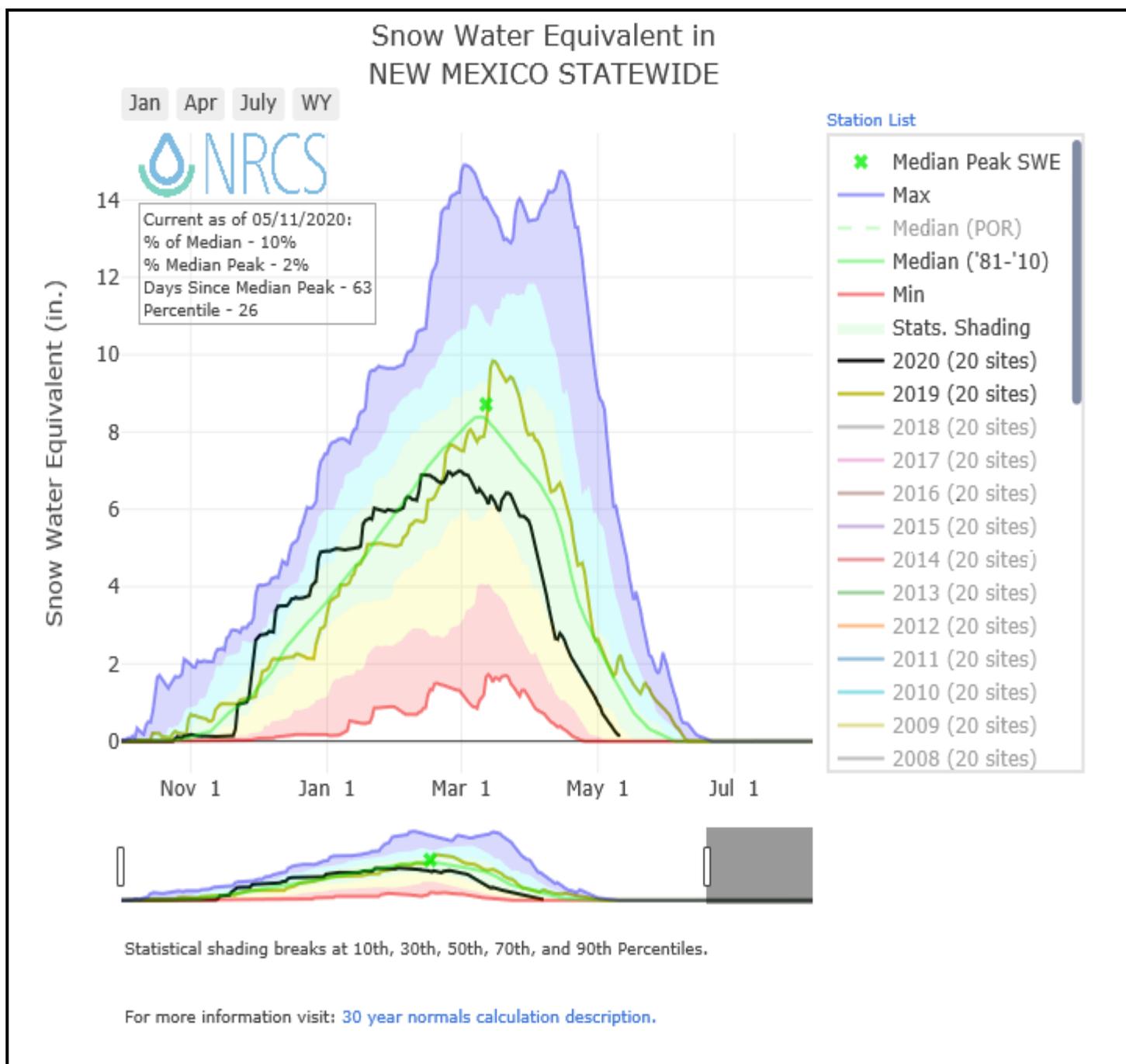


New Mexico Basin Outlook Report May 1, 2020



With the rise in temperatures and lack of precipitation New Mexico's snowpack makes a sharp decline melting out much earlier than last year.

Basin Outlook Reports and Federal - State - Private Cooperative Snow Surveys

For more water supply and resource management information, contact:

Chris Romero
Snow Survey Hydrologic Technician
Natural Resources Conservation Service
100 Sun Avenue NE, Suite 602
Albuquerque, NM 87109
(505) 761-4431

Rick Strait
State Soil Scientist
Natural Resources Conservation Service
100 Sun Avenue NE, Suite 602
Albuquerque, NM 87109
(505) 761-4433

<http://www.nrcs.usda.gov/wps/portal/nrcs/main/nm/snow/>

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.

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To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C., 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

Summary

The month of April left New Mexico with deficits in both snow and precipitation. With temperatures steadily climbing throughout the month into record setting levels the northern mountains began to quickly shed what little snow was left. Coming off a marginal snow accumulation season and a dry spring has left the streamflow forecasts with well below average values. As of May 1st, statewide snowpack is 39 percent of median compared to 106 percent at this time last year. Reservoir levels are currently 63 percent of average, which is slightly higher than last year, however this is a product of early snowmelt and runoff. When paired with a dry April and above average temperatures the result is well below average streamflow values. Overall a below average water-year for New Mexico which is reflected in this month's forecasts. Water users and managers should continue to monitor conditions to see how our spring weather develops we progress into the summer months.

Snowpack

The May 1st snowpack values have continued to drop as winter came to a halt in the northern mountains and has completely melted out in the southern half of the state. Statewide temperatures climbed throughout April setting unexpected records with as much as ten degrees above the normal. With these factors in play New Mexico saw rapid increases in the amount of snow melting off the northern mountains which is reflected in this month's streamflow forecasts and reservoir levels. With a high of 62 percent of median in the southern San Juan River Basin we can expect much lower than normal streamflow volumes statewide.

NEW MEXICO STATEWIDE SNOWPACK	Percent of Median	Last Year Percent of Median
CANADIAN RIVER BASIN	53	176
PECOS RIVER BASIN	56	112
RIO GRANDE BASIN	37	111
MIMBRES RIVER BASIN	0	0
SAN FRANCISCO-UPPER GILA RIVER BASIN	0	0
ZUNI-BLUEWATER BASINS	0	0
SAN JUAN RIVER BASIN	62	147
CHUSKA MOUNTAINS	0	0
RIO HONDO BASIN	0	0
Statewide Snowpack Total	39	106
# of sites	20	20

Precipitation

Water year-to-date precipitation through April 1 is currently at 88 percent of average. April saw below average values throughout the state with isolated storms and localized weather making only marginal impacts. With the exception of the Zuni mountains all of New Mexico saw well below average monthly precipitation values. The Zuni/Bluewater Basins received 94 percent of the average monthly rainfall. Water users and managers should continue to monitor runoff and soil moisture levels as the state transitions into the warmest months of the year.

Reservoirs

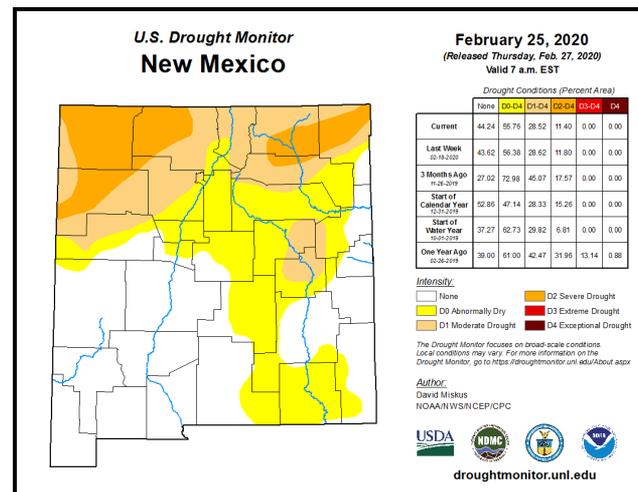
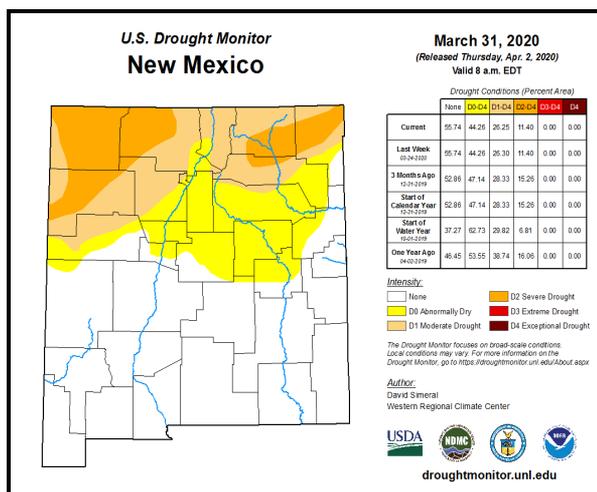
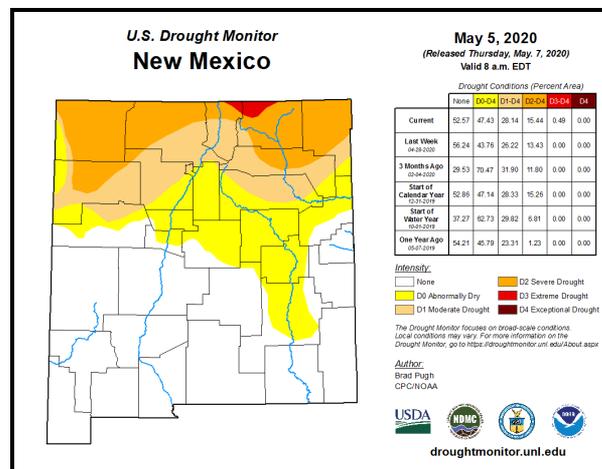
Reservoir storage across New Mexico currently remains just slightly improved over last year at this time. Elephant Butte is currently at 500,500 acre-feet as compared to last year's 317,300. Navajo Reservoir is holding 1,296,800 acre-feet in comparison to 1,116,700 last year. Statewide reservoir storage is currently at 63 percent of the average as compared to 54 percent last year at this time. Total reservoir storage is 2,419,400 acre-feet as compared to 1,697,800 acre-feet last year. This equates to 45 percent of the average capacity and 28 percent of the actual capacity. Water-users should continue to monitor weather conditions to evaluate their water needs as we move into the summer months.

NEW MEXICO STATEWIDE	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Abiquiu Reservoir	87.9	75.2	162.8	1192.8	7%	6%	14%	54%	46%
Bluewater Lake	6.7	11.7	11.1	38.5	17%	30%	29%	60%	105%
Brantley Lake nr Carlsbad	31.2	19.2	24.9	1008.2	3%	2%	2%	125%	77%
Caballo Reservoir	73.5	30.7	95.1	332.0	22%	9%	29%	77%	32%
Cochiti Lake	45.8	53.5	64.3	491.0	9%	11%	13%	71%	83%
Conchas Lake	68.1	124.6	198.9	254.2	27%	49%	78%	34%	63%
Costilla Reservoir	8.3	5.2	8.4	16.0	52%	33%	53%	99%	62%
Eagle Nest Lake nr Eagle Nest, NM	48.1	43.1	58.0	79.0	61%	55%	73%	83%	74%
El Vado Reservoir	41.4	30.6	133.2	190.3	22%	16%	70%	31%	23%
Elephant Butte Reservoir	500.5	317.3	1269.0	2195.0	23%	14%	58%	39%	25%
Heron Reservoir	114.2	81.2	285.4	400.0	29%	20%	71%	40%	28%
Lake Avalon	2.1	2.3	1.4	4.0	53%	58%	35%	149%	163%
Lake Sumner	22.3	29.2	27.1	102.0	22%	29%	27%	82%	108%
Navajo Reservoir	1296.8	1116.7	1361.0	1696.0	76%	66%	80%	95%	82%
Santa Rosa Reservoir	33.8	74.8	56.6	438.3	8%	17%	13%	60%	132%
Basin-wide Total	2380.6	2015.2	3757.2	8437.3	28%	24%	45%	63%	54%
# of reservoirs	15	15	15	15	15	15	15	15	15

Streamflow

Forecasts across the state have continued to drop for all basins following a very dry and unseasonably warm April. The lack of moisture coupled with much higher than normal temperatures has accelerated snow melt across New Mexico. Marginal increases at streamflow gauges is a result of early melt out and not necessarily due to increased snowpack or rainfall. Water users and managers should continue to watch the forecasts as water supply conditions evolve across the state.

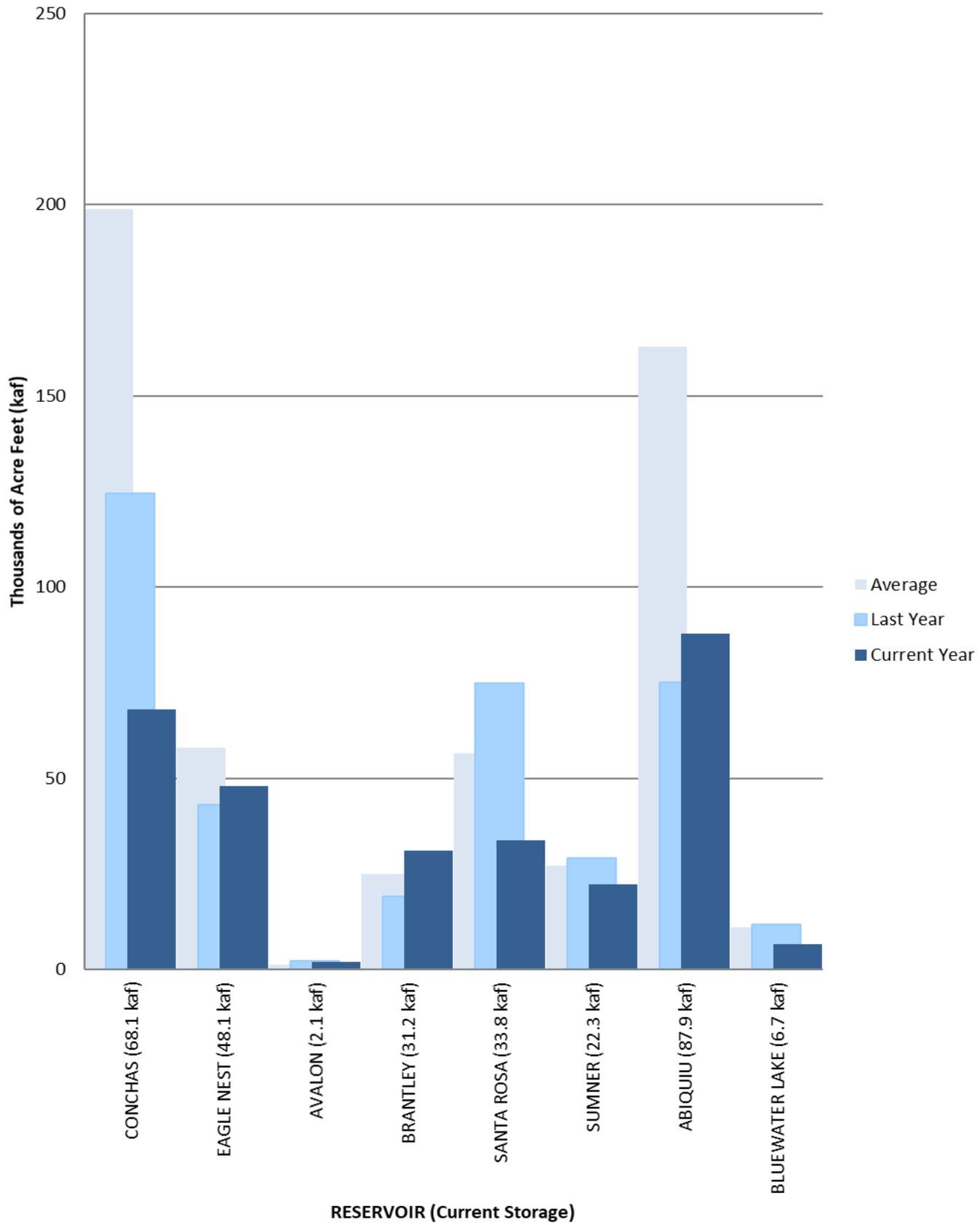
New Mexico Drought Monitor, real versus perceived conditions?



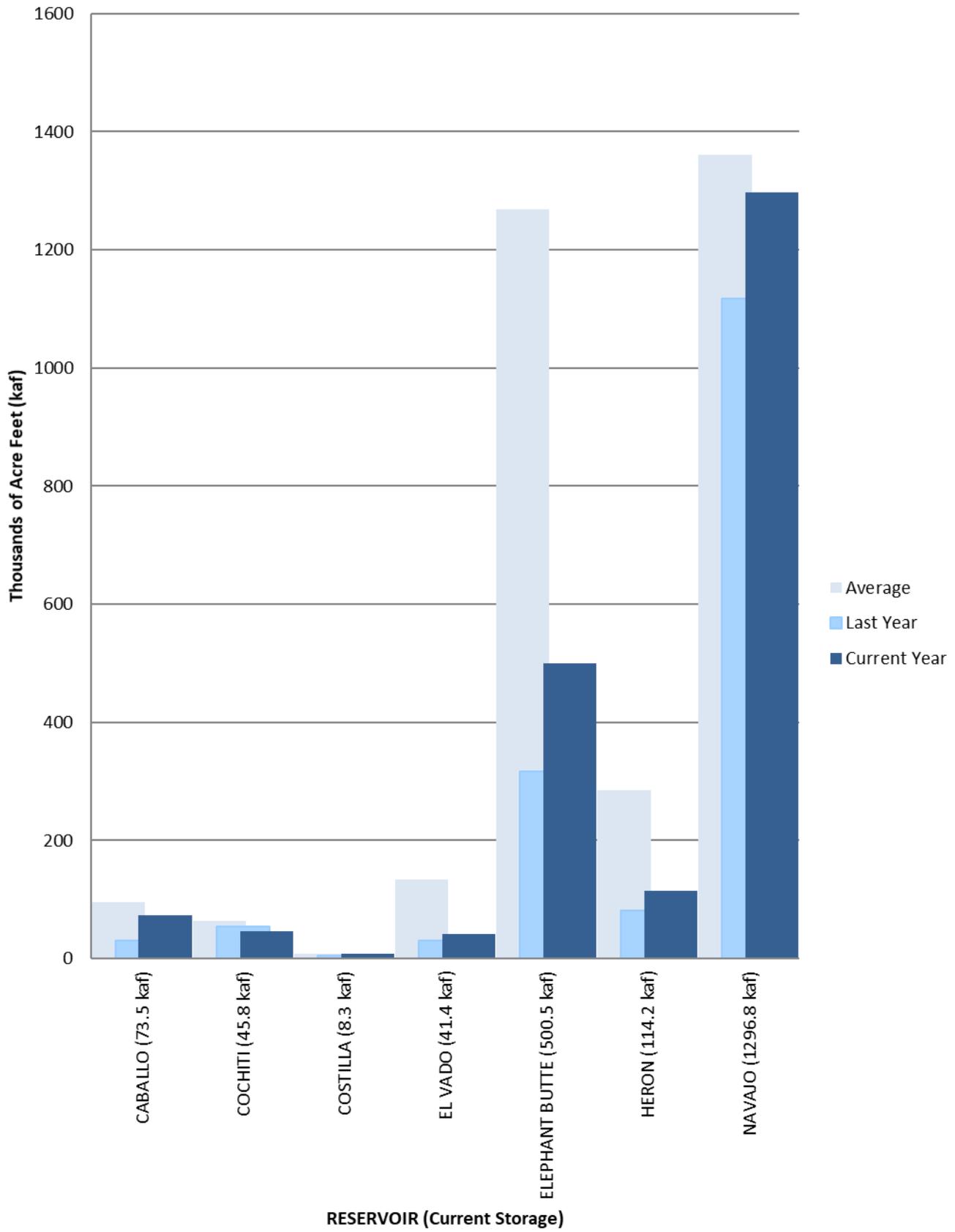
Every week, The U.S. Drought Monitor is produced in partnership between the National Drought Mitigation Center at the University of Nebraska-Lincoln, the United States Department of Agriculture, and the National Oceanic and Atmospheric Administration. This useful tool uses multiple inputs, including precipitation received, to give an indication of the extent and severity of drought conditions nationwide.

April 2020 saw a continued expansion of drought conditions over both New Mexico and the adjoining areas of Colorado as dry and warm conditions persisted over the Southern Rockies. Most reporting stations in New Mexico saw average temperatures of 2-3F above normal with some locations seeing upwards of 5F above normal for the month of April. Precipitation totals generally ran below normal with the greatest departures falling along the northern one-third of the state. The combination of the above normal temperatures, below normal temperatures, and the normally windy spring has led to increased evapotranspiration over the state. This increased evapotranspiration has led to further decreases in soil moisture values and provided additional stress to already stressed vegetation through the state. Areas of concern for further short-term deterioration of drought conditions include most of the Eastern Plains as well as the Upper Rio Grande Valley.

Statewide Reservoir Storage



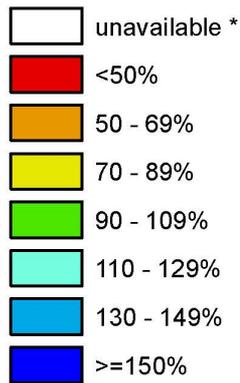
Statewide Reservoir Storage



New Mexico SNOTEL Current Snow Water Equivalent (SWE) % of Normal

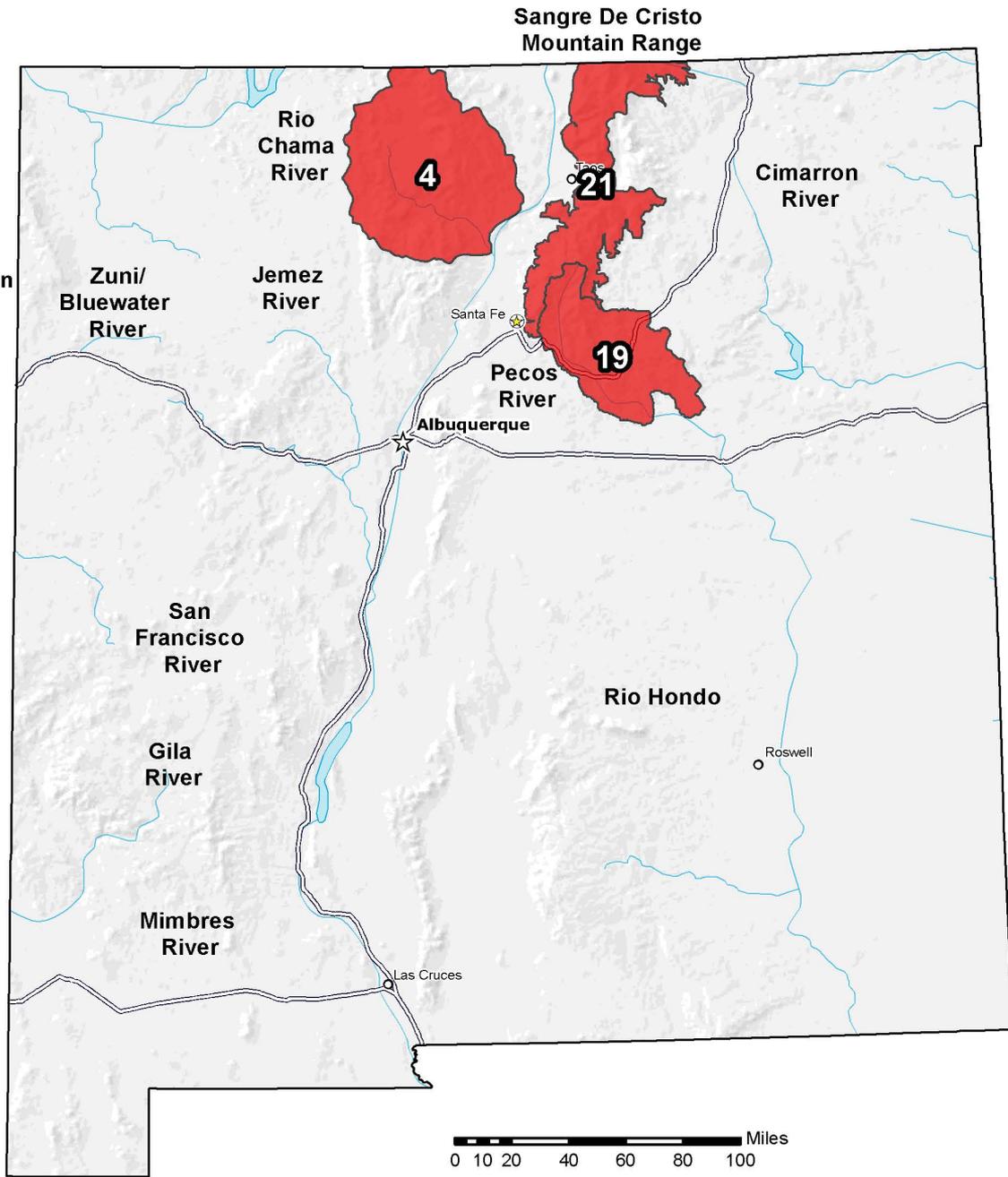
May 07, 2020

Current Snow Water Equivalent (SWE) Basin-wide Percent % of 1981-2010 Median



* Data unavailable at time of posting or measurement is not representative at this time of year

**Provisional Data
Subject to Revision**



The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

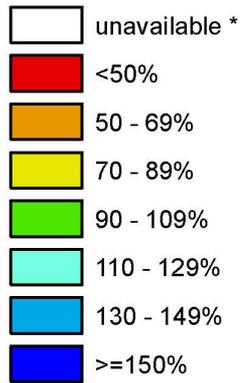
Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

New Mexico

SNOTEL Water Year (Oct 1) to Date Precipitation % of Normal

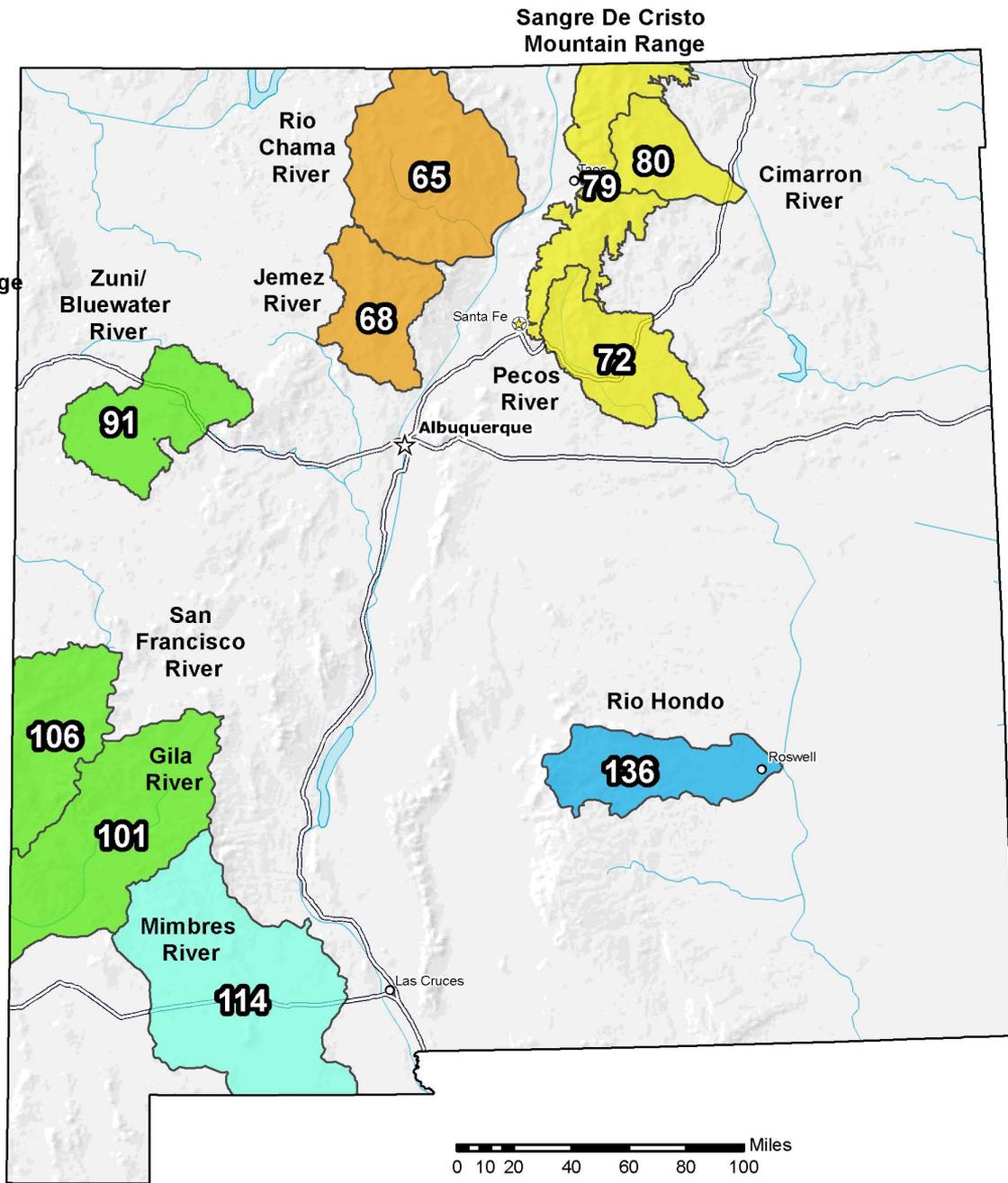
May 06, 2020

Water Year (Oct 1) to Date Precipitation Basin-wide Percent % of 1981-2010 Average



* Data unavailable at time of posting or measurement is not representative at this time of year

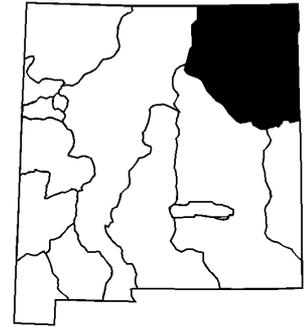
**Provisional Data
Subject to Revision**



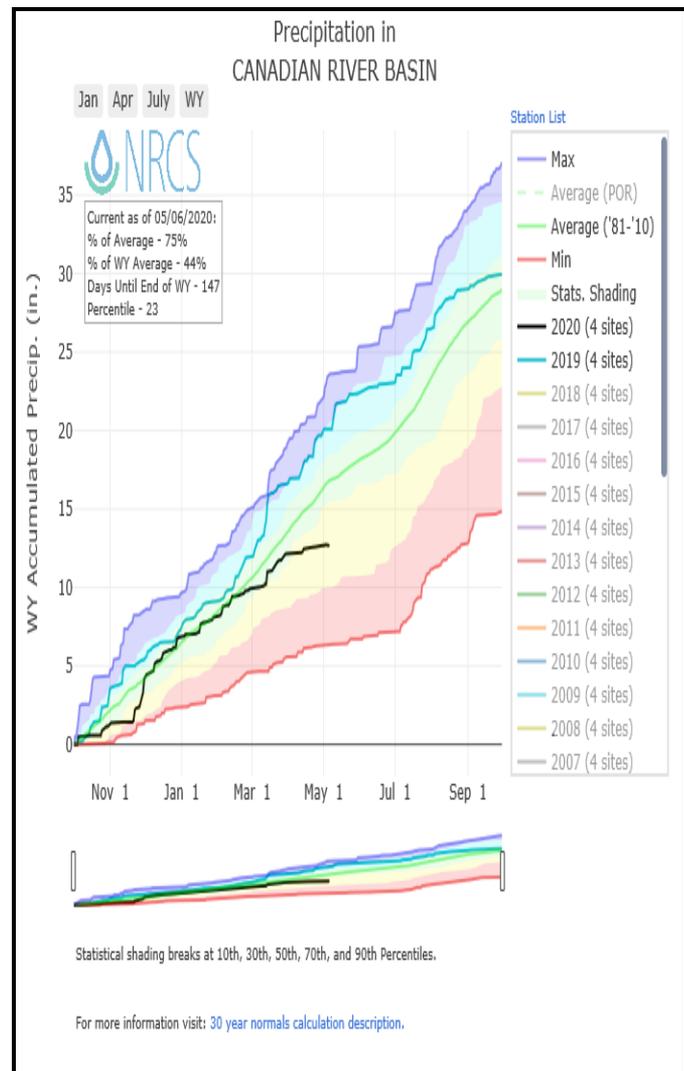
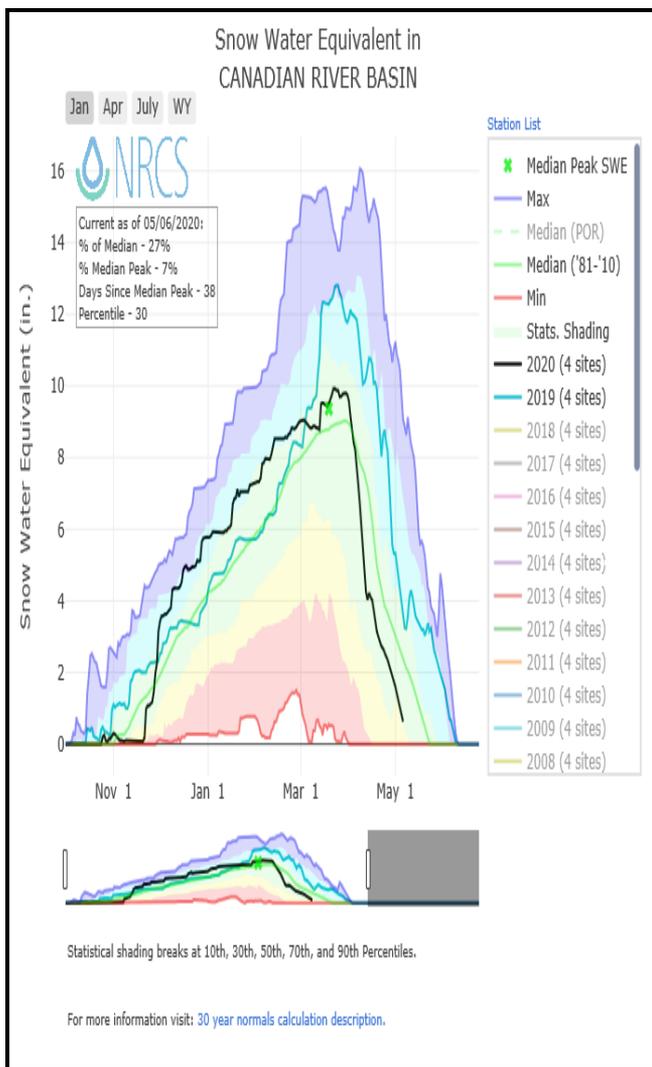
The water year to date precipitation percent of normal represents the accumulated precipitation found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

Canadian River Basin Water Supply Outlook Report as of May 1, 2020



The month of April received just 19 percent of the average amount of precipitation for the month. This puts the water year-to-date average amount of precipitation at 77 percent as compared to 122 percent last year at this time. Snowpack in the basin is at 53 percent of the median. The May to June Forecasts are all well below the average with the highest being 62 percent of average at the Conchas Reservoir inflow. Reservoirs are currently holding 116,200 acre-feet of storage, which is a decrease of 51,500 acre-feet from last year at this time. This equates to 45 percent of the average stored water, as compared to 65 percent for the basin at the end of April last year.



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**Canadian River Basin
Streamflow Forecasts - May 1, 2020**

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

CANADIAN RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Vermejo R nr Dawson	MAR-JUN	1.12	1.55	2	26%	2.6	3.8	7.8
	MAY-JUN	0.35	0.78	1.23	21%	1.83	3	5.8
Eagle Nest Reservoir Inflow	MAR-JUN	3.2	4	5.5	49%	8.2	14.8	11.2
	MAY-JUN	0.11	0.91	2.4	49%	5.1	11.7	4.9
Cimarron R nr Cimarron ²	MAR-JUN	0.5	1.94	8.2	52%	14.5	24	15.8
	MAY-JUN	0	1	4	48%	10.3	19.5	8.3
Ponil Ck nr Cimarron	MAR-JUN	1.38	1.76	2.1	29%	2.5	3.3	7.2
	MAY-JUN	0.45	0.83	1.17	25%	1.57	2.4	4.6
Rayado Ck nr Cimarron	MAR-JUN	3.2	3.6	3.9	56%	4.2	4.8	7
	MAY-JUN	1.41	1.81	2.1	49%	2.4	3	4.3
Conchas Reservoir Inflow ³	MAR-JUN	2.5	7.4	13	43%	21	38	30
	MAY-JUN	1.53	5.6	10.7	62%	18.2	34	17.3

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

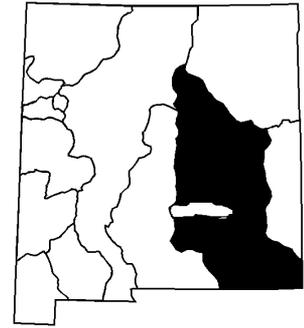
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

3) Median value used in place of average

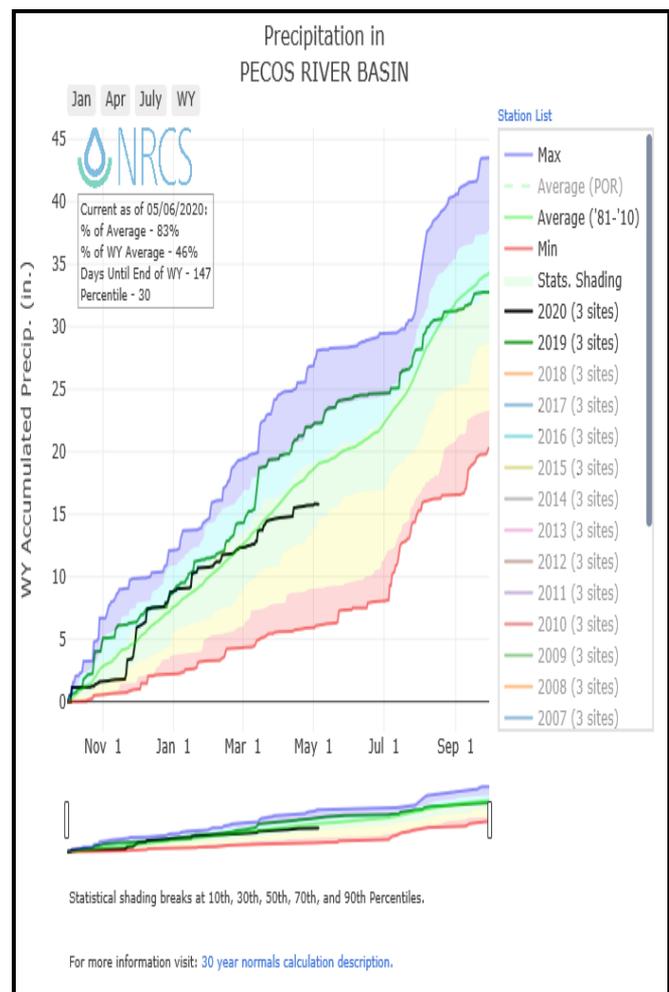
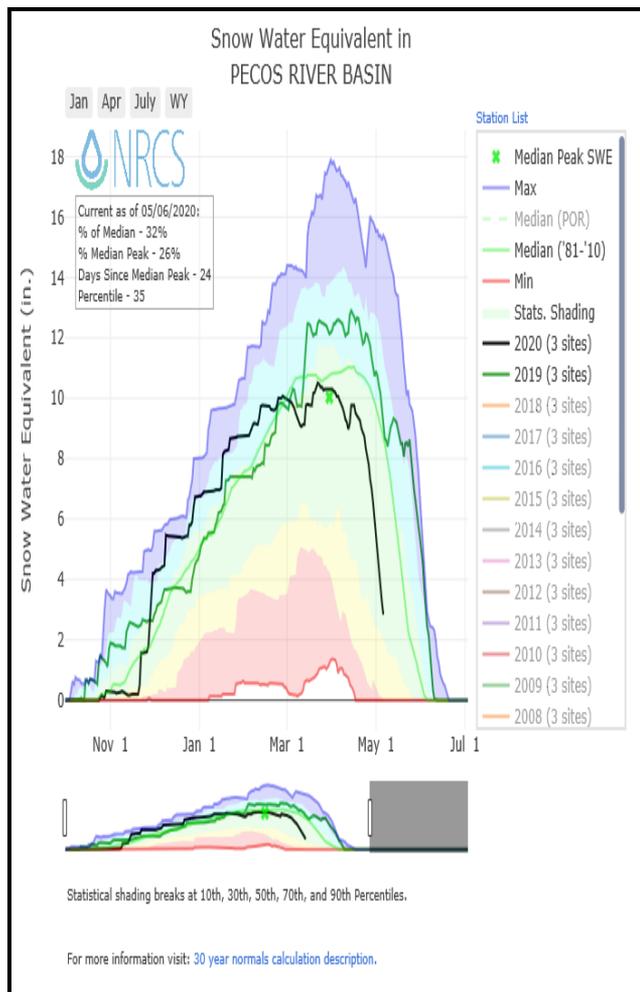
Reservoir Storage End of April, 2020	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Conchas Lake	68.1	124.6	198.9	254.4
Eagle Nest Lake nr Eagle Nest, NM	48.1	43.1	58.0	79.0
Basin-wide Total	116.2	167.7	256.9	333.4
# of reservoirs	2	2	2	2

Watershed Snowpack Analysis May 1, 2020	# of Sites	% Median	Last Year % Median
CANADIAN RIVER BASIN	4	53%	176%

Pecos River Basin Water Supply Outlook Report as of May 1, 2020



April received just 36 percent of the average precipitation for the month, putting the basin at 83 percent of average for the water year-to-date. Snowpack in the Pecos River Basin is at 56 percent of the median. Last year at this time the basin had 112 percent of the median snowpack. Forecasts in the Pecos Basin are all well below average ranging from 62 to 69 percent of average for the May to July time frame. As of May 1st, reservoir storage in the basin is at 89,300 acre-feet. This is 81 percent of the average stored water. Last year at this time reservoir storage was 114 percent of the average.



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**Pecos River Basin
Streamflow Forecasts - May 1, 2020**

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

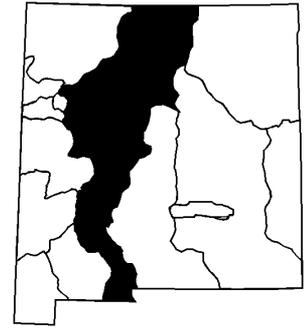
PECOS RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Pecos R nr Pecos	MAR-JUL	33	41	46	81%	52	62	57
	MAY-JUL	18.4	26	31	69%	37	47	45
Pecos R nr Anton Chico	MAR-JUL	31	40	47	75%	55	69	63
	MAY-JUL	12.3	21	28	62%	36	50	45
Gallinas Ck nr Montezuma	MAR-JUL	3.4	4.8	6	61%	7.4	10	9.8
	MAY-JUL	1.31	2.7	3.9	65%	5.3	7.9	6
Pecos R ab Santa Rosa Lk	MAR-JUL	21	29	37	66%	45	60	56
	MAY-JUL	11.1	19.7	27	63%	35	50	43

- 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
- 3) Median value used in place of average

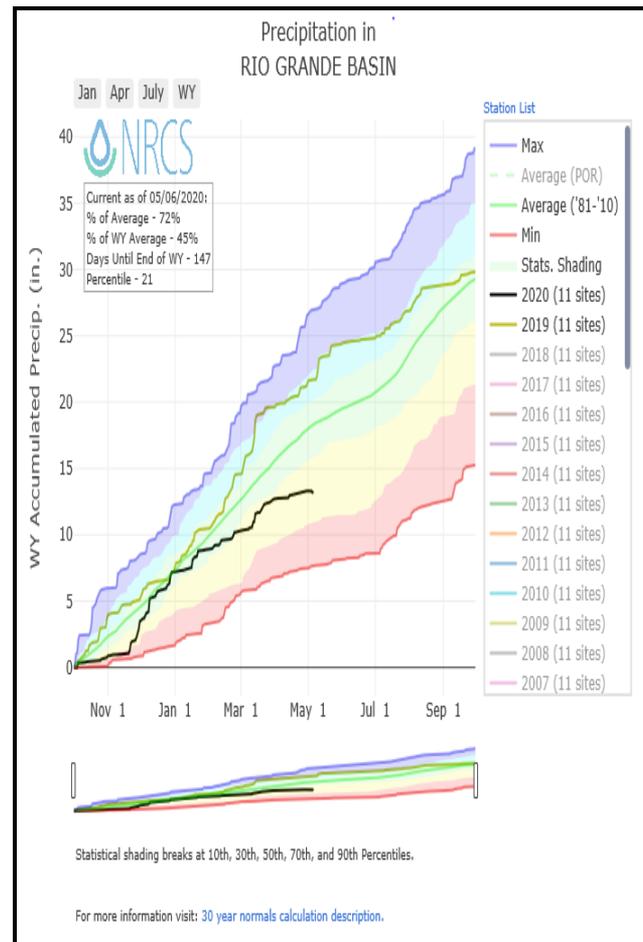
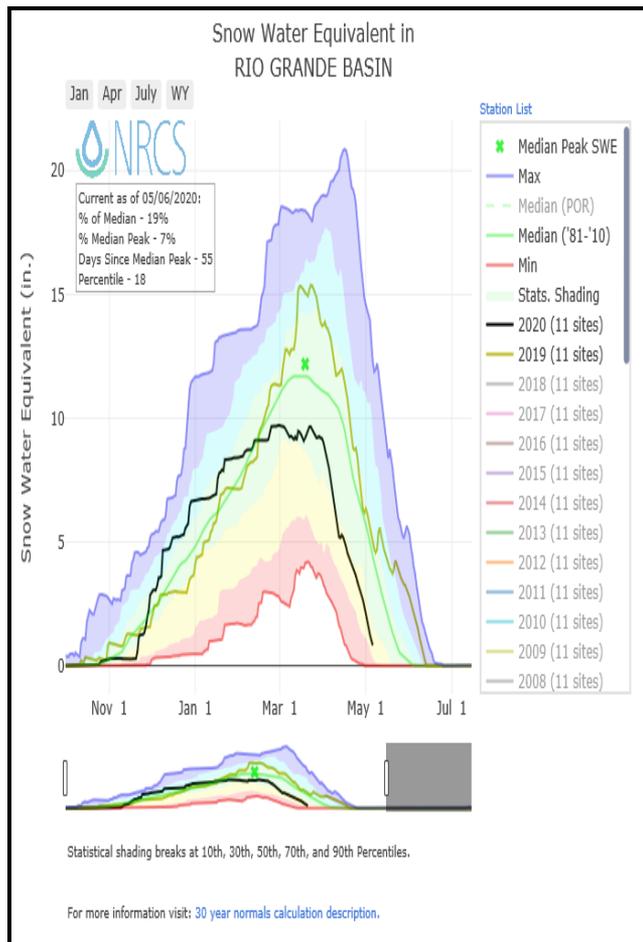
Reservoir Storage End of April, 2020	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Lake Avalon	2.1	2.3	1.4	4.0
Brantley Lake nr Carlsbad	31.2	19.2	24.9	1008.2
Santa Rosa Reservoir	33.8	74.8	56.6	432.2
Lake Sumner	22.3	29.2	27.1	102.0
Basin-wide Total	89.3	125.5	110.0	1546.4
# of reservoirs	4	4	4	4

Watershed Snowpack Analysis May 1, 2020	# of Sites	% Median	Last Year % Median
PECOS RIVER BASIN	3	56%	112%

Rio Grande Basin Water Supply Outlook Report as of May 1, 2020



April was another below average month for precipitation in the basin accumulating just 25 percent of the average leaving the water year-to-date precipitation at 74 percent of the average. Snowpack in the basin is also below the median at only 37 percent. This is 74 percent below last year's median! Snowpack in southern Colorado near the headwaters of the Rio Grande is at 52 percent of the median as compared to 134 percent last year at this time. Forecasts for the Rio Grande Basin have continued to drop and currently range from 29 to 69 percent of average. Current reservoir storage in the basin remains well above last year's values. Current storage in the basin is 878,300 acre-feet as compared to 605,300 acre-feet from this time last year! This is 43 percent of the average stored water for the basin.



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**Rio Grande Basin
Streamflow Forecasts - May 1, 2020**

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

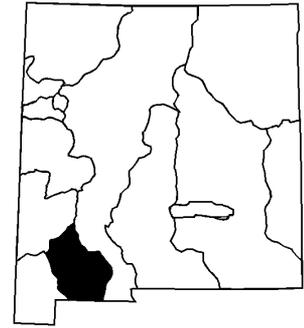
RIO GRANDE BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Rio Grande nr Del Norte ²	APR-SEP	255	290	320	62%	350	395	515
	MAY-SEP	220	255	285	61%	315	360	470
Platoro Reservoir Inflow	APR-JUL	27	31	34	61%	37	42	56
	APR-SEP	29	34	37	60%	41	46	62
	MAY-JUL	24	28	31	58%	34	39	53
	MAY-SEP	26	31	34	58%	38	43	59
Conejos R nr Mogote ²	APR-SEP	81	95	105	54%	116	133	194
	MAY-SEP	70	84	94	53%	105	122	177
Costilla Reservoir Inflow	MAR-JUL	3.7	4.8	5.7	51%	6.7	8.3	11.1
	MAY-JUL	2.5	3.6	4.5	51%	5.5	7.1	8.9
Costilla Ck nr Costilla ²	MAR-JUL	7.8	10.4	12.5	48%	14.9	19	26
	MAY-JUL	3.8	6.4	8.5	43%	10.9	15	19.6
Red R bl Fish Hatchery nr Questa	MAR-JUL	15.4	19.4	23	68%	26	32	34
	MAY-JUL	7.9	11.8	15	56%	18.5	24	27
Rio Hondo nr Valdez	MAR-JUL	8.7	11.2	13.1	71%	15.2	18.6	18.4
	MAY-JUL	6.2	8.7	10.6	69%	12.7	16.1	15.4
Rio Pueblo de Taos nr Taos	MAR-JUL	6.6	8.6	10.3	61%	12.3	15.6	17
	MAY-JUL	2.7	4.7	6.4	51%	8.4	11.7	12.5
Rio Lucero nr Arroyo Seco	MAR-JUL	4.6	6.4	7.9	72%	9.6	12.6	10.9
	MAY-JUL	2.8	4.6	6.1	68%	7.8	10.8	9
Rio Pueblo de Taos bl Los Cordovas	MAR-JUL	7.2	10.7	13.9	39%	17.8	25	36
	MAY-JUL	2.3	5.8	9	35%	12.9	20	26
Embudo Ck at Dixon	MAR-JUL	12.6	18.4	23	48%	29	38	48
	MAY-JUL	7.3	13.1	18	50%	24	33	36
El Vado Reservoir Inflow ²	MAR-JUL	64	74	81	36%	89	101	225
	APR-JUL	54	66	75	37%	84	99	205
	MAY-JUL	33	43	50	33%	58	70	153
Santa Cruz R at Cundiyo	MAR-JUL	8.6	10.6	12.2	67%	13.9	16.8	18.3
	MAY-JUL	4.6	6.6	8.2	61%	9.9	12.8	13.4
Nambe Falls Reservoir Inflow	MAR-JUL	3.3	4	4.5	69%	5.1	6.1	6.5
	MAY-JUL	1.95	2.7	3.2	63%	3.8	4.8	5.1
Tesuque Ck ab diversions	MAR-JUL	0.76	0.96	1.13	84%	1.33	1.67	1.34
	MAY-JUL	0.23	0.43	0.6	67%	0.8	1.14	0.9
Rio Grande at Otowi Bridge ²	MAR-JUL	198	235	260	36%	290	340	720
	MAY-JUL	83	118	146	30%	176	225	485
Santa Fe R nr Santa Fe ²	MAR-JUL	2.7	3.1	3.4	79%	3.7	4.3	4.3
	MAY-JUL	1.19	1.59	1.9	66%	2.2	2.8	2.9
Jemez R nr Jemez	MAR-JUL	14.6	16.6	18.2	43%	19.9	23	42
	MAY-JUL	5	7	8.6	44%	10.3	13.1	19.4
Jemez R bl Jemez Canyon Dam	MAR-JUL	8.7	10.8	13.1	39%	16.1	22	34
	MAY-JUL	0.6	2.7	5	29%	8	13.7	17
Rio Grande at San Marcial ²	MAR-JUL	-59	24	80	16%	136	220	510
	MAY-JUL	-123	-40	15.7	5%	72	154	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
- 3) Median value used in place of average

Reservoir Storage	Current	Last Year	Average	Capacity
End of April, 2020	(KAF)	(KAF)	(KAF)	(KAF)
Abiquiu Reservoir	87.9	75.2	162.8	1198.5
Bluewater Lake	6.7	11.7	11.1	38.5
Caballo Reservoir	73.5	30.7	95.1	332.0
Cochiti Lake	45.8	53.5	64.3	491.0
Costilla Reservoir	8.3	5.2	8.4	16.0
El Vado Reservoir	41.4	30.6	133.2	184.8
Elephant Butte Reservoir	500.5	317.3	1269.0	2195.0
Heron Reservoir	114.2	81.2	285.4	400.0
Basin-wide Total	878.3	605.3	2029.3	4855.8
# of reservoirs	8	8	8	8

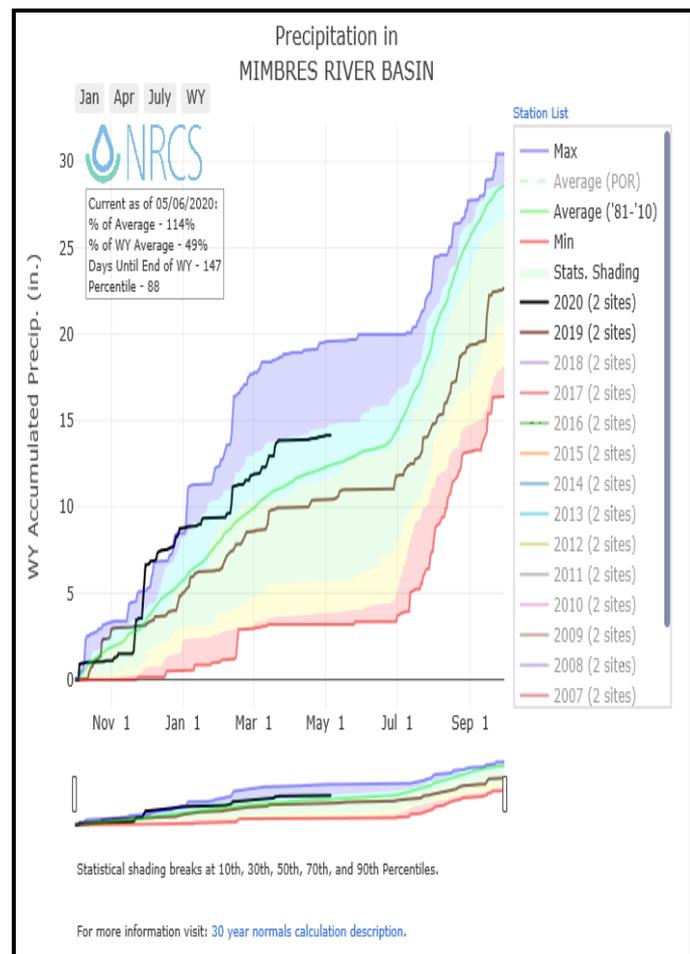
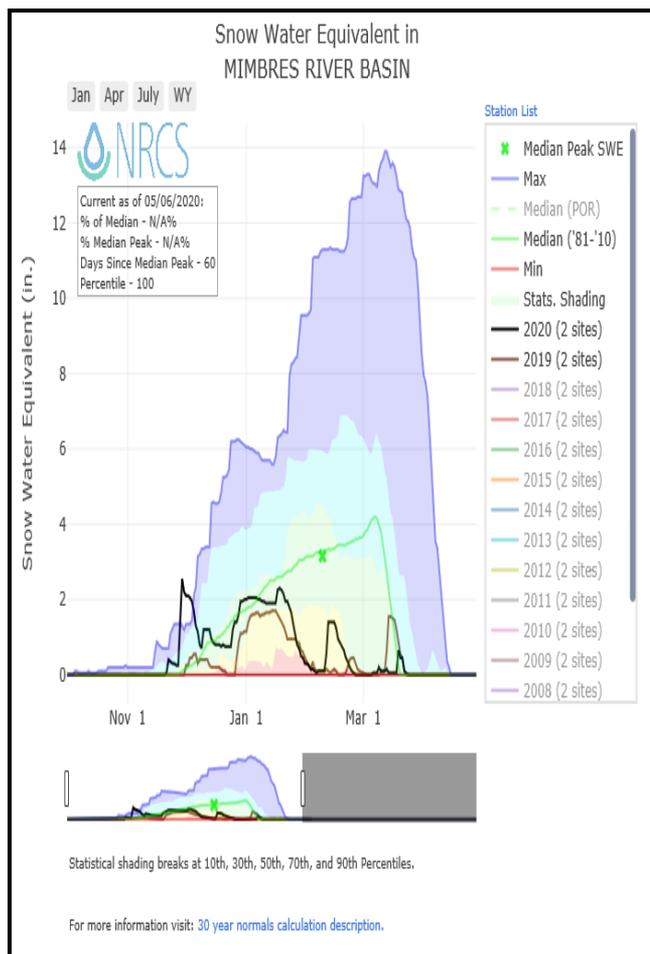
Watershed Snowpack Analysis	# of Sites	% Median	Last Year % Median
May 1, 2020			
RIO GRANDE BASIN	11	37%	111%

Mimbres River Basin Water Supply Outlook Report as of May 1, 2020



April was a dry month for the basin receiving just 32 percent of the average monthly precipitation which now brings the water year-to-date total up to 115 percent of the average. As of April 1st, snowpack in the basin has melted out. There are currently no May forecasts for the Mimbres River Basin at this time.

Users of NRCS Snow Survey data should be aware, due to reduced budget allocations; the manual snow courses at McKnight Cabin and Emory Pass #2 have been discontinued. Data is still being recorded at the automated SNOTEL sites in the basin.

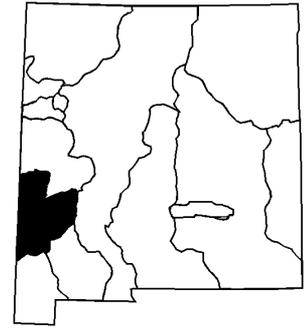


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Mimbres River Basin - May 1, 2020

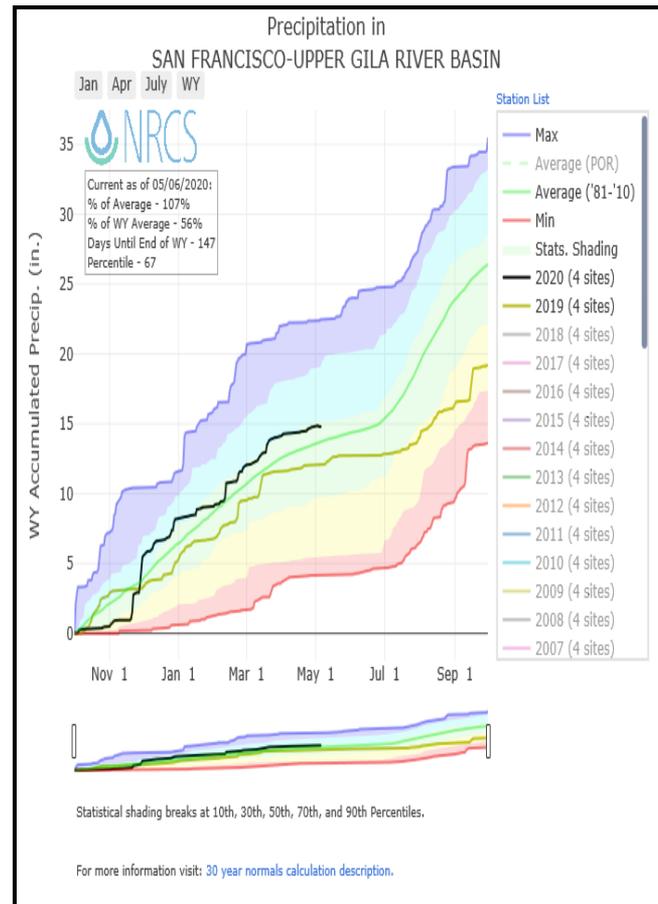
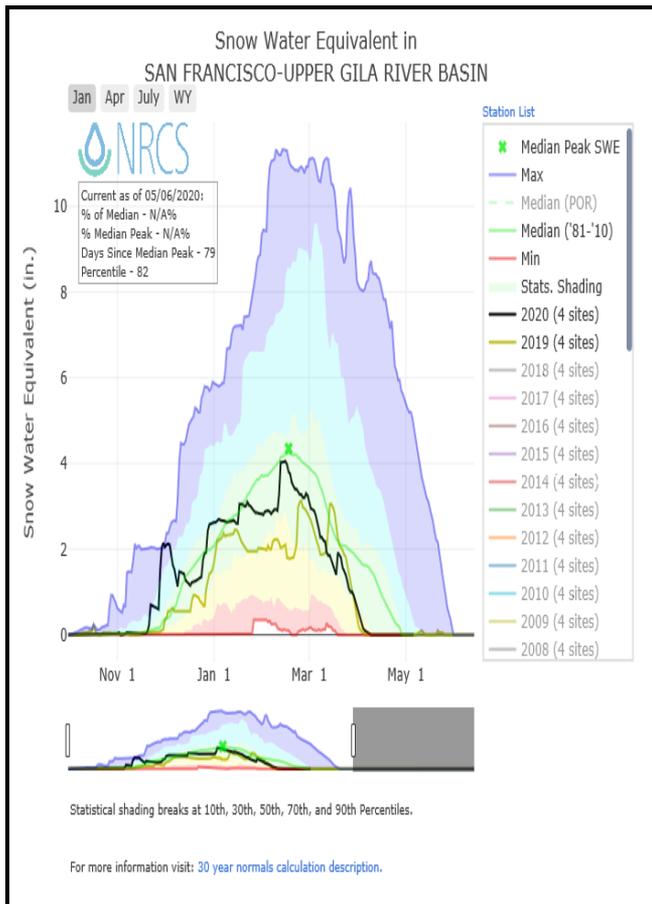
Watershed Snowpack Analysis	# of Sites	% Median	Last Year
May 1, 2020			% Median
<u>MIMBRES RIVER BASIN</u>	<u>2</u>		

San Francisco / Upper Gila River Basin Water Supply Outlook Report as of May 1, 2020



Water year-to-date precipitation is now at 110 percent of the average after receiving 71 percent of the average monthly precipitation! Snowpack in the basin has melted out. There are currently no May forecasts for the San Francisco and Upper Gila River Basins at this time.

Due to budget and contracting issues, the aerial markers at Hummingbird Saddle and Whitewater Baldy are not currently being measured. Plans are in effect to automate these sites with depth sensors which will transmit out data daily as soon as possible.

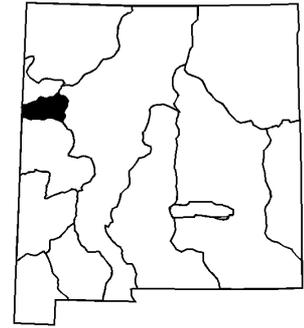


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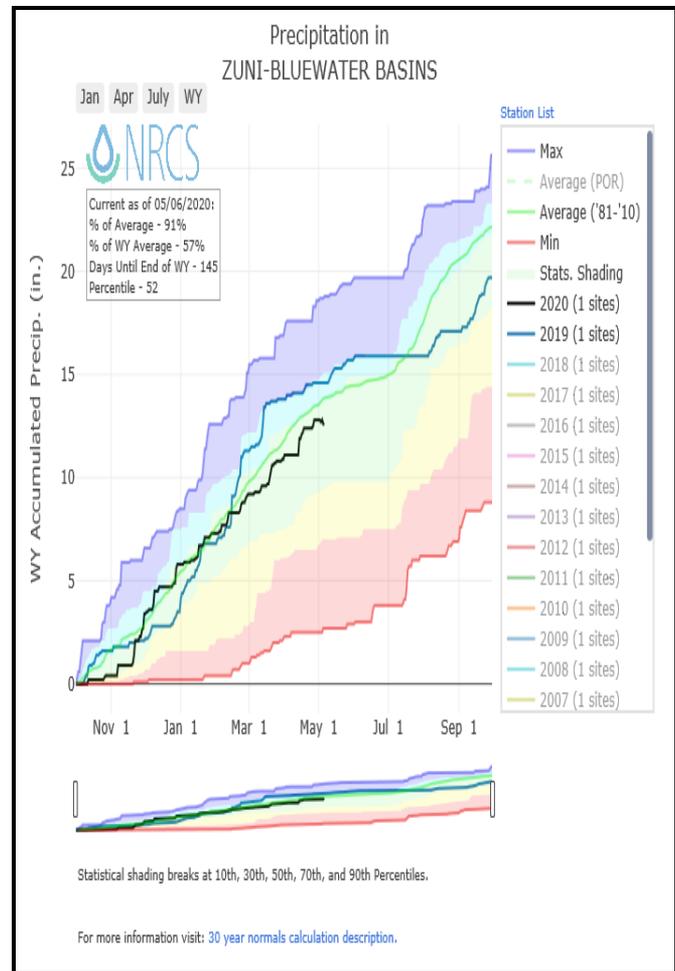
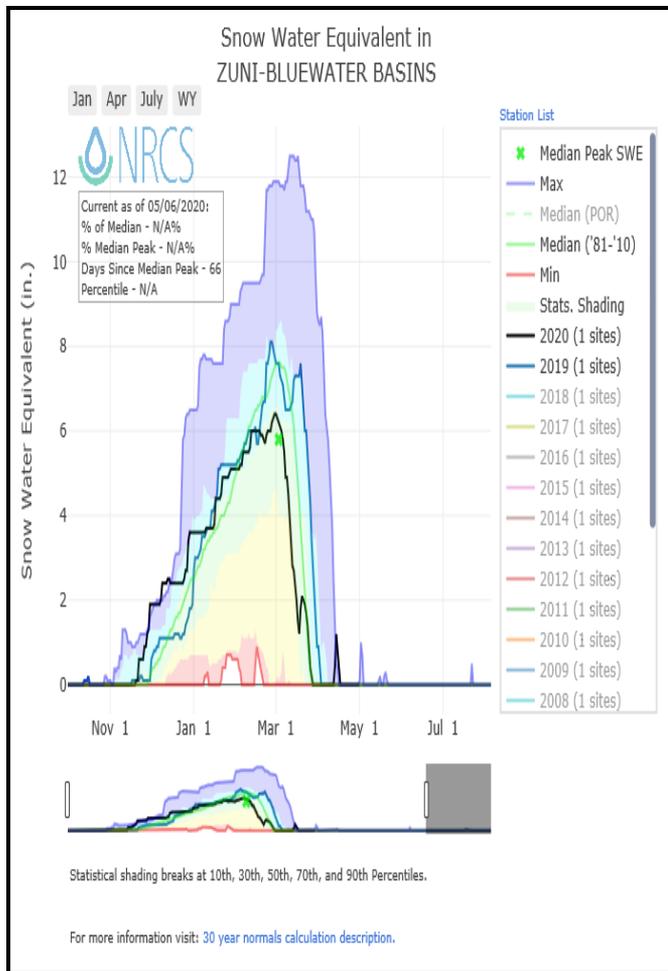
San Francisco-Upper Gila River Basin - May 1, 2020

Watershed Snowpack Analysis May 1, 2020	# of Sites	% Median	Last Year % Median
SAN FRANCISCO-UPPER GILA RIVER BASIN	4		

Zuni / Bluewater Basins Water Supply Outlook Report as of May 1, 2020



Snowpack in the basin has melted out at this time. April received 94 percent of the average monthly precipitation. This puts the water year-to-date total at 94 percent of the average. There are currently no May forecasts for the Rio Nutriah and Zuni River Basins at this time. Bluewater Lake is currently at 6,700 acre-feet of water versus 11,700 acre-feet at this time last year.



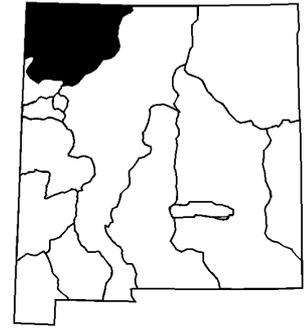
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Zuni-Bluewater Basins - May 1, 2020

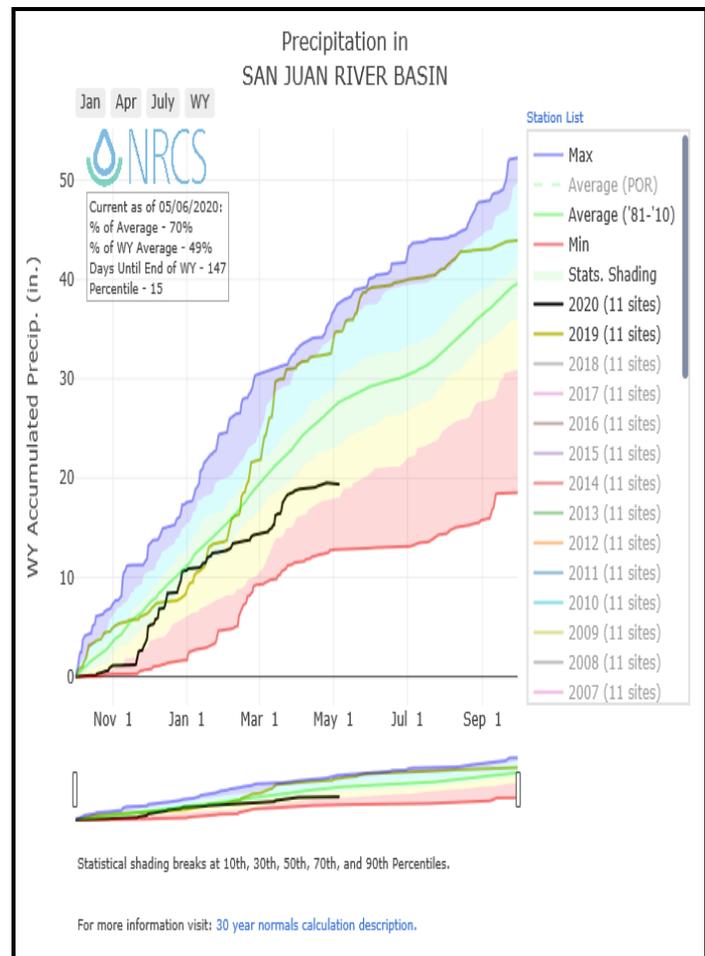
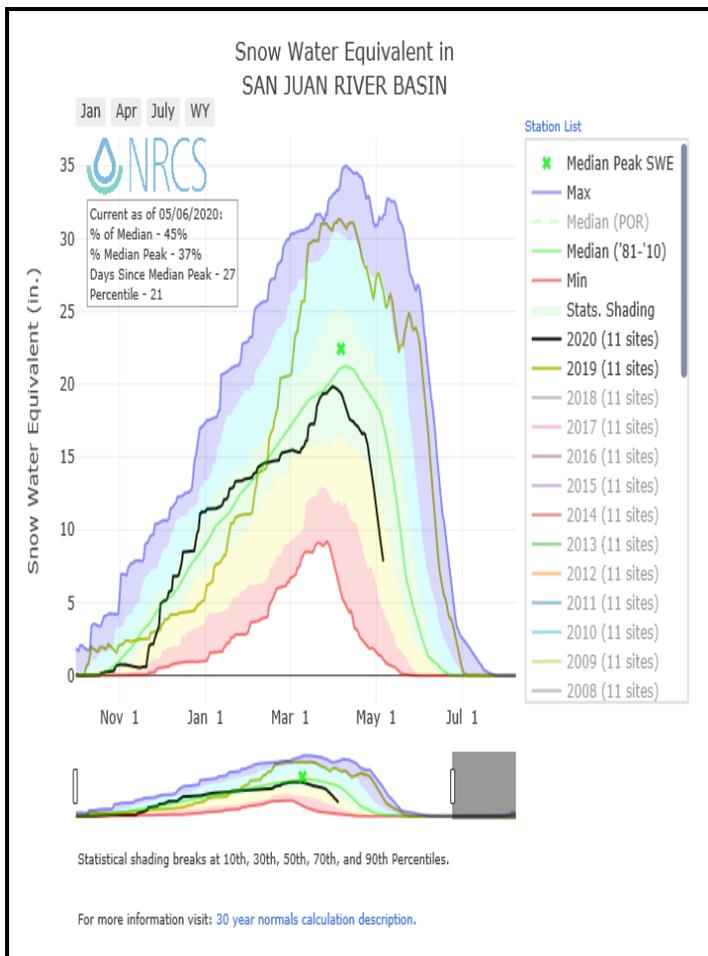
Reservoir Storage End of April, 2020	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Bluewater Lake	6.7	11.7	11.1	38.5
Basin-wide Total	6.7	11.7	11.1	38.5
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis May 1, 2020	# of Sites	% Median	Last Year % Median
ZUNI-BLUEWATER BASINS	1		

San Juan River Basin Water Supply Outlook Report as of May 1, 2020



April received only 19 percent of the average monthly precipitation bringing the water year-to-date total to 72 percent of the average. Snowpack is well below the median at 62 percent, which is also below the 147 percent at this time last year! Forecasts for the San Juan Basin are all below average ranging from 63 to 46 percent of average. Navajo reservoir storage contains 1,296,800 acre-feet or 95 percent of the average water stored at the end of April!



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**San Juan River Basin
Streamflow Forecasts - May 1, 2020**

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

SAN JUAN RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Rio Blanco at Blanco Diversion ²	APR-JUL	21	25	28	52%	31	35	54
	MAY-JUL	14.7	18.3	21	47%	24	28	45
Navajo R at Oso Diversion ²	APR-JUL	24	29	32	49%	36	41	65
	MAY-JUL	17.3	22	25	46%	29	34	54
Navajo Reservoir Inflow ²	APR-JUL	270	315	345	47%	380	435	735
	MAY-JUL	190	235	265	47%	300	355	565
Animas R at Durango	APR-JUL	210	235	255	61%	275	305	415
	MAY-JUL	184	210	230	63%	250	280	365
La Plata R at Hesperus	APR-JUL	10	11.4	12.4	54%	13.5	15.1	23
	MAY-JUL	7.6	9	10	55%	11.1	12.7	18.2

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

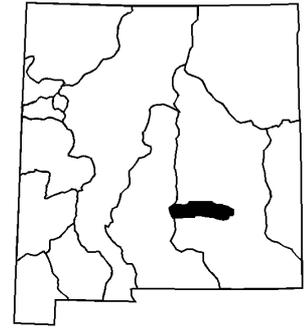
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

3) Median value used in place of average

Reservoir Storage End of April, 2020	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Navajo Reservoir	1296.8	1116.7	1361.0	1696.0
Basin-wide Total	1296.8	1116.7	1361.0	1696.0
# of reservoirs	1	1	1	1

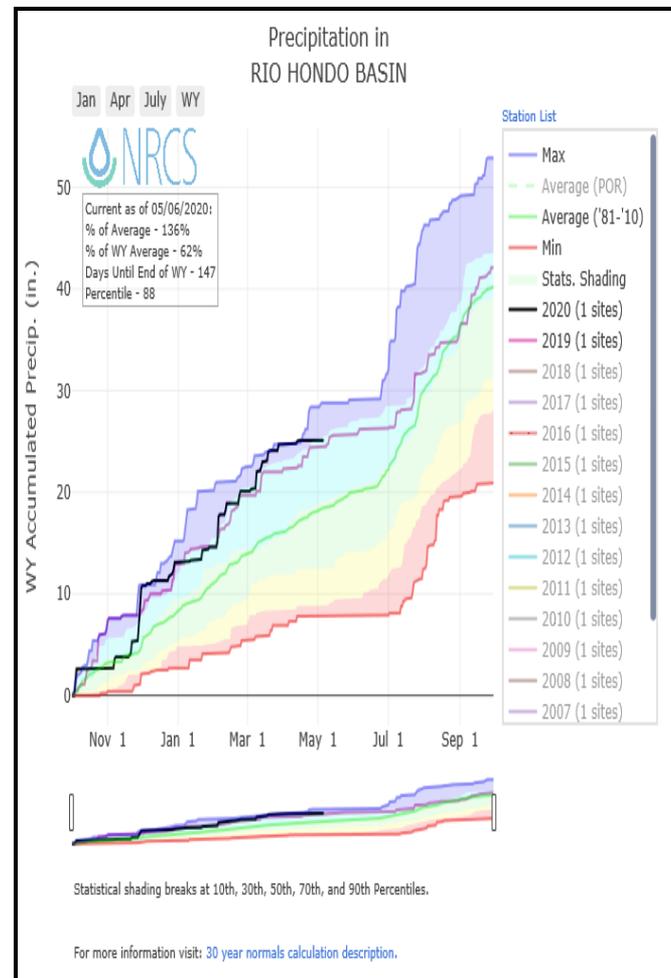
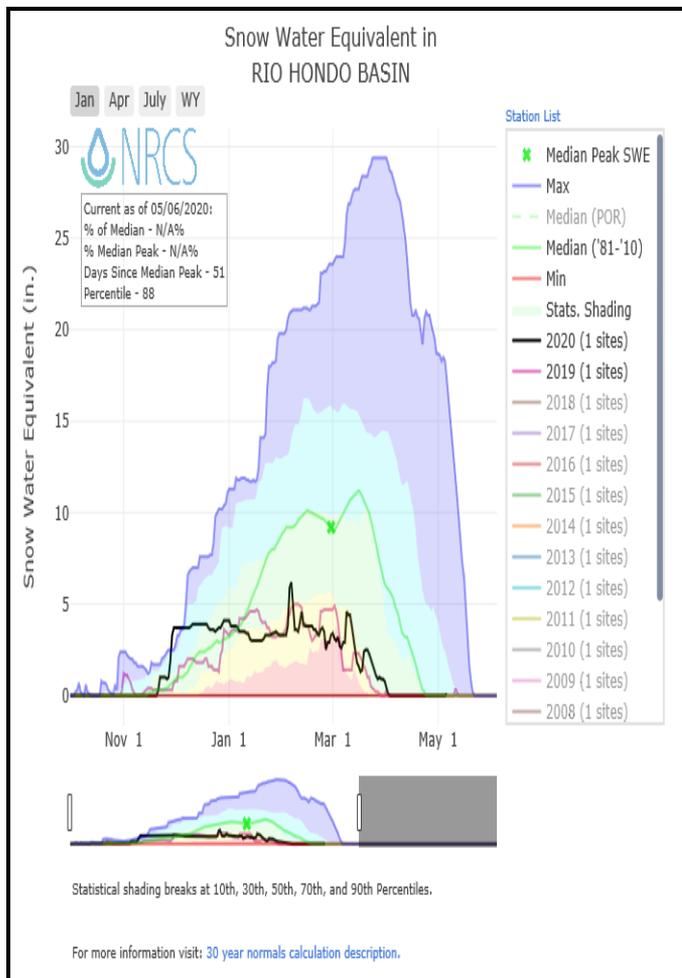
Watershed Snowpack Analysis May 1, 2020	# of Sites	% Median	Last Year % Median
SAN JUAN RIVER BASIN	11	62%	147%

Rio Hondo Basin Water Supply Outlook Report as of May 1, 2020



April was not a good month for the Rio Hondo having received only 14 percent of the average monthly precipitation! This now puts the water year-to-date total at 138 percent of the average. There are currently no May forecasts for the Rio Hondo River Basin at this time. Snowpack in the basin has melted out, however this measurement should be used with caution as the Sierra Blanca SNOTEL site was impacted by the Little Bear Fire five years ago.

It should be noted that the switch to using median snowpack values four years ago has had a significant influence on the “average” calculations for the Rio Hondo Basin. Using the old system of computing averages based on the 1971-2000 period, 6.7 inches of SWE was considered normal for January 1. Using the new median calculations based on the 1981-2010 period, 3.2 inches of SWE is now normal. For this reason, comparisons of “percent of average” from year to year will be limited in this basin to minimize confusion.



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**Rio Hondo Basin
Streamflow Forecasts - May 1, 2020**

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

RIO HONDO BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Rio Ruidoso at Hollywood	MAR-JUN	6.2	7	7.6	113%	8.3	9.6	6.7
	MAY-JUN	1.17	1.95	2.6	93%	3.3	4.6	2.8

- 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
- 3) Median value used in place of average

Watershed Snowpack Analysis May 1, 2020	# of Sites	% Median	Last Year % Median
RIO HONDO BASIN	1		

NEW MEXICO STATEWIDE	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Alamitos	SC	9320						
Aztec #2	SC	9880						
Bateman	SNOTEL	9300	0	0.0	4.6	0%	2.0	43%
Boon	SC	8140					0.0	
Bowl Canyon	SC	8980						
Chamita	SNOTEL	8400	0	0.0	0.0		0.0	
Dan Valley	SC	7640					0.0	
Elk Cabin	SNOTEL	8210	0	0.0	0.0		0.0	
Frisco Divide	SNOTEL	8000	0	0.0	0.0		0.0	
Gallegos Peak	SNOTEL	9800	0	0.0	1.5	0%	0.0	0%
Hematite Park	SC	9500						
Hidden Valley	SC	8480						
Hopewell	SNOTEL	10000	6	3.0	14.0	21%	12.4	89%
Lookout Mountain	SNOTEL	8500	0	0.0	0.0		0.0	
Mogaffey	SC	8120					0.0	
Moknight Cabin	SNOTEL	9240	0	0.0	0.0		0.0	
Missionary Spring	SC	7940						
Navajo Whiskey Ck	SNOTEL	9050	0	0.0			0.0	
North Costilla	SNOTEL	10600	0	0.0	0.5	0%	4.0	800%
Ojo Redondo	SC	8200						
Palo	SNOTEL	9350	0	0.0			0.0	
Palo	SC	9300						
PanchueLa	SC	8400						
Quemazon	SNOTEL	9500	0	0.0	0.0		0.0	
Red River Pass #2	SNOTEL	9850	0	0.0	0.0		0.0	
Rice Park	SNOTEL	8460	0	0.0	0.0		0.0	
Rio En Medio	SC	10300			4.2			
Rio Santa Barbara	SNOTEL	10864	6	2.8			11.1	
San Antonio Sink	SNOTEL	9100	0	0.0			0.0	
San Antonio Sink	SC	9200			1.2		0.6	50%
Santa Fe	SNOTEL	11445	28	10.0	17.5	57%	16.9	97%
Senorita Divide #2	SNOTEL	8600	0	0.0	0.0		0.0	
Shuree	SNOTEL	10100	0	0.0			0.0	
Shuree	SC	10097						
Sierra Blanca	SNOTEL	10280	0	0.0	0.0		0.0	
Signal Peak	SNOTEL	8360	0	0.0	0.0		0.0	
Silver Creek Divide	SNOTEL	9000	0	0.0	0.0		0.0	
State Line	SC	8000						
Taos Canyon	SC	9100						
Taos Powderhorn	SNOTEL	11057	52	20.3			27.2	
Taos Powderhorn	SC	11250			26.8		28.2	105%
Tolby	SNOTEL	10180	0	0.0	0.0		1.5	
Tres Ritos	SNOTEL	8600	0	0.0			0.0	
Tres Ritos	SC	8600						
Vacas Locas	SNOTEL	9306	0	0.0	0.0		0.0	
Wesner Springs	SNOTEL	11120	17	6.4	11.6	55%	15.8	136%
Whiskey Creek	SC	9050						
	Basin Index					39%		106%
	# of sites					20		20

Issued by:

Matt Lohr
Chief
Natural Resources Conservation Service
U.S. Department of Agriculture

Released by:

J. Xavier Montoya
State Conservationist
Natural Resources Conservation Service
Albuquerque, New Mexico

Report Created by:

Chris Romero
Natural Resources Conservation Service
Water Supply Specialist
Albuquerque, NM



100 Sun Ave. NE, Suite 602
Albuquerque, NM 87109



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Basin Outlook Report
Natural Resources Conservation Service
Albuquerque, New Mexico

