8.7	6.6	132%	4.9	74%
Slumgullion	SNOTEL	11560	46	10.1	10.6	95%	8.7	82%
Upper Rio Grande	SNOTEL	9379	35	8.3	5.8	143%	5.0	86%
Wager Gulch	SNOTEL	11132	34	8.8			6.0	
Wolf Creek Summit	SNOTEL	10957	107	32.6	24.4	134%	29.8	122%
Basin Index						**128%**		**100%**
# of sites						7		7

San Juan	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beartown	SNOTEL	11600	75	21.4	16.6	129%	15.9	96%
Beaver Spring	SNOTEL	9255	46	13.8	7.4	186%	7.2	97%
Beaver Spring	SC	9220			8.4		8.6	102%
Bowl Canyon	SC	8980	47	13.2	8.4	157%	8.2	98%
Cascade #2	SNOTEL	9012	50	14.5	9.2	158%	10.4	113%
Columbus Basin	SNOTEL	10781	83	24.0	18.6	129%	17.5	94%
Hidden Valley	SC	8480	40	12.0	6.4	188%	7.8	122%
Lemon Reservoir	SC	8700	47	13.1	7.2	182%	6.1	85%
Mancos	SNOTEL	10044	54	16.4	14.0	117%	11.8	84%
Mineral Creek	SNOTEL	10046	48	13.4	11.4	118%	8.8	77%
Missionary Spring	SC	7940	28	7.2	3.4	212%	3.6	106%
Molas Lake	SNOTEL	10631	65	18.0	14.6	123%	15.6	107%

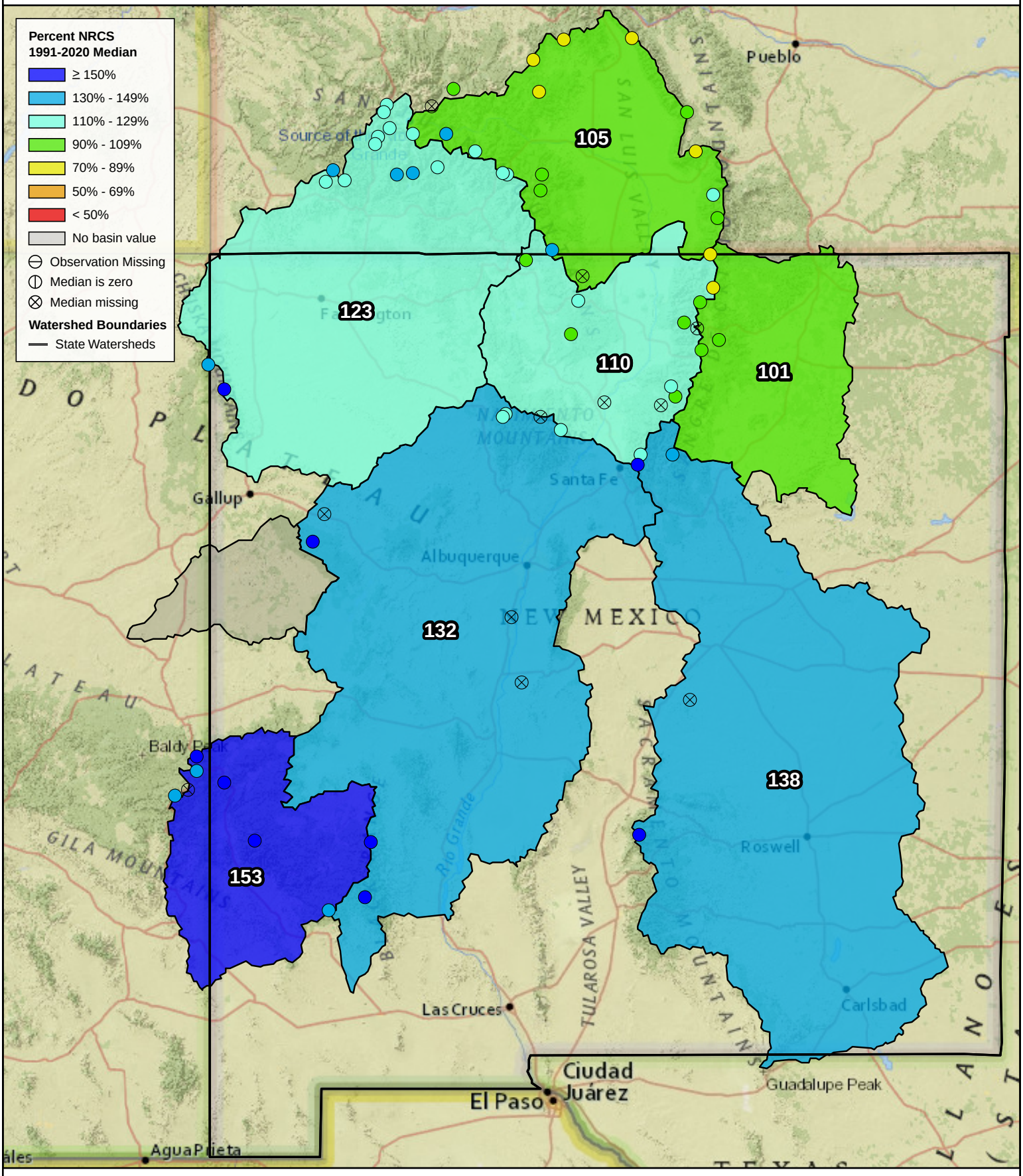
Navajo Whiskey Ck	SNOTEL	9064	49	15.3	7.3	210%	7.2	99%
Red Mountain Pass	SNOTEL	11080	78	21.7	17.1	127%	16.4	96%
Sharkstooth	SNOTEL	10747	78	22.7	15.2	149%	15.1	99%
Spud Mountain	SNOTEL	10674	96	27.3	19.2	142%	19.1	99%
Stump Lakes	SNOTEL	11248	77	20.7	13.8	150%	13.2	96%
Tsaile Canyon #1	SC	8160	41	12.6	5.9	214%	7.6	129%
Tsaile Canyon #3	SC	8920	49	14.7	8.6	171%	9.0	105%
Upper San Juan	SNOTEL	10140	96	30.9	23.9	129%	23.3	97%
Upper San Juan	SC	10200	97	31.3	24.2	129%	24.2	100%
Vallecito	SNOTEL	10782	75	18.6	13.0	143%	11.2	86%
Weminuche Creek	SNOTEL	10749	75	21.4	14.7	146%	11.9	81%
Whiskey Creek	SC	9050	57	18.0	8.8	205%	10.2	116%
Wolf Creek Summit	SNOTEL	10957	107	32.6	24.4	134%	29.8	122%
Basin Index						**145%**		**99%**
# of sites						24		24

San Juan Headwaters	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beartown	SNOTEL	11600	75	21.4	16.6	129%	15.9	96%
Cascade #2	SNOTEL	9012	50	14.5	9.2	158%	10.4	113%
Columbus Basin	SNOTEL	10781	83	24.0	18.6	129%	17.5	94%
Lemon Reservoir	SC	8700	47	13.1	7.2	182%	6.1	85%
Mineral Creek	SNOTEL	10046	48	13.4	11.4	118%	8.8	77%
Molas Lake	SNOTEL	10631	65	18.0	14.6	123%	15.6	107%
Red Mountain Pass	SNOTEL	11080	78	21.7	17.1	127%	16.4	96%
Spud Mountain	SNOTEL	10674	96	27.3	19.2	142%	19.1	99%
Stump Lakes	SNOTEL	11248	77	20.7	13.8	150%	13.2	96%
Upper San Juan	SNOTEL	10140	96	30.9	23.9	129%	23.3	97%
Upper San Juan	SC	10200	97	31.3	24.2	129%	24.2	100%
Vallecito	SNOTEL	10782	75	18.6	13.0	143%	11.2	86%
Weminuche Creek	SNOTEL	10749	75	21.4	14.7	146%	11.9	81%
Wolf Creek Summit	SNOTEL	10957	107	32.6	24.4	134%	29.8	122%
Basin Index						**136%**		**98%**
# of sites						14		14

Zuni	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Boon	SC	8140	22	6.9	3.0	230%	3.0	100%
Dan Valley	SC	7640	20	4.7	2.2	214%	2.6	118%
Mcgaffey	SC	8120	19	5.2	0.9	578%	1.8	200%
Basin Index						**275%**		**121%**
# 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	22	6.9	3.0	230%	3.0	100%
Dan Valley	SC	7640	20	4.7	2.2	214%	2.6	118%
Mcgaffey	SC	8120	19	5.2	0.9	578%	1.8	200%
Ojo Redondo	SC	8200	18	5.0	2.6	192%	2.4	92%
Rice Park	SNOTEL	8497	32	9.5	5.6	170%	5.7	102%
Basin Index						**219%**		**108%**
# of sites						5		5

Water Year to Date Precipitation	New Mexico Basinwide Precipitation Summary Percent NRCS 1991-2020 Median	October 1, 2022 - February 28, 2023



USDA Natural Resources Conservation Service
United States Department of Agriculture

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

			Monthly Total Precipitation For February 2023					Water Year To Date Precipitation through February 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	2.1	2	105%	1.1	55%	8.5	9.7	88%	5.8	60%
Palo	SNOTEL	9343	2.4	1.5	160%	1.3	87%	8.5	8.3	102%	5.5	66%
Red River Pass #2	SNOTEL	9855	1.7	1.6	106%	1.2	75%	7.2	8	90%	5.2	65%
Shuree	SNOTEL	10092	1.5	1.6	94%	1	63%	6.3	8.1	78%	4.9	60%
Tolby	SNOTEL	10220	2.7	1.6	169%	1.7	106%	10	10.2	98%	7.4	73%
Wesner Springs	SNOTEL	11151	4.9	2.4	204%	1.6	67%	17.5	13	135%	9.1	70%
Basin Index					**143%**		**74%**			**101%**		**66%**
# 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	2.1	2	105%	1.1	55%	8.5	9.7	88%	5.8	60%
Palo	SNOTEL	9343	2.4	1.5	160%	1.3	87%	8.5	8.3	102%	5.5	66%
Red River Pass #2	SNOTEL	9855	1.7	1.6	106%	1.2	75%	7.2	8	90%	5.2	65%
Shuree	SNOTEL	10092	1.5	1.6	94%	1	63%	6.3	8.1	78%	4.9	60%
Tolby	SNOTEL	10220	2.7	1.6	169%	1.7	106%	10	10.2	98%	7.4	73%
Basin Index					**125%**		**76%**			**91%**		**65%**
# 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			1		12.5			5.4	
Coronado Trail	SNOTEL	8418	1.7	1.6	106%	0.3	19%	11.9	8.8	135%	4.7	53%
Frisco Divide	SNOTEL	8013	2.1	1.2	175%	0.3	25%	11.2	6.8	165%	4.5	66%
Hannagan Meadows	SNOTEL	9027	3.7	2.9	128%	1.3	45%	18.9	13.6	139%	7.1	52%
Lookout Mountain	SNOTEL	8509	1.5	0.8	188%	0.3	38%	10.2	6	170%	2.8	47%
Nutrioso	SNOTEL	8571	1.6	0.8	200%	0.1	13%	10.4	5.6	186%	2.9	52%
Signal Peak	SNOTEL	8405	1.7	2.2	77%	0.4	18%	14.7	10.3	143%	4.2	41%
Silver Creek Divide	SNOTEL	9096	3.6	2.4	150%	0.9	38%	20.2	12.8	158%	7.2	56%
Basin Index					**134%**		**30%**			**153%**		**52%**
# 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			1		12.5			5.4	
Coronado Trail	SNOTEL	8418	1.7	1.6	106%	0.3	19%	11.9	8.8	135%	4.7	53%
Frisco Divide	SNOTEL	8013	2.1	1.2	175%	0.3	25%	11.2	6.8	165%	4.5	66%
Hannagan Meadows	SNOTEL	9027	3.7	2.9	128%	1.3	45%	18.9	13.6	139%	7.1	52%
Nutrioso	SNOTEL	8571	1.6	0.8	200%	0.1	13%	10.4	5.6	186%	2.9	52%
Silver Creek Divide	SNOTEL	9096	3.6	2.4	150%	0.9	38%	20.2	12.8	158%	7.2	56%
Basin Index					**143%**		**33%**			**153%**		**55%**
# 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	1.5	0.8	188%	0.3	38%	10.2	6	170%	2.8	47%
Signal Peak	SNOTEL	8405	1.7	2.2	77%	0.4	18%	14.7	10.3	143%	4.2	41%
Silver Creek Divide	SNOTEL	9096	3.6	2.4	150%	0.9	38%	20.2	12.8	158%	7.2	56%
Basin Index					**126%**		**30%**			**155%**		**49%**
# 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	3.4	1.2	283%	0.8	67%	12	8	150%	4.8	60%
Garita Peak	SNOTEL	10115	2.7			1.9		13.4			6.7	
Lookout Mountain	SNOTEL	8509	1.5	0.8	188%	0.3	38%	10.2	6	170%	2.8	47%
Mcknight Cabin	SNOTEL	9242	1.3	0.7	186%	0.2	29%	11.3	7.4	153%	2.4	32%
Quemazon	SNOTEL	9507	1.7	1.5	113%	1.6	107%	11.3	9.5	119%	6.2	65%
Rice Park	SNOTEL	8497	2.2	1.6	138%	1.1	69%	13.7	9	152%	9.1	101%
Santa Fe	SNOTEL	11465	5.3	2.5	212%	1.6	64%	16.9	14.6	116%	9.1	62%
Senorita Divide #2	SNOTEL	8569	2.7	1.8	150%	1.9	106%	12.8	11.6	110%	7.6	66%
Signal Peak	SNOTEL	8405	1.7	2.2	77%	0.4	18%	14.7	10.3	143%	4.2	41%
Vacas Locas	SNOTEL	9364	3.1	2.4	129%	1.9	79%	13.6	11.8	115%	8.7	74%
Basin Index					**156%**		**67%**			**132%**		**62%**
# 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	2.7			1.9		13.4			6.7	
Quemazon	SNOTEL	9507	1.7	1.5	113%	1.6	107%	11.3	9.5	119%	6.2	65%
Senorita Divide #2	SNOTEL	8569	2.7	1.8	150%	1.9	106%	12.8	11.6	110%	7.6	66%
Vacas Locas	SNOTEL	9364	3.1	2.4	129%	1.9	79%	13.6	11.8	115%	8.7	74%
Basin Index					**132%**		**95%**			**115%**		**68%**
# 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	1.3	0.7	186%	0.2	29%	11.3	7.4	153%	2.4	32%
Signal Peak	SNOTEL	8405	1.7	2.2	77%	0.4	18%	14.7	10.3	143%	4.2	41%
Basin Index					**103%**		**21%**			**147%**		**37%**
# 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	3.4	1.2	283%	0.8	67%	12	8	150%	4.8	60%
Santa Fe	SNOTEL	11465	5.3	2.5	212%	1.6	64%	16.9	14.6	116%	9.1	62%
Sierra Blanca	SNOTEL	10268	5.7	1.2	475%	1.7	142%	20.3	12.6	161%	6.3	50%
Wesner Springs	SNOTEL	11151	4.9	2.4	204%	1.6	67%	17.5	13	135%	9.1	70%
Basin Index					**264%**		**78%**			**138%**		**61%**
# 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	3.4	1.2	283%	0.8	67%	12	8	150%	4.8	60%
Santa Fe	SNOTEL	11465	5.3	2.5	212%	1.6	64%	16.9	14.6	116%	9.1	62%
Wesner Springs	SNOTEL	11151	4.9	2.4	204%	1.6	67%	17.5	13	135%	9.1	70%
Basin Index					**223%**		**66%**			**130%**		**65%**
# 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	5.7	1.2	475%	1.7	142%	20.3	12.6	161%	6.3	50%
Basin Index					**475%**		**142%**			**161%**		**50%**
# 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	2.5	2.1	119%	2.6	124%	11.5	11	105%	11	100%
Chamita	SNOTEL	8383	2.3	2	115%	2	100%	10.5	10.4	101%	8.2	79%
Cumbres Trestle	SNOTEL	10035	7	4.6	152%	3.9	85%	26.3	19.5	135%	19.8	102%
Elk Cabin	SNOTEL	8239	3.4	1.2	283%	0.8	67%	12	8	150%	4.8	60%
Gallegos Peak	SNOTEL	9480	3.2	2	160%	1.8	90%	13.3	11.4	117%	8.1	71%
Garita Peak	SNOTEL	10115	2.7			1.9		13.4			6.7	
Hopewell	SNOTEL	10095	3.8	3.4	112%	3.3	97%	16.2	14.3	113%	15.4	108%
North Costilla	SNOTEL	10598	2.1	2	105%	1.1	55%	8.5	9.7	88%	5.8	60%
Palo	SNOTEL	9343	2.4	1.5	160%	1.3	87%	8.5	8.3	102%	5.5	66%
Quemazon	SNOTEL	9507	1.7	1.5	113%	1.6	107%	11.3	9.5	119%	6.2	65%
Red River Pass #2	SNOTEL	9855	1.7	1.6	106%	1.2	75%	7.2	8	90%	5.2	65%
Rio Santa Barbara	SNOTEL	10664	3.2			1.7		13.4			8.4	
Santa Fe	SNOTEL	11465	5.3	2.5	212%	1.6	64%	16.9	14.6	116%	9.1	62%
Shuree	SNOTEL	10092	1.5	1.6	94%	1	63%	6.3	8.1	78%	4.9	60%
Taos Powderhorn	SNOTEL	11045	5	3.6	139%	3.1	86%	17.7	18.2	97%	15.3	84%
Taos Pueblo	SNOTEL	11020	6			2.9		20.9			16	
Tres Ritos	SNOTEL	8755	2.4	1.8	133%	1	56%	10.1	9.5	106%	5.8	61%
Basin Index					**141%**		**84%**			**110%**		**78%**
# 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	2.5	2.1	119%	2.6	124%	11.5	11	105%	11	100%
Chamita	SNOTEL	8383	2.3	2	115%	2	100%	10.5	10.4	101%	8.2	79%
Cumbres Trestle	SNOTEL	10035	7	4.6	152%	3.9	85%	26.3	19.5	135%	19.8	102%
Garita Peak	SNOTEL	10115	2.7			1.9		13.4			6.7	
Hopewell	SNOTEL	10095	3.8	3.4	112%	3.3	97%	16.2	14.3	113%	15.4	108%
Basin Index					**129%**		**98%**			**117%**		**99%**
# 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	3.4	1.2	283%	0.8	67%	12	8	150%	4.8	60%
Gallegos Peak	SNOTEL	9480	3.2	2	160%	1.8	90%	13.3	11.4	117%	8.1	71%
North Costilla	SNOTEL	10598	2.1	2	105%	1.1	55%	8.5	9.7	88%	5.8	60%
Palo	SNOTEL	9343	2.4	1.5	160%	1.3	87%	8.5	8.3	102%	5.5	66%
Quemazon	SNOTEL	9507	1.7	1.5	113%	1.6	107%	11.3	9.5	119%	6.2	65%
Red River Pass #2	SNOTEL	9855	1.7	1.6	106%	1.2	75%	7.2	8	90%	5.2	65%
Rio Santa Barbara	SNOTEL	10664	3.2			1.7		13.4			8.4	
Santa Fe	SNOTEL	11465	5.3	2.5	212%	1.6	64%	16.9	14.6	116%	9.1	62%
Shuree	SNOTEL	10092	1.5	1.6	94%	1	63%	6.3	8.1	78%	4.9	60%
Taos Powderhorn	SNOTEL	11045	5	3.6	139%	3.1	86%	17.7	18.2	97%	15.3	84%
Taos Pueblo	SNOTEL	11020	6			2.9		20.9			16	
Tres Ritos	SNOTEL	8755	2.4	1.8	133%	1	56%	10.1	9.5	106%	5.8	61%
Basin Index					**149%**		**75%**			**106%**		**67%**
# 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	4.5	3.6	125%	3.9	108%	21.9	19.4	113%	18.2	94%

Cochetopa Pass	SNOTEL	10061	1.1	1.1	100%	1.3	118%	4.5	5.9	76%	4.5	76%
Culebra #2	SNOTEL	10562	2.3	2	115%	1.3	65%	9.5	9.6	99%	5.6	58%
Cumbres Trestle	SNOTEL	10035	7	4.6	152%	3.9	85%	26.3	19.5	135%	19.8	102%
Grayback	SNOTEL	11626	3.2	2.4	133%	2.5	104%	14.4	13.2	109%	14.3	108%
Hayden Pass	SNOTEL	10699	1.9	2.3	83%	3.1	135%	8.6	10.7	80%	7.5	70%
Lily Pond	SNOTEL	11069	3.4	3	113%	3	100%	16.6	15.2	109%	15.1	99%
Medano Pass	SNOTEL	9668	1.7	1.7	100%	2.8	165%	7.1	7.6	93%	8.1	107%
Middle Creek	SNOTEL	11269	5	3.5	143%	3.7	106%	21.3	18.2	117%	17.7	97%
Moon Pass	SNOTEL	11128	1.5	1.4	107%	2.4	171%	4.7	6.7	70%	6.2	93%
North Costilla	SNOTEL	10598	2.1	2	105%	1.1	55%	8.5	9.7	88%	5.8	60%
San Antonio Sink	SNOTEL	9143	2.1			1.8		7.6			9.1	
Sargents Mesa	SNOTEL	11499	2.1	2	105%	1.5	75%	8.7	10.3	84%	6.4	62%
Slumgullion	SNOTEL	11560	3	1.8	167%	2.4	133%	10	10.5	95%	8.8	84%
Trinchera	SNOTEL	10922	2.3	1.8	128%	2.1	117%	10.4	8.7	120%	6.9	79%
Upper Rio Grande	SNOTEL	9379	2.5	1.3	192%	2.1	162%	10.4	7.8	133%	7	90%
Ute Creek	SNOTEL	10734	2.3	3.1	74%	3.9	126%	9.1	11.8	77%	10.7	91%
Wager Gulch	SNOTEL	11132	3.4			2.1		11			9.1	
Wolf Creek Summit	SNOTEL	10957	5.6	5.6	100%	6.8	121%	29	25.7	113%	28.8	112%
Basin Index					**119%**		**111%**			**105%**		**91%**
# 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	3.2	2.4	133%	2.5	104%	14.4	13.2	109%	14.3	108%
Lily Pond	SNOTEL	11069	3.4	3	113%	3	100%	16.6	15.2	109%	15.1	99%
Basin Index					**122%**		**102%**			**109%**		**104%**
# 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	7	4.6	152%	3.9	85%	26.3	19.5	135%	19.8	102%
Lily Pond	SNOTEL	11069	3.4	3	113%	3	100%	16.6	15.2	109%	15.1	99%
San Antonio Sink	SNOTEL	9143	2.1			1.8		7.6			9.1	
Basin Index					**137%**		**91%**			**124%**		**101%**
# 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	2.3	2	115%	1.3	65%	9.5	9.6	99%	5.6	58%
Trinchera	SNOTEL	10922	2.3	1.8	128%	2.1	117%	10.4	8.7	120%	6.9	79%
Ute Creek	SNOTEL	10734	2.3	3.1	74%	3.9	126%	9.1	11.8	77%	10.7	91%
Basin Index					**100%**		**106%**			**96%**		**77%**
# 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	4.5	3.6	125%	3.9	108%	21.9	19.4	113%	18.2	94%
Grayback	SNOTEL	11626	3.2	2.4	133%	2.5	104%	14.4	13.2	109%	14.3	108%
Middle Creek	SNOTEL	11269	5	3.5	143%	3.7	106%	21.3	18.2	117%	17.7	97%
Slumgullion	SNOTEL	11560	3	1.8	167%	2.4	133%	10	10.5	95%	8.8	84%
Upper Rio Grande	SNOTEL	9379	2.5	1.3	192%	2.1	162%	10.4	7.8	133%	7	90%
Wager Gulch	SNOTEL	11132	3.4			2.1		11			9.1	
Wolf Creek Summit	SNOTEL	10957	5.6	5.6	100%	6.8	121%	29	25.7	113%	28.8	112%
Basin Index					**131%**		**118%**			**113%**		**100%**
# of sites					6		6			6		6

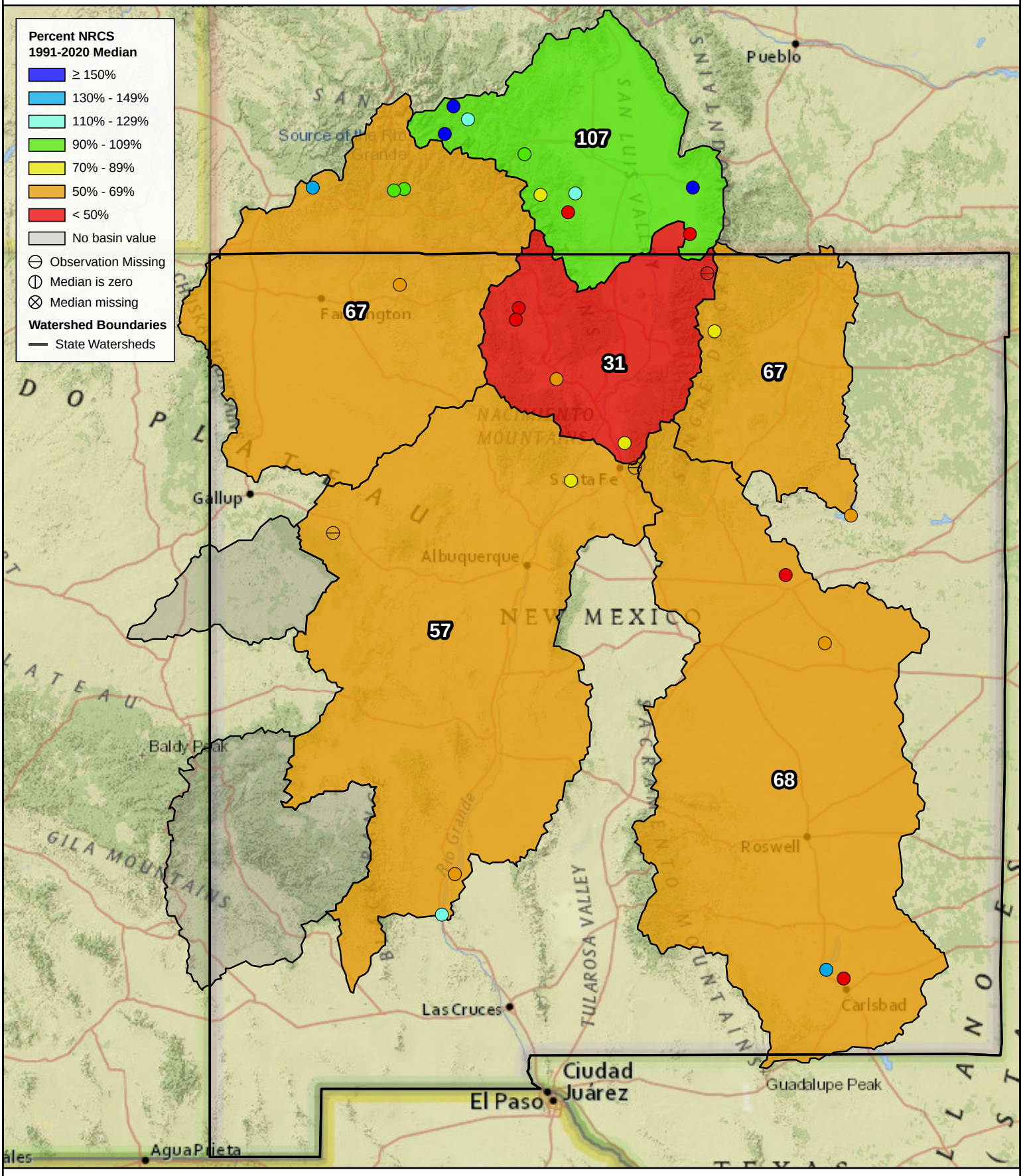
San Juan	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Beartown	SNOTEL	11600	4.5	3.6	125%	3.9	108%	21.9	19.4	113%	18.2	94%
Beaver Spring	SNOTEL	9255	4.3	2.7	159%	1.6	59%	17.8	13.2	135%	11.6	88%
Cascade #2	SNOTEL	9012	5	3	167%	3.3	110%	19	16.4	116%	14.7	90%
Columbus Basin	SNOTEL	10781	5.5	4.6	120%	3.2	70%	26.7	21.3	125%	19.8	93%
Mancos	SNOTEL	10044	3.2	2.8	114%	1.8	64%	17	14	121%	10.6	76%
Mineral Creek	SNOTEL	10046	3.4	2.7	126%	2.8	104%	15.4	13.8	112%	14	101%
Molas Lake	SNOTEL	10631	4	3.4	118%	2.4	71%	18.3	16	114%	17.2	108%
Navajo Whiskey Ck	SNOTEL	9064	3.5	1.7	206%	1.2	71%	15.9	9.9	161%	9.3	94%
Red Mountain Pass	SNOTEL	11080	4.8	4.2	114%	3.7	88%	23.4	20.4	115%	18.3	90%
Sharkstooth	SNOTEL	10747	5.3	3.4	156%	3.4	100%	24	17.8	135%	19	107%
Spud Mountain	SNOTEL	10674	7	4.8	146%	4.6	96%	29.6	22.9	129%	23.5	103%
Stump Lakes	SNOTEL	11248	4.7	3	157%	3	100%	22.3	16	139%	13.9	87%
Upper San Juan	SNOTEL	10140	7.3	5.8	126%	5.1	88%	31.5	27.9	113%	27.2	97%
Vallecito	SNOTEL	10782	4.8	3	160%	3	100%	19.4	14.4	135%	12.6	88%
Weminuche Creek	SNOTEL	10749	5.6	3.2	175%	3.9	122%	23.4	18.6	126%	15	81%
Wolf Creek Summit	SNOTEL	10957	5.6	5.6	100%	6.8	121%	29	25.7	113%	28.8	112%
Basin Index					**137%**		**93%**			**123%**		**95%**
# 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	4.5	3.6	125%	3.9	108%	21.9	19.4	113%	18.2	94%
Cascade #2	SNOTEL	9012	5	3	167%	3.3	110%	19	16.4	116%	14.7	90%
Columbus Basin	SNOTEL	10781	5.5	4.6	120%	3.2	70%	26.7	21.3	125%	19.8	93%

Mineral Creek	SNOTEL	10046	3.4	2.7	126%	2.8	104%	15.4	13.8	112%	14	101%
Molas Lake	SNOTEL	10631	4	3.4	118%	2.4	71%	18.3	16	114%	17.2	108%
Red Mountain Pass	SNOTEL	11080	4.8	4.2	114%	3.7	88%	23.4	20.4	115%	18.3	90%
Spud Mountain	SNOTEL	10674	7	4.8	146%	4.6	96%	29.6	22.9	129%	23.5	103%
Stump Lakes	SNOTEL	11248	4.7	3	157%	3	100%	22.3	16	139%	13.9	87%
Upper San Juan	SNOTEL	10140	7.3	5.8	126%	5.1	88%	31.5	27.9	113%	27.2	97%
Vallecito	SNOTEL	10782	4.8	3	160%	3	100%	19.4	14.4	135%	12.6	88%
Weminuche Creek	SNOTEL	10749	5.6	3.2	175%	3.9	122%	23.4	18.6	126%	15	81%
Wolf Creek Summit	SNOTEL	10957	5.6	5.6	100%	6.8	121%	29	25.7	113%	28.8	112%
Basin Index					**133%**		**97%**			**120%**		**96%**
# 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	2.2	1.6	138%	1.1	69%	13.7	9	152%	9.1	101%
Basin Index					**138%**		**69%**			**152%**		**101%**
# of sites					1		1			1		1

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



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

Reservoir Storage Summary For the End of February 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	83.4	18.6	128.4	254.4	33%	7%	50%	65%	14%
Eagle Nest Lake nr Eagle Nest, NM	32.5	36.3	45.4	79.0	41%	46%	57%	72%	80%
Basin Index					**35%**	**16%**	**52%**	**67%**	**32%**
# 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		1.9	4.2	38.5		5%	11%		46%
Caballo Reservoir	53.1	16.0	44.0	332.0	16%	5%	13%	121%	36%
Cochiti Lake	43.9	41.9	50.9	491.0	9%	9%	10%	86%	82%
Mcclure Reservoir		0.3	1.6	3.3		9%	50%		18%
Elephant Butte Reservoir	287.6	218.0	576.2	2195.0	13%	10%	26%	50%	38%
Basin Index					**13%**	**9%**	**22%**	**57%**	**41%**
# of reservoirs					3	5	5	3	5

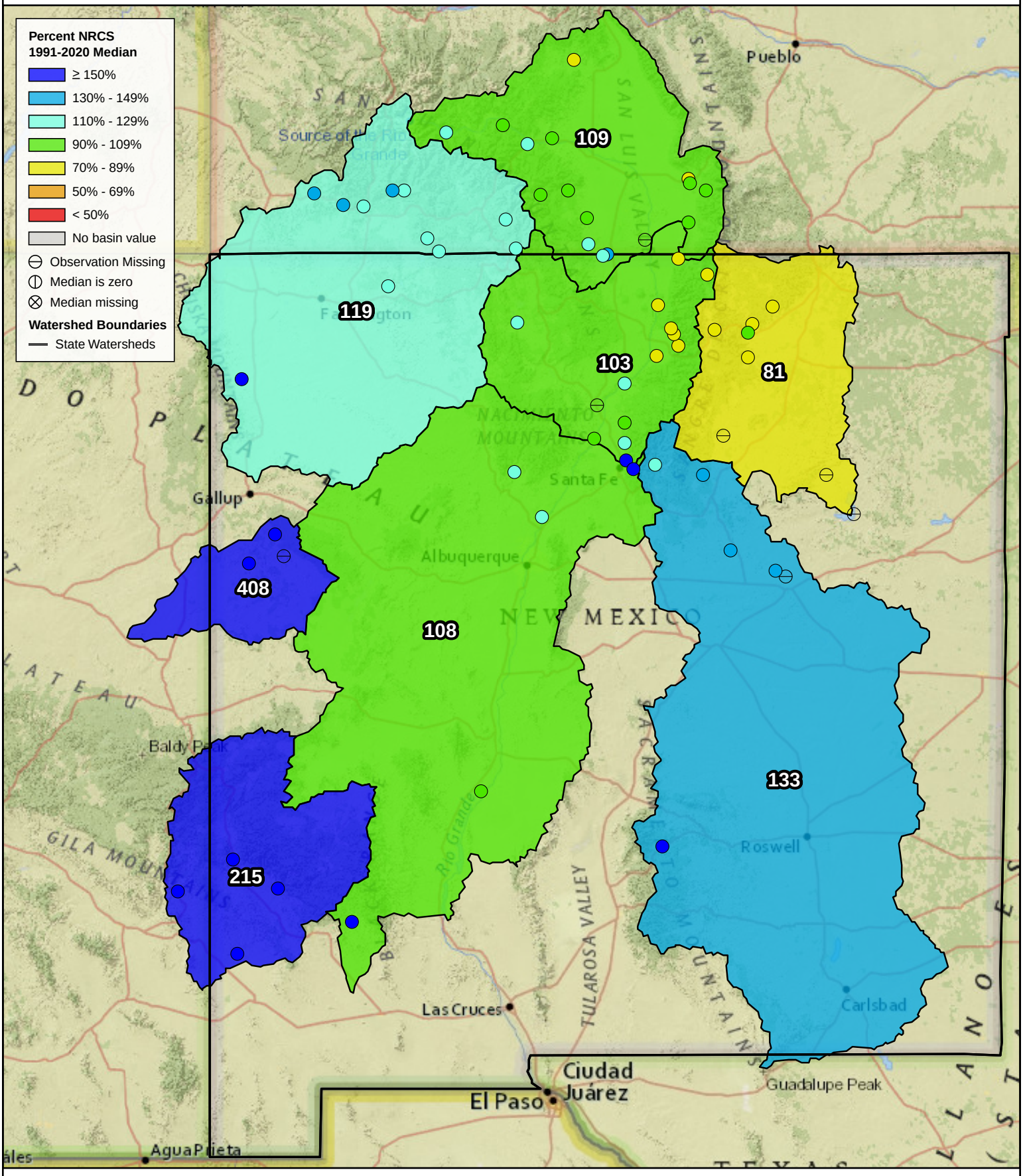
Pecos	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Lake Sumner	21.1	16.5	30.4	102.0	21%	16%	30%	69%	54%
Santa Rosa Reservoir	16.5	18.1	51.6	432.2	4%	4%	12%	32%	35%
Brantley Lake nr Carlsbad	39.3	30.0	29.1	1008.2	4%	3%	3%	135%	103%
Lake Avalon	0.0		2.8	4.0	0%		70%	0%	
Basin Index					**5%**	**4%**	**7%**	**68%**	**58%**
# 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	0.3	7.8	73.5	184.8	0%	4%	40%	0%	11%
Nambe Falls Reservoir	1.6	1.7	1.9	1.7	99%	101%	116%	85%	87%
Heron Reservoir	36.7	40.4	225.7	400.0	9%	10%	56%	16%	18%
Costilla Reservoir		4.2	6.4	16.0		26%	40%		65%
Abiquiu Reservoir	104.8	81.2	160.9	1198.5	9%	7%	13%	65%	50%
Basin Index					**8%**	**8%**	**26%**	**31%**	**29%**
# of reservoirs					4	5	5	4	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	3.9	3.7	4.2	4.5	87%	82%	93%	94%	87%
Santa Maria Reservoir	9.6	12.4	7.9	45.0	21%	28%	18%	122%	157%
Mountain Home Reservoir	4.5	4.2	2.5	18.0	25%	23%	14%	178%	169%
Sanchez Reservoir	8.4	6.5	19.6	103.0	8%	6%	19%	43%	33%
La Jara Reservoir	1.0	1.1	2.1					48%	53%
Platoro Reservoir	14.1	14.2	17.3	60.0	23%	24%	29%	81%	82%
Continental Reservoir	11.5	10.4	4.6	27.0	43%	38%	17%	250%	225%
Rio Grande Reservoir	27.8	21.2	18.3	51.0	54%	42%	36%	152%	116%
Terrace Reservoir	7.5	5.1	6.0	18.0	42%	28%	33%	125%	85%
Basin Index					**27%**	**24%**	**25%**	**107%**	**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	843.0	848.5	1311.0	1696.0	50%	50%	77%	64%	65%
Vallecito Reservoir	74.7	41.5	73.5	126.0	59%	33%	58%	102%	56%
Lemon Reservoir	17.1	13.3	18.8	40.0	43%	33%	47%	91%	71%
Jackson Gulch Reservoir	5.6	4.1	4.1	10.0	56%	41%	41%	136%	100%
Basin Index					**50%**	**48%**	**75%**	**67%**	**64%**
# of reservoirs					4	4	4	4	4

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



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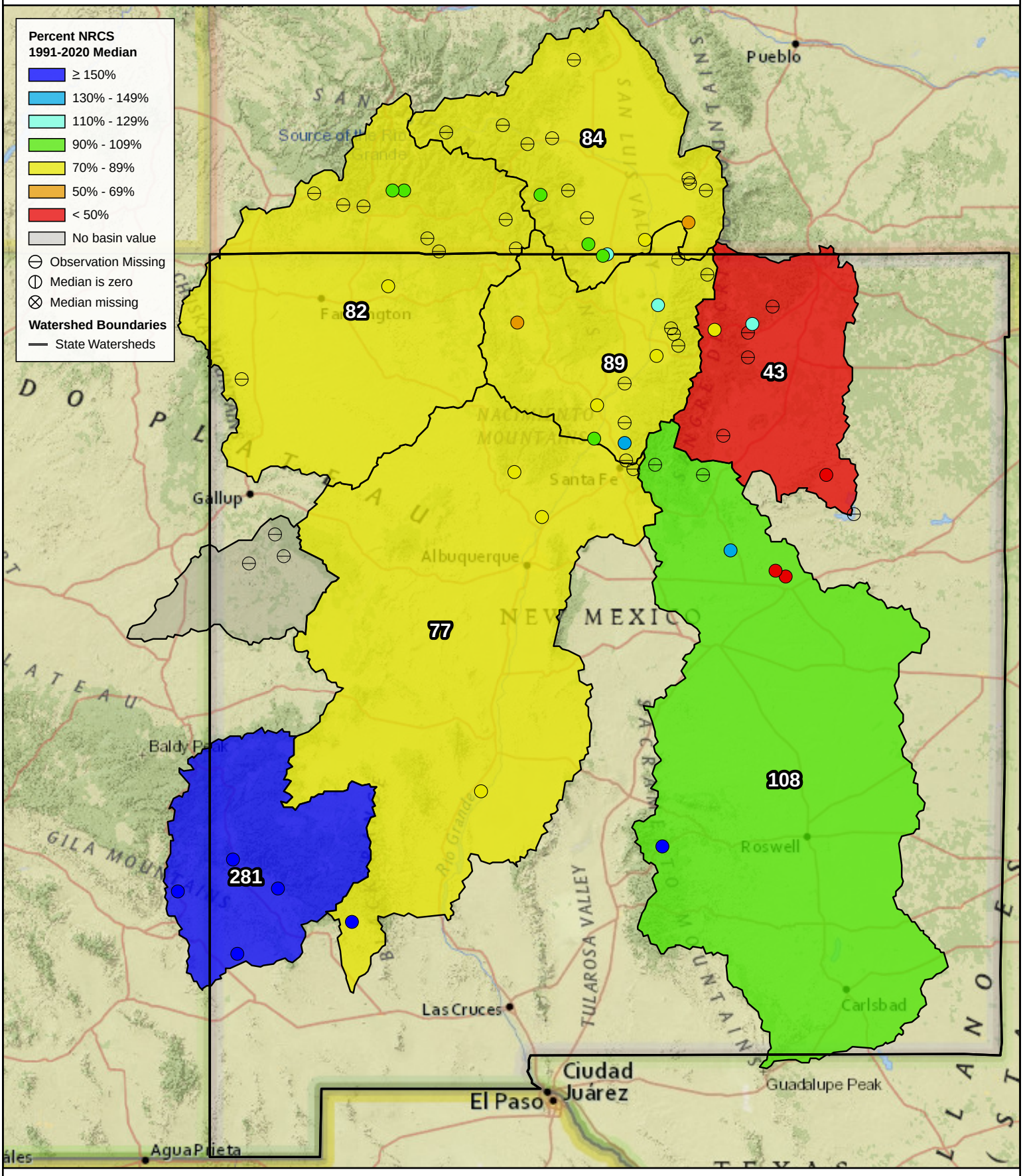
1 month Adjusted Volume, Observed	New Mexico Basinwide Observed Streamflow Summary Percent NRCS 1991-2020 Median	February 1, 2023 - February 28, 2023



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Created 3-08-2023

Report Created:
3/6/2023 7:39:06 AM

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

Canadian	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)
Vermejo R nr Dawson	MAR-JUN	0.1	1.96	3.8	72%	5.6	8.3	5.3
Cimarron R nr Cimarron[2]	MAR-JUN	0.05	5	8.4	91%	11.7	16.7	9.2
Eagle Nest Reservoir Inflow[2]	MAR-JUN	0.36	3.4	5.4	81%	7.4	10.4	6.7
Ponil Ck nr Cimarron	MAR-JUN	0.39	1.99	3.8	70%	6.2	10.7	5.4
Rayado Ck nr Cimarron	MAR-JUN	0.78	2.9	4.4	86%	5.9	8	5.1

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

Gila-San Francisco	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)
San Francisco R at Clifton	MAR-MAY	37	55	70	250%	87	118	28
Gila R at Gila	MAR-MAY	25	36	44	163%	54	70	27
Gila R bl Blue Ck nr Virden	MAR-MAY	30	45	58	200%	73	100	29
San Francisco R at Glenwood	MAR-MAY	15.4	24	31	292%	39	55	10.6

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

Lower Rio Grande	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)
Jemez R bl Jemez Canyon Dam	MAR-JUL	15.2	22	27	123%	32	41	22
Jemez R nr Jemez	MAR-JUL	22	29	34	117%	40	49	29
Santa Fe R nr Santa Fe [2]	MAR-JUL	3.3	4.3	5.1	155%	5.9	7.2	3.3
Mimbres R at Mimbres	MAR-MAY	1.56	2.9	4	209%	5.3	7.6	1.91
Rio Grande at San Marcial [2]	MAR-JUL	36	230	365	106%	495	690	345

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	42	55	66	125%	77	95	53
Rio Ruidoso at Hollywood								
	MAR-JUN	3.3	5.4	7	206%	8.9	12	3.4
Gallinas Ck nr Montezuma								
	MAR-JUL	5	8.3	11	138%	14.1	19.3	8
Pecos R ab Santa Rosa Lk								
	MAR-JUL	25	42	55	134%	71	97	41
Pecos R nr Anton Chico								
	MAR-JUL	35	56	72	136%	91	122	53

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						
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	12.4	15.6	18	108%	21	25	16.6
Costilla Reservoir Inflow[2]								
	MAR-JUL	4.3	6.4	8.1	79%	9.9	13	10.3
Nambe Falls Reservoir Inflow[2]								
	MAR-JUL	4.3	5.6	6.7	120%	7.8	9.6	5.6
Rio Lucero nr Arroyo Seco								
	MAR-JUL	4.7	6.6	8	79%	9.6	12.2	10.1
Embudo Ck at Dixon								
	MAR-JUL	21	31	39	122%	48	63	32
Tesuque Ck ab diversions								
	MAR-JUL	1.06	1.54	1.92	170%	2.3	3	1.13
Rio Pueblo de Taos nr Taos								
	MAR-JUL	5.5	8.5	11	88%	13.7	18.2	12.5
Rio Hondo nr Valdez								
	MAR-JUL	7	10.1	12.6	83%	15.3	19.8	15.1
Costilla Ck nr Costilla [2]								
	MAR-JUL	8.4	13.5	17.5	80%	22	30	22
Rio Grande at Otowi Bridge [2]								
	MAR-JUL	335	470	575	102%	690	880	565
Red R bl Fish Hatchery nr Questa								
	MAR-JUL	15.1	20	24	77%	29	36	31
Rio Pueblo de Taos bl Los Cordovas								
	MAR-JUL	5.3	11.6	17.3	82%	24	36	21
El Vado Reservoir Inflow [2]								
	MAR-JUL	136	182	215	116%	255	315	186
	APR-JUL	120	163	195	117%	230	290	166

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

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	3.3	6.9	10	92%	13.7	20	10.9
Ute Ck nr Fort Garland								
	APR-SEP	4.8	7.4	9.5	84%	11.9	15.8	11.3
Platoro Reservoir Inflow [2]								
	APR-JUL	41	50	56	110%	63	74	51
	APR-SEP	44	55	62	109%	70	82	57
Rio Grande at Wagon Wheel Gap[2]								
	APR-SEP	220	285	330	106%	380	460	310
San Antonio R at Ortiz								
	APR-SEP	7.8	10.9	13.3	139%	16	20	9.6
Rio Grande at Thirty Mile Bridge[2]								
	APR-JUL	87	108	122	110%	136	157	111
	APR-SEP	95	120	137	114%	154	179	120
Rio Grande nr Lobatos								
La Jara Ck nr Capulin								
	MAR-JUL	4.9	6.9	8.4	109%	10.1	12.8	7.7
Los Pinos R nr Ortiz								
	APR-SEP	50	63	73	120%	83	100	61
Saguache Ck nr Saguache [2]								
	APR-SEP	14	19.6	24	86%	29	37	28
Rio Grande nr Del Norte [2]								
	APR-SEP	340	435	505	105%	580	700	480
Alamosa Ck ab Terrace Reservoir								
	APR-SEP	46	57	66	108%	75	90	61
Conejos R nr Mogote [2]								
	APR-SEP	140	172	196	117%	220	260	168
SF Rio Grande at South Fork[2]								
	APR-SEP	92	114	130	116%	147	174	112
Trinchera Ck ab Turners Ranch								
	APR-SEP	4.6	7.3	9.4	91%	11.8	15.9	10.3
Culebra Ck at San Luis								
	APR-SEP	8.1	13	17.1	102%	22	29	16.7

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

San Juan	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Vallecito Reservoir Inflow[2]								
	APR-JUL	156	190	215	127%	240	285	169
Mancos R nr Mancos [2]								
	APR-JUL	11.1	17.2	22	138%	27	37	15.9
Lemon Reservoir Inflow[2]								
	APR-JUL	42	53	61	136%	69	83	45
Rio Blanco at Blanco Diversion [2]								
	APR-JUL	36	46	53	110%	61	74	48
Piedra R nr Arboles								
	APR-JUL	146	186	215	123%	245	295	175
Animas R at Durango								
	APR-JUL	345	420	475	127%	535	630	375
Navajo Reservoir Inflow [2]								
	APR-JUL	460	610	720	114%	840	1040	630

Navajo R bl Oso Diversion [2]								
	APR-JUL	43	55	64	114%	74	89	56
Captain Tom Wash nr Two Gray Hills								
	MAR-MAY	1.37	2.8	4.2	677%	5.9	9.4	0.62
La Plata R at Hesperus								
	APR-JUL	16.7	21	25	133%	29	35	18.8
San Juan R nr Carracas [2]								
	APR-JUL	245	315	370	110%	425	520	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

		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								
	MAR-MAY	0	0.08	0.55	1375%	1.44	3.5	0.04
Rio Nutria nr Ramah								
	MAR-MAY	0.22	0.58	0.92	288%	1.34	2.1	0.32

1) 90% And 10% exceedance probabilities are actually 95% And 5%
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Rio Grande Headwaters
Streamflow Forecasts - March 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)
Sangre de Cristo Ck [2]	APR-SEP	3.3	6.9	10	92%	13.7	20	10.9
Ute Ck nr Fort Garland	APR-SEP	4.8	7.4	9.5	84%	11.9	15.8	11.3
Platoro Reservoir Inflow [2]	APR-JUL	41	50	56	110%	63	74	51
	APR-SEP	44	55	62	109%	70	82	57
Rio Grande at Wagon Wheel Gap[2]	APR-SEP	220	285	330	106%	380	460	310
San Antonio R at Ortiz	APR-SEP	7.8	10.9	13.3	139%	16	20	9.6
Rio Grande at Thirty Mile Bridge[2]	APR-JUL	87	108	122	110%	136	157	111
	APR-SEP	95	120	137	114%	154	179	120
Rio Grande nr Lobatos								
La Jara Ck nr Capulin	MAR-JUL	4.9	6.9	8.4	109%	10.1	12.8	7.7
Los Pinos R nr Ortiz	APR-SEP	50	63	73	120%	83	100	61
Saguache Ck nr Saguache [2]	APR-SEP	14	19.6	24	86%	29	37	28
Rio Grande nr Del Norte [2]	APR-SEP	340	435	505	105%	580	700	480
Alamosa Ck ab Terrace Reservoir	APR-SEP	46	57	66	108%	75	90	61
Conejos R nr Mogote [2]	APR-SEP	140	172	196	117%	220	260	168
SF Rio Grande at South Fork[2]	APR-SEP	92	114	130	116%	147	174	112
Trinchera Ck ab Turners Ranch	APR-SEP	4.6	7.3	9.4	91%	11.8	15.9	10.3
Culebra Ck at San Luis	APR-SEP	8.1	13	17.1	102%	22	29	16.7

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 February, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Beaver Reservoir	3.9	3.7	4.2	4.5
Santa Maria Reservoir	9.6	12.4	7.9	45.0
Mountain Home Reservoir	4.5	4.2	2.5	18.0
Sanchez Reservoir	8.4	6.5	19.6	103.0
La Jara Reservoir		1.1	2.1	
Platoro Reservoir	14.1	14.2	17.3	60.0
Continental Reservoir	11.5	10.4	4.6	27.0
Rio Grande Reservoir	27.8	21.2	18.3	51.0
Terrace Reservoir	7.5	5.1	6.0	18.0

Watershed Snowpack Analysis March 1, 2023	# of Sites	% Median	Last Year % Median
Rio Grande Headwaters	19	107%	92%
Alamosa	3	117%	113%
Conejos	3	125%	111%
Culebra-Trinchera	4	82%	72%
Headwaters Rio Grande	5	127%	105%

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Rio Chama-Upper Rio Grande
Streamflow Forecasts - March 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)
Santa Cruz R at Cundiyo	MAR-JUL	12.4	15.6	18	108%	21	25	16.6
Costilla Reservoir Inflow[2]	MAR-JUL	4.3	6.4	8.1	79%	9.9	13	10.3
Nambe Falls Reservoir Inflow[2]	MAR-JUL	4.3	5.6	6.7	120%	7.8	9.6	5.6
Rio Lucero nr Arroyo Seco	MAR-JUL	4.7	6.6	8	79%	9.6	12.2	10.1
Embudo Ck at Dixon	MAR-JUL	21	31	39	122%	48	63	32
Tesuque Ck ab diversions	MAR-JUL	1.06	1.54	1.92	170%	2.3	3	1.13
Rio Pueblo de Taos nr Taos	MAR-JUL	5.5	8.5	11	88%	13.7	18.2	12.5
Rio Hondo nr Valdez	MAR-JUL	7	10.1	12.6	83%	15.3	19.8	15.1
Costilla Ck nr Costilla [2]	MAR-JUL	8.4	13.5	17.5	80%	22	30	22
Rio Grande at Otowi Bridge [2]	MAR-JUL	335	470	575	102%	690	880	565
Red R bl Fish Hatchery nr Questa	MAR-JUL	15.1	20	24	77%	29	36	31
Rio Pueblo de Taos bl Los Cordovas	MAR-JUL	5.3	11.6	17.3	82%	24	36	21
El Vado Reservoir Inflow [2]	MAR-JUL	136	182	215	116%	255	315	186
	APR-JUL	120	163	195	117%	230	290	166

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 February, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
El Vado Reservoir	0.3	7.8	73.5	184.8
Nambe Falls Reservoir	1.6	1.7	1.9	1.7
Heron Reservoir	36.7	40.4	225.7	400.0
Costilla Reservoir		4.2	6.4	16.0
Abiquiu Reservoir	104.8	81.2	160.9	1198.5

Watershed Snowpack Analysis March 1, 2023	# of Sites	% Median	Last Year % Median
Rio Chama-Upper Rio Grande	19	108%	79%
Rio Chama	4	120%	100%
Upper Rio Grande	15	103%	68%

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Lower Rio Grande
Streamflow Forecasts - March 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)
Jemez R bl Jemez Canyon Dam	MAR-JUL	15.2	22	27	123%	32	41	22
Jemez R nr Jemez	MAR-JUL	22	29	34	117%	40	49	29
Santa Fe R nr Santa Fe [2]	MAR-JUL	3.3	4.3	5.1	155%	5.9	7.2	3.3
Mimbres R at Mimbres	MAR-MAY	1.56	2.9	4	209%	5.3	7.6	1.91
Rio Grande at San Marcial [2]	MAR-JUL	36	230	365	106%	495	690	345

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 February, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Bluewater Lake		1.9	4.2	38.5
Caballo Reservoir	53.1	16.0	44.0	332.0
Cochiti Lake		41.9	50.9	491.0
Mcclure Reservoir		0.3	1.6	3.3
Elephant Butte Reservoir	287.6	218.0	576.2	2195.0

Watershed Snowpack Analysis March 1, 2023	# of Sites	% Median	Last Year % Median
Lower Rio Grande	12	133%	68%
Jemez	3	114%	76%
Mimbres	2	141%	0%

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Canadian
Streamflow Forecasts - March 1, 2023

Canadian	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)
Vermejo R nr Dawson	MAR-JUN	0.1	1.96	3.8	72%	5.6	8.3	5.3
Cimarron R nr Cimarron[2]	MAR-JUN	0.05	5	8.4	91%	11.7	16.7	9.2
Eagle Nest Reservoir Inflow[2]	MAR-JUN	0.36	3.4	5.4	81%	7.4	10.4	6.7
Ponil Ck nr Cimarron	MAR-JUN	0.39	1.99	3.8	70%	6.2	10.7	5.4
Rayado Ck nr Cimarron	MAR-JUN	0.78	2.9	4.4	86%	5.9	8	5.1

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 February, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Conchas Lake		18.6	128.4	254.4
Eagle Nest Lake nr Eagle Nest, NM		36.3	45.4	79.0

Watershed Snowpack Analysis March 1, 2023	# of Sites	% Median	Last Year % Median
Canadian	9	97%	67%
Canadian Headwaters	8	94%	68%

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Pecos
Streamflow Forecasts - March 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)
Pecos R nr Pecos								
	MAR-JUL	42	55	66	125%	77	95	53
Rio Ruidoso at Hollywood								
	MAR-JUN	3.3	5.4	7	206%	8.9	12	3.4
Gallinas Ck nr Montezuma								
	MAR-JUL	5	8.3	11	138%	14.1	19.3	8
Pecos R ab Santa Rosa Lk								
	MAR-JUL	25	42	55	134%	71	97	41
Pecos R nr Anton Chico								
	MAR-JUL	35	56	72	136%	91	122	53

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 February, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Lake Sumner	21.1	16.5	30.4	102.0
Santa Rosa Reservoir		18.1	51.6	432.2
Brantley Lake nr Carlsbad	39.3	30.0	29.1	1008.2
Lake Avalon			2.8	4.0

Watershed Snowpack Analysis March 1, 2023	# of Sites	% Median	Last Year % Median
Pecos	6	107%	51%
Pecos Headwaters	5	118%	59%
Rio Hondo	1	57%	8%

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San Juan
Streamflow Forecasts - March 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)
Vallecito Reservoir Inflow[2]	APR-JUL	156	190	215	127%	240	285	169
Mancos R nr Mancos [2]	APR-JUL	11.1	17.2	22	138%	27	37	15.9
Lemon Reservoir Inflow[2]	APR-JUL	42	53	61	136%	69	83	45
Rio Blanco at Blanco Diversion [2]	APR-JUL	36	46	53	110%	61	74	48
Piedra R nr Arboles	APR-JUL	146	186	215	123%	245	295	175
Animas R at Durango	APR-JUL	345	420	475	127%	535	630	375
Navajo Reservoir Inflow [2]	APR-JUL	460	610	720	114%	840	1040	630
Navajo R bl Oso Diversion [2]	APR-JUL	43	55	64	114%	74	89	56
Captain Tom Wash nr Two Gray Hills	MAR-MAY	1.37	2.8	4.2	677%	5.9	9.4	0.62
La Plata R at Hesperus	APR-JUL	16.7	21	25	133%	29	35	18.8
San Juan R nr Carracas [2]	APR-JUL	245	315	370	110%	425	520	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 February, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Navajo Reservoir	843.0	848.5	1311.0	1696.0
Vallecito Reservoir	74.7	41.5	73.5	126.0
Lemon Reservoir	17.1	13.3	18.8	40.0
Jackson Gulch Reservoir	5.6	4.1	4.1	10.0

Watershed Snowpack Analysis March 1, 2023	# of Sites	% Median	Last Year % Median
San Juan	24	145%	99%
San Juan Headwaters	14	136%	98%

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Zuni

Streamflow Forecasts - March 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								
	MAR-MAY	0	0.08	0.55	1375%	1.44	3.5	0.04
Rio Nutria nr Ramah								
	MAR-MAY	0.22	0.58	0.92	288%	1.34	2.1	0.32

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

Watershed Snowpack Analysis March 1, 2023	# of Sites	% Median	Last Year % Median
Zuni	3	275%	121%
Zuni-Bluewater	5	219%	108%

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Gila-San Francisco
Streamflow Forecasts - March 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								
	MAR-MAY	37	55	70	250%	87	118	28
Gila R at Gila								
	MAR-MAY	25	36	44	163%	54	70	27
Gila R bl Blue Ck nr Virden								
	MAR-MAY	30	45	58	200%	73	100	29
San Francisco R at Glenwood								
	MAR-MAY	15.4	24	31	292%	39	55	10.6

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

Watershed Snowpack Analysis March 1, 2023	# of Sites	% Median	Last Year % Median
Gila-San Francisco	11	190%	52%
San Francisco	9	203%	56%
Upper Gila	3	118%	50%

NEW MEXICO WATER SUPPLY OUTLOOK REPORT

Natural Resources Conservation Service

Albuquerque, New Mexico

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