

# COLORADO WATER SUPPLY OUTLOOK REPORT JUNE 1, 2000

## Summary

Continued warm and dry conditions persisted across the state during May. The result has been a rapid and steady melt of the state's snowpack. By June 1, SNOTEL data indicated that many areas of the state had melted out entirely, with the remainder of the state not far behind. These conditions only worsen what was a fairly dry winter for much of the state, and water supply forecasts have continued to decrease accordingly. For most of the state's water users, only a wet monsoon, which would decrease summer water demands, and access to reservoir storage, is their best hope for a near average growing season.

## Snowpack

For most mountain locations the snowmelt that began around April 1 continued with little interruption through May. By June 1, all SNOTEL sites in the Gunnison, Animas, Dolores, and San Miguel basins had completely melted out. In the Rio Grande and Colorado River basins, only a few sites continued to report any water equivalent. Even some of the highest elevation sites, which normally don't melt out until July, were already snow free by June 1. Melt rates have been consistent across the state i.e., all basins have seen the impacts of a rapid melt. Currently, the highest snowpack percentage is in the North Platte Basin, which is 41% of average. Other basins with snowpack remaining include the Arkansas at 31% of average, the Yampa and White at 29% of average, and the South Platte at 25% of average. This year's spring weather is dramatically different from that of last year, and these snowpack statistics only confirm that. At this time last year, the snowpack had continued to increase to 105% of average statewide. Colorado's current statewide snowpack is only 14% of average, and is only 13% of last year's snowpack. All basins are reporting well below last year's snowpack. The highest percentage of last year is only 40% in the North Platte Basin. The current snowpack is the lowest since statewide SNOTEL records began in 1986.

## Precipitation

May was another below average month for precipitation across most of the state. Thus far during the first eight months of the 2000 water year, only three months (January, February, and March) have had above average statewide precipitation. During May, statewide precipitation was only 71 % of average. These conditions only helped to further reduce the water year totals, now to 80% of average. Only the Gunnison Basin received above average precipitation during May, at 120% of average. Continuing the trend for 2000, the lowest precipitation percentages were measured across the San Juan, Animas, Dolores and San Miguel basins and the Rio Grande Basin at 37% and 54% of average, respectively. For the water year, only the Arkansas Basin is reporting above average totals, at 105% of average. The lowest water year totals continue to be reported across southwestern Colorado. The San Juan, Animas, Dolores, and San Miguel basins are only reporting 60% of average water year precipitation, while the Rio Grande Basin is reporting 72% of average water year precipitation. In many respects, this year is shaping up to be one of the driest on record across southwestern Colorado.

## Reservoir Storage

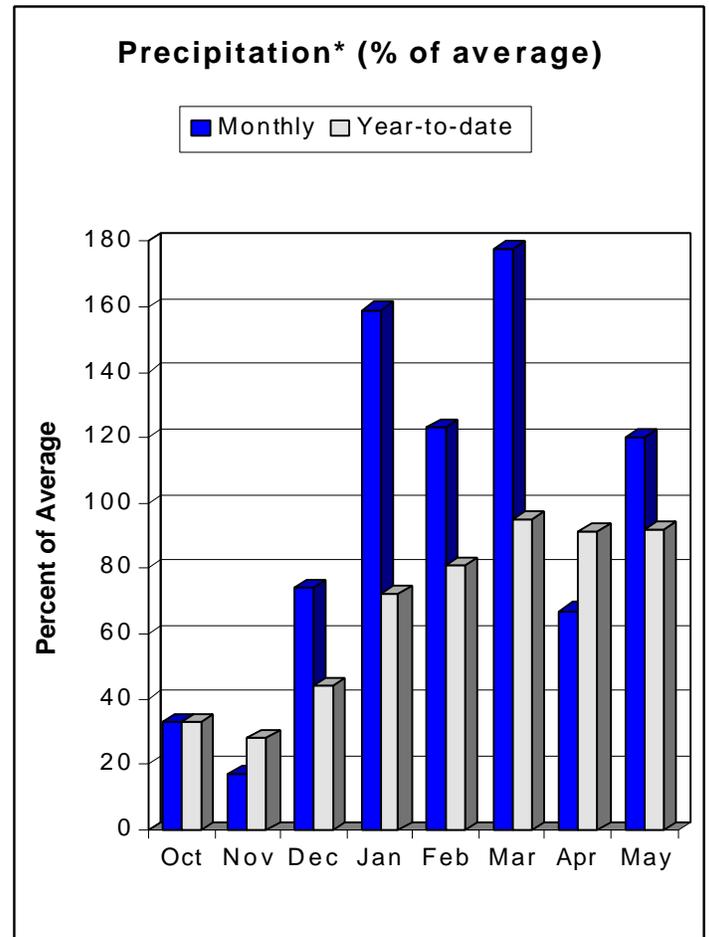
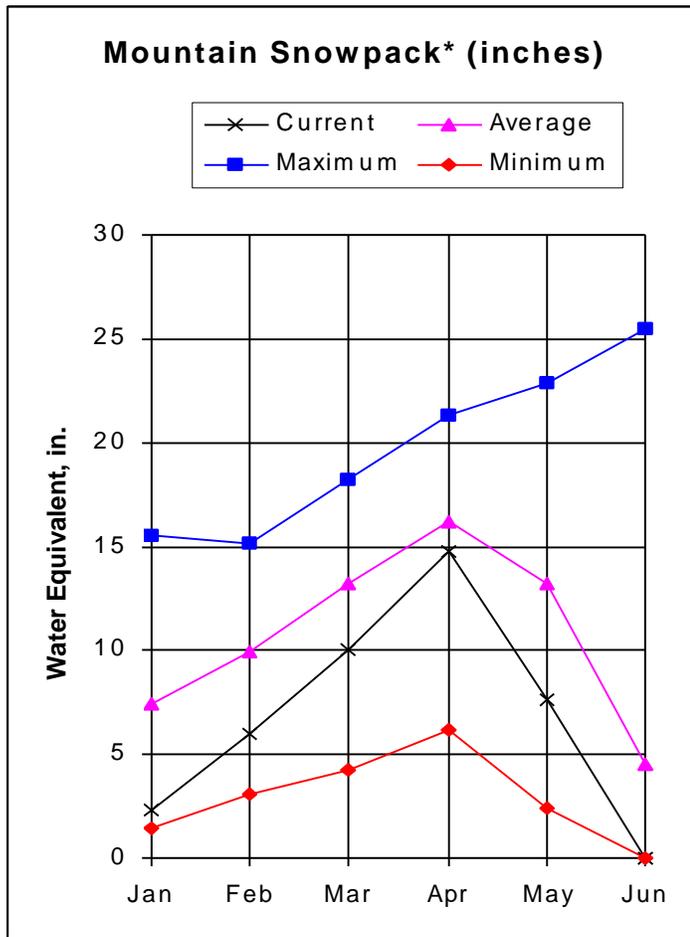
In a year like this the importance of reservoir storage becomes apparent. Fortunately for many water users, reservoir storage continues to track at well above average levels. Statewide, storage remains at 137% of average, and is 101% of last year's volumes. All basins continue to report above average storage and they range from a high of 255% of average in the Arkansas Basin, to a low of 101% of average in the South Platte Basin. As expected, the greatest volumes above the average is stored in the Arkansas Basin, which exceeds the average by more than 640,000 acre-feet. This single basin accounts for nearly half of the above average storage in the state. Unfortunately for those basins which are expected to have lower summer streamflows, the above average volumes are quite low. Volumes exceed the average by only 28 acre-feet in the Rio Grande Basin and by only 47 acre-feet in the San Juan, Animas, Dolores, and San Miguel basins.

## Streamflow

Another dry month has taken a toll on the forecasted streamflow volumes at many locations across the state. The greatest impact has been on those streams and rivers across northern Colorado and along the Front Range. Many streams in these basins, which were forecast at near average on April 1, are now forecast to produce below average or well below average volumes. Forecasts across most of southern Colorado remain similar to those of previous months and remain at well below average volumes. The lowest forecasts in the state remain along many of the smaller tributaries in the San Juan and Rio Grande basins. Runoff volumes along these streams are only expected to be 40% to 50% of average. The best streamflow prospects, which remain at near average, are confined to the headwaters of the Colorado River. This region escaped the early season dryness back in February and has continued at near average forecasts since then. The earlier than normal snowmelt has produced early peak flows across most of the state. By June 1, flows were beginning to recede on most streams. These peak flows were two to three weeks earlier than normal.

# GUNNISON RIVER BASIN

## as of June 1, 2000



\*Based on selected stations

Above average temperatures have resulted in a June 1 measurement of zero at all of the 12 SNOTEL sites in the Gunnison Basin. Most of the sites had melted out by mid May, which is about 20 days sooner than normal. These measurements are quite a contrast to last year's measurements, which were above average at this time. This is one of the earliest melt outs on record for some of these SNOTEL sites. The Gunnison Basin was the only basin to receive above average precipitation during May. Surprisingly, the precipitation was 120% of average for the month, and the water year total is now 92% of average. Reservoirs in the basin are maintaining good storage levels so far, despite the low runoff. The combined storage is at 134% of average, which is about 14% more than last year at this time. June 1 streamflow forecasts are nearly the same as last month. Most of the forecasts are well below average, and range from only 58% of average at the Inflow to Paonia Reservoir, to 87% of average at the Inflow to Rigeway Reservoir.

GUNNISON RIVER BASIN  
Streamflow Forecasts - June 1, 2000

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		=====		>>===== Wetter =====<<		
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
Taylor River blw Taylor Park Resv	APR-JUL	63	75	85	86	95	107	99
East River at Almont	APR-JUL	117	131	145	79	159	174	183
Gunnison River nr Gunnison	APR-JUL	240	261	290	77	319	356	375
Tomichi Creek at Gunnison	APR-JUL	39	49	60	78	72	81	77
Lake Fork at Gateview	APR-JUL	82	93	105	85	117	128	123
Blue Mesa Reservoir Inflow	APR-JUL	395	496	565	81	634	735	699
Paonia Reservoir Inflow	MAR-JUN APR- JUL	49 50	53 55	60 60	59 58	68 65	84 78	101 104
N.F. Gunnison River nr Somerset	APR-JUL	170	189	210	73	232	265	288
Surface Creek nr Cedaredge	APR-JUL	8.8	9.5	11.0	69	12.7	15.2	16.0
Ridgway Reservoir Inflow	APR-JUL	70	78	85	87	93	100	98
Uncompahgre River at Colona	APR-JUL	79	94	106	84	119	134	126
Gunnison River nr Grand Junction	APR-JUL	825	920	1060	73	1200	1303	1448

GUNNISON RIVER BASIN  
Reservoir Storage (1000 AF) - End of May

GUNNISON RIVER BASIN  
Watershed Snowpack Analysis - June 1, 2000

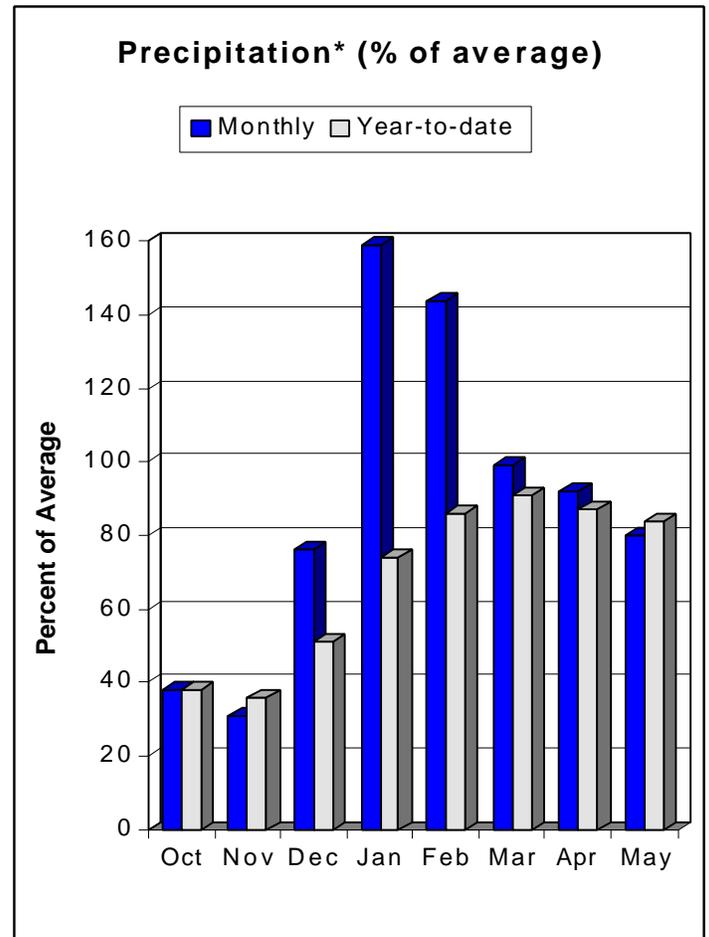
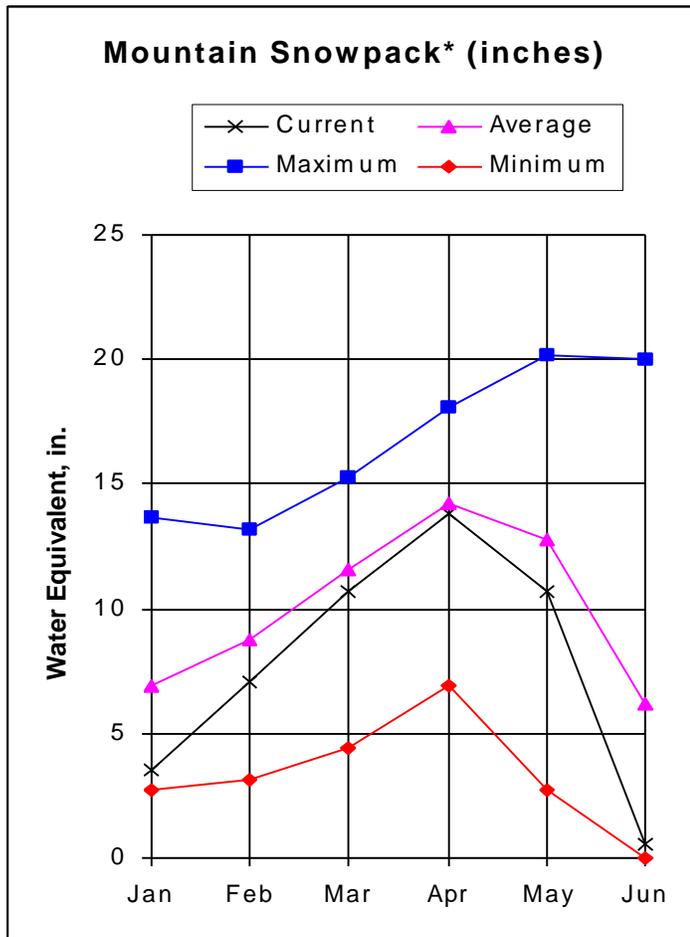
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BLUE MESA	830.0	679.9	593.2	465.7	UPPER GUNNISON BASIN	9	0	0
CRAWFORD	14.3	12.2	12.8	12.7	SURFACE CREEK BASIN	2	0	0
FRUITGROWERS	4.3	4.2	4.4	3.9	UNCOMPAHGRE BASIN	3	0	0
FRUITLAND	9.2	5.5	6.8	6.0	TOTAL GUNNISON RIVER BASIN	12	0	0
MORROW POINT	121.0	113.9	112.7	110.7				
PAONIA	18.0	17.0	16.5	15.7				
RIDGWAY	83.2	83.1	72.3	67.0				
TAYLOR PARK	106.0	94.8	65.5	73.0				

\* 90%, 70%, 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 1961-1990 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.

# UPPER COLORADO RIVER BASIN as of June 1, 2000



\*Based on selected stations

There is snow remaining at only three of the 24 SNOTEL sites in the Colorado Basin on June 1. While Berthoud Summit, Bison Lake, and Fremont Pass do have some snow, their amounts are very meager. Most of the SNOTEL sites in this basin melted out towards the later part of May, which is a good 20 days or more earlier than normal. What little snow there is left makes up about 10% of the average snowpack amount, which is about 10% of last year's snowpack as well. Precipitation in the basin was 80% of average during May, and the total precipitation for the water year is now at 84% of average. The combined reservoir storage volume in the basin remains very good on June 1 at 142% of average, which is about 15% more than last year's June 1 storage. The streamflow forecasts are nearly the same as last month's. Forecasts range from only 82% of average flow on the Roaring Fork at Glenwood Springs, to 101% of average on the East Fork of Troublesome Creek near Troublesome.

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UPPER COLORADO RIVER BASIN  
Streamflow Forecasts - June 1, 2000

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Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>				30-Yr Avg. (1000AF)		
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF) (% AVG.)	30% (1000AF)		10% (1000AF)	
Lake Granby Inflow	APR-JUL	181	195	205	96	216	232	214
Willow Creek Reservoir Inflow	APR-JUL	37	44	50	100	56	65	50
Williams Fork Reservoir inflow	APR-JUL	68	76	82	93	88	98	88
E.F. Troublesome Creek nr Troublesom	APR-JUL	13.1	16.4	18.6	101	21	24	18.5
Dillon Reservoir Inflow	APR-JUL	112	129	140	93	151	168	151
Green Mountain Reservoir inflow	APR-JUL	202	224	240	92	256	281	262
Muddy Creek blw Wolford Mtn. Resv.	APR-JUL	47	54	59	92	65	74	64
Eagle River blw Gypsum	APR-JUL	223	253	275	89	299	340	310
Colorado River nr Dotsero	APR-JUL	1012	1183	1300	95	1417	1588	1362
Ruedi Reservoir Inflow	APR-JUL	84	101	115	85	131	157	136
Roaring Fork at Glenwood Springs	APR-JUL	394	484	550	82	621	733	671
Colorado River nr Cameo	APR-JUL	1493	1813	2030	89	2247	2567	2287

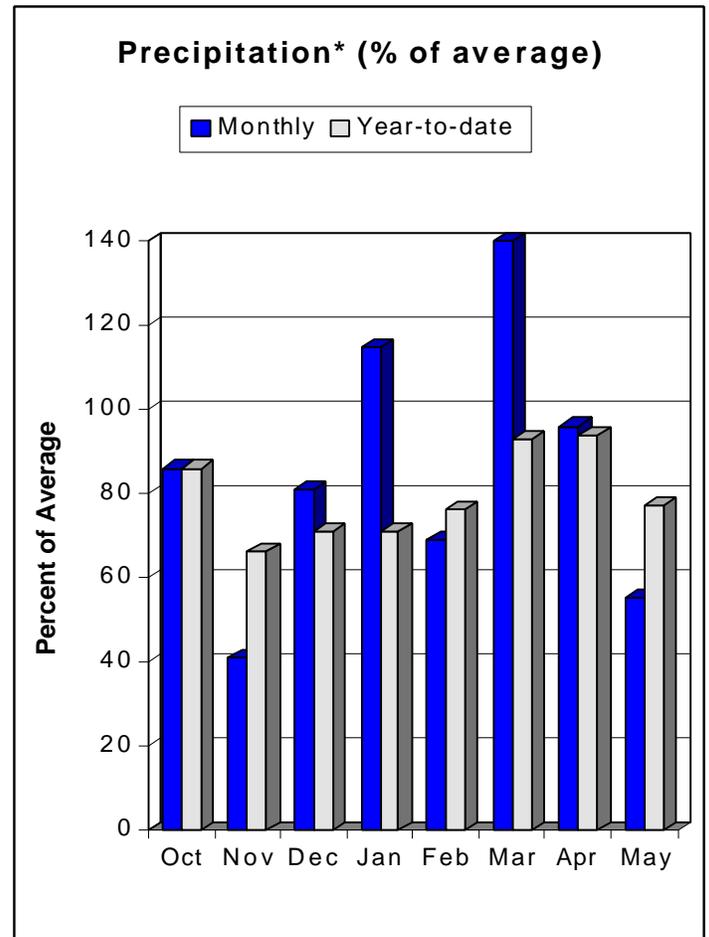
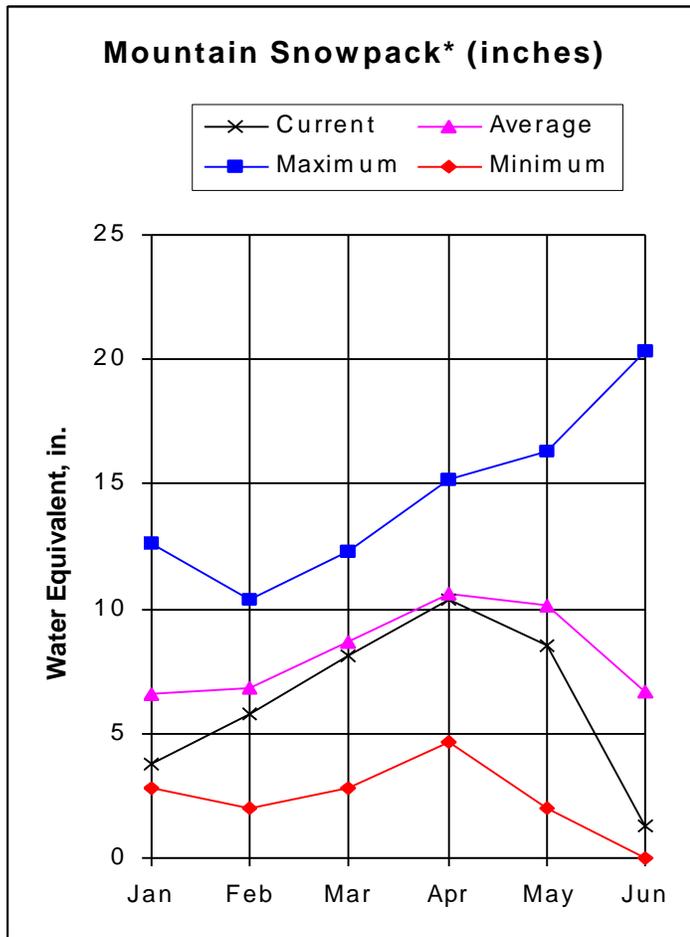
Reservoir	UPPER COLORADO RIVER BASIN Reservoir Storage (1000 AF) - End of May				UPPER COLORADO RIVER BASIN Watershed Snowpack Analysis - June 1, 2000				
	Usable Capacity	*** Usable Storage This Year	*** Last Year	*** Avg	Watershed	Number of Data Sites	This Year as % of Last Yr	% of Average	
DILLON	250.8	254.5	236.6	217.8	BLUE RIVER BASIN	5	13	25	
LAKE GRANBY	465.6	430.6	367.5	261.7	UPPER COLORADO RIVER BASI	16	13	13	
GREEN MOUNTAIN	139.0	94.2	74.2	70.5	MUDDY CREEK BASIN	2	0	0	
HOMESTAKE	43.0	40.2	21.2	16.9	PLATEAU CREEK BASIN	2	0	0	
RUEDI	102.0	85.9	78.2	74.5	ROARING FORK BASIN	7	0	0	
VEGA	32.0	33.2	33.6	26.8	WILLIAMS FORK BASIN	2	12	8	
WILLIAMS FORK	96.8	87.0	82.7	51.1	WILLOW CREEK BASIN	2	0	0	
WILLOW CREEK	9.0	8.3	7.9	7.4	TOTAL COLORADO RIVER BASI	25	10	9	

\* 90%, 70%, 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 1961-1990 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.

# SOUTH PLATTE RIVER BASIN as of June 1, 2000



\*Based on selected stations

Many of the 16 SNOTEL sites in the South Platte Basin have melted out early this year due to much above average temperatures and a lack of precipitation during May. There is only 25% of average amount of snowpack in the basin on June 1, which is only 13% of the amount last year at the same time. Although snowpack conditions on April 1 were near average, the snowpack has melted at an exceptionally fast rate that is nearly twice the normal melt rate. The Cache La Poudre Watershed has the largest remaining snow amount at 45% of average. Precipitation in the basin was 55% of average during May, and the water year total is now 77% of average. The combined reservoir storage in the basin is about average for June 1, and is about 11% less than last year at this time. The streamflow forecasts on June 1 are nearly the same as the May 1 forecasts. Forecasts range from only 62% of average flow at the inflow to Antero Reservoir, to 88% of average flow on the Big Thompson River at Mouth near Drake.

SOUTH PLATTE RIVER BASIN  
Streamflow Forecasts - June 1, 2000

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90%		70%		50% (Most Probable)			30%		10%	
		(1000AF)	(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)		(1000AF)	(1000AF)	(1000AF)	(1000AF)
Antero Reservoir inflow	APR-JUL	4.0	5.7	7.3	62	9.3	13.4	11.7				
Spinney Mountain Reservoir inflow	APR-JUL	18.8	24	29	76	35	45	38				
Elevenmile Canyon Reservoir inflow	APR-JUL	15.9	23	28	74	33	40	38				
Cheesman Lake inflow	APR-JUL	42	52	59	70	68	83	84				
South Platte River at South Platte	APR-SEP	89	132	160	75	188	229	213				
Bear Creek at Morrison	APR-SEP	13.5	18.5	22	73	26	31	30				
Clear Creek at Golden	APR-SEP	76	89	98	77	107	119	128				
St. Vrain Creek at Lyons	APR-SEP	44	56	64	82	72	84	78				
Boulder Creek nr Orodell	APR-SEP	34	39	42	81	45	50	52				
South Boulder Creek nr Eldorado Spri	APR-SEP	23	31	36	80	41	49	45				
Big Thompson River at mouth nr Drake	APR-SEP	80	92	100	88	108	120	114				
Cache La Poudre at Canyon Mouth	APR-SEP	117	174	212	75	250	307	284				

SOUTH PLATTE RIVER BASIN  
Reservoir Storage (1000 AF) - End of May

SOUTH PLATTE RIVER BASIN  
Watershed Snowpack Analysis - June 1, 2000

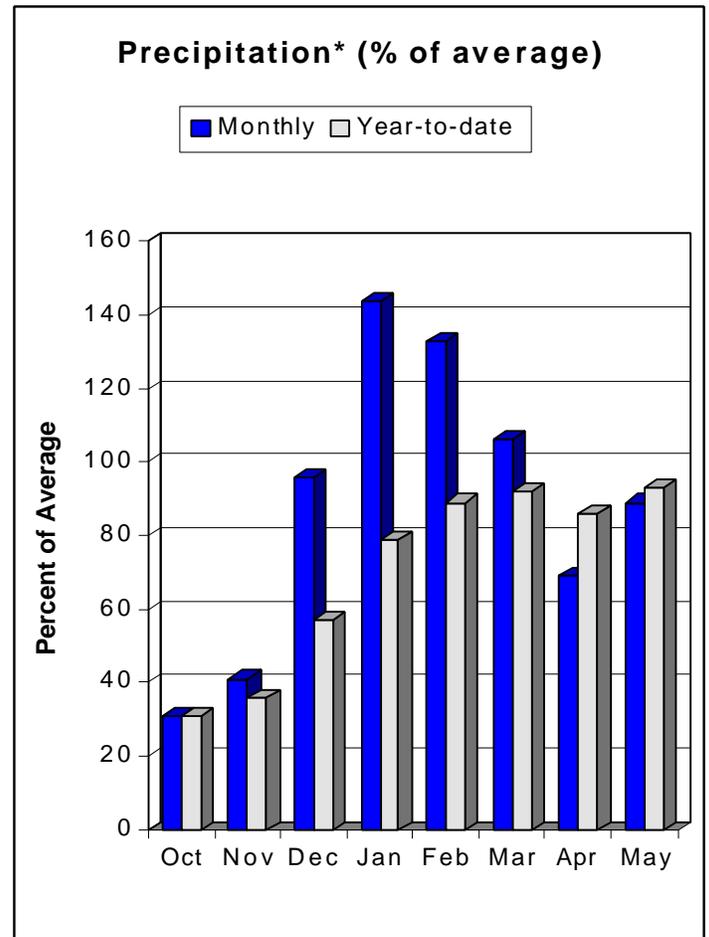
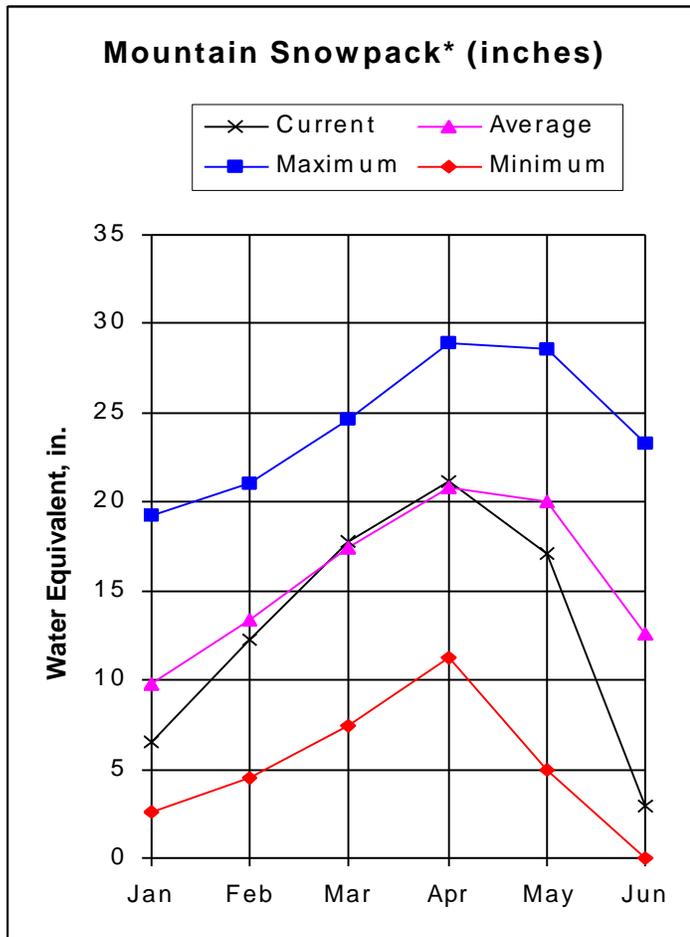
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
ANTERO	20.0	20.0	20.2	14.8	BIG THOMPSON BASIN	3	0	1
BARR LAKE	32.0	33.3	30.7	25.8	BOULDER CREEK BASIN	3	14	16
BLACK HOLLOW	8.0	4.0	3.5	4.4	CACHE LA POUFRE BASIN	2	42	45
BOYD LAKE	49.0	43.5	48.9	40.3	CLEAR CREEK BASIN	2	18	29
CACHE LA POUFRE	10.0	10.0	10.0	8.8	SAINT VRAIN BASIN	1	0	0
CARTER	108.9	81.1	106.2	100.4	UPPER SOUTH PLATTE BASIN	6	0	2
CHAMBERS LAKE	9.0	8.0	7.5	5.4	TOTAL SOUTH PLATTE BASIN	16	13	24
CHEESMAN	79.0	75.2	79.6	60.4				
COBB LAKE	34.0	17.5	20.0	14.5				
ELEVEN MILE	97.8	100.3	100.2	91.9				
EMPIRE	38.0	30.0	34.9	30.6				
FOSSIL CREEK	12.0	7.0	10.0	7.7				
GROSS	41.8	38.0	37.2	27.2				
HALLIGAN	6.4	4.5	6.4	6.1				
HORSECREEK	16.0	14.5	14.2	13.7				
HORSETOOTH	149.7	83.6	125.9	122.7				
JACKSON	35.0	25.0	28.0	32.3				
JULESBURG	28.0	16.1	17.8	22.9				
LAKE LOVELAND	14.0	12.2	12.5	10.7				
LONE TREE	9.0	8.5	8.7	8.2				
MARIANO	6.0	5.3	5.5	5.3				
MARSHALL	10.0	9.6	9.6	7.0				
MARSTON	13.0	11.0	9.1	8.9				
MILTON	24.0	36.7	22.0	16.7				
POINT OF ROCKS	70.0	60.0	70.2	64.1				
PREWITT	33.0	23.9	24.2	24.7				
RIVERSIDE	63.1	47.0	63.2	54.7				
SPINNEY MOUNTAIN	48.7	34.1	39.5	36.9				
STANDLEY	42.0	37.7	43.0	29.7				
TERRY LAKE	8.0	7.5	7.5	6.6				
UNION	13.0	12.6	12.6	11.5				
WINDSOR	19.0	16.5	17.0	13.4				

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

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# YAMPA, WHITE, NORTH PLATTE AND LARAMIE RIVER BASINS as of June 1, 2000



\*Based on selected stations

These basins managed to maintain a near average snowpack for most of the season, but May’s warm temperatures and lack of precipitation has forced the snowpack to dwindle down to a measly 41% of average in the North Platte Basin, and only 29% of average in the Yampa and White basins. The North Platte Basin has the highest snowpack percent of average in the State. There is only 40% of last year’s snowpack amount in the North Platte Basin, while there is only 32% of last year’s amount in the Yampa and White basins. Precipitation in these basins during May was 89% of average. The water year total is 93% of average. The combined reservoir storage in the Yampa and White basins is about 5% above average, which is about 5% less storage than last year at this time. Most of the streamflow forecasts for the runoff season have remained about the same as last month with the exception of the Laramie River near Woods, which has gone down from 102% of average last month, to 88% of average now. The lowest forecast remains at Elkhead Creek near Elkhead at only 51% of average.

YAMPA, WHITE, AND NORTH PLATTE RIVER BASINS  
Streamflow Forecasts - June 1, 2000

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>					30-Yr Avg. (1000AF)	
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * (1000AF) (% AVG.)		30% (1000AF)		10% (1000AF)
North Platte River nr Northgate	JUN-SEP	87	107	120	76	133	152	158
Laramie River nr Woods	JUN-SEP	49	66	78	88	90	107	89
Yampa R abv Stagecoach Res	APR-JUL	17.3	23	28	82	33	39	34
Yampa River at Steamboat Springs	APR-JUL	205	235	250	92	265	295	273
Elk River nr Milner	APR-JUL	169	196	215	72	235	267	300
Elkhead Creek nr Elkhead	APR-JUL	14.0	17.3	20	51	23	29	39
ELKHEAD CREEK blw Maynard Gulch	APR-JUL	17.3	27	34	58	41	51	59
Fortification Ck nr Fortification	MAR-JUN	2.23	3.76	4.80	57	5.84	7.37	8.50
Yampa River nr Maybell	APR-JUL	606	736	800	85	864	994	947
Little Snake River nr Slater	APR-JUL	74	90	105	68	122	135	155
LITTLE SNAKE R nr Dixon	APR-JUL	125	158	200	61	242	276	329
LITTLE SNAKE R nr Lily	APR-JUL	125	171	215	60	259	304	358
White River nr Meeker	APR-JUL	120	160	180	65	202	240	279

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

YAMPA, WHITE, AND NORTH PLATTE RIVER BASINS  
Watershed Snowpack Analysis - June 1, 2000

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	31.0	33.5	30.5	LARAMIE RIVER BASIN	2	19	23
YAMCOLO	9.1	8.5	8.1	7.2	NORTH PLATTE RIVER BASIN	3	49	48
					TOTAL NORTH PLATTE BASIN	5	40	41
					ELK RIVER BASIN	2	0	0
					YAMPA RIVER BASIN	9	34	29
					WHITE RIVER BASIN	4	23	28
					TOTAL YAMPA AND WHITE RIV	12	32	29
					LITTLE SNAKE RIVER BASIN	6	22	34

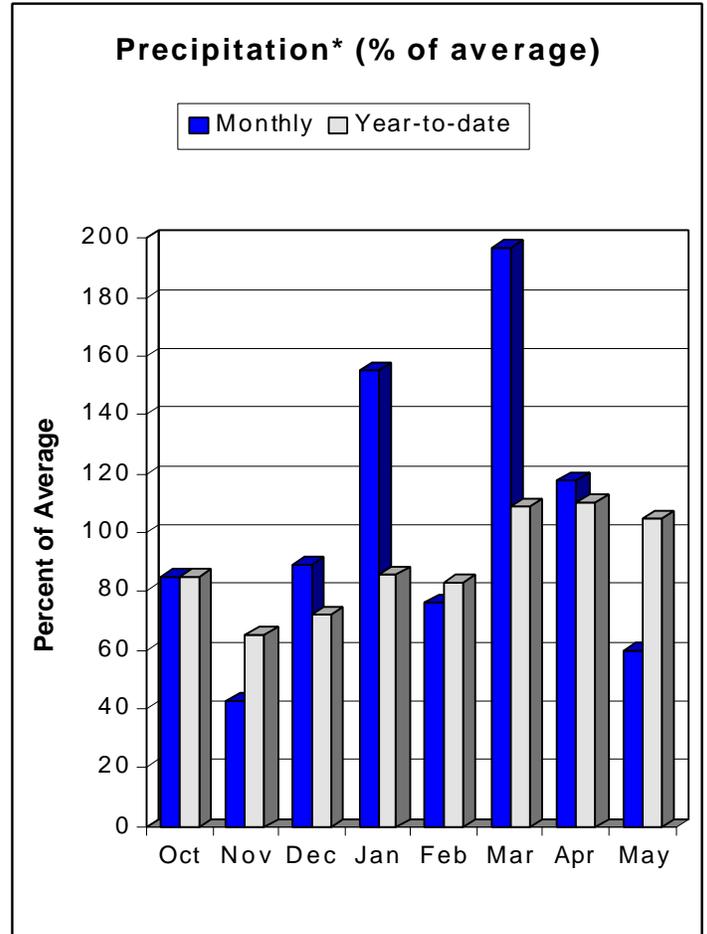
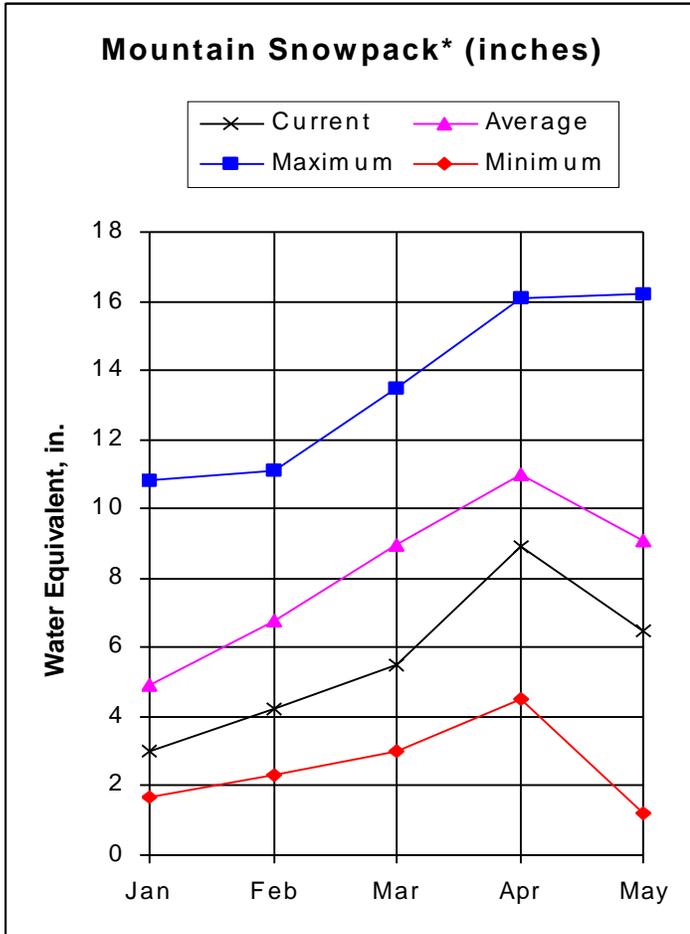
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- (2) - The value is natural volume - actual volume may be affected by upstream water management.

# ARKANSAS RIVER BASIN

## as of June 1, 2000



\*Based on selected stations

The snowpack in the Arkansas Basin is rapidly disappearing. Extremely warm and dry conditions during May have caused the snowpack in the mountains to diminish from 72% of average on May 1, to only 31% of average on June 1. Only two of the five SNOTEL sites in the basin have measurable snow remaining at this time. There is only 24 % of the amount of snow there was last year at this time. Precipitation was 60% of average during May, and the water year total is now 105% of average. The combined reservoir storage in the basin remains in great shape at 255% of average, but this is 10% less than the storage last year at this time when spring storms helped boost the runoff. The Clear Creek Reservoir is the only reported reservoir with below average storage at only 91%. Most of the June 1 streamflow forecasts have gone down from the May 1 forecasts. Forecasts range from only 50% of average flow on Grape Creek near Westcliffe, to 77% of average flow on the Arkansas River at Salida.

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ARKANSAS RIVER BASIN  
Streamflow Forecasts - June 1, 2000

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Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90%		70%		50% (Most Probable)			30%		10%	
		(1000AF)	(1000AF)	(1000AF)	(1000AF)	(1000AF)	(% AVG.)		(1000AF)	(1000AF)	(1000AF)	(1000AF)
Chalk Creek nr Nathrop	APR-SEP	8.0	14.7	19.2	66	24	30	29				
Arkansas River at Salida	APR-SEP	172	207	230	77	253	288	297				
Grape Creek nr Westcliffe	APR-SEP	1.9	6.7	10.0	50	13.3	18.1	20				
Pueblo Reservoir Inflow	APR-SEP	217	267	300	76	333	383	394				
Huerfano River nr Redwing	APR-SEP	6.7	8.4	9.6	64	10.8	12.5	15.0				
Cucharas River nr La Veta	APR-SEP	2.6	5.8	8.0	62	10.2	13.4	13.0				
Trinidad Lake Inflow	APR-SEP	11.3	22	30	70	38	49	43				

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ARKANSAS RIVER BASIN  
Reservoir Storage (1000 AF) - End of May

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Reservoir	Usable Capacity	*** Usable Storage ***		
		This Year	Last Year	Avg
ADOBE	70.0	66.5	71.4	16.7
CLEAR CREEK	11.0	6.2	9.1	6.6
GREAT PLAINS	150.0	144.8	125.8	36.2
HOLBROOK	7.0	5.6	6.2	3.5
HORSE CREEK	28.0	27.6	20.7	5.9
JOHN MARTIN	335.7	296.2	437.6	77.3
LAKE HENRY	8.0	8.3	8.5	4.6
MEREDITH	42.0	34.0	40.0	11.9
PUEBLO	236.7	245.8	257.1	133.9
TRINIDAD	72.3	64.1	59.5	31.1
TURQUOISE	126.6	98.2	69.2	53.3
TWIN LAKES	86.0	61.3	67.0	34.3

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ARKANSAS RIVER BASIN  
Watershed Snowpack Analysis - June 1, 2000

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Watershed	Number of Data Sites	This Year as % of	
		Last Yr	Average
UPPER ARKANSAS BASIN	2	31	36
CUCHARAS & HUERFANO RIVER	2	4	8
PURGATOIRE RIVER BASIN	2	0	0
TOTAL ARKANSAS RIVER BASIN	5	24	31

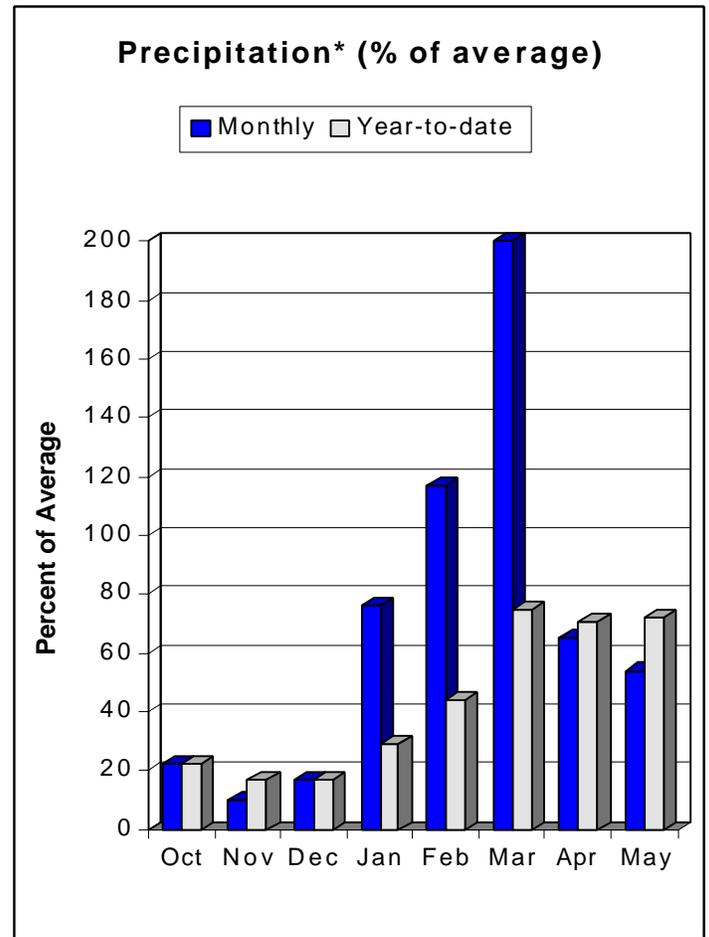
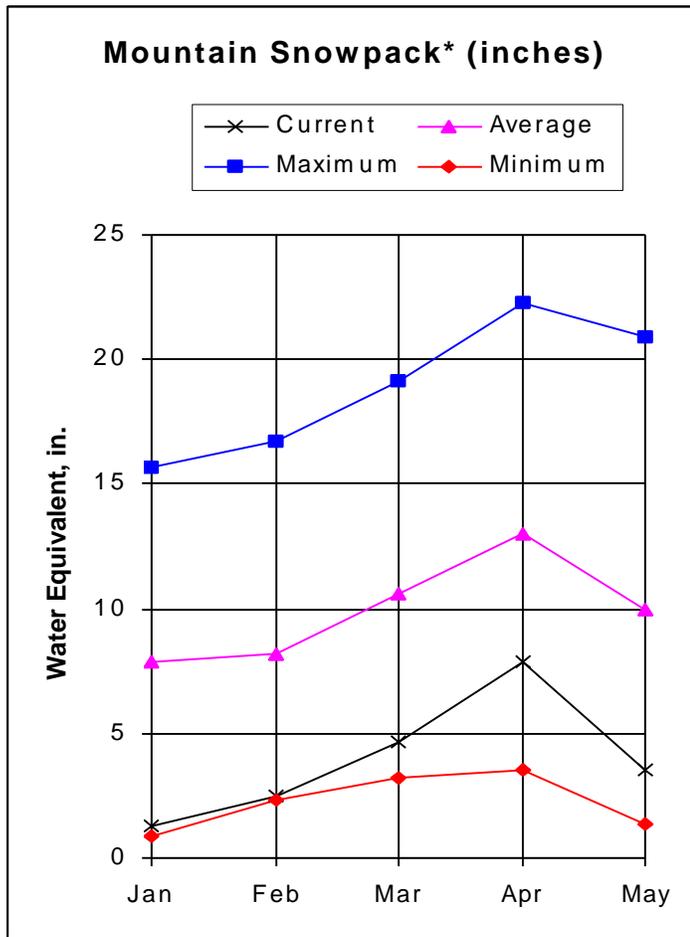
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\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1961-1990 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.

# UPPER RIO GRANDE RIVER BASIN as of June 1, 2000



\*Based on selected stations

The warm dry conditions during May have delivered a swift ending to what can only be described as a miserable snow season in the Rio Grande Basin. Wolf Creek Summit is the only SNOTEL site out of nine in the basin that has measurable snow on June 1. The small amount that is at Wolf Creek ends up representing only 1% of the average June 1 snowpack amount. Last year, late spring snow storms boosted the snowpack amounts to just over average conditions by June 1, but this year was not nearly as fortunate. Precipitation in the basin was only 54% of average during May, and the water year total is only 72% of average. The low runoff this year is beginning to show in the reservoirs. While there is 133% of average storage at this time, it is 4% less than last year at this time, which is the first time this season the storage has fallen behind last year's amount. Streamflow forecasts are nearly the same as last month. Forecasts are highly variable depending on location and range from only 34% of average on the San Antonio River at Ortiz, to 75% of average at Culebra Creek at San Luis.

UPPER RIO GRANDE BASIN  
Streamflow Forecasts - June 1, 2000

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
Rio Grande at Thirty Mile Bridge	APR-SEP	83	88	91	68	95	100	133
Rio Grande Reservoir Inflow	APR-JUL	72	78	82	70	86	93	118
Rio Grande at Wagon Wheel Gap	APR-SEP	181	206	223	68	240	265	330
South Fork Rio Grande at South Fork	APR-SEP	63	70	75	57	80	87	132
Rio Grande nr Del Norte	APR-SEP	256	291	315	61	339	374	520
Saguache Creek nr Saguache	APR-SEP	13.5	20	25	74	30	37	34
Alamosa Creek abv Terrace Reservoir	APR-SEP	22	30	36	52	42	50	69
La Jara Creek nr Capulin	MAR-JUL	1.56	2.24	3.80	44	5.36	7.67	8.60
Trinchera Water Supply	APR-SEP	8.4	15.3	20	67	25	32	30
Platoro Reservoir Inflow	APR-JUL	23	28	32	54	36	41	59
	APR- SEP	26	32	36	55	40	46	65
Conejos River nr Mogote	APR-SEP	80	98	110	55	122	140	201
San Antonio River at Ortiz	APR-SEP	2.7	4.3	5.5	34	6.9	9.3	16.0
Los Pinos River nr Ortiz	APR-SEP	23	29	34	47	39	45	72
Culebra Creek at San Luis	APR-SEP	6.1	11.4	15.0	75	18.6	24	20
Costilla Reservoir Inflow	MAR-JUL	3.54	4.87	5.90	65	7.03	8.86	9.10
Costilla Creek nr Costilla	MAR-JUL	4.9	10.2	13.8	63	17.4	23	22

UPPER RIO GRANDE BASIN  
Reservoir Storage (1000 AF) - End of May

UPPER RIO GRANDE BASIN  
Watershed Snowpack Analysis - June 1, 2000

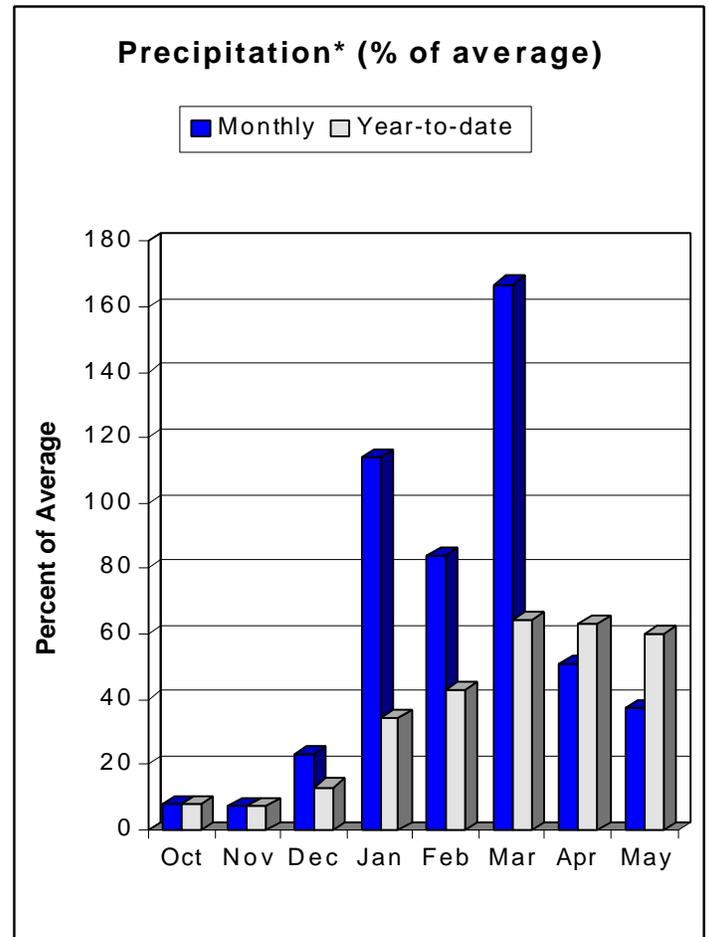
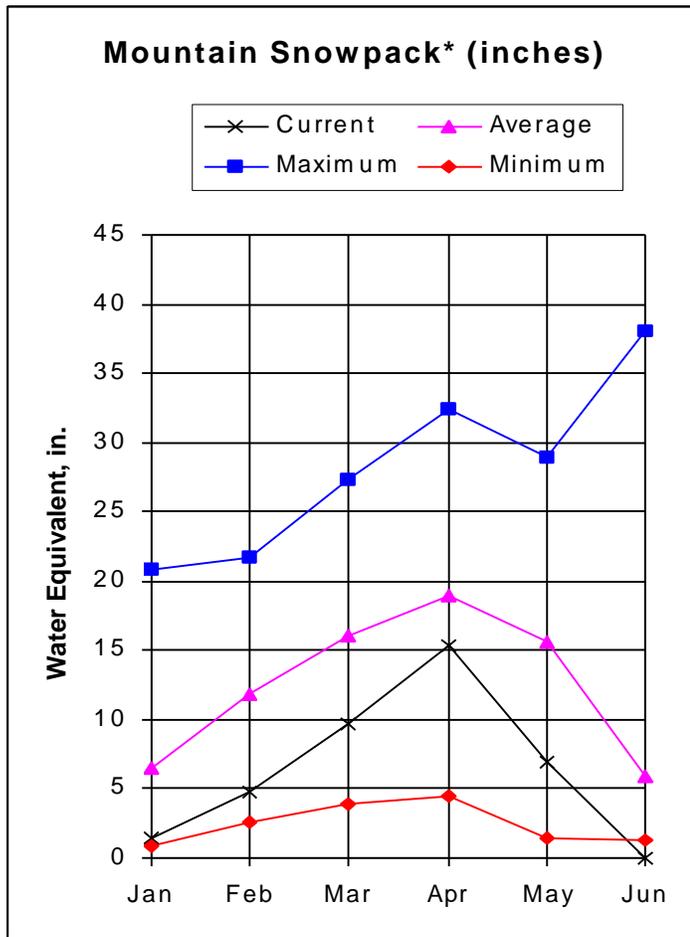
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CONTINENTAL	15.0	6.8	7.0	7.7	ALAMOSA CREEK BASIN	1	0	0
PLATORO	53.7	29.4	23.5	16.7	CONEJOS & RIO SAN ANTONIO	2	0	0
RIO GRANDE	51.0	13.8	32.7	23.5	CULEBRA & TRINCHERA CREEK	2	0	0
SANCHEZ	103.0	42.7	37.7	18.6	UPPER RIO GRANDE BASIN	3	1	1
SANTA MARIA	45.0	10.7	8.1	11.5	TOTAL UPPER RIO GRANDE BA	9	1	1
TERRACE	13.1	10.3	9.3	7.5				

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# SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN RIVER BASINS as of June 1, 2000



\*Based on selected stations

Practically all of the snow in these basins is gone on June 1. Wolf Creek Summit is the only SNOTEL site with measurable snow, and that amount is extremely meager. The snowpack has melted out about 20 days earlier than normal at most of the snow measuring sites. Last year there was a little more than average snowpack amounts in the basin on June 1, thanks to the late spring storms that were not kind enough to show up this year. The lower elevations and valleys received only 37% of average precipitation during May, and the water year total is now only 60% of average. The combined reservoir storage level in these basins is at 109% of average for this time of year, which is nearly the same amount of storage as last year at this time. The streamflow forecasts are extremely variable throughout these basins. All of them are below average and range from only 41% of average on the Rio Blanco at Blanco Diversion, to 90% of average on the San Miguel River near Placerville.

SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN RIVER BASINS  
Streamflow Forecasts - June 1, 2000

Forecast Point	Forecast Period	Future Conditions				Wetter		30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
Dolores R at Dolores	APR-JUL	153	179	200	81	221	251	246
McPhee Reservoir inflow	APR-JUL	170	200	225	80	250	280	283
San Miguel River nr Placerville	APR-JUL	83	99	110	90	121	137	122
Gurley Reservoir Intake	JUN-JUL	3.18	4.26	5.00	68	5.74	6.82	7.40
	JUNE			4.30	75			5.76
	JULY			0.70	43			1.64
Cone Reservoir Intake	JUN-JUL	0.48	0.65	0.80	71	0.98	1.33	1.13
	JUNE			0.70	77			0.91
	JULY			0.10	46			0.22
Lilylands Reservoir Intake	JUN-JUL	0.29	0.54	0.70	53	0.86	1.11	1.31
	JUNE			0.60	56			1.07
	JULY			0.10	42			0.24
Rio Blanco at Blanco Diversion	APR-JUL	9.1	16.8	22	41	27	35	54
Navajo River at Oso Diversion	APR-JUL	10.4	20	27	42	34	44	65
San Juan River nr Carracus	APR-JUL	117	158	190	50	225	281	382
Piedra River nr Arboles	APR-JUL	99	114	125	57	136	151	219
Vallecito Reservoir Inflow	APR-JUL	115	124	130	66	136	145	196
Navajo Reservoir Inflow	APR-JUL	219	309	370	48	431	521	772
Animas River at Durango	APR-JUL	209	263	300	72	337	391	418
Lemon Reservoir Inflow	APR-JUL	24	32	37	65	42	50	57
La Plata River at Hesperus	APR-JUL	8.1	11.6	14.0	58	16.4	19.9	24
Mancos River nr Mancos	APR-JUL	9.7	18.2	24	60	30	38	40
	JUNE			7.0	51			13.7
	JULY			2.00	44			4.60

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

SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN RIVER BASINS  
Watershed Snowpack Analysis - June 1, 2000

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GROUNDHOG	21.7	20.4	21.7	18.4	ANIMAS RIVER BASIN	7	0	0
JACKSON GULCH	10.0	9.9	10.0	9.1	DOLORES RIVER BASIN	4	0	0
LEMON	40.0	39.4	32.0	28.9	SAN MIGUEL RIVER BASIN	3	0	0
MCPHEE	381.2	363.0	374.6	361.0	SAN JUAN RIVER BASIN	3	1	1
NARRAGUINNEP	19.0	18.4	14.7	18.0	TOTAL SAN MIGUEL, DOLORES	16	0	0
VALLECITO	126.0	121.2	111.3	89.5	AN JUAN RIVER BASINS			

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