

# Colorado Basin Outlook Report May 1, 2009



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

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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.

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# COLORADO

## WATER SUPPLY OUTLOOK REPORT

### MAY 1, 2009

#### Summary

After two consecutive dry months, April brought above average moisture to most of Colorado. Most of April's precipitation occurred as snow, which briefly brought snowpack totals to above average levels nearly statewide at mid-month. Warmer and dryer conditions during late April resulted in decreases in snowpack percentages to below average by May 1. Reservoir storage remains in good condition across most of the state with above average storage volumes in most basins. With the increases in snowpack and precipitation during April, runoff forecasts improved slightly at some locations. The overall water supply outlook this month is slightly better than just a month ago.

#### Snowpack

The wet weather pattern that started in late March continued into late April with impressive improvements to snowpack percentages. By April 19 most basins had reached their maximum snowpack totals for the season, which were above average in all basins except for the San Juan, Animas, Dolores and San Miguel. The mid-month peak accumulations as a percent of the average peak accumulations ranged from 93% of average in the combined southwestern basins, to a high of 117% of average in the Colorado basin. For the state, this year's peak accumulation was 109% of the average peak and occurred on April 19, according to SNOTEL data. This statewide maximum total was reached only about one week later than the average date of peak snow water equivalent. With the numerous dust storm events which have deposited dust layers on the snowpack the melt rates have increased significantly. By May 1 the basinwide snow water equivalent had decreased to below average levels in all basins except the South Platte, which was still reporting 100% of average. Statewide totals on May 1 had decreased to 90% of average, and were only 78% of last year's May 1 snowpack totals. While it's still possible to add to the state's snowpack, the most likely scenario is for only brief and small additions, with the added impact of just temporarily slowing the melt for a few days. Given the widespread extent of dust coverage, along with the numerous layers buried in the snowpack, it will be interesting to see how rapidly the melt occurs this spring.

#### Precipitation

April's precipitation, measured by the SNOTEL network, was above average across most of Colorado. The only exception was the combined San Juan, Animas, Dolores and San Miguel basins which recorded an average total for the April. The highest percent of average for the month was reported in the Rio Grande basin, at 137%. Statewide precipitation was 114% of average for April and was 140% of last year's April totals. April was only the third month of above average statewide precipitation recorded this water year (which began on October 1, 2008). The relatively wet month increased the water year totals to 101% of average. These totals remain at only 90% of last year's totals at this same date. At this time, average to above average water year precipitation totals are reported in all basins except the Arkansas (at 99% of average) and the combined San Juan, Animas, Dolores and San Miguel (at 96% of average).

## Reservoir Storage

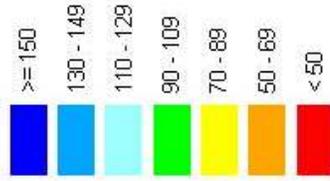
April brought increased reservoir storage to most basins in Colorado. The only exceptions were the Colorado and Arkansas basins, which saw storage volumes decrease slightly during the month. The largest increase in storage was reported in the combined San Juan, Animas and Dolores basins which added 61,000 acre feet to storage during April. This could be attributed to early snowmelt along with conservative reservoir operations in expectation to lower inflows this year. Statewide, storage improved by 140,000 acre feet. As a percent of average, statewide volumes improved from 103% of average on April 1 to 106% of average on May 1. These May 1 volumes are 112% of last year's storage on this same date. The Gunnison basin continues to report the highest percent of average storage at 130% this month. Meanwhile, the lowest percent of average storage was reported in the Rio Grande at 90%. The only other basins reporting below average volumes are the Arkansas (at 94% of average) and the Colorado (at 99% of average). The statewide storage volumes are the greatest since August 2007, and are already greater than at any time during the 2008 water year.

## Streamflow

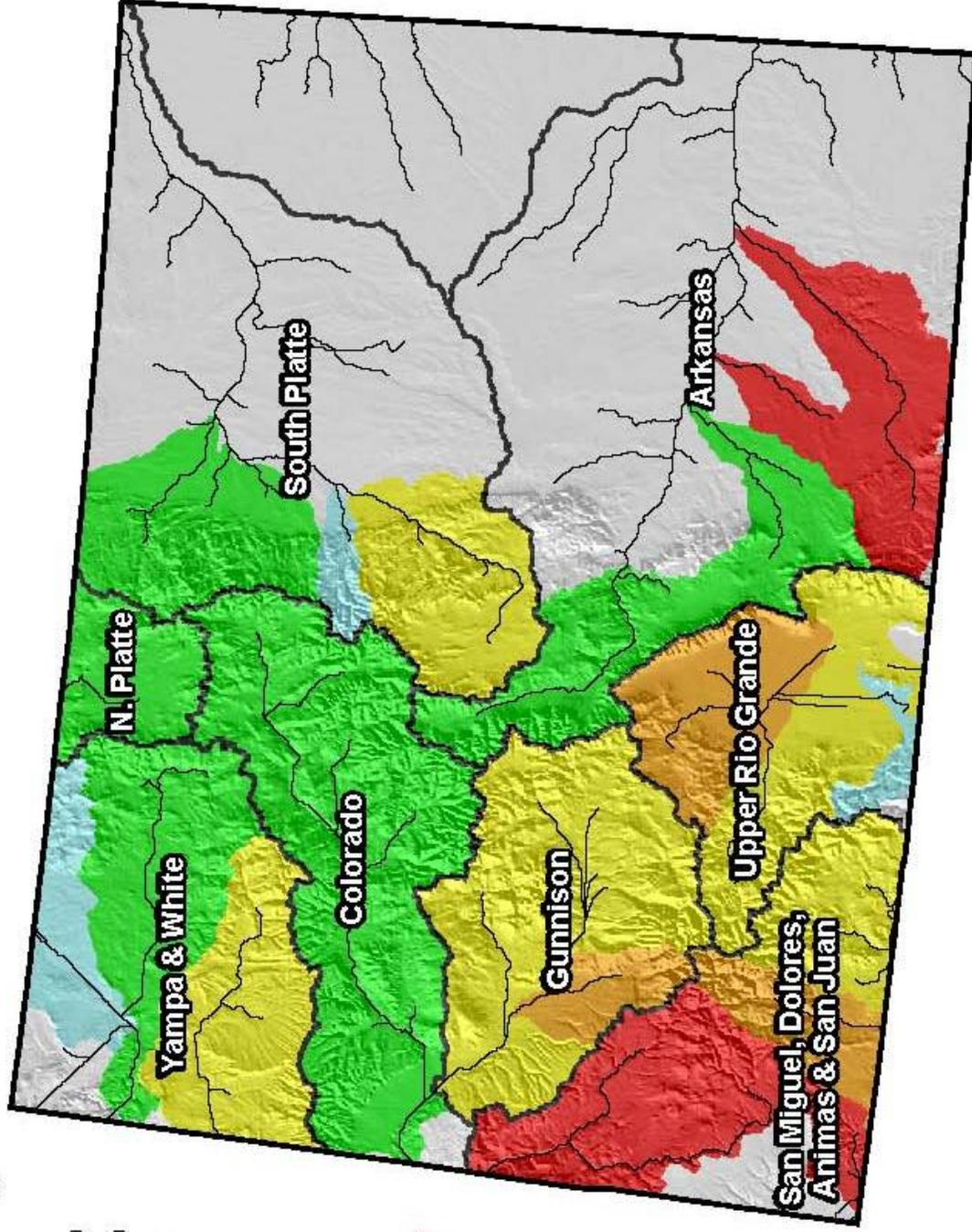
Runoff forecasts changed only slightly during April at most locations across Colorado. The only basins significantly benefiting from April's storms were those along the northern portion of the Front Range. Despite these improvements, runoff forecasts in the South Platte basin remain below average. Even those basins in the South Platte showing the greatest increases ended up slightly below average. Elsewhere across the state, the additional moisture received during April produced no significant improvements, allowing forecasts to remain close to those issued on April 1 at many locations. Currently, the state's best prospects for runoff occur in the Yampa and Colorado basins where forecasts remain at 100% to 110% of average at most forecast points. Forecasts of slightly below average volumes (90% to 100% of average), are prevalent across the Gunnison, Rio Grande, main stem of the Arkansas, and the northern Front Range tributaries to the South Platte River. Those basins with below average forecasts continue to include the San Juan, Animas, Dolores, San Miguel, southern Arkansas River tributaries, and South Platte headwaters.

# Colorado Snowpack Map

Percent of Average



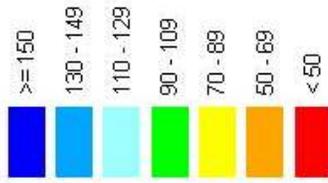
*Provisional Data  
Subject to Revision*



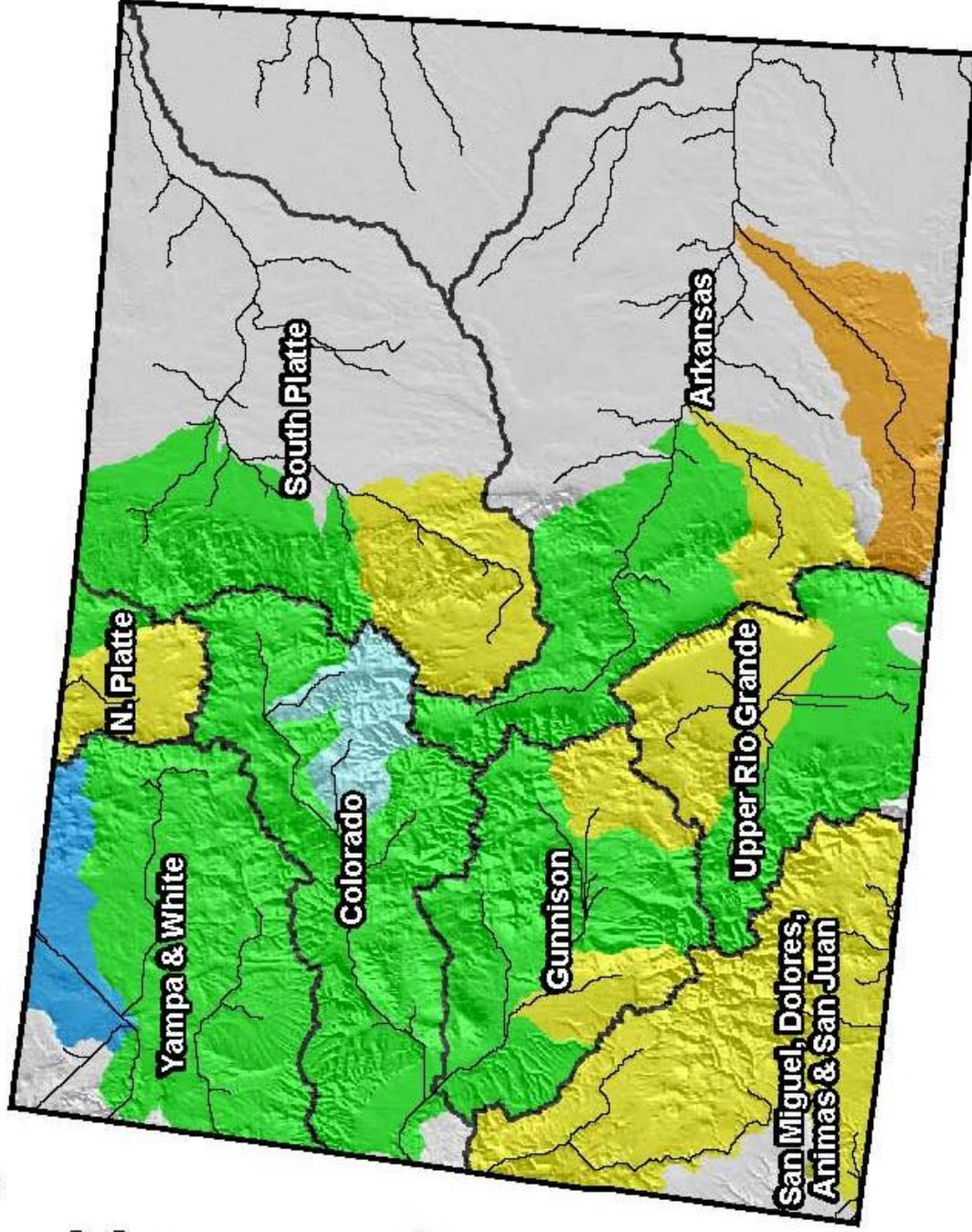
Current as of May 1, 2009

# Colorado Streamflow Forecast Map

Percent of Average



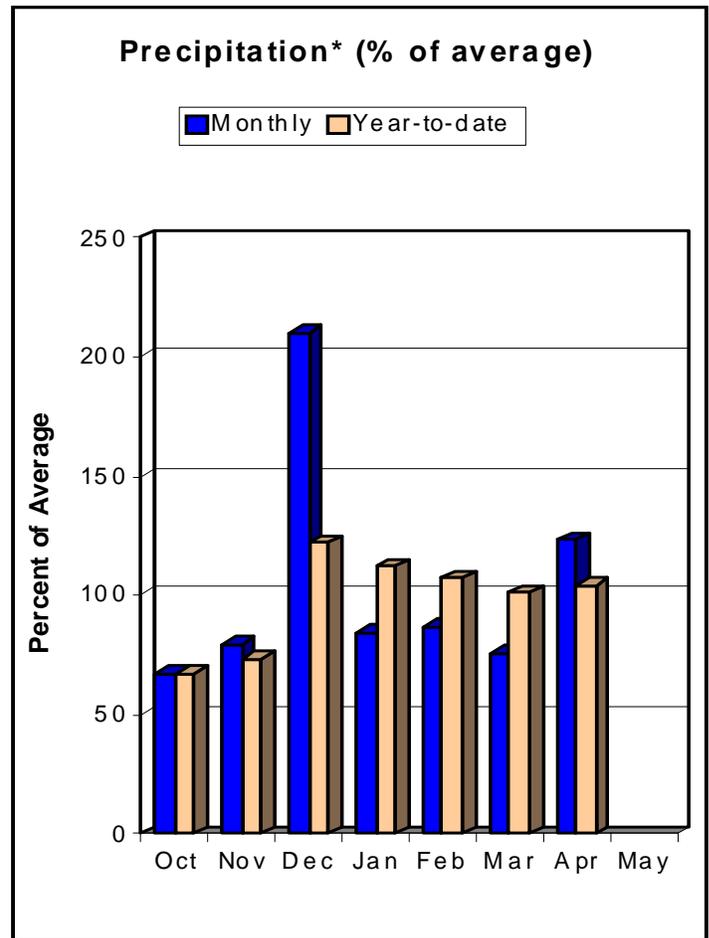
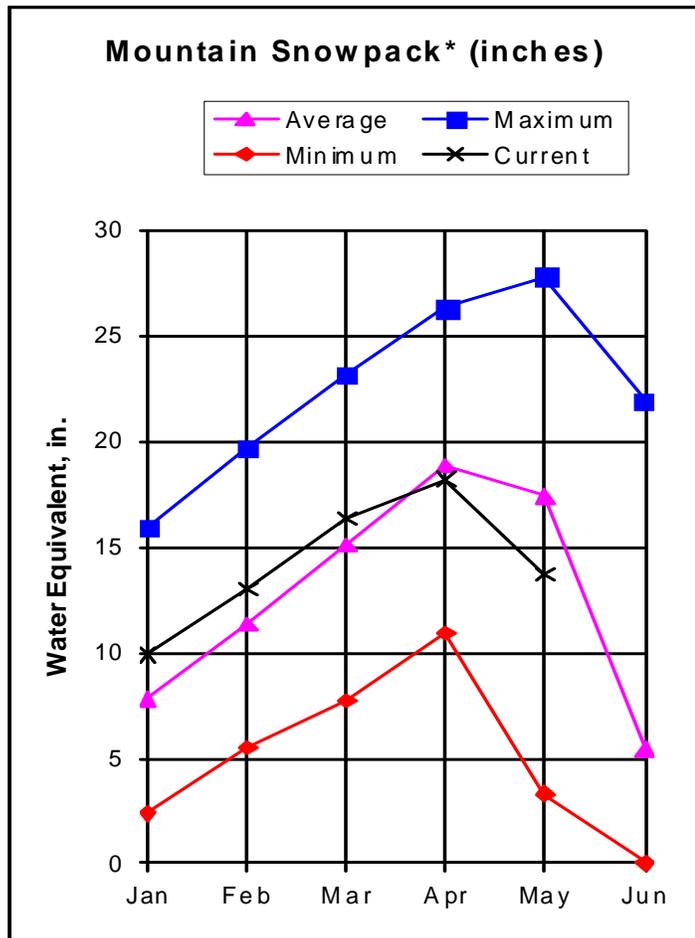
*Provisional Data  
Subject to Revision*



Current as of May 1, 2009

# GUNNISON RIVER BASIN

## as of May 1, 2009



\*Based on selected stations

Normally, the Gunnison River Basin accumulates 0.7 inches of snow water content during April before reaching its peak, based on SNOTEL data. This year the basin snow water content increased by 2.5 inches. A far cry from the declining snowpack percentages the basin had seen the past three months. Basin snowpacks reached their peak on April 19 at 110 percent of the average peak snowpack. Unfortunately, since that time, snowmelt has kicked into high gear and May 1 snow surveys show the basin snowpacks are currently only 79 percent of average, considerably less than the 136 percent of average snowpacks present just one year ago. Sub-basin snowpacks are below average to well below average ranging from a mere 63 percent of average in the Uncompahgre Watershed to 83 percent of average in the Upper Gunnison Drainage. April precipitation at the higher elevations was 123 percent of average. Monthly totals helped boost the water year precipitation totals to 104 percent of average. Reservoir storage is 130 percent of average and 131 percent of the stored water available at this time last year. Forecasts remain mostly unchanged from those issued last month, however, with the increased melt during the last half of April, water users should expect near average to below average flows from now through July. May-July runoff should range from 69 percent of average for Tomichi Creek at Gunnison to 99 percent of average for the Slate River near Crested Butte, East River at Almont and Gunnison River near Gunnison.

GUNNISON RIVER BASIN  
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90%		70%		50%			30%		10%	
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)		(1000AF)	(1000AF)	(1000AF)	(1000AF)
Taylor Park blw Taylor Park Res (2)	APR-JUL	80	92	100	97	109	122	103				
	MAY-JUL	69	81	89	94	98	111	95				
Slate River nr Crested Butte	APR-JUL	84	90	94	106	98	105	89				
	MAY-JUL	70	75	79	99	83	89	80				
East River at Almont	APR-JUL	171	188	200	104	215	235	192				
	MAY-JUL	147	164	176	99	189	210	178				
Gunnison River nr Gunnison (2)	APR-JUL	320	365	400	103	435	490	390				
	MAY-JUL	270	315	350	99	385	440	355				
Tomichi Creek at Sargents	APR-JUL	19.8	24	28	88	32	38	32				
	MAY-JUL	16.4	21	24	86	28	34	28				
Cochetopa Creek blw Rock Ck nr Parli	APR-JUL	7.4	9.9	12.0	69	14.3	18.4	17.3				
	MAY-JUL	5.5	8.0	10.0	76	12.4	16.5	13.1				
Tomichi Creek at Gunnison	APR-JUL	40	51	60	74	71	89	81				
	MAY-JUL	27	38	47	69	58	76	68				
Lake Fork at Gateview	APR-JUL	88	98	105	83	113	124	126				
	MAY-JUL	77	87	94	79	102	113	119				
Blue Mesa Reservoir Inflow (2)	APR-JUL	555	635	690	96	750	845	720				
	MAY-JUL	450	530	585	91	645	740	645				
Paonia Reservoir Inflow	MAR-JUN	77	90	100	100	111	130	100				
	MAY-JUN	44	57	67	89	78	97	75				
	APR-JUL	75	90	102	100	114	135	102				
	MAY-JUL	49	64	75	92	88	109	82				
North Fork Gunnison R nr Somerset (2)	APR-JUL	265	295	320	105	345	385	305				
	MAY-JUL	199	230	255	98	280	320	260				
Surface Creek at Cedaredge	APR-JUL	11.5	13.5	15.0	88	16.6	19.4	17.1				
	MAY-JUL	8.7	10.7	12.2	82	13.8	16.6	14.9				
Ridgway Reservoir Inflow	APR-JUL	71	82	90	88	99	113	102				
	MAY-JUL	58	69	77	84	86	100	92				
Uncompahgre River at Colona (2)	APR-JUL	90	107	120	86	134	158	139				
	MAY-JUL	72	89	102	83	116	140	123				
Gunnison River nr Grand Junction (2)	APR-JUL	1240	1360	1500	96	1640	1790	1560				
	MAY-JUL	970	1090	1230	92	1370	1520	1340				

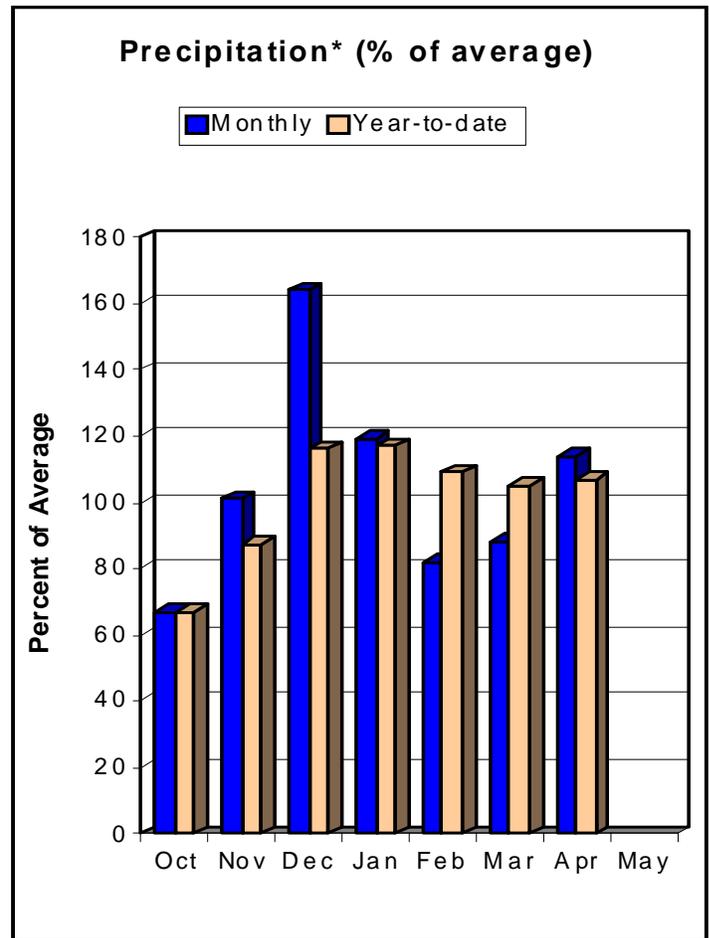
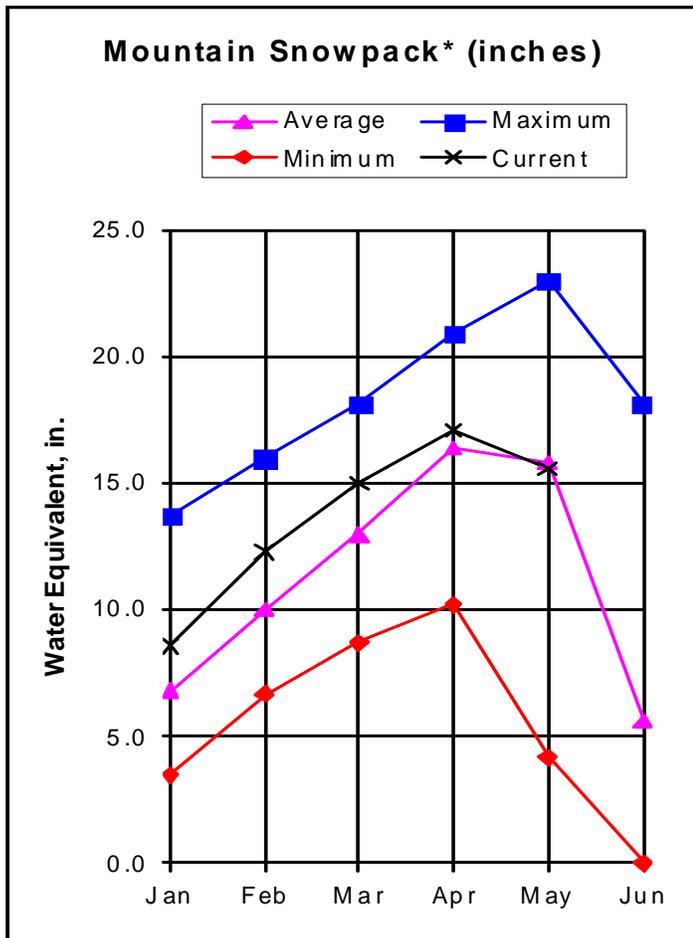
GUNNISON RIVER BASIN Reservoir Storage (1000 AF) - End of April					GUNNISON RIVER BASIN Watershed Snowpack Analysis - May 1, 2009			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BLUE MESA	830.0	579.7	410.7	404.7	UPPER GUNNISON BASIN	15	59	83
CRAWFORD	14.0	13.5	12.6	12.1	SURFACE CREEK BASIN	3	71	82
FRUITGROWERS	3.6	3.3	3.9	4.1	UNCOMPAHGRE BASIN	4	54	63
FRUITLAND	9.2	6.6	7.1	4.9	TOTAL GUNNISON RIVER BASIN	19	58	79
MORROW POINT	121.0	112.6	108.9	113.4				
PAONIA	15.4	0.8	0.8	7.4				
RIDGWAY	83.0	72.5	52.8	57.9				
TAYLOR PARK	106.0	76.9	63.1	59.9				

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

# UPPER COLORADO RIVER BASIN as of May 1, 2009



\*Based on selected stations

Upper Colorado River Basin snowpacks saw a slight decline, in terms of percentages, from last month dropping from 104 percent of average on April 1 to 99 percent of average on May 1. Although slightly below average, this month's snowpack percentage is the third highest May 1 figure since 1997 (tied with 1998). The good news is that this year's peak snowpack, which occurred on April 19, was 117 percent of the average peak snowpack. SNOTEL data indicates the basin usually picks up about half an inch of snow water content during April, but this year the basin saw an increase of 2.2 inches. Snowpacks in the sub-basins range from a low of 79 percent of average in the Willow Creek Watershed to a high of 112 percent of average in the Williams Fork Drainage. Mountain precipitation during April was 114 percent of average. This helped bump up the water year totals from 105 percent of average last month to 107 percent of average at this time, but this year's total precipitation is only 88 percent of the total reported at this time last year. Reservoir storage is 99 percent of average and 102 percent of the storage available a year ago. Most forecasts saw very little change, if any, to those issued last month. Water users can expect near average streamflows during the May-July forecast period throughout most of the basin. Runoff volumes during that period should range from 94 percent of average for the Willow Creek Reservoir Inflow and Muddy Creek below Wolford Mountain Reservoir to 109 percent of average for the Inflow to Green Mountain Reservoir.

UPPER COLORADO RIVER BASIN  
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<==== Drier ==== Future Conditions ==== Wetter =====>>						30-Yr Avg. (1000AF)				
		90%		70%		50%			30%		10%	
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)		(1000AF)	(1000AF)	(1000AF)	(1000AF)
Lake Granby Inflow (2)	APR-JUL	192	215	230	102	245	270	225				
	MAY-JUL	175	197	215	100	230	255	215				
Willow Creek Reservoir Inflow	APR-JUL	42	48	52	102	57	64	51				
	MAY-JUL	34	40	44	94	49	56	47				
Williams Fork Reservoir Inflow (2)	APR-JUL	87	96	103	108	110	121	95				
	MAY-JUL	78	87	94	106	101	112	89				
Dillon Reservoir Inflow (2)	APR-JUL	153	169	180	108	192	210	167				
	MAY-JUL	143	159	170	108	182	200	158				
Green Mountain Reservoir Inflow (2)	APR-JUL	260	290	310	111	330	365	280				
	MAY-JUL	240	270	290	109	310	345	265				
Muddy Creek blw Wolford Mtn Resv (2)	APR-JUL	47	53	58	97	63	72	60				
	MAY-JUL	38	44	49	94	54	63	52				
Eagle River blw Gypsum (2)	APR-JUL	300	340	370	110	400	450	335				
	MAY-JUL	270	310	340	108	370	420	315				
Colorado River nr Dotsero (2)	APR-JUL	1310	1440	1570	109	1700	1860	1440				
	MAY-JUL	1150	1290	1410	106	1540	1700	1325				
Ruedi Reservoir Inflow (2)	APR-JUL	114	132	145	103	159	182	141				
	MAY-JUL	104	122	135	101	149	172	134				
Roaring Fork at Glenwood Springs (2)	APR-JUL	630	700	750	106	805	890	710				
	MAY-JUL	565	635	685	103	740	825	665				
Colorado River nr Cameo (2)	APR-JUL	2200	2410	2600	107	2790	3050	2420				
	MAY-JUL	1950	2160	2350	106	2540	2800	2220				

UPPER COLORADO RIVER BASIN Reservoir Storage (1000 AF) - End of April					UPPER COLORADO RIVER BASIN Watershed Snowpack Analysis - May 1, 2009			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
DILLON	254.0	225.8	222.2	212.8	BLUE RIVER BASIN	9	94	107
LAKE GRANBY	465.6	209.6	192.5	259.5	UPPER COLORADO RIVER BASI	35	89	103
GREEN MOUNTAIN	146.8	65.4	57.9	54.3	MUDDY CREEK BASIN	3	79	100
HOMESTAKE	43.0	0.0	25.7	16.8	PLATEAU CREEK BASIN	3	71	82
RUEDI	102.0	68.5	55.9	59.7	ROARING FORK BASIN	8	64	93
VEGA	32.9	19.8	20.0	16.6	WILLIAMS FORK BASIN	4	92	112
WILLIAMS FORK	97.0	79.6	81.2	55.3	WILLOW CREEK BASIN	3	59	79
WILLOW CREEK	9.1	6.7	6.3	5.9	TOTAL COLORADO RIVER BASI	46	82	99

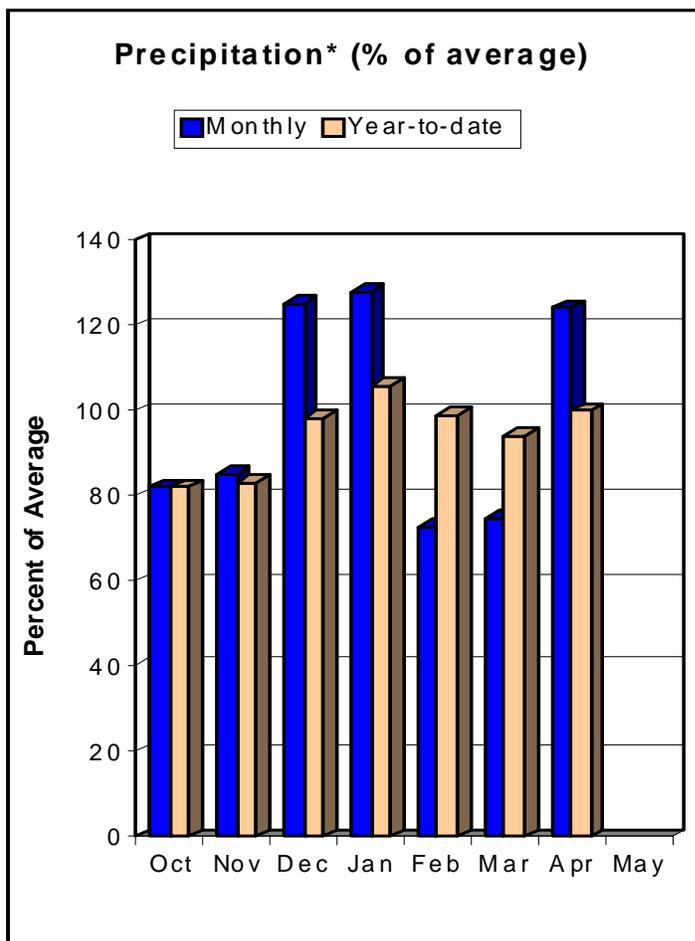
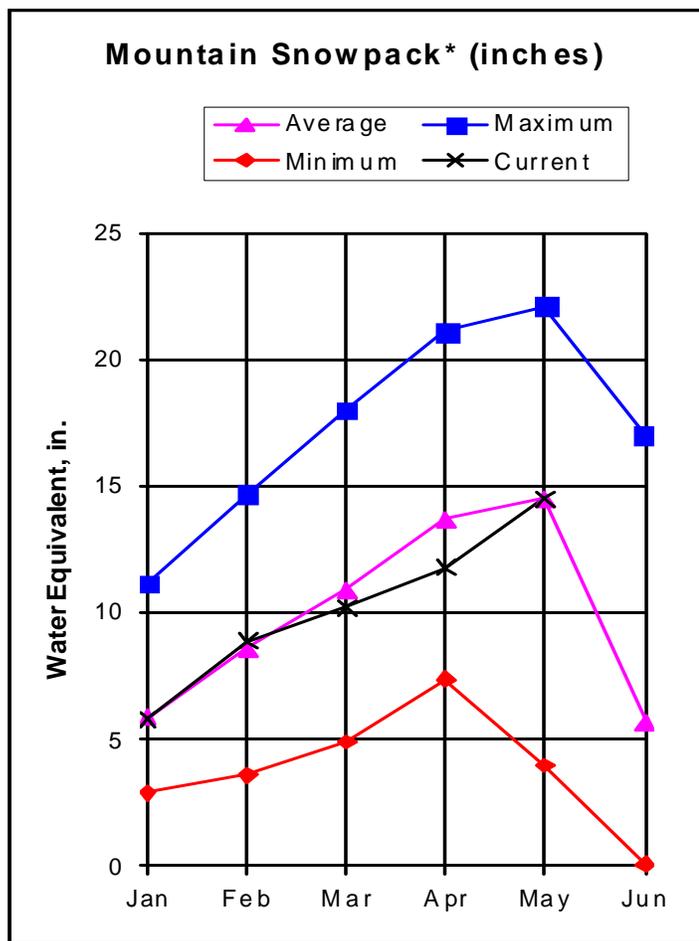
\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

# SOUTH PLATTE RIVER BASIN

## as of May 1, 2009



\*Based on selected stations

At 100 percent of average on May 1, up considerably from the April 1 measurement of 86 percent of average, the South Platte River Basin snowpack percentage is the highest of the major basins in the state. SNOTEL data indicates spring storms dumped the equivalent of 4.2 inches of water in the form of snow during April. That is almost four times what the basin usually picks up during the month. The peak snowpack, which was reached on April 20, was 11 percent higher than the average peak snowpack. Sub-basin snowpack conditions tend to favor the northern portion of the watershed, ranging from 83 percent of average in Upper South Platte to 114 percent of average in the Boulder Creek Watershed. After two months of below average precipitation, April came back with a vengeance producing 124 percent of average mountain precipitation during the month. This allowed the precipitation totals for the water year, which began in October, to increase to 100 percent of average. Reservoir storage is 101 percent of average and 112 percent of last year's storage at this time. The northern tributaries saw a generous increase in the forecasts this month while the southern watersheds witnessed a slight decrease. May-September forecasts call for below average to well below average runoff in the southern portion of the basin, while the northern portion can expect near average water supplies. May-September streamflows should range from 60 percent of average for the Antero Reservoir Inflow to 96 percent of average for the Cache La Poudre at the Canyon Mouth.

SOUTH PLATTE RIVER BASIN  
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90%		70%		50%			30%		10%	
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)		(1000AF)	(1000AF)	(1000AF)	(1000AF)
ANTERO RESERVOIR Inflow (2)	APR-JUL	7.7	9.2	10.3	61	11.7	14.0	16.8				
	APR-SEP	9.6	11.5	13.0	60	14.6	17.5	22				
	MAY-JUL	6.9	8.4	9.5	62	10.9	13.2	15.4				
	MAY-SEP	8.8	10.7	12.2	60	13.8	16.7	20				
SPINNEY MOUNTAIN RESV Inflow (2)	APR-JUL	33	39	43	77	48	56	56				
	APR-SEP	40	47	53	77	59	69	69				
	MAY-JUL	30	36	40	78	45	53	51				
	MAY-SEP	37	44	50	78	56	66	64				
ELEVENMILE CANYON RESV Inflow (2)	APR-JUL	34	40	44	76	49	58	58				
	APR-SEP	41	49	55	76	61	73	72				
	MAY-JUL	31	37	41	77	46	55	53				
	MAY-SEP	38	46	52	78	58	70	67				
CHEESMAN LAKE Inflow (2)	APR-JUL	61	72	80	70	89	105	114				
	APR-SEP	75	88	99	71	111	132	140				
	MAY-JUL	53	64	72	71	81	97	101				
	MAY-SEP	67	80	91	72	103	124	127				
SOUTH PLATTE R at South Platte (2)	APR-JUL	116	136	152	74	170	200	205				
	APR-SEP	146	171	191	75	215	250	255				
	MAY-JUL	99	119	135	74	153	185	182				
	MAY-SEP	129	154	174	76	197	235	230				
BEAR CREEK abv Evergreen	APR-JUL	6.6	9.1	11.5	60	16.6	21	19.3				
	APR-SEP	9.1	12.9	16.4	66	21	30	25				
	MAY-JUL	5.3	7.8	10.2	59	13.3	19.8	17.3				
	MAY-SEP	7.8	11.6	15.1	66	19.7	29	23				
BEAR CREEK at Morrison	APR-JUL	7.3	10.5	13.7	55	18.1	28	25				
	APR-SEP	9.7	14.2	18.8	61	25	39	31				
	MAY-JUL	5.1	8.3	11.5	55	15.9	26	21				
	MAY-SEP	7.5	12.0	16.6	62	23	37	27				
CLEAR CREEK at Golden	APR-JUL	87	97	105	96	113	126	110				
	APR-SEP	106	117	126	94	135	150	134				
	MAY-JUL	82	92	100	95	108	121	105				
	MAY-SEP	101	112	121	95	130	145	128				
ST. VRAIN CREEK at Lyons (2)	APR-JUL	70	79	86	92	94	108	94				
	APR-SEP	83	94	102	94	111	126	109				
	MAY-JUL	65	74	81	93	89	103	87				
	MAY-SEP	78	89	97	95	106	121	102				
BOULDER CREEK nr Orodell (2)	APR-JUL	42	46	49	94	52	57	52				
	APR-SEP	48	52	56	93	60	66	60				
	MAY-JUL	39	43	46	94	49	54	49				
	MAY-SEP	45	49	53	93	57	63	57				
SOUTH BOULDER CK nr Eldorado Spgs	APR-JUL	31	36	39	95	43	49	41				
	APR-SEP	35	40	43	94	48	55	46				
	MAY-JUL	28	33	36	95	40	46	38				
	MAY-SEP	32	37	40	95	45	52	42				
BIG THOMPSON R at Canyon Mouth (2)	APR-JUL	72	82	90	91	99	113	99				
	APR-SEP	88	100	109	92	118	135	119				
	MAY-JUL	67	77	85	90	94	108	95				
	MAY-SEP	83	95	104	91	113	130	114				
CACHE LaPOUDRE at Canyon Mouth (2)	APR-JUL	186	210	230	94	250	280	245				
	APR-SEP	205	235	255	93	275	310	275				

SOUTH PLATTE RIVER BASIN Reservoir Storage (1000 AF) - End of April					SOUTH PLATTE RIVER BASIN Watershed Snowpack Analysis - May 1, 2009			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of =====	
		This Year	Last Year	Avg			Last Yr	Average
ANTERO	19.9	20.1	19.7	15.7	BIG THOMPSON BASIN	7	108	104
BARR LAKE	30.1	28.2	27.8	28.6	BOULDER CREEK BASIN	5	118	114
BLACK HOLLOW	6.5	2.1	2.1	4.2	CACHE LA POUFRE BASIN	8	96	106
BOYD LAKE	44.0	27.5	20.5	35.2	CLEAR CREEK BASIN	4	102	111
BUTTON ROCK/RALPH PRICE	16.2	13.3	12.1	13.2	SAINT VRAIN BASIN	4	113	86
CACHE LA POUFRE	10.1	10.0	7.1	8.9	UPPER SOUTH PLATTE BASIN	16	71	83
CARTER	108.9	107.5	55.6	103.0	TOTAL SOUTH PLATTE BASIN	44	97	100
CHAMBERS LAKE	8.8	2.0	1.7	3.6				
CHEESMAN	79.0	78.6	76.9	64.8				
COBB LAKE	22.3	11.9	2.8	14.2				
ELEVEN MILE	98.0	99.2	100.0	96.4				
EMPIRE	36.5	35.9	31.9	33.0				
FOSSIL CREEK	11.1	10.4	5.6	8.1				
GROSS	41.8	18.3	16.7	20.9				
HALLIGAN	6.4	4.7	2.5	4.8				
HORSECREEK	14.7	14.2	14.3	14.5				
HORSETOOTH	149.7	112.2	119.0	123.0				
JACKSON	26.1	26.1	25.3	30.4				
JULESBURG	20.5	20.5	20.3	21.3				
LAKE LOVELAND	14.0	11.7	11.2	10.1				
LONE TREE	9.0	8.9	6.9	7.9				
MARIANO	6.0	4.3	4.1	5.0				
MARSHALL	10.0	8.2	6.3	7.4				
MARSTON	13.0	10.9	5.2	14.5				
MILTON	23.5	22.4	20.9	19.2				
POINT OF ROCKS	70.6	70.3	68.7	69.8				
PREWITT	28.2	24.5	22.8	25.9				
RIVERSIDE	55.8	55.3	50.0	57.9				
SPINNEY MOUNTAIN	49.0	40.4	36.3	32.1				
STANDLEY	42.0	37.7	37.7	35.3				
TERRY LAKE	8.0	5.3	5.6	5.7				
UNION	13.0	11.2	10.5	11.7				
WINDSOR	15.2	14.6	13.3	13.6				

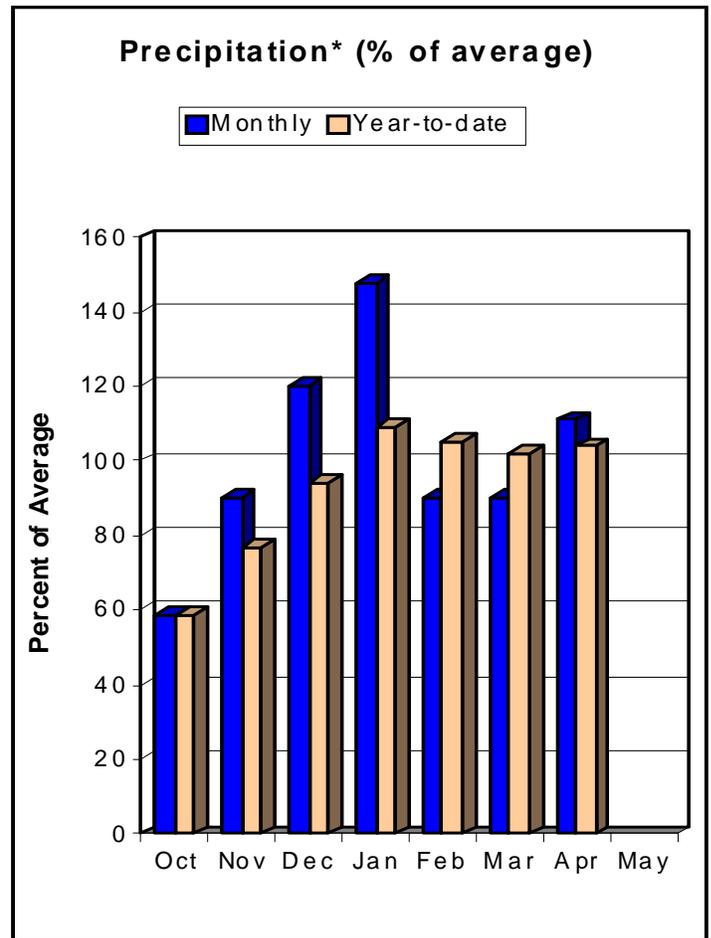
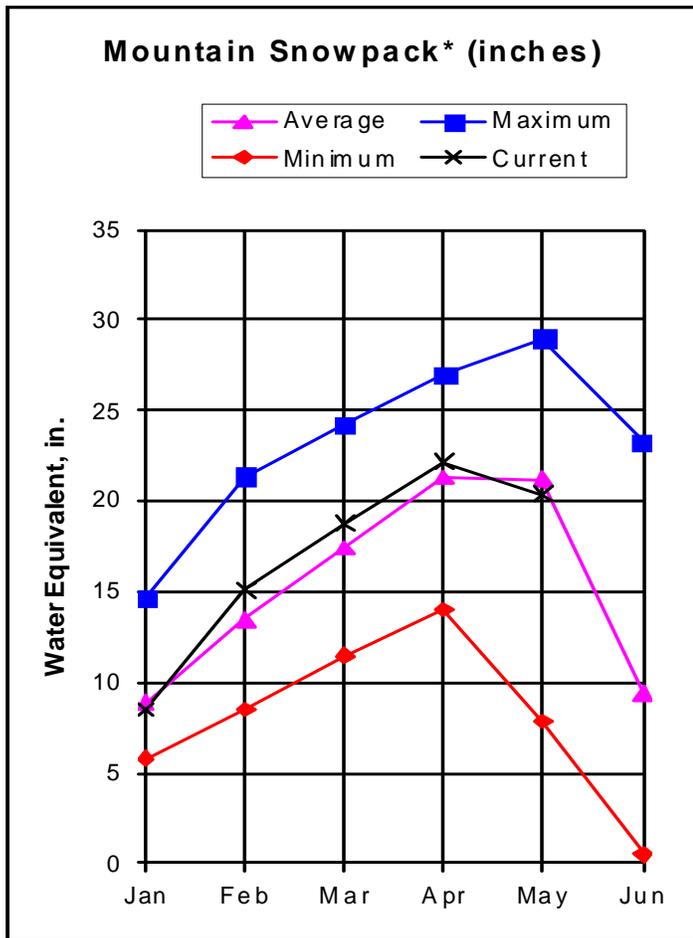
\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.



# YAMPA, WHITE, NORTH PLATTE AND LARAMIE RIVER BASINS as of May 1, 2009



\*Based on selected stations

The combined Yampa, White, North Platte and Laramie River basin snowpack percentages saw a slight drop from last month to 96 percent of average. However, that doesn't tell the whole story. SNOTEL data indicates snowpacks in the combined basins increased by 2.3 inches of water from April 1 to the snowpack peak which occurred on April 20. The average increase in water content during April is 0.9 inches. This year's peak snowpack was 111 percent of the average peak. However, once the snowpacks reached their peaks, snowmelt began in earnest leaving May 1 snowpacks slightly below average. Snowpacks are below average in all the sub-basins with the exception of the Little Snake whose snowpacks measured at 114 percent of average. The White River Drainage yielded the lowest snowpack percentage at 88 percent of average. Mountain precipitation was 111 percent of average for April. The above average monthly total helped bring the total water year precipitation up to 104 percent of average. Reservoir storage is 111 percent of average and 20 percent higher than the levels reported last year. Most areas in the basin saw a slight decrease in the forecasts from those issued last month. However, water users in those areas can still expect near average runoff through July. The exception is along the Little Snake River where forecasts increased up to 17 percentage points over last month. May-July forecasts range from 89 percent of average for the North Platte River near Northgate to 131 percent of average on the Little Snake River near Lily.

YAMPA, WHITE, AND NORTH PLATTE RIVER BASINS  
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		10%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
NORTH PLATTE RIVER nr Northgate	MAY-JUL	100	148	181	88	215	260	205
	MAY-SEP	111	167	205	89	245	300	230
LARAMIE RIVER nr Woods	MAY-JUL	80	100	114	99	128	148	115
	MAY-SEP	88	111	126	99	141	164	127
Yampa R ab Stagecoach Reservoir (2)	APR-JUL	19.7	25	29	100	34	42	29
	MAY-JUL	12.7	17.8	22	98	27	35	22
Yampa River at Steamboat Springs (2)	APR-JUL	225	255	275	98	295	330	280
	MAY-JUL	185	215	235	96	255	290	245
Elk River nr Milner	APR-JUL	290	325	350	108	375	420	325
	MAY-JUL	245	280	305	108	330	375	282
Elkhead Creek nr Elkhead	APR-JUL	29	36	41	105	46	55	39
	MAY-JUL	23	30	35	109	40	49	32
Elkhead Creek blw Maynard Gulch (2)	APR-JUL	44	54	62	105	70	84	59
	MAY-JUL	34	44	52	108	60	74	48
Fortification Ck nr Fortification	MAR-JUN	4.9	6.6	8.0	107	9.6	12.2	7.5
	MAY-JUN	2.5	3.3	4.0	100	4.7	6.0	4.0
Yampa River nr Maybell (2)	APR-JUL	850	960	1040	105	1120	1260	990
	MAY-JUL	650	760	840	100	925	1060	840
Little Snake River nr Slater	APR-JUL	167	189	205	129	220	250	159
	MAY-JUL	142	164	180	128	197	225	141
Little Snake River nr Dixon	APR-JUL	330	395	440	133	490	565	330
	MAY-JUL	265	330	375	129	425	500	290
Little Snake River nr Lily	APR-JUL	370	440	490	134	545	630	365
	MAY-JUL	285	355	405	131	460	545	310
White River nr Meeker	APR-JUL	220	260	290	100	320	370	290
	MAY-JUL	186	225	255	98	285	335	260

YAMPA, WHITE, AND NORTH PLATTE RIVER BASINS  
Reservoir Storage (1000 AF) - End of April

YAMPA, WHITE, AND NORTH PLATTE RIVER BASINS  
Watershed Snowpack Analysis - May 1, 2009

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
STAGECOACH	33.3	30.7	26.0	28.1	LARAMIE RIVER BASIN	4	90	98
YAMCOLO	8.7	8.7	6.8	7.4	NORTH PLATTE RIVER BASIN	11	85	94
					TOTAL NORTH PLATTE BASIN	14	88	96
					ELK RIVER BASIN	2	82	89
					YAMPA RIVER BASIN	12	82	91
					WHITE RIVER BASIN	6	92	88
					TOTAL YAMPA AND WHITE RIV	17	83	89
					LITTLE SNAKE RIVER BASIN	8	90	114
TOTAL YAMPA, WHITE AND NO	36	86	96					

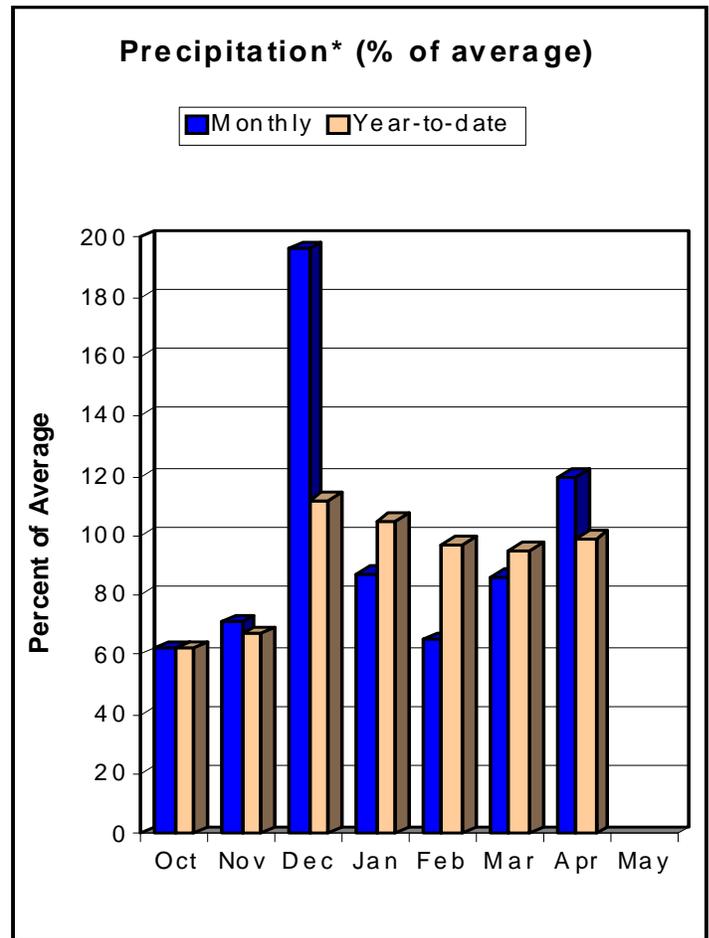
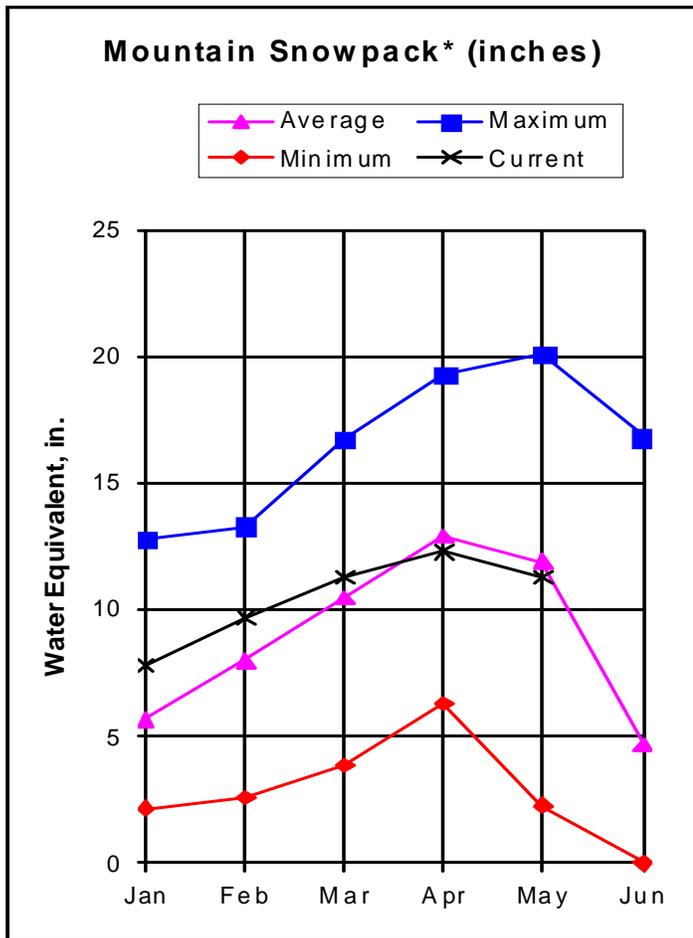
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The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
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- (3) - Median value used in place of average.

# ARKANSAS RIVER BASIN

## as of May 1, 2009



\*Based on selected stations

The Arkansas River Basin May 1 snowpack percentage remained unchanged from last month at 95 percent of average. This is only 72 percent of the snowpacks measured at this time last year. On the brighter side, SNOTEL data shows that, overall, the basin received a 2.2 inch increase in snow water content from April 1 to the peak value measured on April 19. Ordinarily, the basin only sees an increase of 0.5 inches during April. This year's peak was 14 percent higher when compared to the average peak snowpack. Looking at the sub-basin snowpacks, it is apparent that the spring weather patterns definitely favored the upper portion of the basin. The Upper Arkansas Drainage reported 98 percent of average snowpacks while the Purgatoire Watershed could only muster 35 percent of average snowpacks. After three consecutive months of below normal precipitation, the higher elevations finally got above normal precipitation during April at 120 percent of average. This helped to raise totals for the water year to 99 percent of average. Reservoir storage remains below normal at 94 percent of average but is 5 percent higher than the amount of storage available at this time last year. The Purgatoire and Cucharas watersheds were the only basins with significant changes in the forecasts, dropping 23 and 17 percentage points, respectively. Below to well below average runoff is expected during the May-September forecast period, with the exception of the mainstem of the Arkansas and the northernmost basins which can expect near average flows.

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ARKANSAS RIVER BASIN  
Streamflow Forecasts - May 1, 2009

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Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90%		70%		50%			30%		10%	
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)		(1000AF)	(1000AF)	(1000AF)	(1000AF)
CHALK CK at Nathrop	APR-JUL	14.3	18.9	23	100	27	33	23				
	MAY-JUL	13.8	18.4	22	100	26	32	22				
	APR-SEP	16.6	23	27	100	32	39	27				
	MAY-SEP	16.1	22	26	96	31	38	27				
ARKANSAS RIVER at Salida (2)	APR-JUL	200	230	255	100	280	320	255				
	MAY-JUL	184	215	240	100	265	305	240				
	APR-SEP	235	280	310	100	345	395	310				
	MAY-SEP	220	265	295	98	330	380	300				
GRAPE CK nr Westcliffe	APR-JUL	6.1	9.8	13.2	82	17.2	25	16.1				
	MAY-JUL	3.3	7.0	10.4	80	14.4	22	13.0				
	APR-SEP	7.9	12.3	16.0	82	20	28	19.6				
	MAY-SEP	5.1	9.5	13.2	80	17.6	25	16.5				
PUEBLO RESERVOIR Inflow (2)	APR-JUL	255	320	370	96	425	510	385				
	MAY-JUL	225	290	340	97	395	480	350				
	APR-SEP	325	410	470	97	535	645	485				
	MAY-SEP	295	380	440	98	505	615	450				
HUERFANO RIVER nr Redwing	APR-JUL	7.9	9.4	10.6	86	11.9	13.8	12.3				
	MAY-JUL	6.8	8.3	9.5	85	10.8	12.7	11.2				
	APR-SEP	9.9	11.9	13.4	87	15.0	17.5	15.5				
	MAY-SEP	8.8	10.8	12.3	85	13.9	16.4	14.5				
CUCHARAS RIVER nr La Veta	APR-JUL	3.8	5.3	6.5	58	7.9	10.2	11.3				
	MAY-JUL	2.8	4.3	5.5	56	6.9	9.2	9.9				
	APR-SEP	7.8	6.6	8.0	62	9.6	12.1	13.0				
	MAY-SEP	3.8	5.6	7.0	60	8.6	11.1	11.7				
TRINIDAD LAKE Inflow (2)	MAR-JUL	11.0	16.2	21	62	26	35	34				
	MAY-JUL	5.9	11.1	15.5	53	21	30	29				
	APR-SEP	10.5	17.2	23	52	30	42	44				
	MAY-SEP	7.4	14.1	20	50	27	39	40				

ARKANSAS RIVER BASIN Reservoir Storage (1000 AF) - End of April					ARKANSAS RIVER BASIN Watershed Snowpack Analysis - May 1, 2009			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
ADOBE	62.0	38.9	44.5	34.3	UPPER ARKANSAS BASIN	10	73	98
CLEAR CREEK	11.4	8.5	5.5	6.0	CUCHARAS & HUERFANO RIVER	4	70	91
CUCHARAS RESERVOIR	40.0	1.1	1.6	6.9	PURGATOIRE RIVER BASIN	2	64	35
GREAT PLAINS	150.0	0.0	0.0	40.6	TOTAL ARKANSAS RIVER BASIN	15	72	95
HOLBROOK	7.0	1.0	0.9	4.7				
HORSE CREEK	27.0	0.0	0.0	11.3				
JOHN MARTIN	616.0	76.5	55.7	123.7				
LAKE HENRY	8.0	8.5	6.2	6.0				
MEREDITH	42.0	37.3	31.1	20.1				
PUEBLO	354.0	230.7	240.6	163.5				
TRINIDAD	167.0	27.3	30.6	29.1				
TURQUOISE	127.0	55.5	40.1	70.8				
TWIN LAKES	86.0	41.4	42.9	41.3				

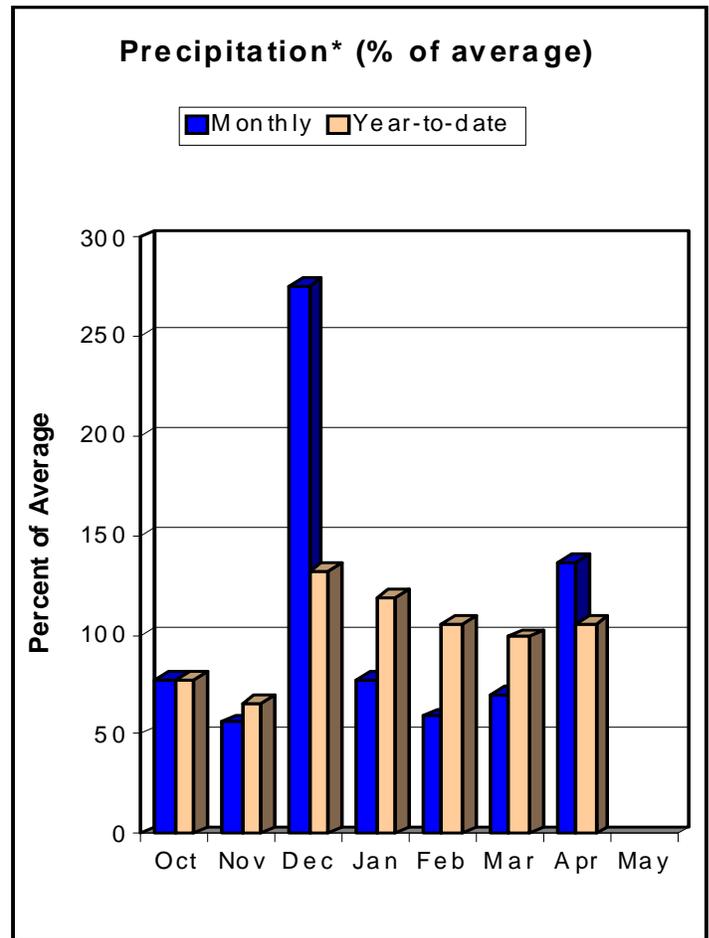
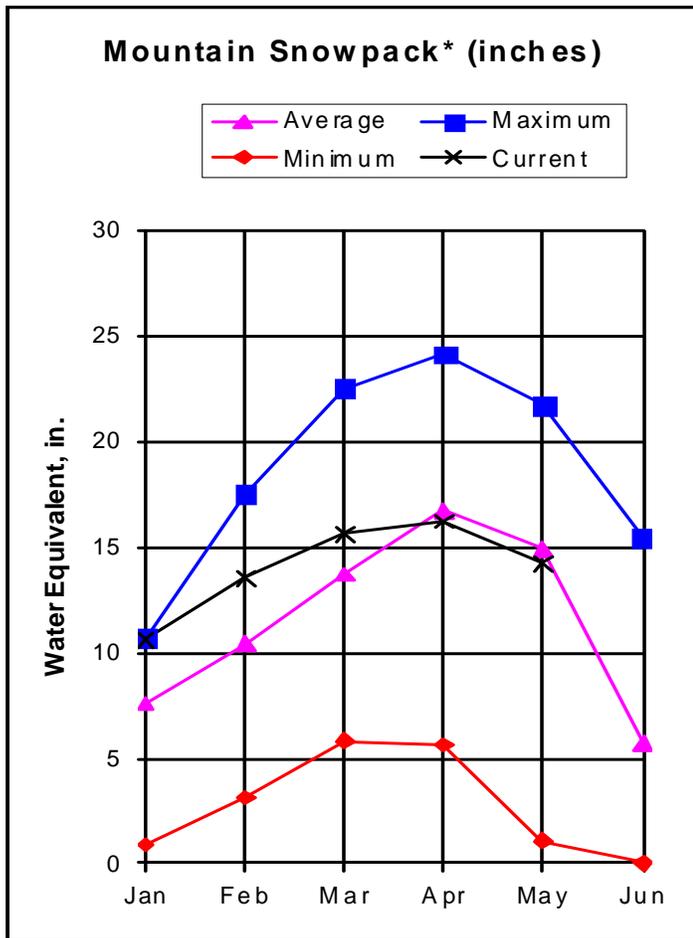
\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

# UPPER RIO GRANDE RIVER BASIN

## as of May 1, 2009



\*Based on selected stations

The Upper Rio Grande Basin had a 2 percentage point drop in snowpack, falling from 97 percent of average on April 1 to 95 percent of average on May 1. What is more telling is that from April 1 to the time the snowpacks reached their peak on April 19, the basin snowpacks increased by 2.4 inches, which is considerably more than the 0.4 inches they would normally receive. This year's peak snowpack was 109 percent of the average peak thanks to in large part to a couple of pretty good storm events in mid-April. May 1 snowpacks in the sub-basins is mostly below average. Snowpack percentages range from 85 percent of average in the Alamosa Creek Drainage to 112 percent of average in the Conejos and Rio San Antonio watersheds. Mountain precipitation during April was the highest of the major basin in the state at 137 percent of average. That is quite a turnaround from the previous three months, which were below to well below average. As a result, total precipitation for the water year rose from 99 percent of average last month to 105 percent of average currently. Reservoir storage is 90 percent of average and 90 percent of the storage present a year ago. Streamflow forecasts remain essentially unchanged from those released last month. Water users can expect near average to below average runoff during the May-September forecast period. Volumes during this time should range from 83 percent of average for Saguache Creek near Saguache to 102 percent of average for the Platoro Reservoir Inflow.

UPPER RIO GRANDE BASIN  
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<==== Drier ==== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90%		70%		50%			30%		10%	
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)		(1000AF)	(1000AF)		
Rio Grande at Thirty Mile Bridge (2)	APR-SEP	100	116	127	93	139	158	136				
	MAY-SEP	91	105	116	90	127	144	129				
	APR-JUL	88	100	109	92	118	133	118				
	MAY-JUL	79	90	98	87	106	120	113				
Rio Grande at Wagon Wheel Gap (2)	APR-SEP	235	280	310	90	345	395	345				
	MAY-SEP	210	245	275	85	305	355	322				
South Fork Rio Grande at South Fork	APR-SEP	105	118	127	96	137	152	132				
	MAY-SEP	88	100	108	90	117	130	120				
Rio Grande nr Del Norte (2)	APR-SEP	385	440	485	91	530	605	531				
	MAY-SEP	335	390	430	88	470	540	491				
Saguache Creek nr Saguache (2)	APR-SEP	17.2	23	27	82	32	39	33				
	MAY-SEP	14.8	20	24	83	28	35	29				
Alamosa Creek abv Terrace Reservoir	APR-SEP	54	61	67	96	73	82	70				
	MAY-SEP	47	54	59	94	64	73	63				
La Jara Creek nr Capulin	MAR-JUL	5.3	6.9	8.2	94	9.6	12.0	8.7				
	MAY-JUL	3.0	4.0	4.8	81	5.7	7.2	5.9				
Trinchera Creek abv Turners Ranch	APR-SEP	7.6	9.6	10.1	84	12.4	14.4	12.0				
	MAY-SEP	4.0	6.4	8.0	86	9.6	12.0	9.3				
Sangre de Cristo Creek (2)	APR-SEP	3.2	6.0	8.0	91	10.0	12.8	8.8				
	MAY-SEP	0.0	3.0	5.0	88	7.0	10.0	5.7				
Ute Ck nr Fort Garland	APR-SEP	6.9	9.2	11.0	90	13.0	16.4	12.2				
	MAY-SEP	5.9	8.0	9.7	87	11.6	14.8	11.1				
Platoro Reservoir Inflow	APR-JUL	51	57	61	95	66	73	64				
	MAY-JUL	46	52	56	100	60	67	56				
	APR-SEP	57	63	68	96	73	81	71				
	MAY-SEP	52	58	63	102	68	75	62				
Conejos River nr Mogote (2)	APR-SEP	169	190	205	103	220	245	200				
	MAY-SEP	151	170	184	100	199	220	185				
San Antonio River at Ortiz	APR-SEP	11.5	14.6	17.0	104	19.7	24	16.4				
	MAY-SEP	7.1	9.2	10.8	101	12.6	15.6	10.7				
Los Pinos River nr Ortiz	APR-SEP	59	69	77	104	85	98	74				
	MAY-SEP	47	56	63	100	70	82	63				
Culebra Creek at San Luis (2)	APR-SEP	12.1	17.0	21	91	26	34	23				
	MAY-SEP	11.2	15.9	19.7	94	24	32	21				
Costilla Reservoir Inflow	MAR-JUL	6.6	8.5	10.0	94	11.6	14.3	10.6				
	MAY-JUL	5.1	6.7	8.0	91	9.4	11.9	8.8				
Costilla Creek nr Costilla (2)	MAR-JUL	16.0	21	25	96	29	37	26				
	MAY-JUL	12.9	17.4	21	103	25	32	20				

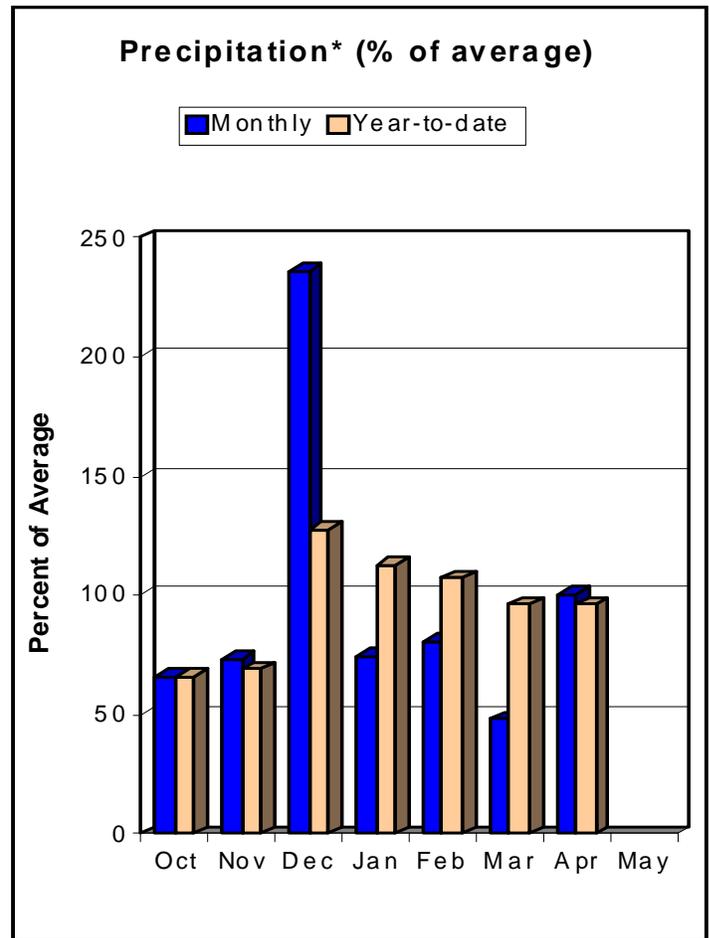
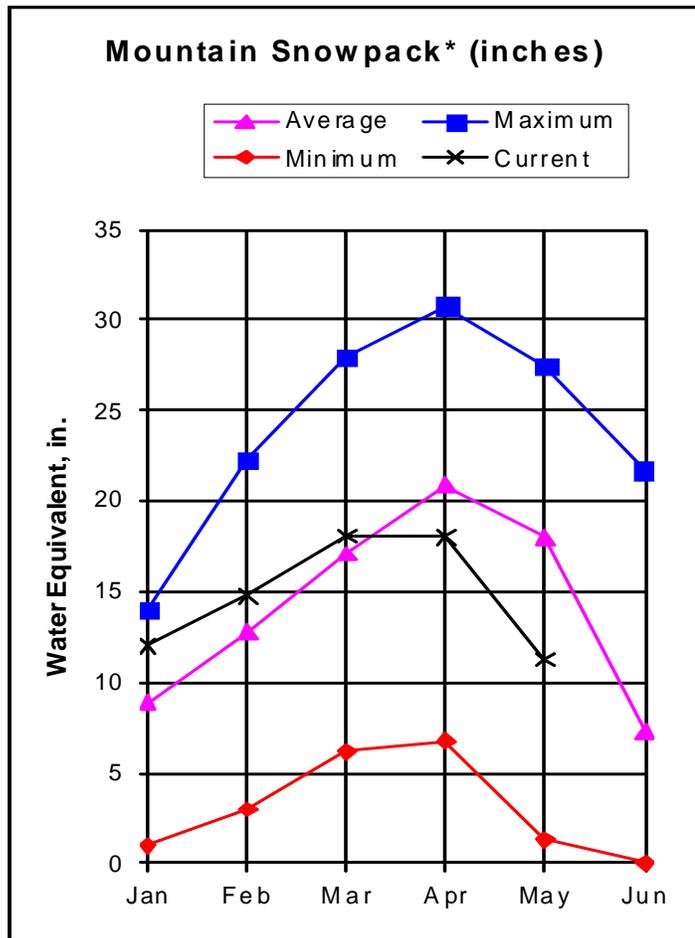
UPPER RIO GRANDE BASIN Reservoir Storage (1000 AF) - End of April					UPPER RIO GRANDE BASIN Watershed Snowpack Analysis - May 1, 2009			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CONTINENTAL	27.0	6.3	6.7	6.6	ALAMOSA CREEK BASIN	2	64	85
PLATORO	60.0	21.9	16.1	23.3	CONEJOS & RIO SAN ANTONIO	4	84	112
RIO GRANDE	51.0	19.5	23.2	21.4	CULEBRA & TRINCHERA CREEK	5	108	89
SANCHEZ	103.0	25.3	32.2	25.8	UPPER RIO GRANDE BASIN	12	74	88
SANTA MARIA	45.0	4.4	8.8	11.1	TOTAL UPPER RIO GRANDE BA	23	81	95
TERRACE	18.0	9.1	9.0	7.8				

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

# SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN RIVER BASINS as of May 1, 2009



\*Based on selected stations

The combined San Miguel, Dolores, Animas and San Juan River basin snowpacks were the only ones that did not see a significant increase from the spring storms that hit Colorado during April. May 1 measurements show the combined basins are 63 percent of average, which is significantly less than the 103 percent of average snowpacks measured last year at this time. SNOTEL data indicates that the basin snowpacks reached their peaks on April 18. This year's peak snowpack was 93 percent of the average peak. Snowpacks in the sub-basins are mostly well below average. The Dolores River Watershed reported a measly 41 percent of average snowpack. At the upper end of the spectrum, the San Juan River Drainage could only manage to produce a snowpack that was 77 percent of average. On a positive note, April precipitation was 100 percent of average. This was only the second month of the water year that had average or better precipitation. December was the other month with 236 percent of average precipitation. Total precipitation remained steady at 96 percent of average. Reservoir levels are 10 percent higher than average and 10 percent higher than those reported a year ago. Forecasts remain relatively unchanged from those issued last month. May-July streamflows are expected to be below average for most of the forecast points in the basins. Volumes during this period should range from 75 percent of average for the La Plata River at Hesperus and the Mancos River near Mancos to 92 percent of average for the Navajo Reservoir Inflow.

SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN RIVER BASINS  
Streamflow Forecasts - May 1, 2009

Forecast Point	Forecast Period	<<==== Drier ==== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90%		70%		50%			30%		10%	
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)		(1000AF)	(1000AF)		
Dolores River at Dolores	APR-JUL	168	198	220	83	245	285	265				
	MAY-JUL	123	153	175	80	200	240	220				
McPhee Reservoir Inflow	APR-JUL	200	235	260	81	290	335	320				
	MAY-JUL	141	174	200	77	230	275	260				
San Miguel River nr Placerville	APR-JUL	91	105	115	87	126	143	132				
	MAY-JUL	75	89	99	85	110	127	117				
Gurley Reservoir Inlet	APR-JUL	11.7	14.4	16.5	90	18.8	22	18.3				
	MAY-JUL	10.1	12.8	15.0	91	17.4	21	16.5				
Cone Reservoir Inlet	APR-JUL	1.1	2.0	2.9	89	4.0	6.0	3.3				
	MAY-JUL	1.1	1.9	2.6	89	3.5	5.2	2.9				
Lilylands Reservoir Inlet	APR-JUL	1.7	2.2	2.6	88	3.0	3.7	2.9				
	MAY-JUL	1.3	1.8	2.1	82	2.5	3.2	2.5				
Rio Blanco at Blanco Diversion (2)	APR-JUL	40	46	50	94	55	62	53				
	MAY-JUL	31	37	41	91	46	53	45				
Navajo River at Oso Diversion (2)	APR-JUL	50	57	62	90	68	77	69				
	MAY-JUL	39	46	51	88	57	66	58				
San Juan River nr Carracas (2)	APR-JUL	295	330	355	88	380	425	405				
	MAY-JUL	230	265	290	89	315	360	325				
Piedra River nr Arboles	APR-JUL	152	174	190	83	205	235	230				
	MAY-JUL	113	135	151	88	168	196	172				
Vallecito Reservoir Inflow	APR-JUL	142	158	170	83	182	200	205				
	MAY-JUL	118	134	146	79	158	178	184				
Navajo Reservoir Inflow (2)	APR-JUL	565	630	690	88	755	825	785				
	MAY-JUL	440	505	565	92	630	700	615				
Animas River at Durango	APR-JUL	295	340	370	84	405	460	440				
	MAY-JUL	245	290	320	82	355	410	390				
Lemon Reservoir Inflow	APR-JUL	36	41	45	78	49	55	58				
	MAY-JUL	31	36	40	76	44	50	53				
La Plata River at Hesperus	APR-JUL	15.1	17.3	19.0	76	21	24	25				
	MAY-JUL	11.9	14.1	15.8	75	17.6	21	21				
Mancos River nr Mancos (2)	APR-JUL	10.7	19.2	25	76	31	39	33				
	MAY			13.0	106			12.3				
	JUNE			7.0	62			11.3				
	JULY			1.5	30			5.0				

SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN RIVER BASINS  
Reservoir Storage (1000 AF) - End of April

SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN RIVER BASINS  
Watershed Snowpack Analysis - May 1, 2009

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GROUNDHOG	22.0	16.5	16.5	14.2	ANIMAS RIVER BASIN	9	68	67
JACKSON GULCH	10.0	7.2	9.6	7.4	DOLORES RIVER BASIN	6	43	41
LEMON	40.0	24.4	21.7	23.4	SAN MIGUEL RIVER BASIN	5	51	45
MCPHEE	381.0	321.2	327.7	304.6	SAN JUAN RIVER BASIN	4	63	77
NARRAGUINNEP	19.0	17.8	18.7	17.1	TOTAL SAN MIGUEL, DOLORES	23	60	63
VALLECITO	126.0	93.4	42.5	70.3	AN JUAN RIVER BASINS			

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.





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In addition to the basin outlook reports, water supply forecast information for the Western United States is available from the Natural Resources Conservation Service and the National Weather Service monthly, January through May. The information may be obtained from the Natural Resources Conservation Service web page at <http://www.wcc.nrcs.usda.gov/wsf/westwide.html>

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