NRCS Natural Resources Conservation Service

USDA

New Mexico
Water Supply Outlook Report
February 1, 2023

Alfred "Buster" Chavez (New Mexico Office of the State Engineer) measuring conditions at the Aztec #2 Snow Course in the Canadian basin above Cimarron, New Mexico on January 31st, 2023. Snow Water Equivalent [SWE] at this site was 70% of the reference period median at the time of this survey.
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.

February 1, 2023 Summary

As noted by one forecast hydrologist, “if you are looking for more water, last month’s precipitation was encouraging, at least compared to conditions on January 1” throughout New Mexico. 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. 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. Notably though, half of the typical snow accumulation season for the state still lies ahead. Additionally, 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 these factors in mind, note there is still significant uncertainty in these current forecasts. With the last month of precipitation accounted for, New Mexico generally has a much higher likelihood for near normal runoff as compared to the outlook for January. Streamflow forecasts generally reflect this trend.

For Snow Water Equivalent [SWE], a strong trend toward a more robust snowpack in the western portions of the state can be seen in the associated map graphic. Streamflow *forecasts* for the primary forecast period in each basin generally follow the same spatial distribution as SWE totals. Thus the 50% exceedance probability streamflow volumes forecasted for basins draining west from the continental divide generally trend higher for the melt-driven runoff months in those basins.

Generous snow accumulation in some areas of the state were captured by above median observed streamflow for January in these regions. However, a different spatial pattern emerges with cumulative precipitation and *observed* streamflow values. The southern portion of New Mexico has received more generous water year-to-date total precipitation (as both rain and snow) compared to basins further north in the state and comparing this total to observed streamflow shows a good match for this distinct geospatial pattern. Both cumulative precipitation and

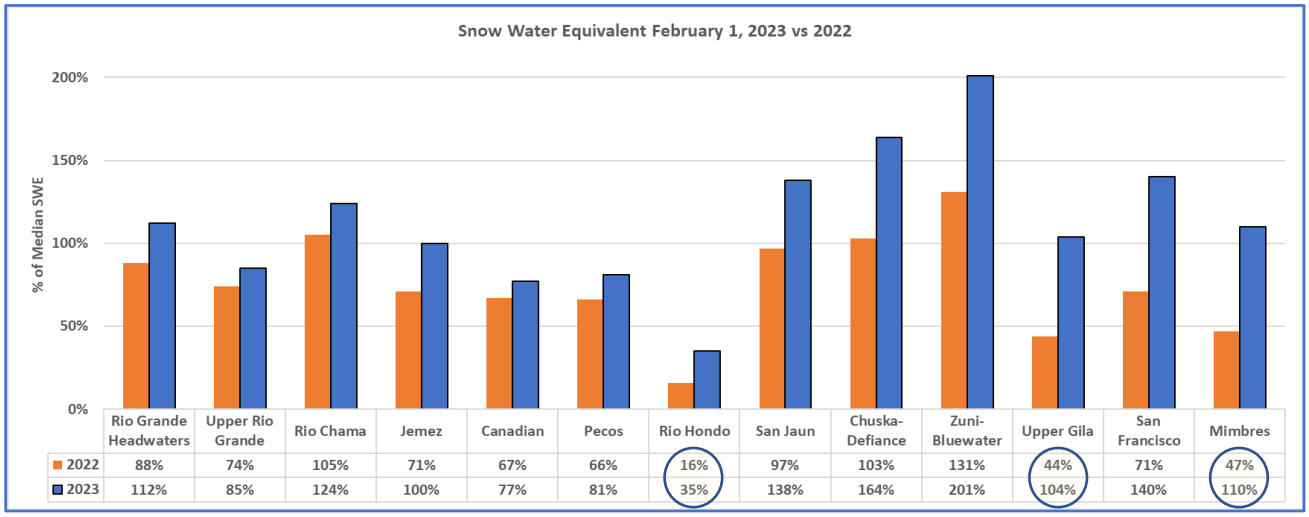
observed streamflow volumes for January were above to well above the period of record median for all basins in which data were available.

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 remains relatively wide for February 1.

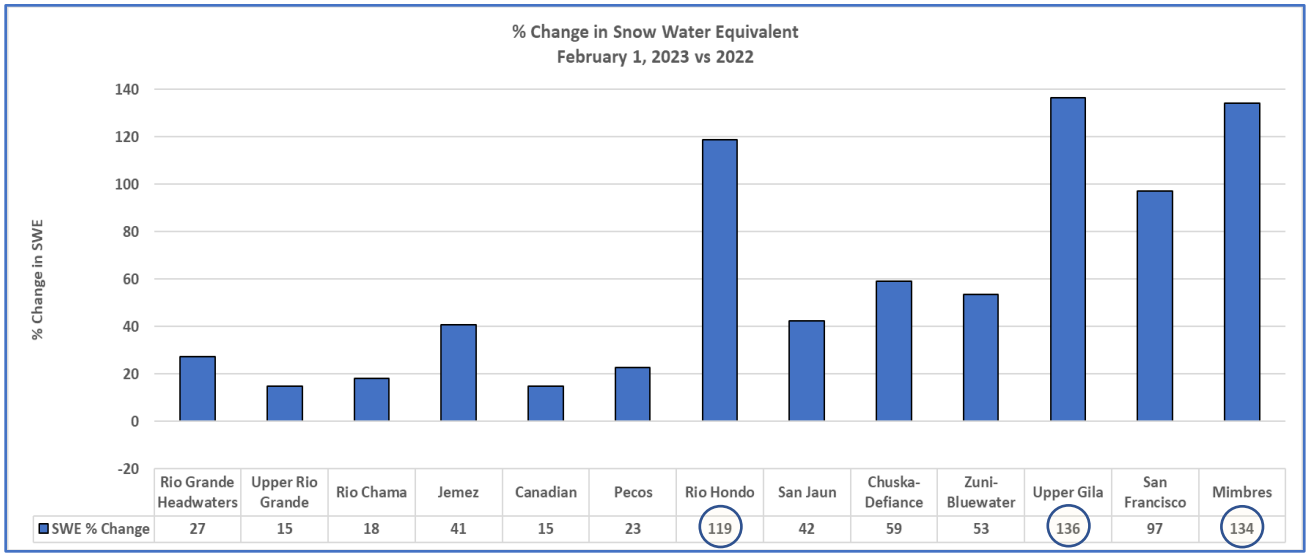
Scenery above the Cimarron Valley on a sunny January 31st, 2023. NRCS Photo: Jaz Ammon

Snowpack

The early effects of another La Niña winter in New Mexico have been somewhat mitigated over the past month across the state's major water supply basins. Snow accumulation has been highest in the western mountains and along the continental divide, with more sparse snowfall further east along the Sangre de Cristo and Sacramento ranges. Snowpack levels ranged from a high of 201 percent of median Snow Water Equivalent [SWE] in the Zuni-Bluewater and 140 percent of median for the San Francisco Basin to a low of 77 percent of median in the Canadian basin. The largest percentage change in SWE as compared to the February 1 reporting period in 2022 was recorded in the Upper Gila basin, with an increase of 136 percent of median SWE when compared to last year. This was closely followed by large percentage increases in the Mimbres and Rio Hondo basins for the same reference dates when comparing to the dry conditions which led up to February 1, 2022. More detailed reporting of conditions within each basin where NRCS Snow Water Equivalent measurements are recorded in New Mexico can be viewed in the attached tables under the Basinwide Snowpack Summary.



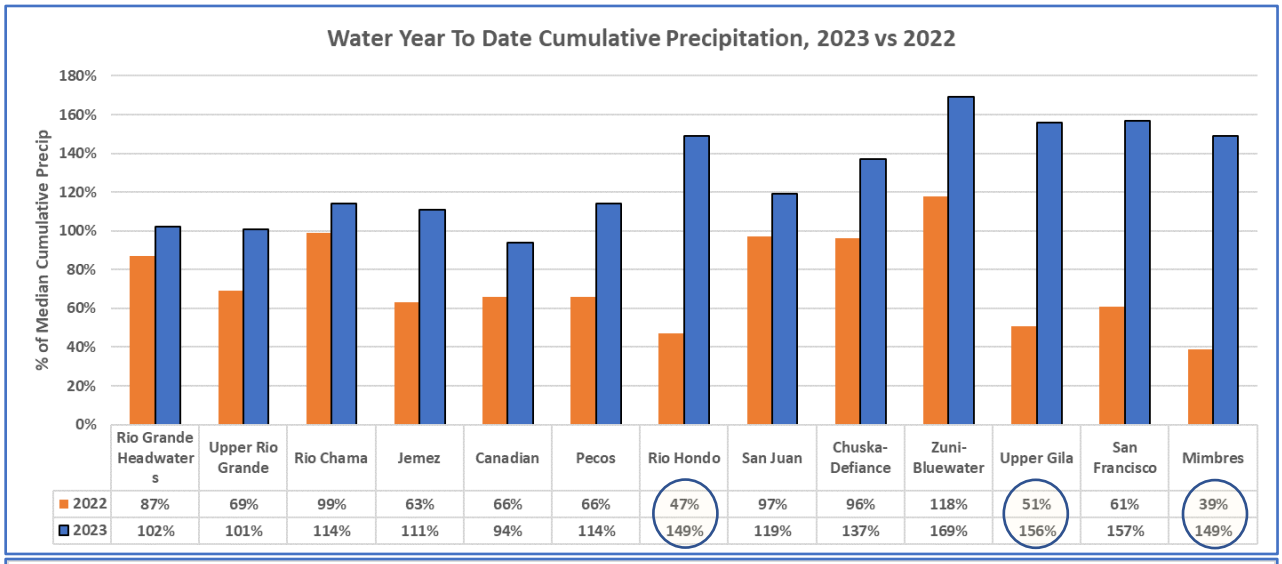
	Rio Grande Headwaters	Upper Rio Grande	Rio Chama	Jemez	Canadian	Pecos	Rio Hondo	San Jaun	Chuska-Defiance	Zuni-Bluewater	Upper Gila	San Francisco	Mimbres
2022	88%	74%	105%	71%	67%	66%	16%	97%	103%	131%	44%	71%	47%
2023	112%	85%	124%	100%	77%	81%	35%	138%	164%	201%	104%	140%	110%



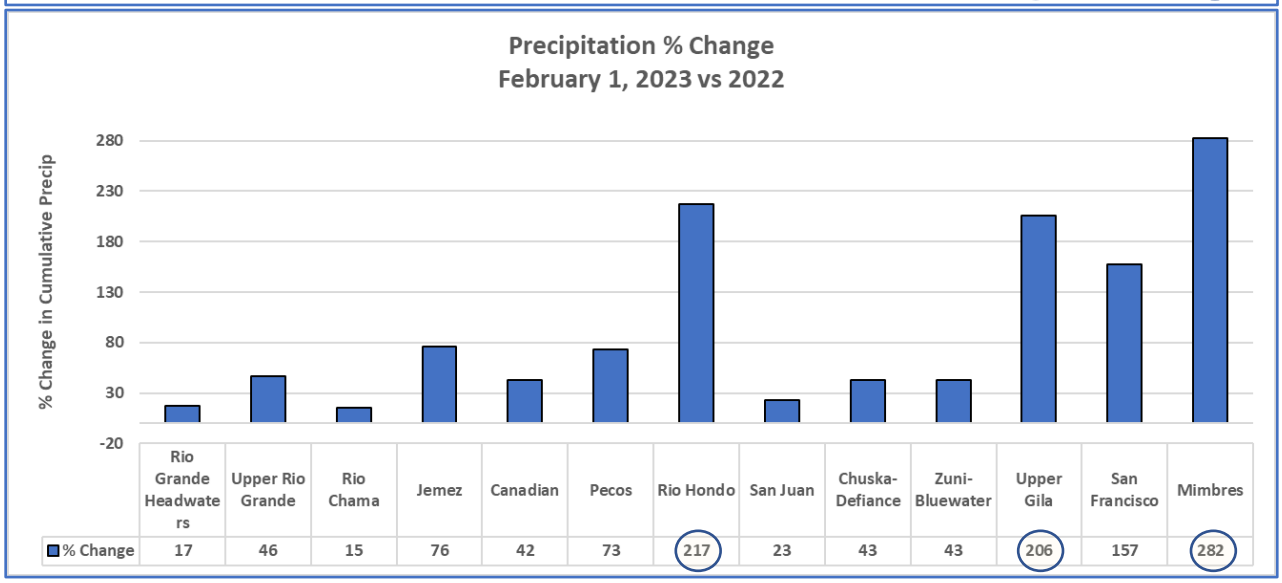
	Rio Grande Headwaters	Upper Rio Grande	Rio Chama	Jemez	Canadian	Pecos	Rio Hondo	San Jaun	Chuska-Defiance	Zuni-Bluewater	Upper Gila	San Francisco	Mimbres
SWE % Change	27	15	18	41	15	23	119	42	59	53	136	97	134

Precipitation

Water year-to-date precipitation for February 1 shows a notably different trend from recorded snowpack conditions throughout New Mexico. Robust late monsoonal rainfall between October 1 and the start of snow accumulation was concentrated in the southern portion of the state. Notably, the Upper Gila, Mimbres, and Rio Hondo basins have all received more than a 200 percent of median increase in cumulative precipitation over February 1 totals in water year 2022. Further countering regional snow distribution trends, the Rio Grande Headwaters, Rio Chama, and San Juan basins have received only a small percentage increase of overall precipitation to date compared to values measured in water year 2022 through February 1. The smallest percent change was seen in the Rio Chama basin with a 15 percent of median increase compared to last year. Specific recorded totals for each New Mexico sub-basin can be seen in the tables included in the Basinwide Precipitation Summary below.



	Rio Grande Headwaters	Upper Rio Grande	Rio Chama	Jemez	Canadian	Pecos	Rio Hondo	San Juan	Chuska-Defiance	Zuni-Bluewater	Upper Gila	San Francisco	Mimbres
2022	87%	69%	99%	63%	66%	66%	47%	97%	96%	118%	51%	61%	39%
2023	102%	101%	114%	111%	94%	114%	149%	119%	137%	169%	156%	157%	149%

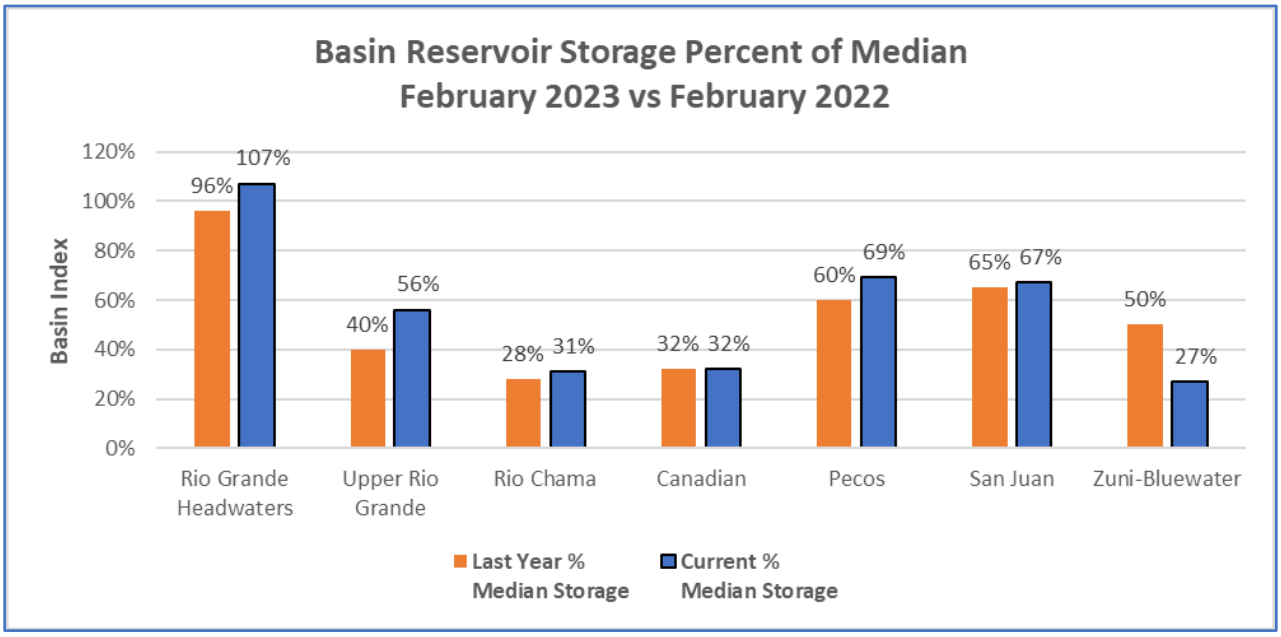


	Rio Grande Headwaters	Upper Rio Grande	Rio Chama	Jemez	Canadian	Pecos	Rio Hondo	San Juan	Chuska-Defiance	Zuni-Bluewater	Upper Gila	San Francisco	Mimbres
% Change	17	46	15	76	42	73	217	23	43	43	206	157	282

Reservoirs

Reservoir systems with complete reporting are showing increased or stable levels when compared using percent of total capacity and percent of median volumes, with one notable exception. Bluewater Reservoir is currently holding a smaller percent of total storage capacity than that measured at this time last year. Water-users should continue to monitor reservoir management decisions and cumulative conditions to evaluate water use plans as the winter progresses and reservoir volumes increase toward annual peaks.

Basinwide Summary: February 1, 2023 (Medians based on 1991-2020 reference period)	Reservoir Storage Summary for the End of January 2023				
	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Rio Grande Headwaters	**26%**	**23%**	**24%**	**107%**	**96%**
Upper Rio Grande	**12%**	**8%**	**21%**	**56%**	**40%**
Rio Chama	**8%**	**7%**	**26%**	**31%**	**28%**
Canadian	**17%**	**17%**	**52%**	**32%**	**32%**
Pecos	**5%**	**4%**	**7%**	**69%**	**60%**
San Juan	**50%**	**49%**	**75%**	**67%**	**65%**
Zuni-Bluewater	**3%**	**5%**	**10%**	**27%**	**50%**

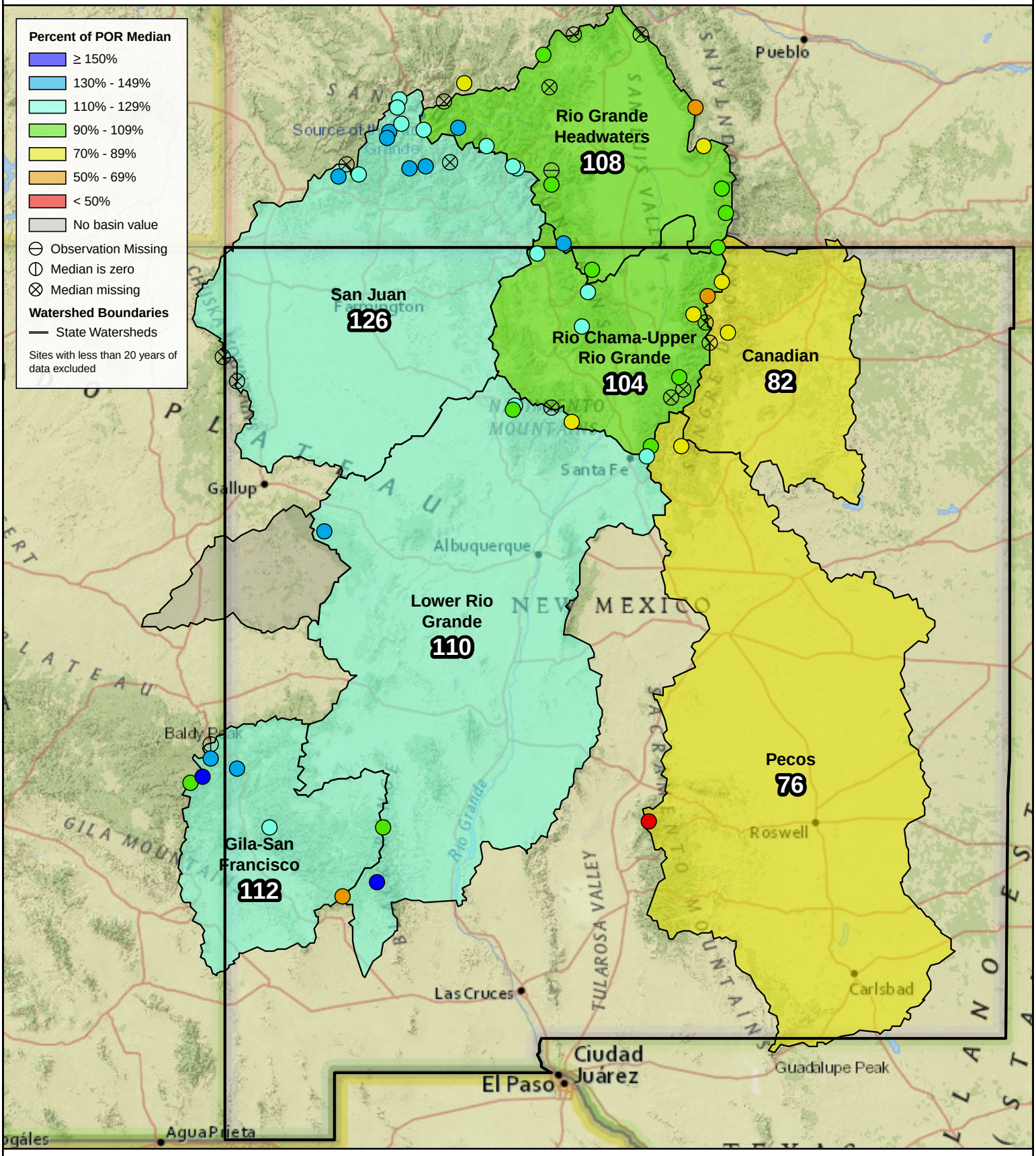


Streamflow

As noted in the summary for this report, February 1 forecasts have increased skill from the prior month but are still best referenced for advisory purposes. Uncertainty in future winter and spring weather conditions is still quite high with half the winter accumulation season ahead. This is a challenge for forming accurate predictions of spring snowmelt, runoff, and ultimately streamflow conditions. As conditions move toward peak SWE in the region's mountains, forecast skill is expected to improve significantly. Additionally, this is the second year during which the seasonal streamflow normals have been updated to the Water Year 1991-2020 reference period with redeveloped statistical models using this same calibration period. NRCS is now using the median as the preferred measure of central tendency for reporting throughout all climate variables included in this report. The general result is that streamflow normals have changed and are generally lower than values referenced for the decade prior to these shifts, particularly in more arid areas such as New Mexico. Please use this online tool[1] to investigate changes for specific forecast points, and know that 100% of normal may not refer to the same exceedance probabilities as those reported prior to Water Year 2022.

[1] https://www.wcc.nrcs.usda.gov/ftpref/support/srvo_norms_comps/

Snow Water Equivalent	Snow Water Equivalent Percent of POR Median	End of January, 2023



USDA Natural Resources Conservation Service
United States Department of Agriculture

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

Snowpack Summary For February 1, 2023

Canadian	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Aztec #2	SC	9880	10	1.6	2.3	70%		
Hematite Park	SC	9500	11	1.8	3.2	56%	3.0	94%
North Costilla	SNOTEL	10600	14	3.4	4.7	72%	1.5	32%
Palo	SNOTEL	9350	16	4.0	3.9	103%	3.2	82%
Palo	SC	9300	18	3.8	4.1	93%	3.0	73%
Red River Pass #2	SNOTEL	9850	16	3.2	5.0	64%	2.8	56%
Shuree	SNOTEL	10100	10	2.3	3.7	62%	3.3	89%
Shuree	SC	10097			2.2			
Taos Canyon	SC	9100	14	2.7	3.7	73%	2.5	68%
Tolby	SNOTEL	10180	19	4.3	5.1	84%	3.6	71%
Wesner Springs	SNOTEL	11120	28	7.2	9.2	78%	5.6	61%
Basin Index						**77%**		**67%**
# of sites						9		9

Chuska-Defiance	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beaver Spring	SC	9220			7.7		7.8	101%
Beaver Spring	SNOTEL	9200	35	10.2	6.9	148%	6.4	93%
Bowl Canyon	SC	8980	35	9.2	6.0	153%	6.6	110%
Fluted Rock	SC	7800	20	5.0	2.2	227%	3.0	136%
Hidden Valley	SC	8480			5.2		7.4	142%
Missionary Spring	SC	7940	23	6.4	2.8	229%	3.0	107%
Navajo Whiskey Ck	SNOTEL	9050	41	9.7	6.8	143%	6.5	96%
Tsaile Canyon #1	SC	8160			5.0		6.6	132%
Tsaile Canyon #3	SC	8920			6.6		7.4	112%
Whiskey Creek	SC	9050			6.6		10.4	158%
Basin Index						**164%**		**103%**
# of sites						5		5

Jemez	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Garita Peak	SNOTEL	10160	23	6.6			4.0	
Quemazon	SNOTEL	9500	19	5.1	6.0	85%	3.8	63%
Senorita Divide #2	SNOTEL	8600	25	4.8	5.3	91%	3.3	62%
Vacas Locas	SNOTEL	9306	34	8.7	7.3	119%	6.1	84%
Basin Index						**100%**		**71%**
# 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	9240	12	3.9	2.5	156%	1.9	76%
Signal Peak	SNOTEL	8360	6	1.7	2.6	65%	0.5	19%
Basin Index						**110%**		**47%**
# 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	8210	11	3.3	2.7	122%	2.6	96%
PanchueLa	SC	8400	10	1.8	2.4	75%	1.8	75%
Rio En Medio	SC	10300	18	3.8	6.4	59%	2.6	41%
Santa Fe	SNOTEL	11445	31	7.7	8.6	90%	6.6	77%
Wesner Springs	SNOTEL	11120	28	7.2	9.2	78%	5.6	61%

Basin Index						**81%**		**66%**
# of sites						5		5

Rio Chama	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Bateman	SNOTEL	9300	31	7.7	6.8	113%	6.5	96%
Chamita	SNOTEL	8400	29	7.5	6.4	117%	6.0	94%
Cumbres Pass	SC	10020						
Cumbres Trestle	SNOTEL	10040	61	20.2	14.6	138%	18.4	126%
Garita Peak	SNOTEL	10160	23	6.6			4.0	
Hopewell	SNOTEL	10000	41	11.0	9.6	115%	8.5	89%
Basin Index						**124%**		**105%**
# of sites						4		4

Rio Grande Headwaters	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beartown	SNOTEL	11600	55	15.6	12.6	124%	11.0	87%
Brown Cabin	SC	9600			3.8			
Cochetopa Pass	SC	10000			3.2			
Cochetopa Pass	SNOTEL	10020	16	3.0	3.0	100%	1.7	57%
Culebra #2	SNOTEL	10500	30	6.9	7.4	93%	4.4	59%
Cumbres Pass	SC	10020						
Cumbres Trestle	SNOTEL	10040	61	20.2	14.6	138%	18.4	126%
Grayback	SC	11600			8.2			
Grayback	SNOTEL	11620	6				1.8	
Hayden Pass	SNOTEL	10720	20	4.8	9.6	50%	3.2	33%
La Veta Pass	SC	9440	21	3.9	5.4	72%	4.4	81%
Lily Pond	SNOTEL	11000	39	9.1	8.0	114%	9.4	118%
Love Lake	SC	10000			6.6			
Medano Pass	SNOTEL	9649	10	2.2	3.9	56%	3.1	79%
Middle Creek	SNOTEL	11250	50	14.4	11.8	122%	12.2	103%
Moon Pass	SNOTEL	11140	9	2.2	4.0	55%	1.7	43%
North Costilla	SNOTEL	10600	14	3.4	4.7	72%	1.5	32%
Pinos Mill	SC	10000	62	16.6	13.0	128%	14.6	112%
Platoro	SC	9880	39	9.0	7.6	118%	9.0	118%
Pool Table Mountain	SC	9840	18	17.9	3.2	559%	0.8	25%
Porcupine	SC	10280	27	5.7	5.0	114%	3.3	66%
San Antonio Sink	SNOTEL	9100	24	5.7			7.0	
San Antonio Sink	SC	9200	20	4.0	5.0	80%	6.7	134%
Santa Maria	SC	9600			2.8			
Sargents Mesa	SNOTEL	11530	32	6.8	6.7	101%	4.0	60%
Silver Lakes	SC	9500	19	3.7	4.2	88%	5.5	131%
Slumgullion	SNOTEL	11560	35	7.0	8.8	80%	6.3	72%
Trinchera	SNOTEL	10860	27	5.6	6.2	90%	2.3	37%
Upper Rio Grande	SNOTEL	9400	26	5.7	4.0	143%	2.9	73%
Ute Creek	SNOTEL	10650	21	4.6	7.0	66%	4.0	57%
Ute Creek	SC	10650			5.3			
Wager Gulch	SNOTEL	11100	23	6.0			4.0	
Wolf Creek Summit	SNOTEL	11000	87	24.2	19.2	126%	23.6	123%
Basin Index						**112%**		**88%**
# of sites						23		23

Rio Hondo	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Sierra Blanca	SNOTEL	10280	10	2.0	5.7	35%	0.9	16%
Basin Index						**35%**		**16%**
# of sites						1		1

San Francisco	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beaver Head	SNOTEL	7990	12	3.2	2.2	145%	1.4	64%
Coronado Trail	SNOTEL	8400	12	3.6	2.4	150%	0.3	13%
Coronado Trail	SC	8350	18	4.0	1.2	333%	1.5	125%
Frisco Divide	SNOTEL	8000	12	2.8	2.0	140%	1.5	75%
Hannagan Meadows	SNOTEL	9020	28	6.9	7.2	96%	5.6	78%
Nutrioso	SC	8500	9	1.2	0.8	150%	1.1	138%
Nutrioso	SNOTEL	8500	2	1.4	0.0		0.0	
Silver Creek Divide	SNOTEL	9000	21	7.0	5.7	123%	3.8	67%
State Line	SC	8000			1.6		1.1	69%
Basin Index						**140%**		**71%**
# of sites						8		8

San Juan	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Beartown	SNOTEL	11600	55	15.6	12.6	124%	11.0	87%
Cascade	SNOTEL	8880			7.5		8.0	107%
Cascade #2	SNOTEL	8920	35	9.9	6.9	143%	7.2	104%
Columbus Basin	SNOTEL	10785	69	17.9	14.9	120%	14.2	95%
Lemon Reservoir	SC	8700	34	26.3	5.7	461%	5.0	88%
Mineral Creek	SNOTEL	10040	39	10.8	9.0	120%	6.0	67%
Molas Lake	SNOTEL	10500	52	13.2	10.6	125%	12.6	119%
Red Mountain Pass	SNOTEL	11200	60	16.8	13.2	127%	12.6	95%
Spud Mountain	SNOTEL	10660	73	20.0	14.9	134%	14.8	99%
Stump Lakes	SNOTEL	11200	57	15.2	11.2	136%	10.0	89%
Upper San Juan	SNOTEL	10200	79	22.9	17.6	130%	18.1	103%
Upper San Juan	SC	10200	77	22.6	20.3	111%	19.1	94%
Vallecito	SNOTEL	10880	52	12.9	9.8	132%	7.7	79%
Weminuche Creek	SNOTEL	10740	57	14.9	10.4	143%	8.3	80%
Wolf Creek Summit	SNOTEL	11000	87	24.2	19.2	126%	23.6	123%
Basin Index						**138%**		**97%**
# of sites						14		14

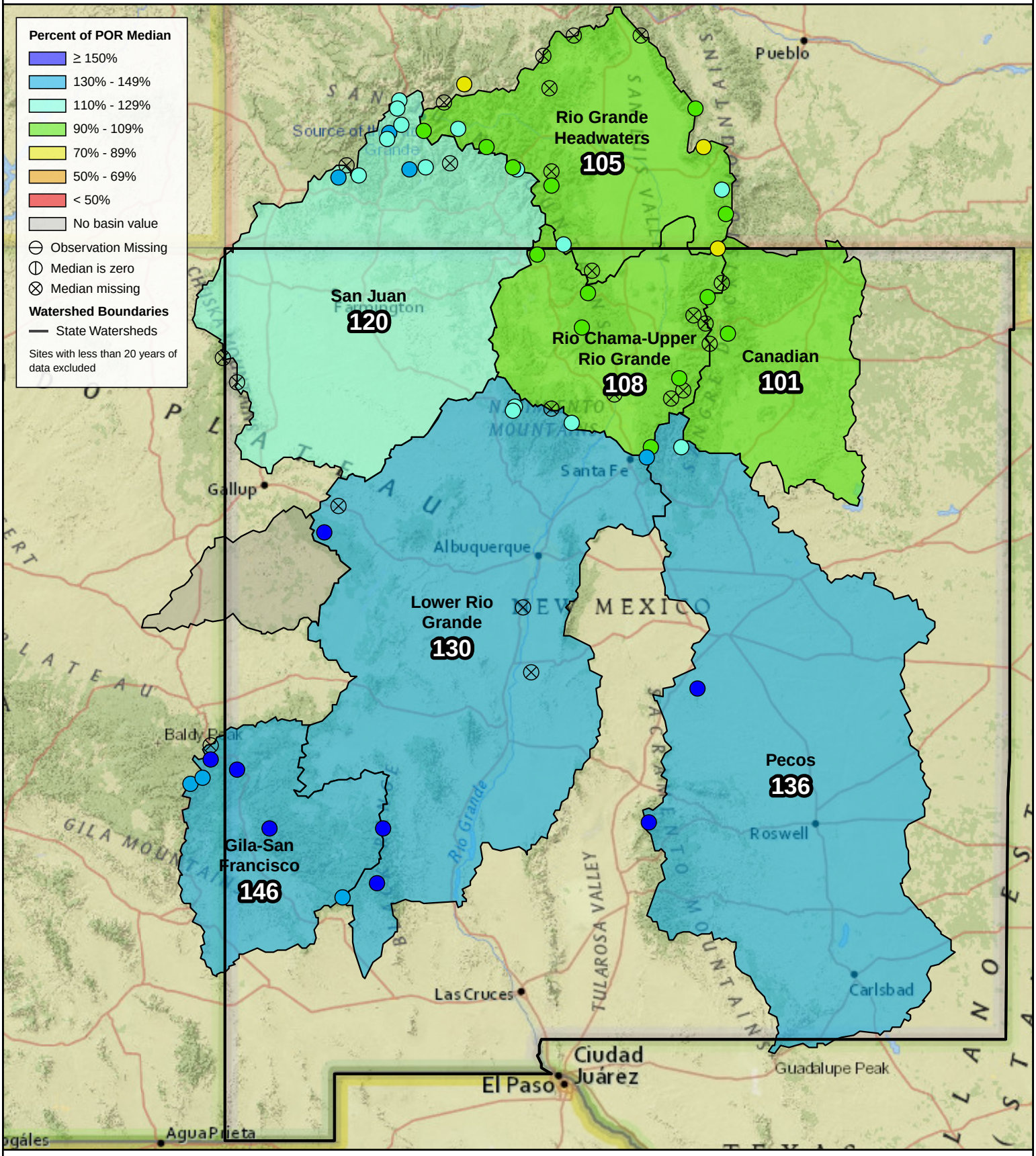
Upper Gila	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Lookout Mountain	SNOTEL	8500	5	1.5	1.5	100%	0.0	0%
Signal Peak	SNOTEL	8360	6	1.7	2.6	65%	0.5	19%
Silver Creek Divide	SNOTEL	9000	21	7.0	5.7	123%	3.8	67%
Basin Index						**104%**		**44%**
# of sites						3		3

Upper Rio Grande	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Elk Cabin	SNOTEL	8210	11	3.3	2.7	122%	2.6	96%
Gallegos Peak	SNOTEL	9800	26	6.2	6.3	98%	5.0	79%
Hematite Park	SC	9500	11	1.8	3.2	56%	3.0	94%
North Costilla	SNOTEL	10600	14	3.4	4.7	72%	1.5	32%
Palo	SNOTEL	9350	16	4.0	3.9	103%	3.2	82%
Palo	SC	9300	18	3.8	4.1	93%	3.0	73%
Quemazon	SNOTEL	9500	19	5.1	6.0	85%	3.8	63%
Red River Pass #2	SNOTEL	9850	16	3.2	5.0	64%	2.8	56%
Rio En Medio	SC	10300	18	3.8	6.4	59%	2.6	41%
Rio Santa Barbara	SNOTEL	10664	34	7.0			5.1	
Santa Fe	SNOTEL	11445	31	7.7	8.6	90%	6.6	77%
Shuree	SNOTEL	10100	10	2.3	3.7	62%	3.3	89%
Shuree	SC	10097			2.2			

Taos Canyon	SC	9100	14	2.7	3.7	73%	2.5	68%
Taos Powderhorn	SC	11250	50	12.6	14.2	89%	11.7	82%
Taos Powderhorn	SNOTEL	11057	35	9.4	9.6	98%	8.7	91%
Taos Pueblo	SNOTEL	11020	28	8.0			8.6	
Tres Ritos	SC	8600			3.2			
Tres Ritos	SNOTEL	8600	10	2.6	2.6	100%	2.7	104%
Basin Index						**85%**		**74%**
# of sites						15		15

Zuni-Bluewater	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Boon	SC	8140	23	5.8	2.8	207%	4.4	157%
Dan Valley	SC	7640	19	4.4	2.0	220%	2.4	120%
Mcgaffey	SC	8120	20	4.9	1.2	408%	2.4	200%
Ojo Redondo	SC	8200	17	4.0	2.4	167%	2.7	113%
Rice Park	SNOTEL	8460	26	6.6	4.4	150%	4.9	111%
Basin Index						**201%**		**131%**
# of sites						5		5

Water Year to Date Precipitation	Water Year to Date Precipitation Percent of POR Median	October 1, 2022 - January 31, 2023



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

			Monthly Total Precipitation For January 2023					Water Year To Date Precipitation through January 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	10600	1.8	1.4	129%	1.1	79%	6.4	7.7	83%	4.7	61%
Palo	SNOTEL	9350	2.1	1	210%	0.8	80%	6.1	6.5	94%	4.2	65%
Red River Pass #2	SNOTEL	9850	1.3	1.2	108%	1.1	92%	5.5	6.3	87%	4	63%
Shuree	SNOTEL	10100	1.3	1	130%	1	100%	4.8	5.6	86%	3.9	70%
Tolby	SNOTEL	10180	2.6	1.3	200%	1.3	100%	7.3	8.3	88%	5.7	69%
Wesner Springs	SNOTEL	11120	4	2.1	190%	1.8	86%	12.6	11	115%	7.5	68%
Basin Index					**164%**		**89%**			**94%**		**66%**
# of sites					6		6			6		6

Chuska-Defiance	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 Spring	SNOTEL	9200	5.1	2.4	213%	0.3	13%	13.5	10.7	126%	10	93%
Navajo Whiskey Ck	SNOTEL	9050	5	2.4	208%	0.3	13%	12.4	8.2	151%	8.1	99%
Basin Index					**210%**		**13%**			**137%**		**96%**
# of sites					2		2			2		2

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	10160	3.7			0.6		10.7			4.8	
Quemazon	SNOTEL	9500	3	1.2	250%	0.6	50%	9.6	8.8	109%	4.6	52%
Senorita Divide #2	SNOTEL	8600	4.1	2	205%	0.7	35%	10.1	9	112%	5.7	63%
Vacas Locas	SNOTEL	9306	4.3	1.9	226%	1.4	74%	10.5	9.3	113%	6.8	73%
Basin Index					**224%**		**53%**			**111%**		**63%**
# 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	9240	1.6	1.2	133%	0.6	50%	10	6.4	156%	2.2	34%
Signal Peak	SNOTEL	8360	3.2	1.5	213%	1.3	87%	13	9	144%	3.8	42%
Basin Index					**178%**		**70%**			**149%**		**39%**
# 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	8210	2.1	1.4	150%	0.8	57%	8.6	6.4	134%	4	63%
Santa Fe	SNOTEL	11445	3.9	2.4	163%	1.6	67%	11.6	11.3	103%	7.5	66%
Wesner Springs	SNOTEL	11120	4	2.1	190%	1.8	86%	12.6	11	115%	7.5	68%
Basin Index					**169%**		**71%**			**114%**		**66%**
# of sites					3		3			3		3

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	9300	3.2	2	160%	0.8	40%	9.1	8.6	106%	8.4	98%
Chamita	SNOTEL	8400	3.8	2.2	173%	0.4	18%	8.2	8.3	99%	6.2	75%
Cumbres Trestle	SNOTEL	10040	8.3	3.6	231%	1.1	31%	19.3	15.2	127%	15.9	105%
Garita Peak	SNOTEL	10160	3.7			0.6		10.7			4.8	
Hopewell	SNOTEL	10000	5.2	2.9	179%	1	34%	12.4	10.8	115%	12.1	112%
Basin Index					**192%**		**31%**			**114%**		**99%**
# of sites					4		4			4		4

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	6.4	3.2	200%	1.4	44%	17.4	15.6	112%	14.3	92%
Cochetopa Pass	SNOTEL	10020	0.6	0.8	75%	0.6	75%	3.4	4.5	76%	3.2	71%
Culebra #2	SNOTEL	10500	2.2	1.6	138%	1.3	81%	7.2	7.7	94%	4.3	56%
Cumbres Trestle	SNOTEL	10040	8.3	3.6	231%	1.1	31%	19.3	15.2	127%	15.9	105%
Grayback	SNOTEL	11620	3	2.2	136%	1.1	50%	11.2	9.8	114%	11.8	120%
Hayden Pass	SNOTEL	10720	2.7	1.8	150%	1.7	94%	6.7	8.6	78%	4.4	51%
Lily Pond	SNOTEL	11000	3.9	2.2	177%	1	45%	13.2	11.2	118%	12.1	108%
Medano Pass	SNOTEL	9649	2	1.3	154%	2.3	177%	5.4	6.3	86%	5.3	84%
Middle Creek	SNOTEL	11250	5.5	2.4	229%	0.7	29%	16.3	15	109%	14	93%
Moon Pass	SNOTEL	11140	0.7	1.2	58%	0.7	58%	3.2	5	64%	3.8	76%
North Costilla	SNOTEL	10600	1.8	1.4	129%	1.1	79%	6.4	7.7	83%	4.7	61%
San Antonio Sink	SNOTEL	9100	2			0.7		5.5			7.3	
Sargents Mesa	SNOTEL	11530	1.8	1.6	113%	0.9	56%	6.6	7.9	84%	4.9	62%
Slumgullion	SNOTEL	11560	2	1.8	111%	0.8	44%	7	8.4	83%	6.4	76%
Trinchera	SNOTEL	10860	2.3	1.3	177%	1.4	108%	8.1	7	116%	4.8	69%
Upper Rio Grande	SNOTEL	9400	3.1	1	310%	0.1	10%	7.9	6.6	120%	4.9	74%
Ute Creek	SNOTEL	10650	2.7	1.8	150%	2	111%	6.8	8.6	79%	6.8	79%
Wager Gulch	SNOTEL	11100	2.4			0.6		7.6			7	
Wolf Creek Summit	SNOTEL	11000	9.7	3.8	255%	2.1	55%	23.4	20.4	115%	22	108%
Basin Index					**178%**		**62%**			**102%**		**87%**
# of sites					17		17			17		17

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	10280	4.4	1.6	275%	2.3	144%	14.6	9.8	149%	4.6	47%
Basin Index					**275%**		**144%**			**149%**		**47%**
# of sites					1		1			1		1

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	7990	3.2			1.6		10.5			4.4	
Coronado Trail	SNOTEL	8400	2.9	1.2	242%	0.6	50%	10.2	6.8	150%	4.4	65%
Frisco Divide	SNOTEL	8000	2.3	0.9	256%	1	111%	9.1	5.6	163%	4.2	75%
Hannagan Meadows	SNOTEL	9020	5	2.2	227%	2.3	105%	15.3	11	139%	5.8	53%
Nutrioso	SNOTEL	8500	2.3	0.8	288%	1	125%	8.8	4.9	180%	2.8	57%
Silver Creek Divide	SNOTEL	9000	6	1.8	333%	1.4	78%	16.6	10	166%	6.3	63%
Basin Index					**268%**		**91%**			**157%**		**61%**
# of sites					5		5			5		5

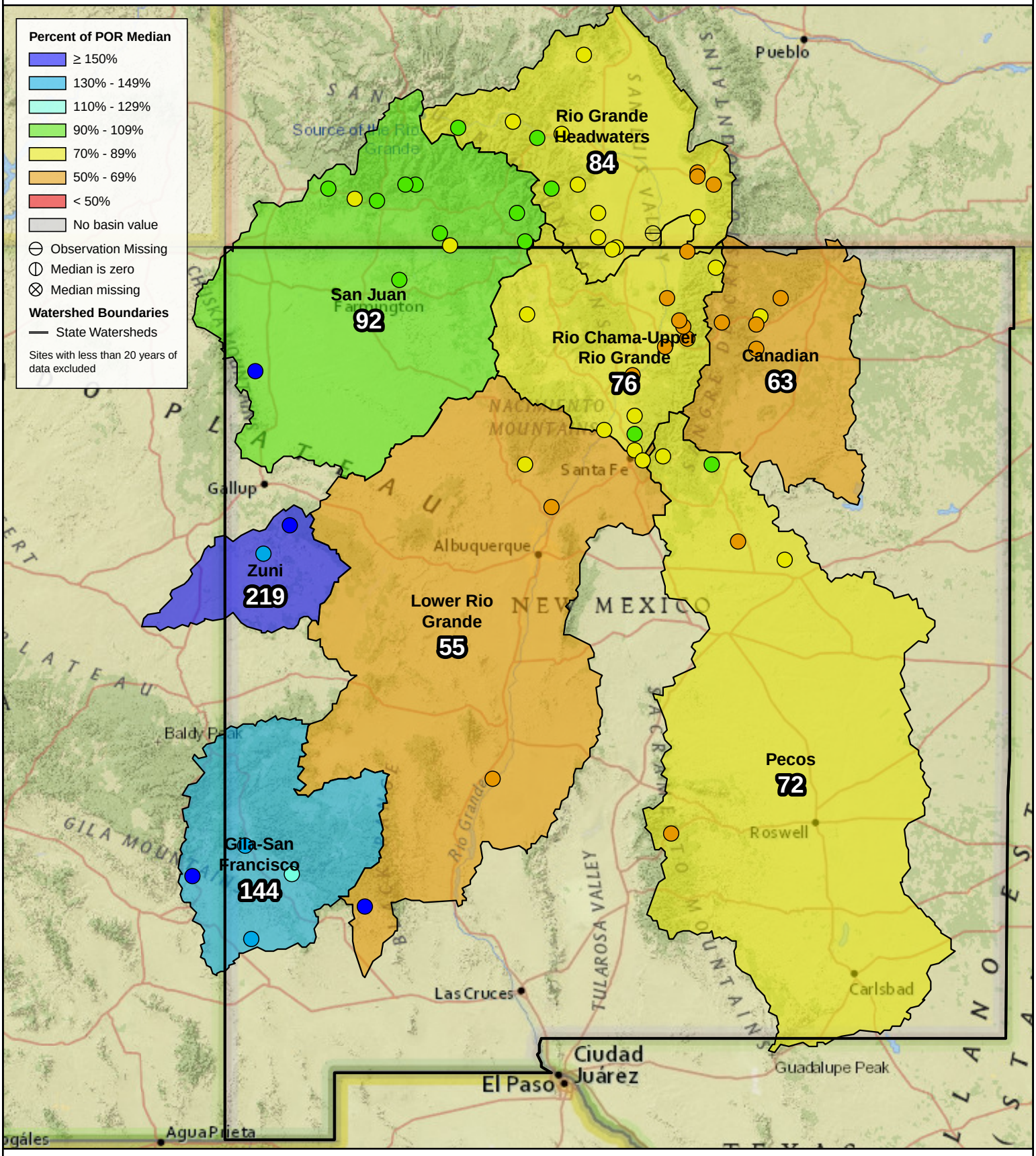
San Juan	Network	Elevation (ft)	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median	Current (in)	Median (in)	% Median	Last Year (in)	Last Year % Median
Beartown	SNOTEL	11600	6.4	3.2	200%	1.4	44%	17.4	15.6	112%	14.3	92%
Cascade	SNOTEL	8880		2.7		0.2	7%		12.4		11.4	92%
Cascade #2	SNOTEL	8920	6	2.8	214%	0.3	11%	14	11.3	124%	11.4	101%
Columbus Basin	SNOTEL	10785	10.3	4.1	251%	0.4	10%	21.2	18.2	116%	16.6	91%
Mineral Creek	SNOTEL	10040	4.6	2.6	177%	0.6	23%	12	10.8	111%	11.2	104%
Molas Lake	SNOTEL	10500	5.5	3.1	177%	0.6	19%	14.3	12.3	116%	14.8	120%
Red Mountain Pass	SNOTEL	11200	6.6	4.2	157%	1.3	31%	18.6	15.8	118%	14.6	92%
Spud Mountain	SNOTEL	10660	9.9	4.6	215%	0.8	17%	22.6	17.2	131%	18.9	110%
Stump Lakes	SNOTEL	11200	7.6	2.2	345%	0.3	14%	17.6	12.1	145%	10.9	90%
Upper San Juan	SNOTEL	10200	9.8	4.2	233%	1.4	33%	24.2	21.7	112%	22.1	102%
Vallecito	SNOTEL	10880	5.5	2.3	239%	0.5	22%	14.6	12.2	120%	9.6	79%
Weminuche Creek	SNOTEL	10740	7.6	2.6	292%	0.5	19%	17.8	15	119%	11.1	74%
Wolf Creek Summit	SNOTEL	11000	9.7	3.8	255%	2.1	55%	23.4	20.4	115%	22	108%
Basin Index					**225%**		**26%**			**119%**		**97%**
# of sites					12		12			12		12

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	8500	1.8	0.9	200%	0.8	89%	8.8	5.6	157%	2.5	45%
Signal Peak	SNOTEL	8360	3.2	1.5	213%	1.3	87%	13	9	144%	3.8	42%
Silver Creek Divide	SNOTEL	9000	6	1.8	333%	1.4	78%	16.6	10	166%	6.3	63%
Basin Index					**262%**		**83%**			**156%**		**51%**
# of sites					3		3			3		3

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	8210	2.1	1.4	150%	0.8	57%	8.6	6.4	134%	4	63%
Gallegos Peak	SNOTEL	9800	2.7	2.1	129%	0.9	43%	10.1	9.2	110%	6.3	68%
North Costilla	SNOTEL	10600	1.8	1.4	129%	1.1	79%	6.4	7.7	83%	4.7	61%
Palo	SNOTEL	9350	2.1	1	210%	0.8	80%	6.1	6.5	94%	4.2	65%
Quemazon	SNOTEL	9500	3	1.2	250%	0.6	50%	9.6	8.8	109%	4.6	52%
Red River Pass #2	SNOTEL	9850	1.3	1.2	108%	1.1	92%	5.5	6.3	87%	4	63%
Rio Santa Barbara	SNOTEL	10664	2.8			0.8		10.2			6.7	
Santa Fe	SNOTEL	11445	3.9	2.4	163%	1.6	67%	11.6	11.3	103%	7.5	66%
Shuree	SNOTEL	10100	1.3	1	130%	1	100%	4.8	5.6	86%	3.9	70%
Taos Powderhorn	SNOTEL	11057	4.4	2.8	157%	1.9	68%	12.7	12.7	100%	12.2	96%
Taos Pueblo	SNOTEL	11020	4.7			1.7		14.9			13.1	
Tres Ritos	SNOTEL	8600	2	1.4	143%	0.9	64%	7.7	7.4	104%	4.8	65%
Basin Index					**155%**		**67%**			**101%**		**69%**
# of sites					10		10			10		10

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	8460	4.7	1.4	336%	2.6	186%	11.5	6.8	169%	8	118%
Basin Index					**336%**		**186%**			**169%**		**118%**
# of sites					1		1			1		1

Forecast Volume, 50% Exceedance Probability	Forecast Streamflow Volume (Adjusted) Percent of POR Median	Primary Period, January 1, 2023



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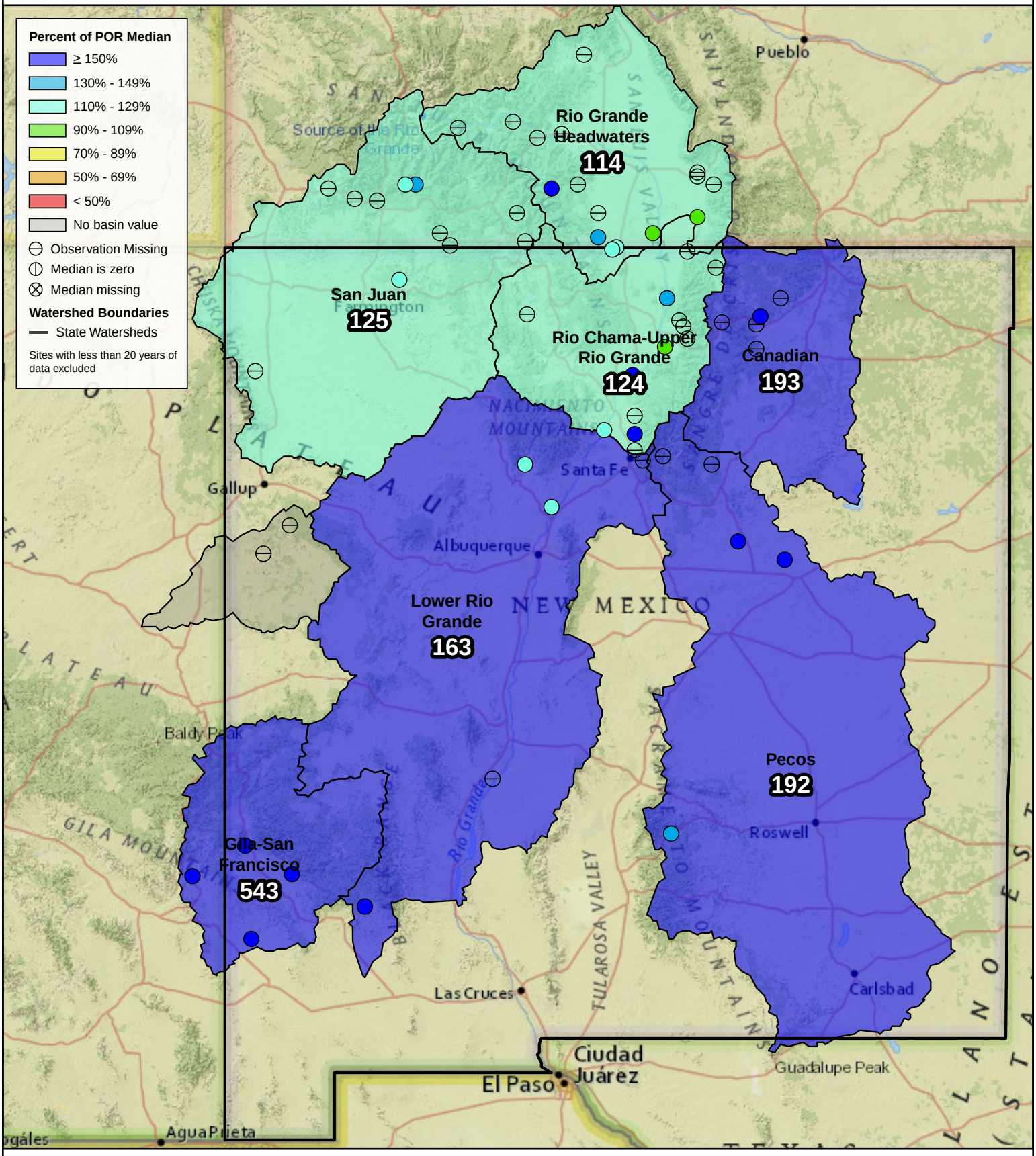
Water Year to Date Adjusted Volume, Observed	Observed Streamflow Volume (Adjusted) Percent of POR Median	October 1, 2022 - January 31, 2023



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Streamflow Forecast Summary: February 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	0.88	2.1	3.2	60%	4.5	7	5.3
Ponil Ck nr Cimarron								
	MAR-JUN	0.3	1.53	3.6	67%	5.7	8.7	5.4
Eagle Nest Reservoir Inflow								
	MAR-JUN	-1	1.99	4.4	66%	6.8	10.4	6.7
Rayado Ck nr Cimarron								
	MAR-JUN	0.5	1.88	3.5	69%	5.1	7.5	5.1
Cimarron R nr Cimarron[2]								
	MAR-JUN	-1	3.3	6.9	75%	10.5	15.7	9.2

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

Chuska-Defiance	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)
Captain Tom Wash nr Two Gray Hills								
	MAR-MAY	0.49	1.33	2.2	355%	3.5	6.1	0.62
Bowl Canyon Ck ab Asaayi Lake								
	MAR-MAY	0.54	0.96	1.34	163%	1.81	2.7	0.82

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

Jemez	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	11.6	18.2	23	105%	29	39	22
Jemez R nr Jemez								
	MAR-JUL	17.8	25	31	107%	37	47	29

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

Mimbres	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)
Mimbres R at Mimbres								
	FEB-MAY	1.75	3.7	5.5	262%	7.7	11.5	2.1

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

		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	25	37	46	87%	57	74	53
Gallinas Ck nr Montezuma								
	MAR-JUL	2.3	5.1	7.6	95%	10.5	15.8	8
Pecos R nr Anton Chico								
	MAR-JUL	14	30	45	85%	63	93	53
Pecos R ab Santa Rosa Lk								
	MAR-JUL	11.1	25	37	90%	52	79	41

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	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
El Vado Reservoir Inflow [2]								
	MAR-JUL	104	155	195	105%	240	315	186
	APR-JUL	91	138	175	105%	215	285	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)
Alamosa Ck ab Terrace Reservoir								
	APR-SEP	43	55	64	105%	74	90	61
San Antonio R at Ortiz								
	APR-SEP	5.9	9.5	12.5	130%	15.9	22	9.6
Rio Grande nr Del Norte [2]								
	APR-SEP	300	395	470	98%	545	675	480
La Jara Ck nr Capulin								
	MAR-JUL	4.5	6.5	8	104%	9.7	12.6	7.7
Rio Grande at Thirty Mile Bridge[2]								
	APR-JUL	77	100	116	105%	132	155	111
	APR-SEP	85	112	130	108%	148	175	120
Rio Grande at Wagon Wheel Gap[2]								
	APR-SEP	194	255	305	98%	355	440	310
SF Rio Grande at South Fork[2]								
	APR-SEP	83	106	123	110%	142	171	112
Sangre de Cristo Ck [2]								
	APR-SEP	3.1	6.7	10	92%	13.9	21	10.9
Trinchera Ck ab Turners Ranch								
	APR-SEP	4.5	7.2	9.4	91%	11.8	16	10.3
Saguache Ck nr Saguache [2]								
	APR-SEP	9.4	14.7	19	68%	24	32	28
Conejos R nr Mogote [2]								
	APR-SEP	129	163	189	113%	215	260	168
Platoro Reservoir Inflow [2]								
	APR-JUL	37	47	54	106%	62	74	51

	APR-SEP	41	52	60	105%	69	82	57
Los Pinos R nr Ortiz								
	APR-SEP	43	58	69	113%	81	101	61
Rio Grande nr Lobatos								
Culebra Ck at San Luis								
	APR-SEP	7.3	11.7	15.4	92%	19.5	26	16.7
Ute Ck nr Fort Garland								
	APR-SEP	4.5	7.3	9.5	84%	12.1	16.4	11.3

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						
Rio Hondo	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Rio Ruidoso at Hollywood								
	MAR-JUN	1.52	3.3	5	147%	7	10.5	3.4

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						
San Francisco	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
San Francisco R at Clifton								
	FEB-MAY	34	56	75	188%	98	140	40
San Francisco R at Glenwood								
	FEB-MAY	16.3	27	36	238%	47	67	15.1

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						
San Juan	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
San Juan R nr Carracas [2]								
	APR-JUL	210	285	345	103%	410	515	335
Navajo Reservoir Inflow [2]								
	APR-JUL	365	525	650	103%	790	1020	630
Lemon Reservoir Inflow[2]								
	APR-JUL	36	48	56	124%	65	80	45
Navajo R bl Oso Diversion [2]								
	APR-JUL	38	51	61	109%	72	90	56
Rio Blanco at Blanco Diversion [2]								
	APR-JUL	31	42	50	104%	59	73	48
Piedra R nr Arboles								
	APR-JUL	117	161	195	111%	230	290	175
Animas R at Durango								
	APR-JUL	300	380	440	117%	505	610	375
Vallecito Reservoir Inflow[2]								
	APR-JUL	133	170	198	117%	230	275	169

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						
Upper Gila	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Gila R at Gila								
	FEB-MAY	31	48	62	141%	79	108	44
Gila R bl Blue Ck nr Virden								
	FEB-MAY	39	63	84	156%	109	155	54

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						
Upper Rio Grande	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Costilla Reservoir Inflow[2]								
	MAR-JUL	3.8	5.8	7.3	71%	9	11.8	10.3
Costilla Ck nr Costilla [2]								
	MAR-JUL	7.3	11.8	15.5	70%	19.6	27	22
Red R bl Fish Hatchery nr Questa								
	MAR-JUL	13.4	18.2	22	71%	26	32	31
Rio Lucero nr Arroyo Seco								
	MAR-JUL	4.1	6.1	7.6	75%	9.3	12.2	10.1
Rio Pueblo de Taos nr Taos								
	MAR-JUL	4.6	7.6	10.2	82%	13.1	18.1	12.5
Rio Pueblo de Taos bl Los Cordovas								
	MAR-JUL	2.9	9.8	16.8	80%	26	42	21
Rio Hondo nr Valdez								
	MAR-JUL	5.4	8.5	10.9	72%	13.6	18.2	15.1
Embudo Ck at Dixon								
	MAR-JUL	13.9	24	32	100%	41	58	32
Santa Cruz R at Cundiyo								
	MAR-JUL	8.5	11.5	13.8	83%	16.4	21	16.6
Nambe Falls Reservoir Inflow[2]								
	MAR-JUL	3	4.3	5.2	93%	6.3	8	5.6
Tesuque Ck ab diversions								
	MAR-JUL	0.5	0.91	1.26	112%	1.66	2.3	1.13
Rio Grande at Otowi Bridge [2]								
	MAR-JUL	270	410	520	92%	645	850	565
Santa Fe R nr Santa Fe [2]								
	MAR-JUL	1.6	2.6	3.4	103%	4.3	5.8	3.3
Rio Grande at San Marcial [2]								
	MAR-JUL	-5.7	181	310	90%	435	620	345

1) 90% And 10% exceedance probabilities are actually 95% And 5%
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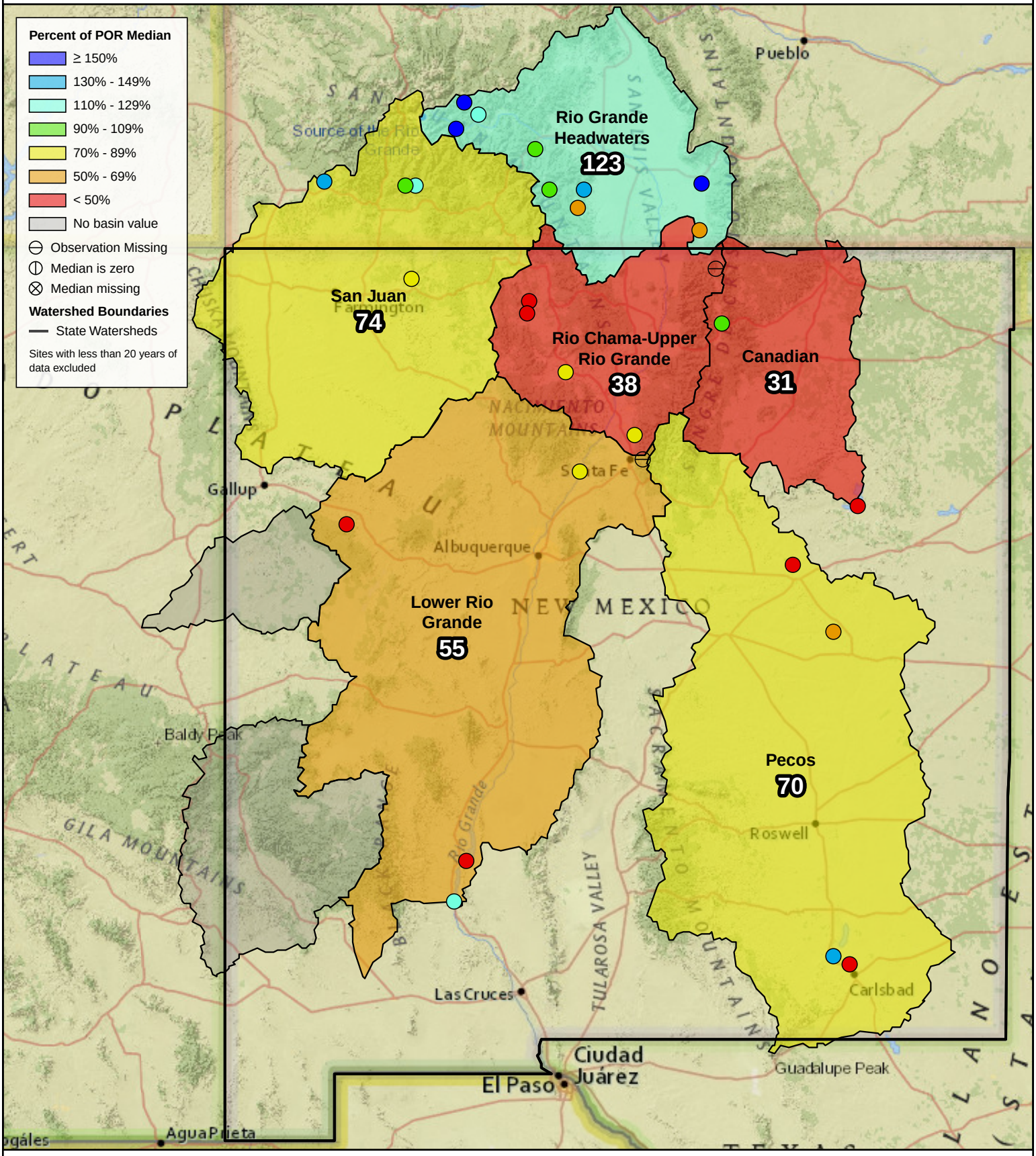
Forecast Exceedance Probabilities For Risk Assessment
Chance that actual volume will exceed forecast

Zuni-Bluewater	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Zuni R ab Black Rock Reservoir								
	FEB-MAY	0	0.19	0.5	500%	0.96	1.91	0.1
Rio Nutria nr Ramah								
	FEB-MAY	0.53	1.19	1.8	281%	2.5	3.8	0.64

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	Reservoir Storage Percent of POR Median	End of January, 2023



USDA Natural Resources Conservation Service
United States Department of Agriculture

Created 2-06-2023

Report Created: 2/6/2023 10:36:29 AM

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

Reservoir Storage Summary For the End of January 2023

Canadian	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Eagle Nest Lake nr Eagle Nest, NM	32.0	35.8	44.8	79.0	41%	45%	57%	72%	80%
Conchas Lake	23.7	19.3	129.5	254.4	9%	8%	51%	18%	15%
Basin Index					**17%**	**17%**	**52%**	**32%**	**32%**
# of reservoirs					2	2	2	2	2

Pecos	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Brantley Lake nr Carlsbad	38.0	28.1	26.1	1008.2	4%	3%	3%	146%	108%
Lake Avalon	0.0	2.6	2.3	4.0	0%	65%	58%	0%	113%
Lake Sumner	19.4	14.9	27.5	102.0	19%	15%	27%	70%	54%
Santa Rosa Reservoir	16.6	18.3	51.2	432.2	4%	4%	12%	32%	36%
Basin Index					**5%**	**4%**	**7%**	**69%**	**60%**
# of reservoirs					4	4	4	4	4

Rio Chama	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
El Vado Reservoir	0.7	10.8	71.7	184.8	0%	6%	39%	1%	15%
Heron Reservoir	38.8	40.3	226.3	400.0	10%	10%	57%	17%	18%
Abiquiu Reservoir	101.3	78.3	159.6	1198.5	8%	7%	13%	63%	49%
Basin Index					**8%**	**7%**	**26%**	**31%**	**28%**
# of reservoirs					3	3	3	3	3

Rio Grande Headwaters	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Mountain Home Reservoir	4.2	4.0	2.4	18.0	23%	22%	13%	176%	165%
Beaver Reservoir	3.7	3.4	4.1	4.5	82%	76%	91%	90%	84%
Sanchez Reservoir	8.2	6.3	19.4	103.0	8%	6%	19%	42%	32%
Continental Reservoir	10.9	9.8	3.9	27.0	40%	36%	14%	280%	251%
La Jara Reservoir	1.1	1.1	1.8	0.0				59%	63%
Santa Maria Reservoir	9.3	12.3	7.8	45.0	21%	27%	17%	119%	157%
Terrace Reservoir	6.7	4.5	5.2	18.0	37%	25%	29%	128%	87%
Platoro Reservoir	14.1	14.2	17.2	60.0	24%	24%	29%	82%	83%
Rio Grande Reservoir	26.1	19.8	17.2	51.0	51%	39%	34%	152%	115%
Basin Index					**26%**	**23%**	**24%**	**107%**	**96%**
# of reservoirs					9	9	9	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
Vallecito Reservoir	71.8	38.6	74.0	126.0	57%	31%	59%	97%	52%
Navajo Reservoir	847.1	859.1	1311.0	1696.0	50%	51%	77%	65%	66%
Lemon Reservoir	17.0	13.2	18.5	40.0	43%	33%	46%	92%	71%
Basin Index					**50%**	**49%**	**75%**	**67%**	**65%**
# of reservoirs					3	3	3	3	3

Upper Rio Grande	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Caballo Reservoir	52.2	15.7	35.3	332.0	16%	5%	11%	148%	45%
Cochiti Lake	43.0	41.0	50.2	491.0	9%	8%	10%	86%	82%
Costilla Reservoir		3.9	6.0	16.0		24%	38%		65%
Elephant Butte Reservoir	261.6	195.5	553.3	2195.0	12%	9%	25%	47%	35%
Mcclure Reservoir		0.3	1.6	3.3		9%	48%		18%
Nambe Falls Reservoir	1.6	1.7	1.9	1.7	98%	102%	112%	88%	91%
Basin Index					**12%**	**8%**	**21%**	**56%**	**40%**
# of reservoirs					4	6	6	4	6

Zuni-Bluewater	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Median % Capacity	Current % Median	Last Year % Median
Bluewater Lake	1.0	2.0	3.9	38.5	3%	5%	10%	27%	50%
Basin Index					**3%**	**5%**	**10%**	**27%**	**50%**
# of reservoirs					1	1	1	1	1

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Rio Grande Headwaters
Streamflow Forecasts - February 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)
Alamosa Ck ab Terrace Reservoir	APR-SEP	43	55	64	105%	74	90	61
San Antonio R at Ortiz	APR-SEP	5.9	9.5	12.5	130%	15.9	22	9.6
Rio Grande nr Del Norte [2]	APR-SEP	300	395	470	98%	545	675	480
La Jara Ck nr Capulin	MAR-JUL	4.5	6.5	8	104%	9.7	12.6	7.7
Rio Grande at Thirty Mile Bridge[2]	APR-JUL	77	100	116	105%	132	155	111
	APR-SEP	85	112	130	108%	148	175	120
Rio Grande at Wagon Wheel Gap[2]	APR-SEP	194	255	305	98%	355	440	310
SF Rio Grande at South Fork[2]	APR-SEP	83	106	123	110%	142	171	112
Sangre de Cristo Ck [2]	APR-SEP	3.1	6.7	10	92%	13.9	21	10.9
Trinchera Ck ab Turners Ranch	APR-SEP	4.5	7.2	9.4	91%	11.8	16	10.3
Saguache Ck nr Saguache [2]	APR-SEP	9.4	14.7	19	68%	24	32	28
Conejos R nr Mogote [2]	APR-SEP	129	163	189	113%	215	260	168
Platoro Reservoir Inflow [2]	APR-JUL	37	47	54	106%	62	74	51
	APR-SEP	41	52	60	105%	69	82	57
Los Pinos R nr Ortiz	APR-SEP	43	58	69	113%	81	101	61
Rio Grande nr Lobatos								
Culebra Ck at San Luis	APR-SEP	7.3	11.7	15.4	92%	19.5	26	16.7
Ute Ck nr Fort Garland	APR-SEP	4.5	7.3	9.5	84%	12.1	16.4	11.3

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

Reservoir Storage End of January, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Mountain Home Reservoir	4.2	4.0	2.4	18.0
Beaver Reservoir	3.7	3.4	4.1	4.5
Sanchez Reservoir	8.2	6.3	19.4	103.0
Continental Reservoir	10.9	9.8	3.9	27.0
La Jara Reservoir	1.1	1.1	1.8	0.0
Santa Maria Reservoir	9.3	12.3	7.8	45.0
Terrace Reservoir	6.7	4.5	5.2	18.0
Platoro Reservoir	14.1	14.2	17.2	60.0
Rio Grande Reservoir	26.1	19.8	17.2	51.0

Basin Index
# of reservoirs

Watershed Snowpack Analysis February 1, 2023	# of Sites	% Median	Last Year % Median
Rio Grande Headwaters	23	112%	88%

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Upper Rio Grande
Streamflow Forecasts - February 1, 2023

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

Upper Rio Grande	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Costilla Reservoir Inflow[2]	MAR-JUL	3.8	5.8	7.3	71%	9	11.8	10.3
Costilla Ck nr Costilla [2]	MAR-JUL	7.3	11.8	15.5	70%	19.6	27	22
Red R bl Fish Hatchery nr Questa	MAR-JUL	13.4	18.2	22	71%	26	32	31
Rio Lucero nr Arroyo Seco	MAR-JUL	4.1	6.1	7.6	75%	9.3	12.2	10.1
Rio Pueblo de Taos nr Taos	MAR-JUL	4.6	7.6	10.2	82%	13.1	18.1	12.5
Rio Pueblo de Taos bl Los Cordovas	MAR-JUL	2.9	9.8	16.8	80%	26	42	21
Rio Hondo nr Valdez	MAR-JUL	5.4	8.5	10.9	72%	13.6	18.2	15.1
Embudo Ck at Dixon	MAR-JUL	13.9	24	32	100%	41	58	32
Santa Cruz R at Cundiyo	MAR-JUL	8.5	11.5	13.8	83%	16.4	21	16.6
Nambe Falls Reservoir Inflow[2]	MAR-JUL	3	4.3	5.2	93%	6.3	8	5.6
Tesuque Ck ab diversions	MAR-JUL	0.5	0.91	1.26	112%	1.66	2.3	1.13
Rio Grande at Otowi Bridge [2]	MAR-JUL	270	410	520	92%	645	850	565
Santa Fe R nr Santa Fe [2]	MAR-JUL	1.6	2.6	3.4	103%	4.3	5.8	3.3
Rio Grande at San Marcial [2]	MAR-JUL	-5.7	181	310	90%	435	620	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 January, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Caballo Reservoir	52.2	15.7	35.3	332.0
Cochiti Lake	43.0	41.0	50.2	491.0
Costilla Reservoir		3.9	6.0	16.0
Elephant Butte Reservoir	261.6	195.5	553.3	2195.0
Mcclure Reservoir		0.3	1.6	3.3
Nambe Falls Reservoir	1.6	1.7	1.9	1.7

Basin Index
# of reservoirs

Watershed Snowpack Analysis February 1, 2023	# of Sites	% Median	Last Year % Median
Upper Rio Grande	23	112%	88%

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Rio Chama
Streamflow Forecasts - February 1, 2023

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

Rio Chama	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
El Vado Reservoir Inflow [2]								
	MAR-JUL	104	155	195	105%	240	315	186
	APR-JUL	91	138	175	105%	215	285	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 January, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
El Vado Reservoir	0.7	10.8	71.7	184.8
Heron Reservoir	38.8	40.3	226.3	400.0
Abiquiu Reservoir	101.3	78.3	159.6	1198.5

Basin Index
# of reservoirs

Watershed Snowpack Analysis February 1, 2023	# of Sites	% Median	Last Year % Median
Rio Chama	4	124%	105%

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Jemez
Streamflow Forecasts - February 1, 2023

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

Jemez	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Jemez R bl Jemez Canyon Dam	MAR-JUL	11.6	18.2	23	105%	29	39	22
Jemez R nr Jemez	MAR-JUL	17.8	25	31	107%	37	47	29

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 February 1, 2023	# of Sites	% Median	Last Year % Median
Jemez	3	100%	71%

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Canadian
Streamflow Forecasts - February 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	0.88	2.1	3.2	60%	4.5	7	5.3
Ponil Ck nr Cimarron	MAR-JUN	0.3	1.53	3.6	67%	5.7	8.7	5.4
Eagle Nest Reservoir Inflow	MAR-JUN	-1	1.99	4.4	66%	6.8	10.4	6.7
Rayado Ck nr Cimarron	MAR-JUN	0.5	1.88	3.5	69%	5.1	7.5	5.1
Cimarron R nr Cimarron[2]	MAR-JUN	-1	3.3	6.9	75%	10.5	15.7	9.2

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

Reservoir Storage End of January, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Eagle Nest Lake nr Eagle Nest, NM	32.0	35.8	44.8	79.0
Conchas Lake	23.7	19.3	129.5	254.4

Basin Index
# of reservoirs

Watershed Snowpack Analysis February 1, 2023	# of Sites	% Median	Last Year % Median
Canadian	9	77%	67%

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Pecos

Streamflow Forecasts - February 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	25	37	46	87%	57	74	53
Gallinas Ck nr Montezuma								
	MAR-JUL	2.3	5.1	7.6	95%	10.5	15.8	8
Pecos R nr Anton Chico								
	MAR-JUL	14	30	45	85%	63	93	53
Pecos R ab Santa Rosa Lk								
	MAR-JUL	11.1	25	37	90%	52	79	41

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

Reservoir Storage End of January, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Brantley Lake nr Carlsbad	38.0	28.1	26.1	1008.2
Lake Avalon	0.0	2.6	2.3	4.0
Lake Sumner	19.4	14.9	27.5	102.0
Santa Rosa Reservoir	16.6	18.3	51.2	432.2

Basin Index
# of reservoirs

Watershed Snowpack Analysis February 1, 2023	# of Sites	% Median	Last Year % Median
Pecos	5	81%	66%

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Rio Hondo
Streamflow Forecasts - February 1, 2023

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

Rio Hondo	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Rio Ruidoso at Hollywood								
	MAR-JUN	1.52	3.3	5	147%	7	10.5	3.4

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

Watershed Snowpack Analysis February 1, 2023	# of Sites	% Median	Last Year % Median
Rio Hondo	1	35%	16%

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San Juan
Streamflow Forecasts - February 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)
San Juan R nr Carracas [2]	APR-JUL	210	285	345	103%	410	515	335
Navajo Reservoir Inflow [2]	APR-JUL	365	525	650	103%	790	1020	630
Lemon Reservoir Inflow[2]	APR-JUL	36	48	56	124%	65	80	45
Navajo R bl Oso Diversion [2]	APR-JUL	38	51	61	109%	72	90	56
Rio Blanco at Blanco Diversion [2]	APR-JUL	31	42	50	104%	59	73	48
Piedra R nr Arboles	APR-JUL	117	161	195	111%	230	290	175
Animas R at Durango	APR-JUL	300	380	440	117%	505	610	375
Vallecito Reservoir Inflow[2]	APR-JUL	133	170	198	117%	230	275	169

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

Reservoir Storage End of January, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Vallecito Reservoir	71.8	38.6	74.0	126.0
Navajo Reservoir	847.1	859.1	1311.0	1696.0
Lemon Reservoir	17.0	13.2	18.5	40.0

Basin Index
# of reservoirs

Watershed Snowpack Analysis February 1, 2023	# of Sites	% Median	Last Year % Median
San Juan	14	138%	97%

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Chuska-Defiance
Streamflow Forecasts - February 1, 2023

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

Chuska-Defiance	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Captain Tom Wash nr Two Gray Hills	MAR-MAY	0.49	1.33	2.2	355%	3.5	6.1	0.62
Bowl Canyon Ck ab Asaayi Lake	MAR-MAY	0.54	0.96	1.34	163%	1.81	2.7	0.82

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 February 1, 2023	# of Sites	% Median	Last Year % Median
Chuska-Defiance	5	164%	103%

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Zuni-Bluewater
Streamflow Forecasts - February 1, 2023

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

Zuni-Bluewater	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Zuni R ab Black Rock Reservoir								
	FEB-MAY	0	0.19	0.5	500%	0.96	1.91	0.1
Rio Nutria nr Ramah								
	FEB-MAY	0.53	1.19	1.8	281%	2.5	3.8	0.64

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

Reservoir Storage End of January, 2023	Current (KAF)	Last Year (KAF)	Median (KAF)	Capacity (KAF)
Bluewater Lake	1.0	2.0	3.9	38.5

Basin Index
# of reservoirs

Watershed Snowpack Analysis February 1, 2023	# of Sites	% Median	Last Year % Median
Zuni-Bluewater	5	201%	131%

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Upper Gila
Streamflow Forecasts - February 1, 2023

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

Upper Gila	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Gila R at Gila								
	FEB-MAY	31	48	62	141%	79	108	44
Gila R bl Blue Ck nr Virden								
	FEB-MAY	39	63	84	156%	109	155	54

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 February 1, 2023	# of Sites	% Median	Last Year % Median
Upper Gila	3	104%	44%

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San Francisco
Streamflow Forecasts - February 1, 2023

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

San Francisco	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
San Francisco R at Clifton	FEB-MAY	34	56	75	188%	98	140	40
San Francisco R at Glenwood	FEB-MAY	16.3	27	36	238%	47	67	15.1

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

Watershed Snowpack Analysis February 1, 2023	# of Sites	% Median	Last Year % Median
San Francisco	8	140%	71%

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Mimbres
Streamflow Forecasts - February 1, 2023

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

Mimbres	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Mimbres R at Mimbres								
	FEB-MAY	1.75	3.7	5.5	262%	7.7	11.5	2.1

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

Watershed Snowpack Analysis February 1, 2023	# of Sites	% Median	Last Year % Median
Mimbres	2	110%	47%

NEW MEXICO WATER SUPPLY OUTLOOK REPORT

Natural Resources Conservation Service

Albuquerque, New Mexico

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