

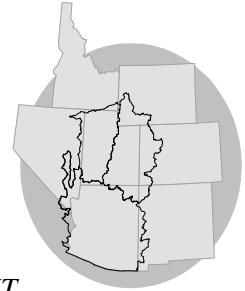
# WATER SUPPLY OUTLOOK

for the

## UPPER COLORADO

**COLORADO BASIN  
RIVER FORECAST CENTER**

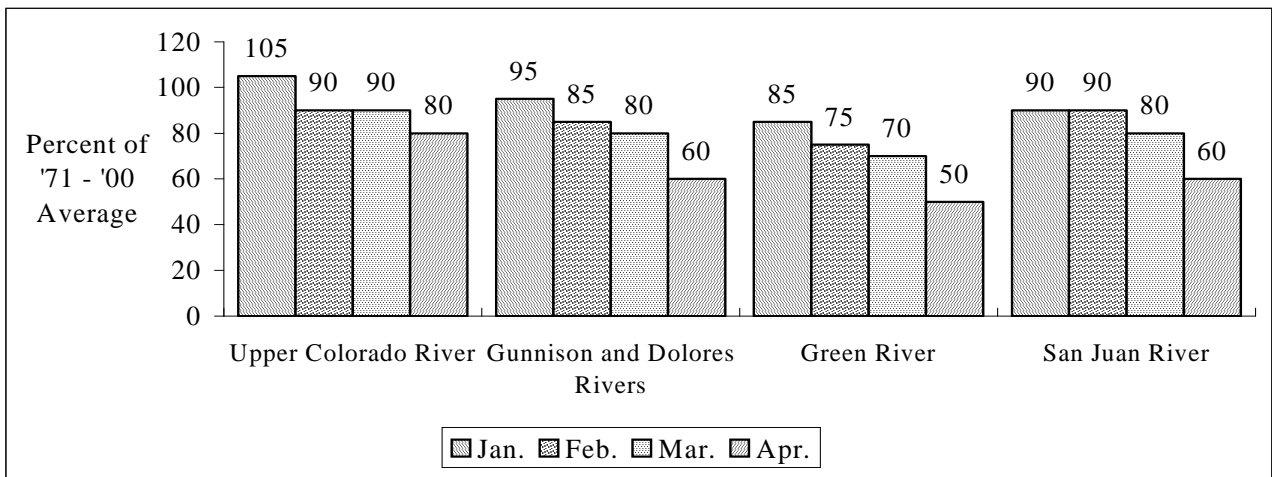
NATIONAL WEATHER SERVICE, SALT LAKE CITY, UT



### APRIL 1, 2007

Both maximum and minimum temperatures were above average in March which resulted in melt of low and middle elevation snow. This created some of the highest March flows in the last 35 years. March precipitation was below to much below average and thus snowpack accumulation was below average. This combination of events led many April through July 2007 runoff forecasts to drop as much as 15% to 25 % of average when compared to those issued March 1st.

## APRIL - JULY VOLUME FORECASTS

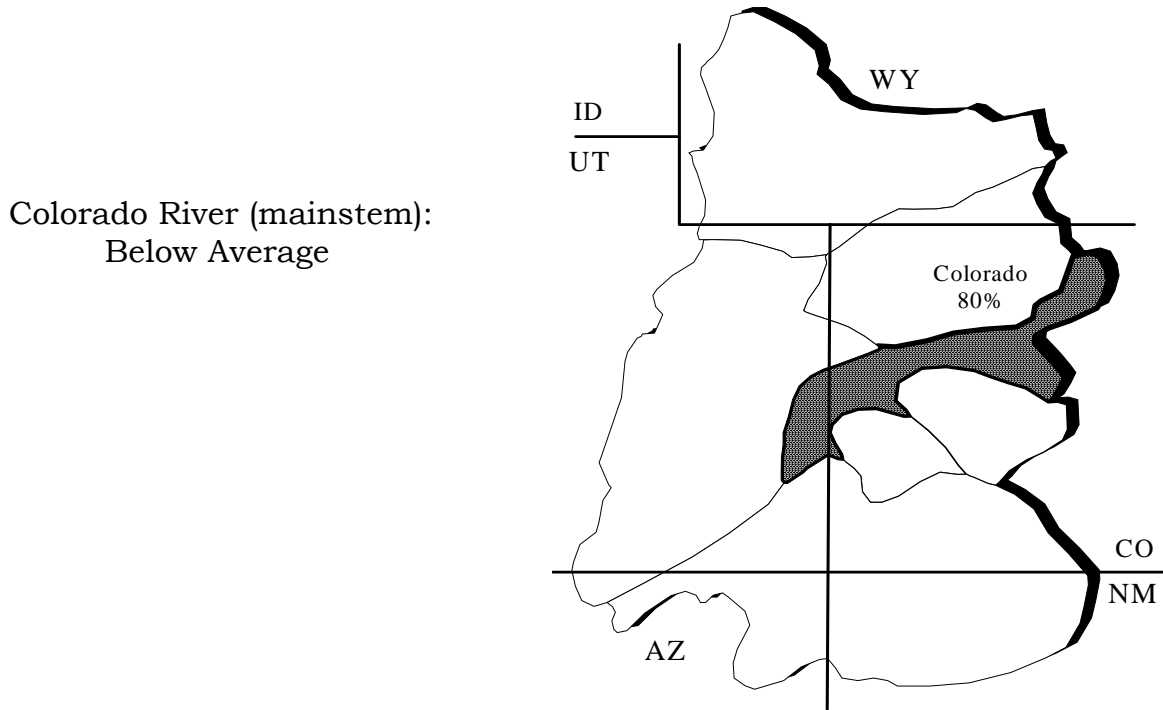


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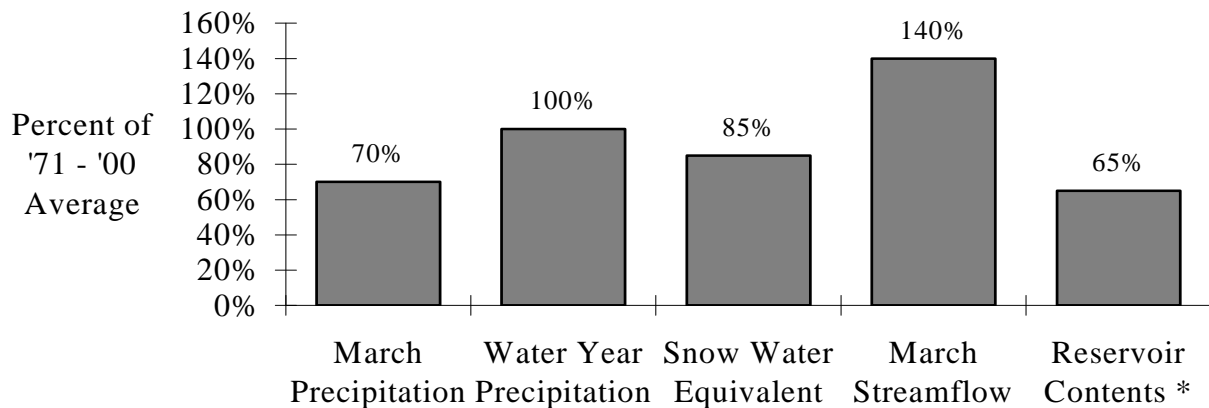
## UPPER COLORADO MAINSTEM

March precipitation was below to much below average and temperatures were above average. This led to a 15% decrease in the overall snowpack when compared to March 1st. This also caused some of the highest March flows in the last 35 years. Runoff forecasts were decreased accordingly and now range from 39% to 90% of average.

April-July streamflow forecasts for the Upper Colorado Mainstem are as follows:



## BASIN CONDITIONS - APRIL 1, 2007



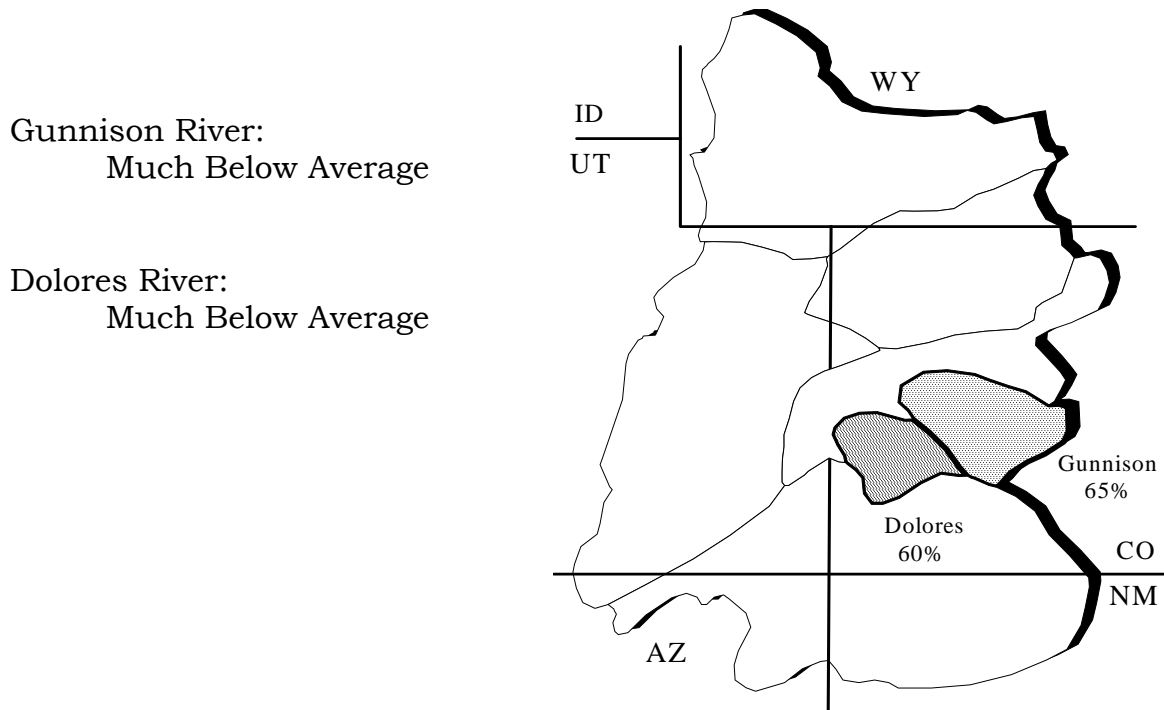
\* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 6.

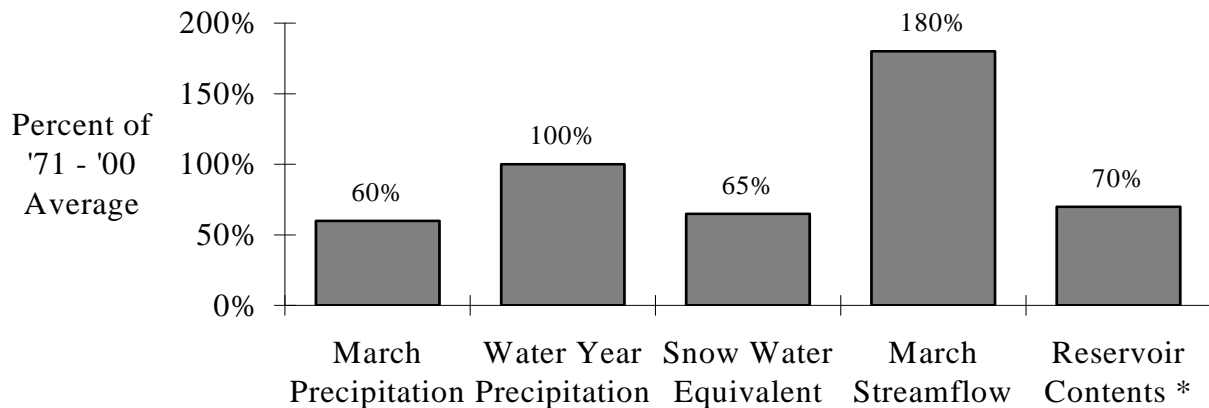
## GUNNISON AND DOLORES RIVERS

Warm temperatures and much below average March precipitation caused snow water equivalent values across the basins to drop from 85% of average on March 1st to 65% of average on April 1st. This resulted in record natural flow volumes for March at many points in the basins. April through July runoff volume forecasts now range between 47% and 79% of average.

April-July streamflow forecasts for the Gunnison and Dolores Rivers are as follows:



## BASIN CONDITIONS - APRIL 1, 2007



\* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 7.

# GREEN RIVER

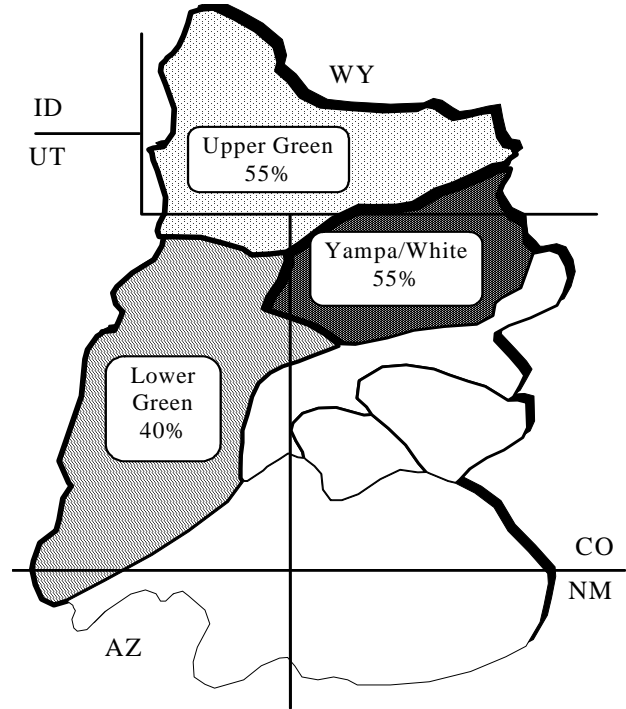
Above average temperatures in March created above average streamflows for much of the basin. This combined with below average precipitation in March to further deplete the snowpack . While the entire basin is expected to receive below average runoff , portions of the Uinta Basin and Wasatch Plateau are forecast to receive only 15% to 35% of average runoff.

April-July streamflow forecasts for the Green River are as follows:

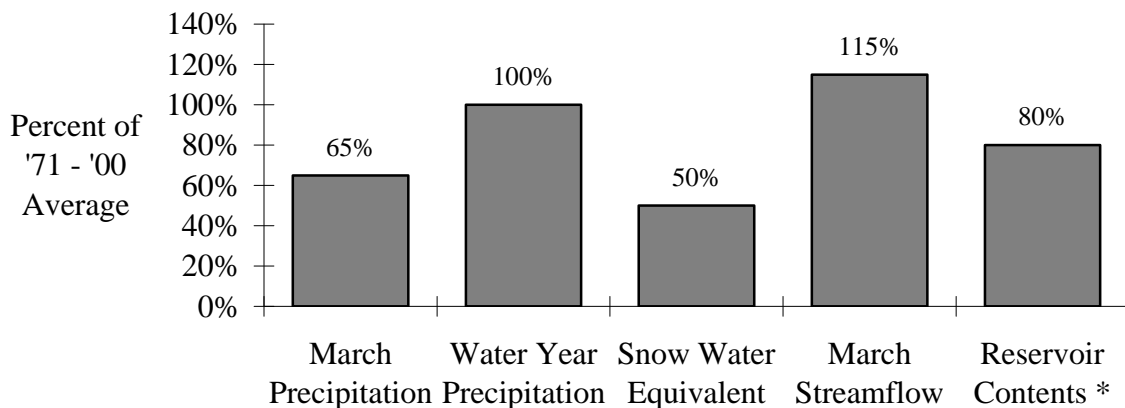
Upper Green River:  
Much Below Average

Yampa/White Rivers:  
Much Below Average

Lower Green River  
(below Flaming Gorge):  
Much Below Average



## BASIN CONDITIONS - APRIL 1, 2007



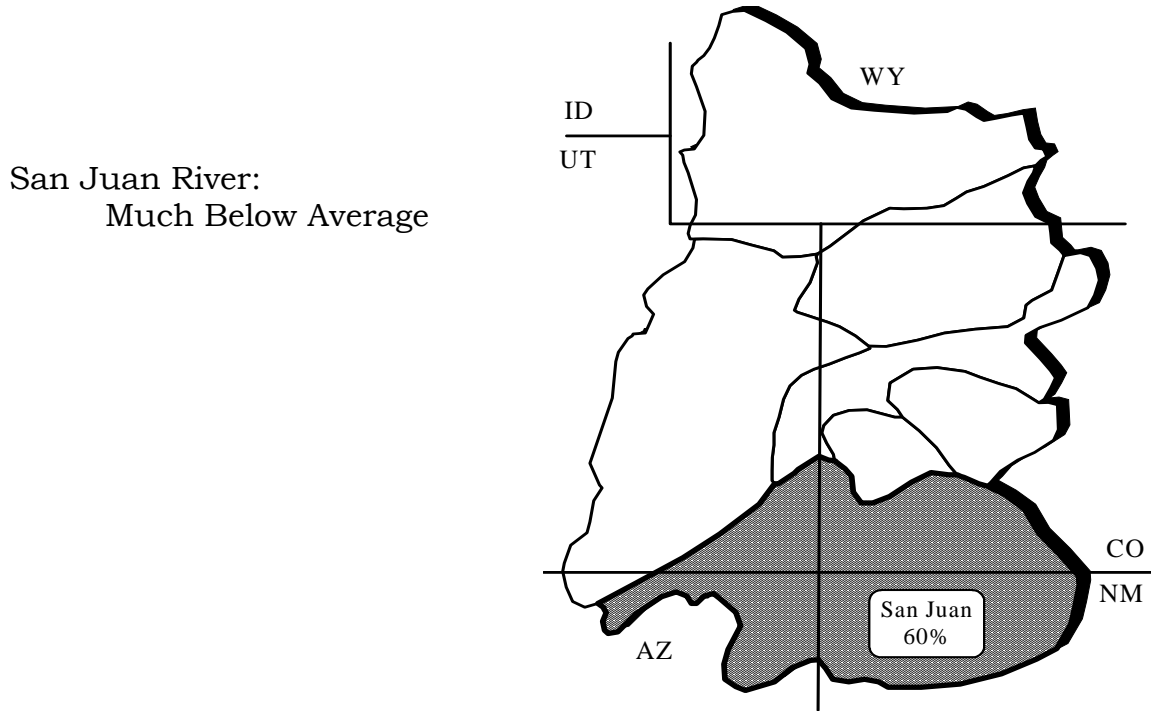
\* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 8.

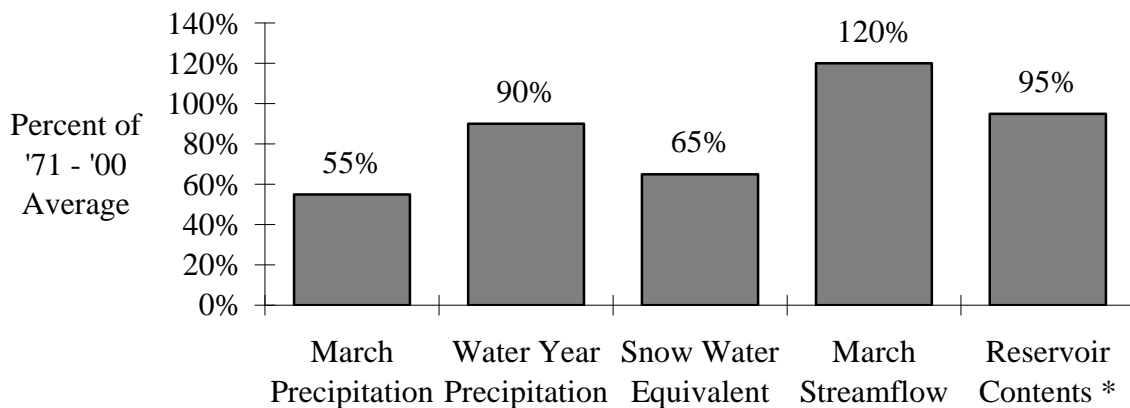
# SAN JUAN RIVER

March precipitation was much below average and temperatures were above normal. The San Juan basin, too, observed near record March flows. The overall snowpack is now much below average. April through July runoff forecasts decreased from those issued March 1st and now range from 11% to 72% of average.

April-July streamflow forecasts for the San Juan Basin are as follows:



## BASIN CONDITIONS - APRIL 1, 2007



\* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 10.

## SPECIFIC SITE FORECASTS

**Upper Colorado Mainstem:** April through July volume (kaf) forecasts (except where noted).

Stream	Station	Most Probable	Percent Avg.	Reas. Max	Reas. Min
COLORADO	LAKE GRANBY, GRANBY, NR	195	87	240	153
	DOTSERO, NR	1200	83	1520	915
	GLENWOOD SPRINGS, BLO	1750	81	2340	1160
	CAMEO, NR	1900	79	2610	1190
	CISCO, NR	3150	68	5120	1190
WILLOW CK	WILLOW CK RES, GRANBY, NR	42	82	57	30
FRASER	WINTER PARK	17	85	22	11.7
WILLIAMS FORK	WILLIAMS FORK RES, PARSHALL, N	78	82	99	60
MUDDY CK	WOLFORD MTN RES, BLO	35	58	53	22
BLUE	DILLON RES	150	90	190	116
	GREEN MTN RES	250	89	315	194
EAGLE	GYPSUM, BLO	270	81	350	199
FRYING PAN	RUEDI RES, BASALT, NR	105	74	134	80
ROARING FORK	GLENWOOD SPRINGS	525	74	675	395
PLATEAU CK	CAMEO, NR	45	39	125	10
MILL CK	MOAB, NR, SHELEY TUN, AT	1.6	32	2.5	1.15

For more detailed information about each forecast, visit [www.wrh.noaa.gov/cbrfc/westernwater](http://www.wrh.noaa.gov/cbrfc/westernwater)

## SPECIFIC SITE FORECASTS

**Gunnison and Dolores Basins:** April through July volume (kaf) forecasts (except where noted).

Stream	Station	Most Probable	Percent Avg.	Reas. Max	Reas. Min
TAYLOR	TAYLOR PARK RES	70	68	88	54
	ALMONT	95	58	138	65
EAST	ALMONT	125	65	158	96
GUNNISON	GUNNISON, NR	240	62	310	178
TOMICHI CK	GUNNISON	40	49	66	22
LAKE FORK	GATEVIEW	100	79	127	76
GUNNISON	MORROW POINT RES	500	64	660	370
	CRYSTAL RES	570	62	790	390
MUDDY CK	★ PAONIA RES, BARDINE, NR	65	65	93	45
NF GUNNISON	SOMERSET, NR	185	61	250	132
SURFACE CK	CEDAREEDGE	8.8	51	12.5	5.9
UNCOMPAHGRE	RIDGWAY RES	74	73	95	51
	COLONA	90	65	139	54
	DELTA	65	56	133	35
GUNNISON	GRAND JUNCTION, NR	950	61	1540	360
DOLORES	DOLORES	155	58	220	104
	MCPHEE RES	175	55	250	116
	CISCO, NR	290	47	480	100
SAN MIGUEL	PLACERVILLE, NR	86	65	121	58

★ = March - June forecast period.

For more detailed information about each forecast, visit [www.wrh.noaa.gov/cbrfc/westernwater](http://www.wrh.noaa.gov/cbrfc/westernwater)

**Green River Basin:** April through July volume (kaf) forecasts (except where noted).

Stream	Station	Most Probable	Percent Avg.	Reas. Max	Reas. Min
GREEN	DANIEL, NR, WARREN BRIDGE, AT	170	64	210	135
	GREEN RIVER, WY, NR	375	43	570	220
	GREEN RIVER, UT	1400	44	2510	540
PINE CK	FREMONT LK, ABV	70	67	83	58
NEW FORK	BIG PINEY, NR	210	53	300	138
BIG SANDY	FARSON, NR	35	60	49	24
BLACKS FORK	ROBERTSON, NR	65	68	90	44
EF SMITHS FORK	ROBERTSON, NR	20	65	30	11.9
HAMS FORK	FRONTIER, NR, POLE CK, BLO	34	52	50	21
	VIVA NAUGHTON RES	45	51	68	27
YAMPA	STAGECOACH RSVR, ABV	17	59	29	9.1
	STEAMBOAT SPRINGS	170	61	230	118
	MAYBELL, NR	570	58	810	375
ELK	MILNER, NR	210	65	285	147
ELKHEAD CK	ELKHEAD, NR	23	59	36	12.7
	MAYNARD GULCH, BLO	35	59	55	15
FORTIFICATION CK	★ FORTIFICATION, NR	2.9	39	6.5	0.95
LITTLE SNAKE	SLATER, NR	84	53	119	55
	DIXON, NR	170	52	275	90
	LILY, NR	185	51	300	97

★= March - June forecast period.

For more detailed information about each forecast, visit [www.wrh.noaa.gov/cbrfc/westernwater](http://www.wrh.noaa.gov/cbrfc/westernwater)



**Green River Basin continued:** April through July volume (kaf) forecasts (except where noted).

Stream	Station	Most Probable	Percent Avg.	Reas. Max	Reas. Min
BIG BRUSH CK	VERNAL, NR, RED FLEET RES, ABV	14.3	68	22	8.5
ASHLEY CK	VERNAL, NR	30	58	45	17.8
WF DUCHESNE	HANNA, NR	10	42	16.4	5.2
ROCK CK	UPPER STILLWATER RES	45	55	60	33
	MOUNTAIN HOME, NR	50	56	68	35
DUCHESNE	TABIONA, NR	40	38	63	22
	DUCHESNE, NR, KNIGHT DIV, ABV	86	46	125	54
	MYTON	70	26	157	18
	RANDLETT, NR	80	25	190	17
STRAWBERRY	SOLDIER SPRINGS, NR	11.5	19	27	2.5
	DUCHESNE, NR	20	16	48	6
CURRENT CK	CURRENT CK RES	7	28	18.5	2.5
LAKE FORK	MOON LAKE RES, MTN HOME, NR	38	56	52	26
YELLOWSTONE	ALTONAH, NR	36	58	52	23
WHITEROCKS	WHITEROCKS, NR	32	57	50	17.9
WHITE	MEEKER, NR	175	60	240	119
	WATSON, NR	185	61	245	125
GOOSEBERRY CK	SCOFIELD, NR	4.5	38	7.1	2.5
PRICE	SCOFIELD RES, SCOFIELD, NR	16	35	34	4.5
WHITE	BLO TABBYUNE CK, SOLDIER SUMMI	3.9	22	7.6	1.4
HUNTINGTON CK	ELECTRIC LAKE	5	32	8.3	2.5
	HUNTINGTON, NR	16	33	36	2.5
SEELEY CK	JOES VLY RES, ORANGEVILLE, NR	22	38	36	12.8
FERRON CK	FERRON, NR	15.5	40	23	9.4
SEVEN MILE CK	FISH LAKE, NR	3.5	50	5.4	2.5
MUDDY CK	EMERY, NR	7.2	36	11.5	3.9

For more detailed information about each forecast, visit [www.wrh.noaa.gov/cbrfc/westernwater](http://www.wrh.noaa.gov/cbrfc/westernwater)

**San Juan River Basin:** April through July volume (kaf) forecasts (except where noted).

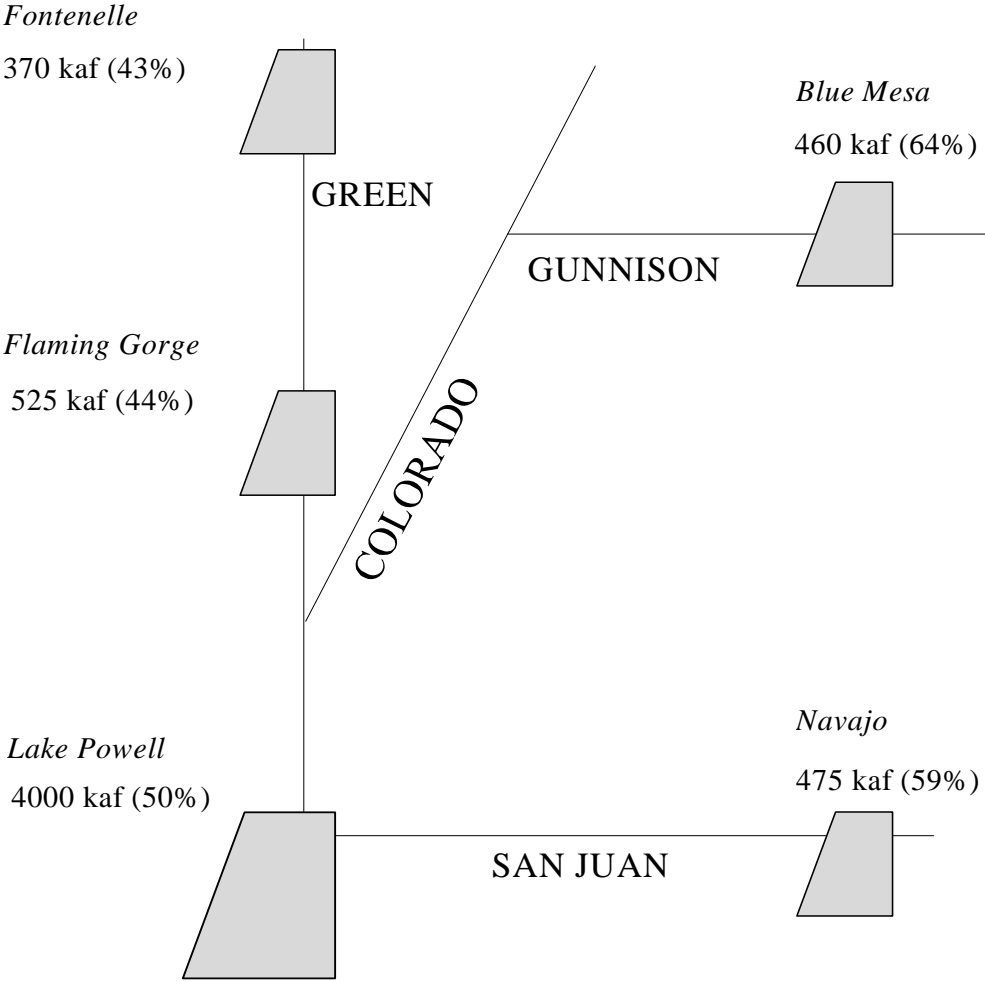
Stream	Station	Most Probable	Percent Avg.	Reas. Max	Reas. Min
SAN JUAN	PAGOSA SPRINGS	155	69	215	94
	CARRACAS, NR	270	67	365	193
	FARMINGTON	720	60	1140	295
	BLUFF, NR	680	55	1050	320
RIO BLANCO	PAGOSA SPRINGS, NR, BLANCO DAM	38	72	51	27
NAVAJO	CHROMO, NR, OSO DIV DAM, BLO	45	65	62	32
PIEDRA	ARBOLES, NR	135	59	188	93
LOS PINOS	VALLECITO RES, BAYFIELD, NR	130	63	171	96
ANIMAS	DURANGO	300	68	390	225
FLORIDA	LEMON RES, DURANGO, NR	34	59	46	24
LA PLATA	HESPERUS	15	60	21	10.2
MANCOS	MANCOS, NR	23	58	41	5.4
SOUTH CK	★ LLOYD'S RSVR NR MONTICELLO, AB	0.12	9	0.42	0.01
RECAPTURE CK	★ BLANDING, NR, JOHNSON CK, BLO	0.7	11	2.1	0.12

★ = March - July forecast period.

For more detailed information about each forecast, visit [www.wrh.noaa.gov/cbrfc/westernwater](http://www.wrh.noaa.gov/cbrfc/westernwater)

# FLOOD CONTROL FORECASTS

**MOST PROBABLE FORECASTS**  
**2007 APRIL - JULY INFLOW VOLUMES**  
 (% OF '71 - '00 AVERAGE)

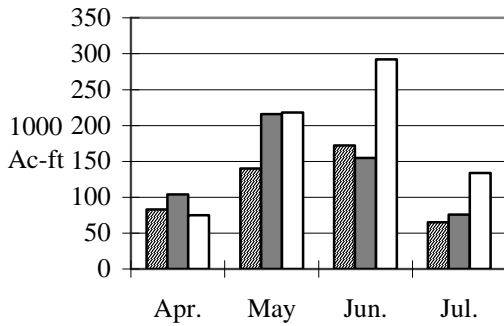


NOTE: Colorado River flood control forecasts account for a smaller set of upstream adjustments than water supply forecast points.

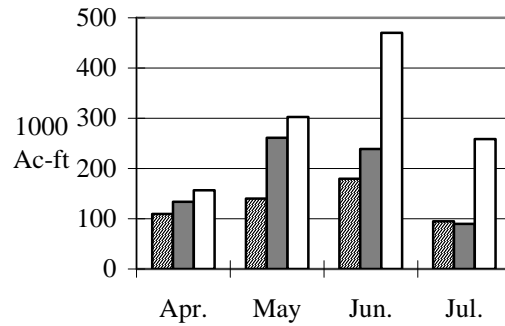
# RESERVOIR MONTHLY INFLOW FORECASTS



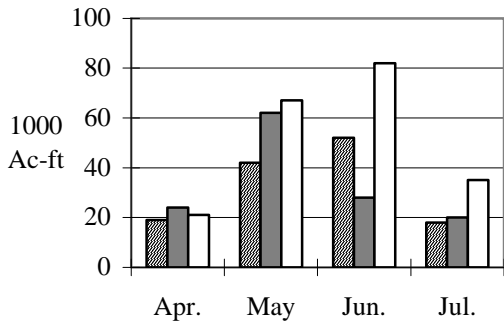
**Blue Mesa Reservoir Inflow**



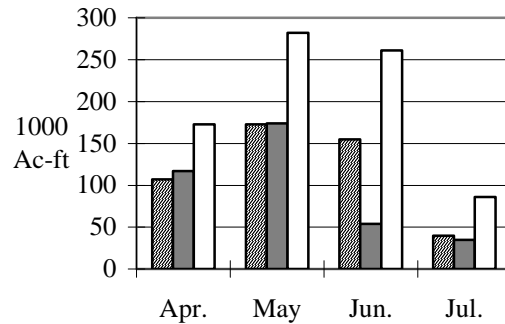
**Flaming Gorge Reservoir Inflow**



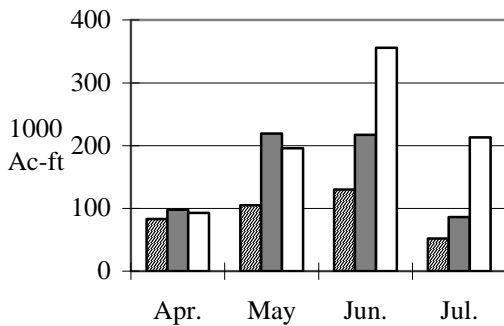
**Vallecito Reservoir Inflow**



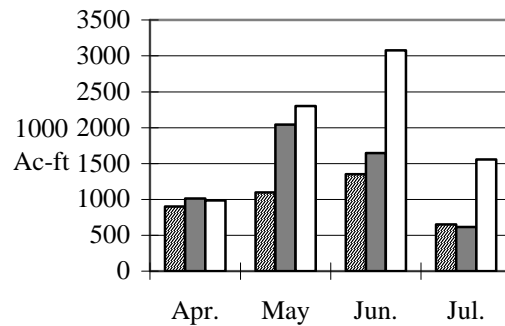
**Navajo Reservoir Inflow**



**Fontenelle Reservoir Inflow**

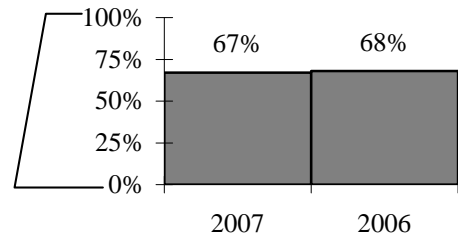
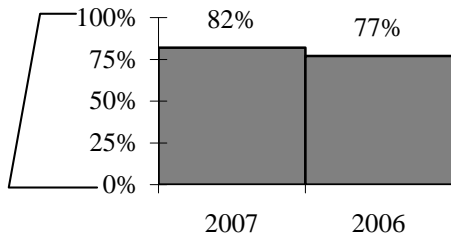


**Lake Powell Inflow**

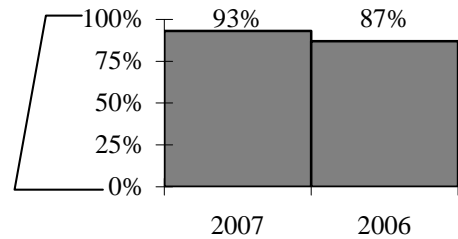
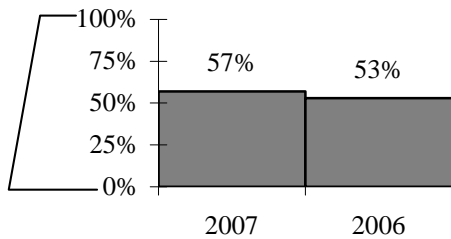


# END OF MONTH RESERVOIR CONTENTS

## Percent of Usable Capacity



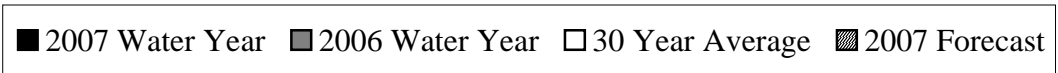
Green  
 Combined  
 Upper Colorado, Gunnison, and Dolores  
 San Juan



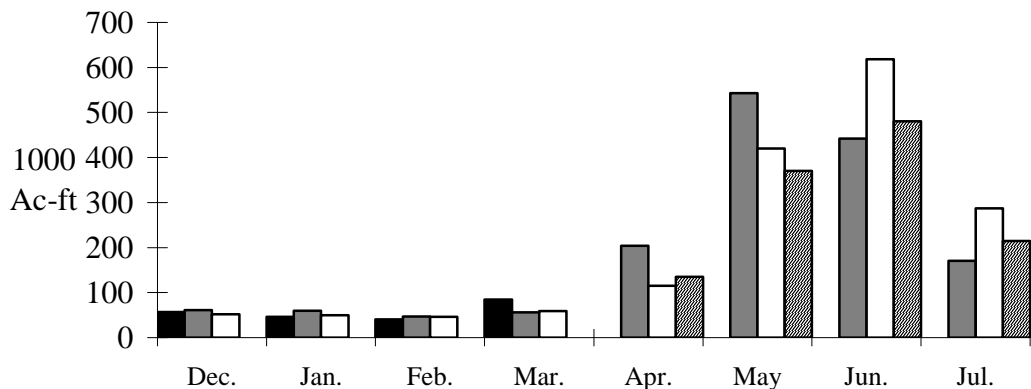
RESERVOIR (vol. in 1000 ac-ft)	Reservoir status	Usable Capacity	EOM Usable Contents	Percent Usable Capacity
Fontenelle	1,4	344.8	133	39
Flaming Gorge	1,4	3749	3167.2	84
Strawberry	1,4	1105.9	931.9	84
Starvation	1,4	165.3	161.4	98
Lake Granby	2,4	490.3	240.9	49
Dillon	2,4	254	243	96
Green Mountain	2,4	146.9	72.4	49
Taylor Park	2,4	106.2	79.3	75
Blue Mesa	2,4	829.5	513.4	62
Ridgway	2,4	83.2	79.6	96
McPhee	2,4	381.1	307	81
Vallecito	3,4	125.4	85.9	69
Navajo	3,4	1696	1602.6	94
Lake Powell	4	24322	11636.9	48

- 1 = Green River reservoir status
- 2 = Upper Colorado River reservoir status
- 3 = San Juan River reservoir status
- 4 = Combined reservoir status

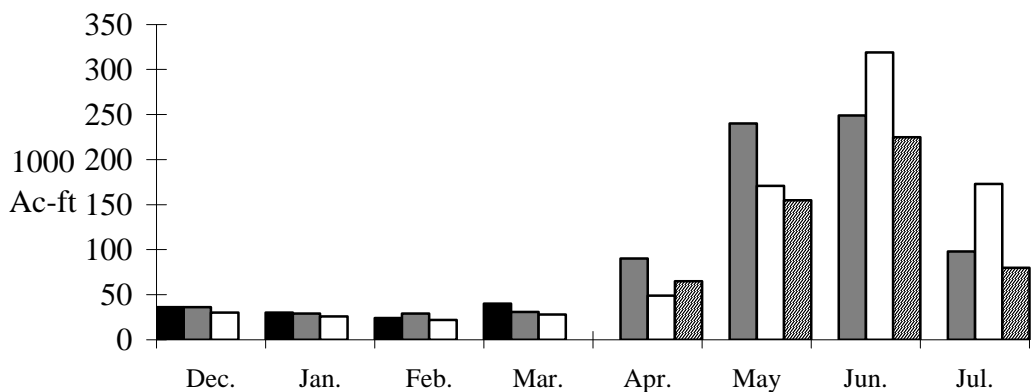
# MONTHLY STREAMFLOWS



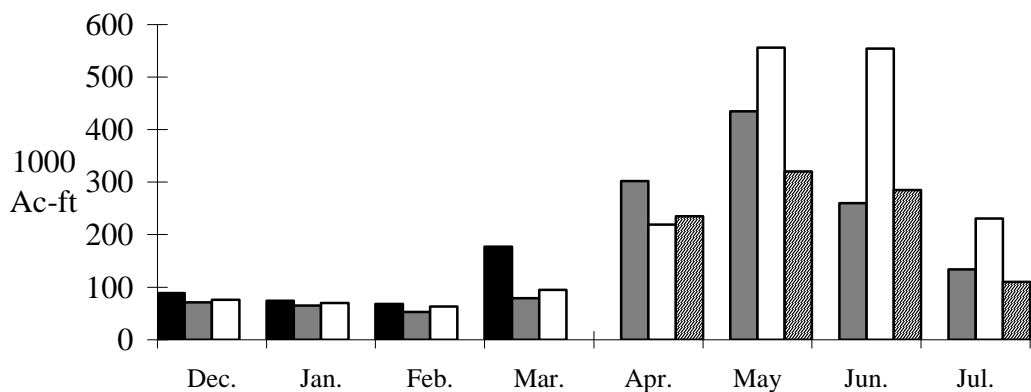
## Colorado - Dotsero, nr:



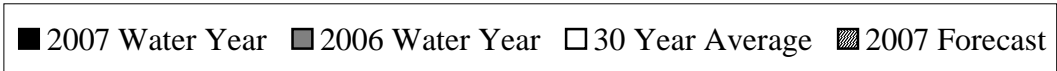
## Roaring Fork - Glenwood Springs:



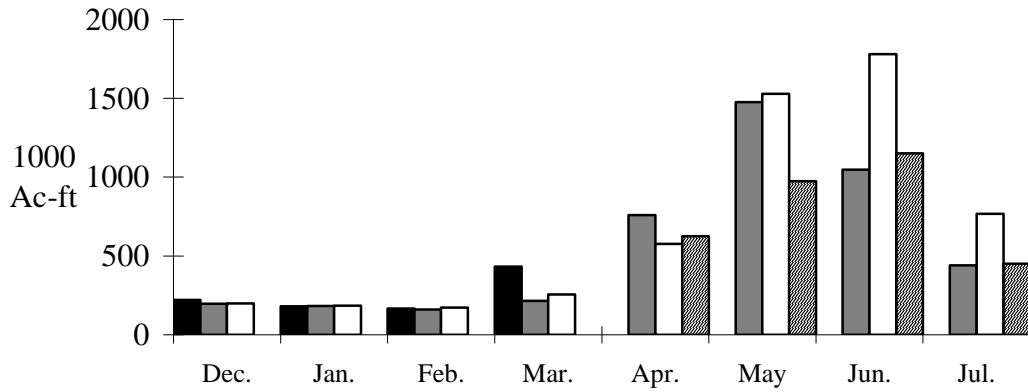
## Gunnison - Grand Junction, nr:



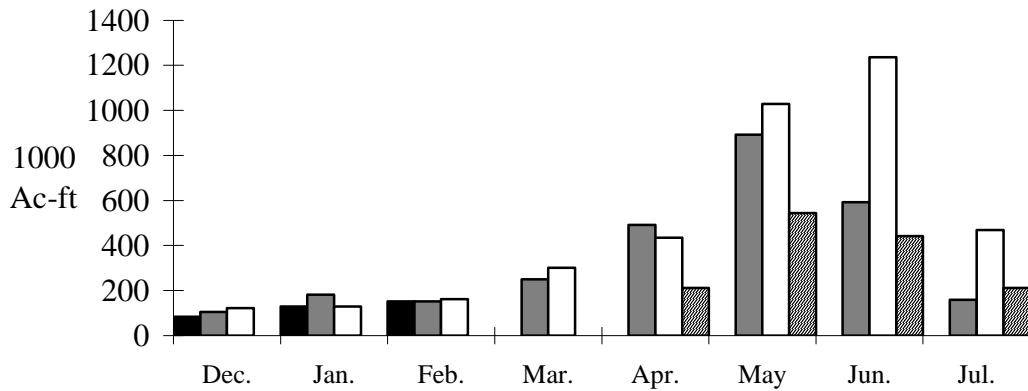
\* Data Not Available



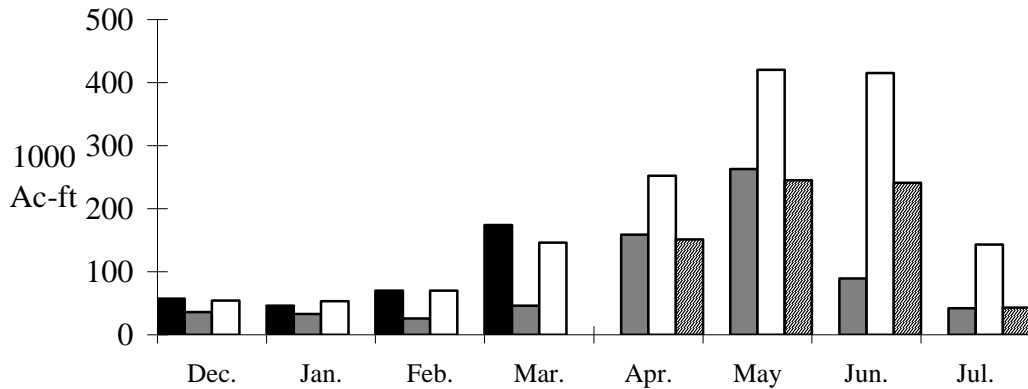
**Colorado - Cisco, nr:**



**Green - Green River, UT:**



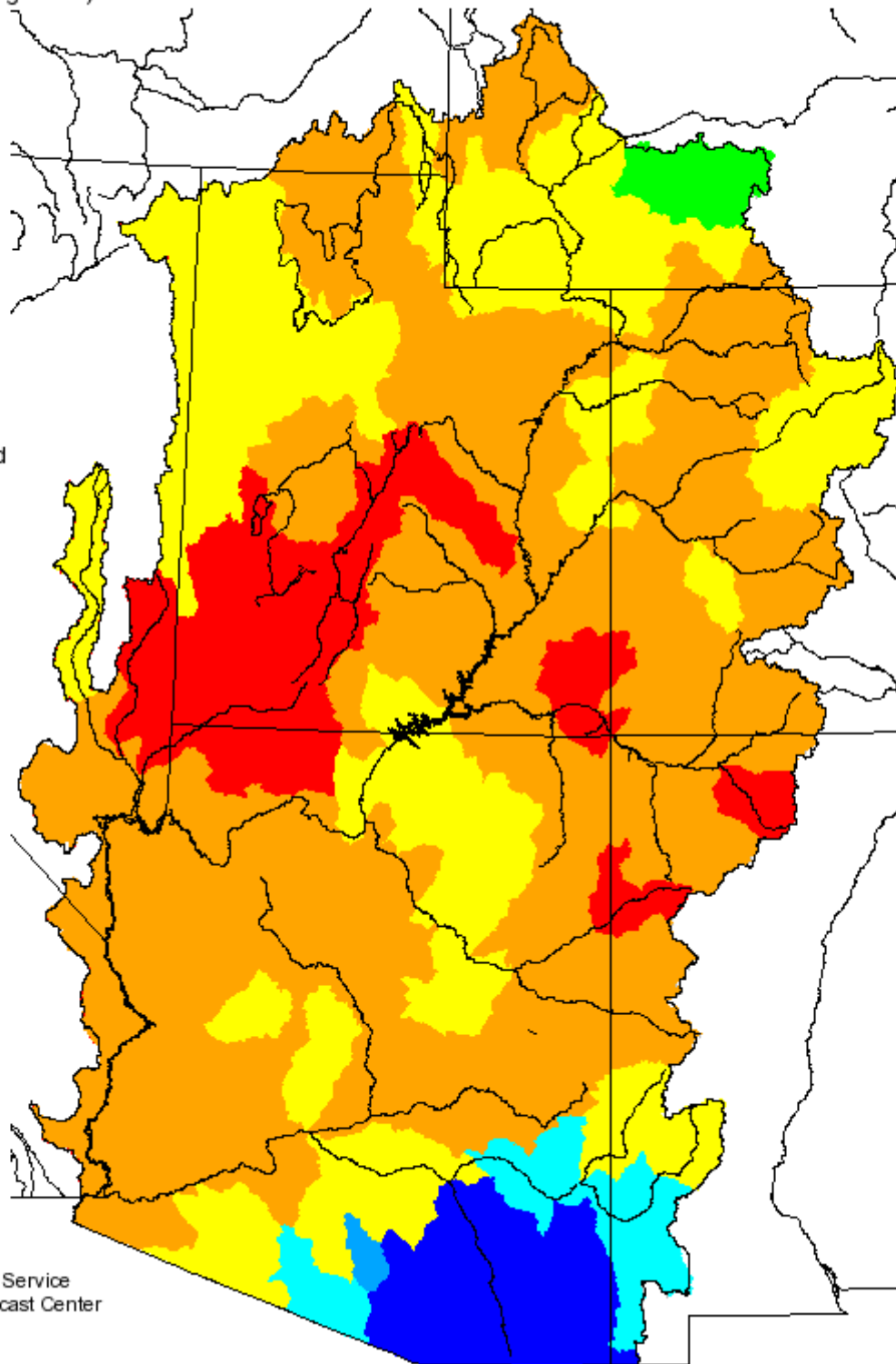
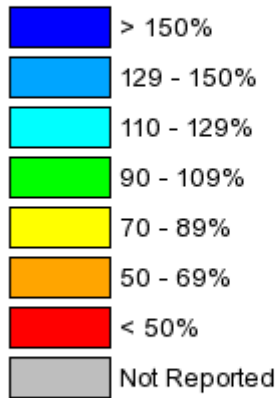
**San Juan - Bluff, nr:**



# Monthly Precipitation for March 2007

(Averaged by Hydrologic Unit)

## % Average



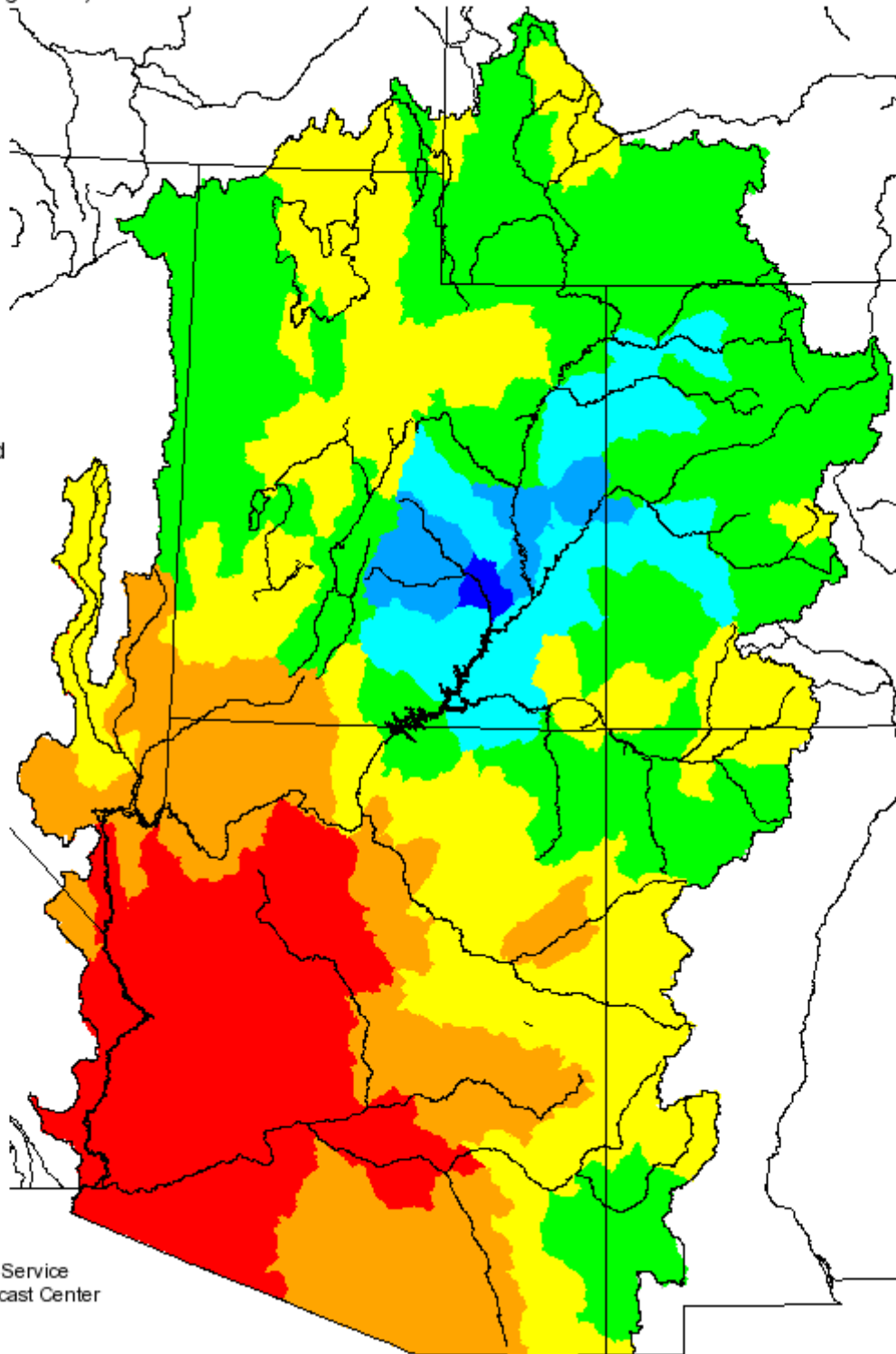
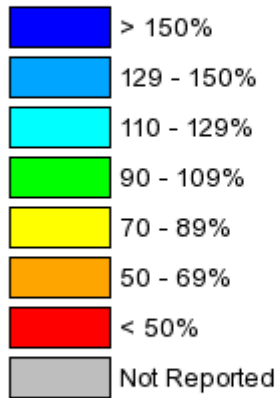
Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)



# Seasonal Precipitation, October 2006 - March 2007

(Averaged by Hydrologic Unit)

## % Average



Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)

## ADDITIONAL INFORMATION

Water supply forecasts take into consideration present hydrometeorological conditions and use average basin temperatures and precipitation for the forecast period. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty becomes known and monthly forecasts become more accurate.

Volume forecasts represent adjusted flows; that is, observed flows with upstream water use taken into account. Adjusted flows will closely approximate natural or unimpaired flows. However, not all upstream diversions or impoundments are measured or quantifiable. For specific adjustments used with each forecast point, consult the Guide to Water Supply Forecasting.

The Water Supply Outlook is issued monthly January through May by the Colorado Basin River Forecast Center, National Weather Service. It represents a coordinated effort between the National Weather Service, Natural Resources Conservation Service, Bureau of Reclamation, U.S. Geological Survey and local water district managers.

### **DEFINITIONS:**

Acre-Foot:

The volume equal to one acre covered one foot deep (43,560 cubic feet).

Average:

The arithmetic mean. The sum of the values divided by the number of values.

Categories:

Much above Average Greater than 130%	Above Average 111-130%	Near Average 90-110%	Below Average 70-89%	Much Below Average- Less than 70%
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Forecast Period:

The period from April 1 through July 31.

Median:

The middle value. One half of the observed values are higher and half of the values are lower than this.

Most Probable Forecast:

Given the current hydrometeorological conditions to date, this is the best estimate of what the runoff volume will be this season.

Reasonable Maximum Forecast:

Given the current hydrometeorological conditions, the seasonal runoff that has a ten percent (10%) chance of being exceeded.

Reasonable Minimum Forecast:

Given the current hydrometeorological conditions, the seasonal runoff that has a ninety percent (90%) chance of being exceeded.

Water Year:

The period from October 1 through September 30.

NOTE: Data used in this report are provisional and are subject to revision.

For more information, or to be included on the mailing list, please contact:

Colorado Basin River Forecast Center, National Weather Service  
2442 West North Temple, Salt Lake City, UT 84116