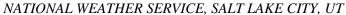


# WATER SUPPLY OUTLOOK for the

# UPPER COLORADO

### COLORADO BASIN RIVER FORECAST CENTER

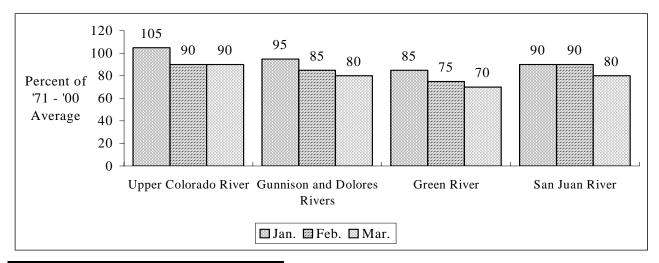




# MARCH 1, 2007

February precipitation varied widely over the basin. The Yampa/White basins received above average precipitation. The Upper Colorado, Gunnison and Green basins were near average, with below to much below average over the San Juan basin. Forecasts for the April through July 2007 runoff were adjusted accordingly with increases over the Yampa/White basins, decreases in the San Juan basin and little change elsewhere.

# **APRIL - JULY VOLUME FORECASTS**

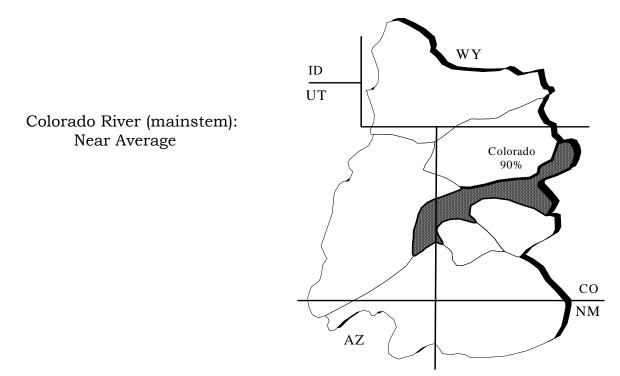


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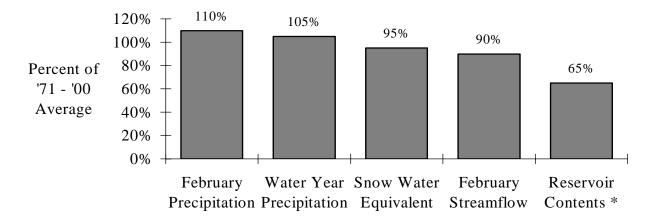
#### UPPER COLORADO MAINSTEM

February precipitation was near average over the basin. Therefore, April through July runoff forecasts changed little from those issued February 1st and now range from 65% to 100% of average.

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



# Basin Conditions - March 1, 2007



<sup>\*</sup> Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 6.

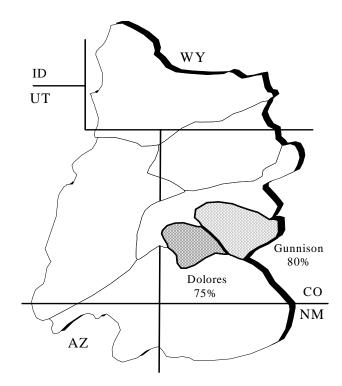
#### GUNNISON AND DOLORES RIVERS

Precipitation was near average for the month of February, but snow water equivalent values actually rose about 5% from February 1. However, the April through July streamflow forecasts dropped 5%, on average, along the upper Gunnison River due to the distribution of snowpack. Forecasts now range between 70% and 95% of average.

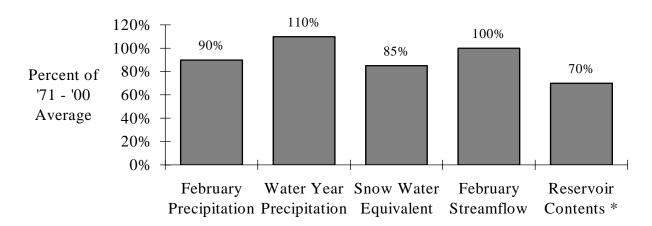
April-July streamflow forecasts for the Gunnison and Dolores Rivers are as follows:

Gunnison River: Below Average

Dolores River: Below Average



# Basin Conditions - March 1, 2007



<sup>\*</sup> Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 7.

#### Green River

The majority of the Green River Basin continued to receive below average precipitation in February. The exception was in the Yampa Basin where precipitation was near 125% of average. As a result, seasonal runoff forecasts increased slightly in this area. Elsewhere, the seasonal forecasts changed little.

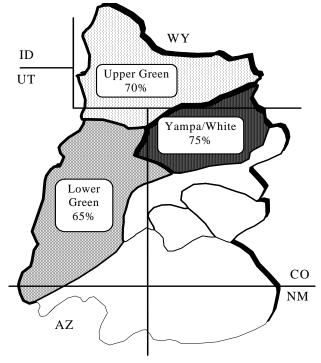
April-July streamflow forecasts for the Green River are as follows:

Upper Green River: Below Average

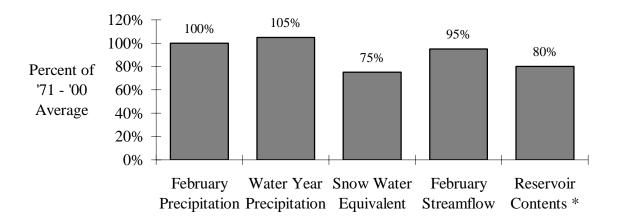
Yampa/White Rivers: Below Average

Lower Green River (blo Flaming Gorge):

Much Below Average



# Basin Conditions - March 1, 2007



<sup>\*</sup> Percent usable capacity, not percent average contents.

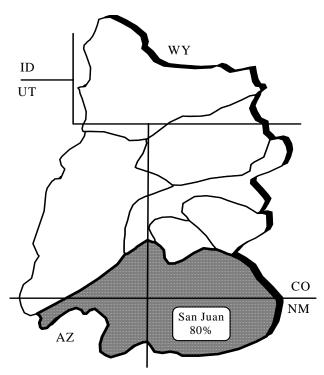
Specific site forecasts are listed beginning on page 8.

# San Juan River

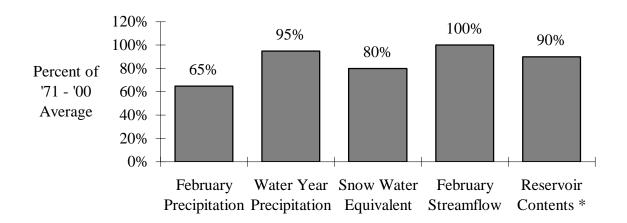
February precipitation was much below average at 67% for the basin as a whole and 60% of average above Navajo Reservoir. Basin snowpack, since February 1st, dropped 5% to 80% of average, with snowpack above Navajo reservoir at 84% of average. The forecasts for April through July runoff range from 13% of average at Recapture Creek near Blanding to 91% on the Rio Blanco River near Pagosa Springs.

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

San Juan River: Below Average



# Basin Conditions - March 1, 2007



<sup>\*</sup> 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	Percent	Reas.	Reas.
		Probable	Avg.	Max	Min
COLORADO	LAKE GRANBY, GRANBY, NR	215	96	270	167
	DOTSERO, NR	1350	94	1740	1010
	GLENWOOD SPRINGS, BLO	2000	93	2610	1390
	CAMEO, NR	2200	91	3010	1390
	CISCO, NR	4000	86	6230	1770
WILLOW CK	WILLOW CK RES, GRANBY, NR	50	98	68	36
FRASER	WINTER PARK	20	100	25	14.6
WILLIAMS FORK	WILLIAMS FORK RES, PARSHALL, N	87	92	112	66
MUDDY CK	WOLFORD MTN RES, BLO	42	70	64	26
BLUE	DILLON RES	165	99	210	126
	GREEN MTN RES	275	98	350	210
EAGLE	GYPSUM, BLO	310	93	405	225
FRYING PAN	RUEDI RES, BASALT, NR	125	89	162	93
ROARING FORK	GLENWOOD SPRINGS	620	87	820	445
PLATEAU CK	CAMEO, NR	75	65	158	10
MILL CK	MOAB, NR, SHELEY TUN, AT	3.1	62	4.8	1.84

# SPECIFIC SITE FORECASTS

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

Stream	Station	Most	Percent	Reas.	Reas.
		Probable	Avg.	Max	Min
TAYLOR	TAYLOR PARK RES	83	81	106	63
	ALMONT	130	79	190	100
EAST	ALMONT	145	76	192	105
GUNNISON	GUNNISON, NR	295	76	400	205
TOMICHI CK	GUNNISON	64	79	108	34
LAKE FORK	GATEVIEW	120	95	157	88
GUNNISON	MORROW POINT RES	630	80	875	410
	CRYSTAL RES	710	78	1020	440
MUDDY CK	⋆ PAONIA RES, BARDINE, NR	83	83	126	51
NF GUNNISON	SOMERSET, NR	245	80	345	165
SURFACE CK	CEDAREDGE	13	76	18.9	8.5
UNCOMPAHGRE	RIDGWAY RES	92	90	132	61
	COLONA	120	86	193	68
	DELTA	98	84	177	45
GUNNISON	GRAND JUNCTION, NR	1250	80	1940	560
DOLORES	DOLORES	195	74	295	121
	MCPHEE RES	235	73	355	147
	CISCO, NR	440	72	730	148
SAN MIGUEL	PLACERVILLE, NR	109	83	163	69

 $<sup>\</sup>star$  = March - June forecast period.

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

Stream	Station	Most	Percent	Reas.	Reas.	
		Probable	Avg.	Max	Min	
GREEN	DANIEL, NR, WARREN BRIDGE, AT	200	75	250	155	
	GREEN RIVER, WY, NR	585	67	860	365	
	GREEN RIVER, UT	2000	63	3240	760	
PINE CK	FREMONT LK, ABV	· · · · · · · · · · · · · · · · · · ·				
NEW FORK	BIG PINEY, NR	270	68	375	183	
BIG SANDY	FARSON, NR	40	69	55	28	
BLACKS FORK	ROBERTSON, NR	76	80	106	51	
EF SMITHS FORK	ROBERTSON, NR	22	71	33	13.4	
HAMS FORK	FRONTIER, NR, POLE CK, BLO	40	62	60	24	
	VIVA NAUGHTON RES	52	58	82	29	
YAMPA	STAGECOACH RSVR, ABV	22	76	36	12.4	
	STEAMBOAT SPRINGS	220	79	295	155	
	MAYBELL, NR	760	77	1050	515	
ELK	MILNER, NR	280	86	370	205	
ELKHEAD CK	ELKHEAD, NR	31	79	47	18.5	
	MAYNARD GULCH, BLO	51	86	80	22	
FORTIFICATION CK	★ FORTIFICATION, NR	5.5	73	12.2	1.86	
LITTLE SNAKE	SLATER, NR	112	70	157	75	
	DIXON, NR	235	71	355	138	
	LILY, NR	250	68	395	139	

<sup>★=</sup> March - June forecast period.

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

Stream	Station	Most	Percent	Reas.	Reas.
		Probable	Avg.	Max	Min
BIG BRUSH CK	VERNAL, NR, RED FLEET RES, ABV	17.6	84	27	10.1
ASHLEY CK	VERNAL, NR	RNAL, NR 42 81			
WF DUCHESNE	HANNA, NR	15	62	23	8.8
ROCK CK	UPPER STILLWATER RES	60	73	78	44
	MOUNTAIN HOME, NR	68	76	90	49
DUCHESNE	TABIONA, NR	66	63	99	40
	DUCHESNE, NR, KNIGHT DIV, ABV	130	69	181	87
	MYTON	150	57	290	56
	RANDLETT, NR	180	55	355	65
STRAWBERRY	SOLDIER SPRINGS, NR	33	56	61	13.7
	DUCHESNE, NR	63	52	113	28
CURRANT CK	CURRANT CK RES	15	60	31	4.8
LAKE FORK	MOON LAKE RES, MTN HOME, NR	E, NR 50		67	35
YELLOWSTONE	ALTONAH, NR	45	73	64	28
WHITEROCKS	WHITEROCKS, NR	46	82	70	27
WHITE	MEEKER, NR	225	78	310	153
	WATSON, NR	230	75	365	96
GOOSEBERRY CK	SCOFIELD, NR	7.6	64	11.4	4.6
PRICE	SCOFIELD RES, SCOFIELD, NR	25	54	46	3.5
WHITE	BLO TABBYUNE CK, SOLDIER SUMMI	7.3	42	13.8	2.9
HUNTINGTON CK	ELECTRIC LAKE	7.5	48	12.7	3.6
	HUNTINGTON, NR	25	51	44	5.7
SEELEY CK	JOES VLY RES, ORANGEVILLE, NR	JOES VLY RES, ORANGEVILLE, NR 35 60		57	18.5
FERRON CK	FERRON, NR	25	64	37	15.7
SEVEN MILE CK	FISH LAKE, NR	5.1	73	7.9	2.9
MUDDY CK	EMERY, NR	13	65	19.8	7.6

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

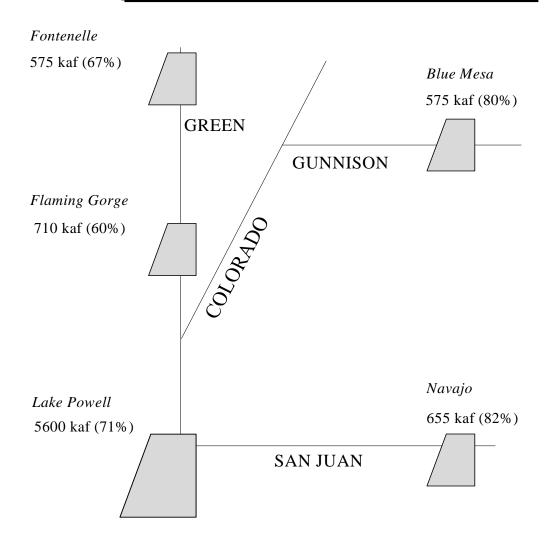
Stream	Station	Most	Percent	Reas.	Reas.
		Probable	Avg.	Max	Min
SAN JUAN	PAGOSA SPRINGS	185	82	280	92
	CARRACAS, NR	335	83	500	210
	FARMINGTON	930	77	1410	445
	BLUFF, NR	940	76	1500	385
RIO BLANCO	PAGOSA SPRINGS, NR, BLANCO DAM	48	91	67	33
NAVAJO	CHROMO, NR, OSO DIV DAM, BLO	58	84	83	39
PIEDRA	ARBOLES, NR	185	80	285	111
LOS PINOS	VALLECITO RES, BAYFIELD, NR	180	88	240	129
ANIMAS	DURANGO	380	86	535	255
FLORIDA	LEMON RES, DURANGO, NR	45	78	60	33
LA PLATA	HESPERUS	17	68	26	10.5
MANCOS	MANCOS, NR		68	50	4
SOUTH CK *	LLOYD'S RSVR NR MONTICELLO, AB	0.28	21	0.83	0.05
RECAPTURE CK *	BLANDING, NR, JOHNSON CK, BLO	0.82	13	2.6	0.12

<sup>★ =</sup> March - July forecast period.

# FLOOD CONTROL FORECASTS

#### MOST PROBABLE FORECASTS 2007 APRIL - JULY INFLOW VOLUMES

(% OF '71 - '00 AVERAGE)

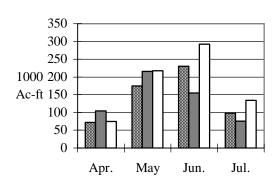


NOTE: Colorado River flood control forecasts account for a smaller set of upstream adjustments than water supply forecast points.

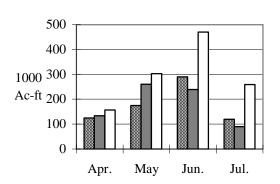
# RESERVOIR MONTHLY INFLOW FORECASTS

2007 Forecast 2006 Observed 30 Year Average

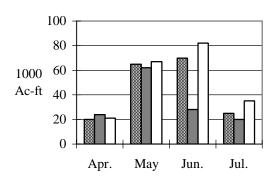
#### **Blue Mesa Reservoir Inflow**



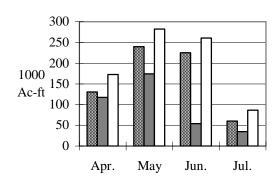
#### Flaming Gorge Reservoir Inflow



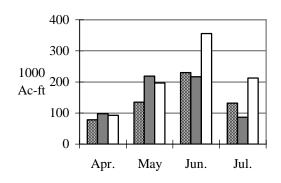
#### Vallecito Reservoir Inflow



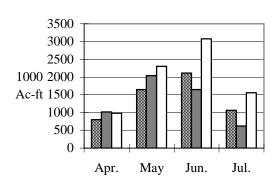
Navajo Reservoir Inflow



#### **Fontenelle Reservoir Inflow**

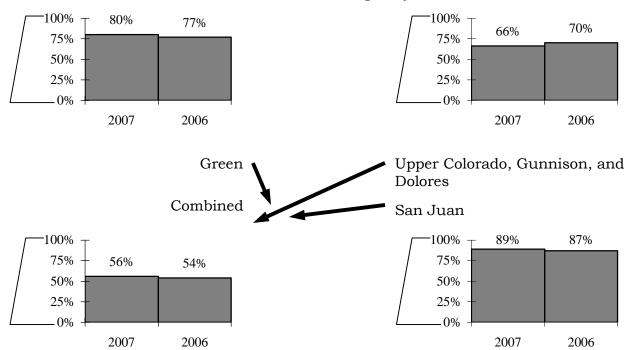


#### Lake Powell Inflow



# END OF MONTH RESERVOIR CONTENTS

#### Percent of Usable Capacity



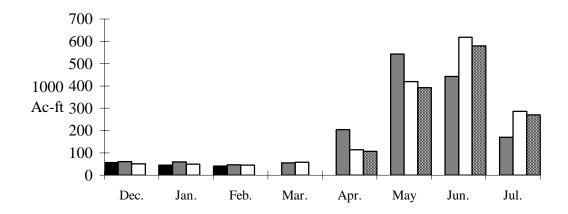
RESERVOIR	Reservoir	Usable	EOM Usable	Percent Usable
(vol. in 1000 ac-ft)	status	Capacity	Contents	Capacity
Fontenelle	1,4	344.8	126.7	37
Flaming Gorge	1,4	3749	3110.6	83
Strawberry	1,4	1105.9	928.5	84
Starvation	1,4	165.3	148.3	90
Lake Granby	2,4	490.3	263.3	54
Dillon	2,4	254	241.8	95
Green Mountain	2,4	146.9	79.7	54
Taylor Park	2,4	106.2	77.5	73
Blue Mesa	2,4	829.5	497.9	60
Ridgway	2,4	83.2	76.5	92
McPhee	2,4	381.1	278	73
Vallecito	3,4	125.4	76.4	61
Navajo	3,4	1696	1546.2	91
Lake Powell	4	24322	11551.8	47

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

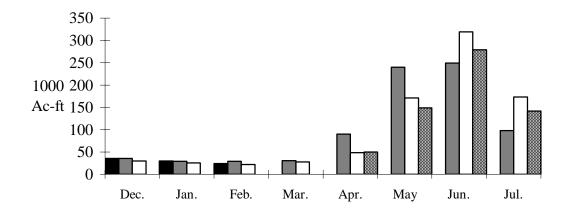
# MONTHLY STREAMFLOWS

■ 2007 Water Year ■ 2006 Water Year □ 30 Year Average ■ 2007 Forecast

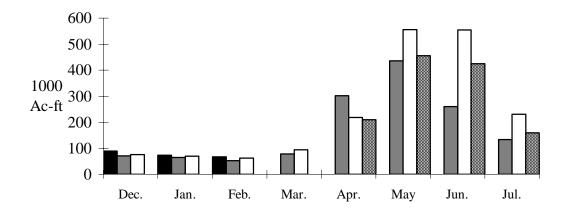
# Colorado - Dotsero, nr:



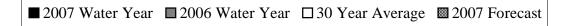
# Roaring Fork - Glenwood Springs:



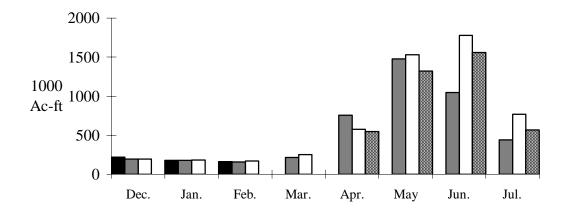
# Gunnison - Grand Junction, nr:



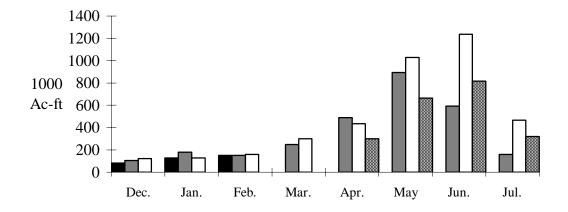
<sup>\*</sup> Data Not Available



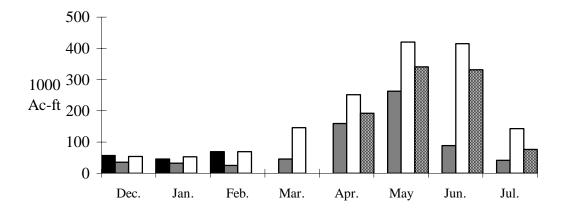
# Colorado - Cisco, nr:



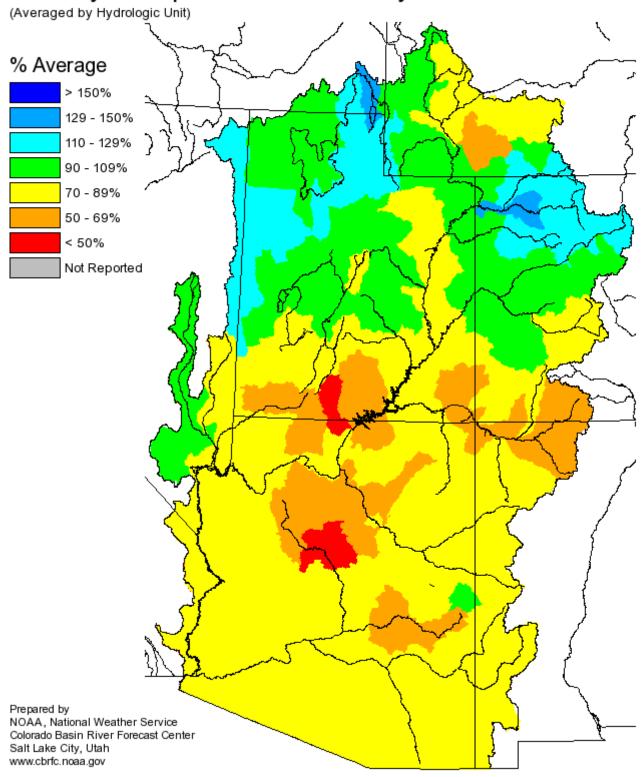
# Green - Green River, UT:



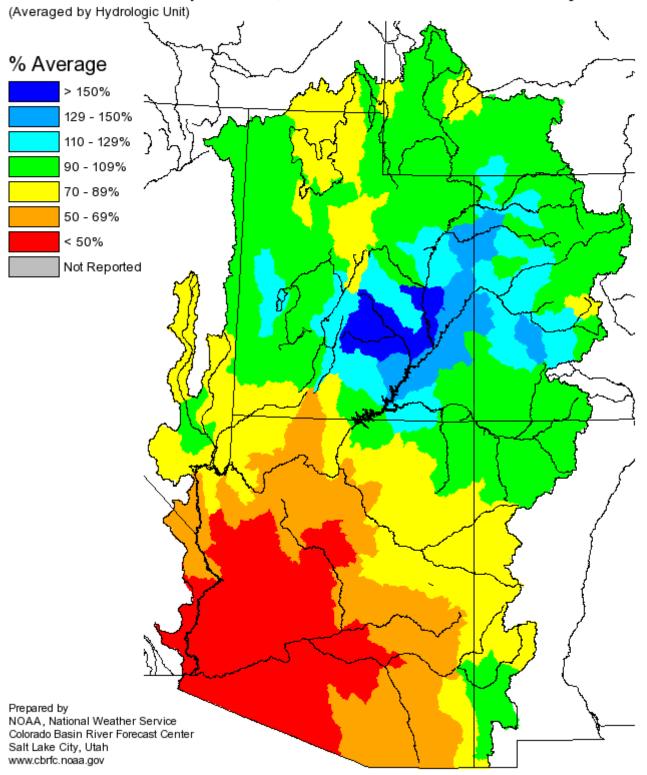
# San Juan - Bluff, nr:



# Monthly Precipitation for February 2007



# Seasonal Precipitation, October 2006 - February 2007



#### 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 Above Average Near Average Below Average Much Below Average-Greater than 130% 111-130% 90-110% 70-89% Less than 70%

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