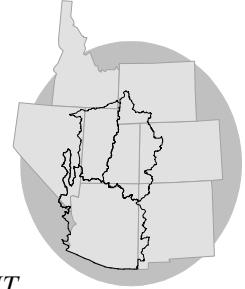


# WATER SUPPLY OUTLOOK

for the  
**UPPER COLORADO**

***COLORADO BASIN  
RIVER FORECAST CENTER***

*NATIONAL WEATHER SERVICE, SALT LAKE CITY, UT*

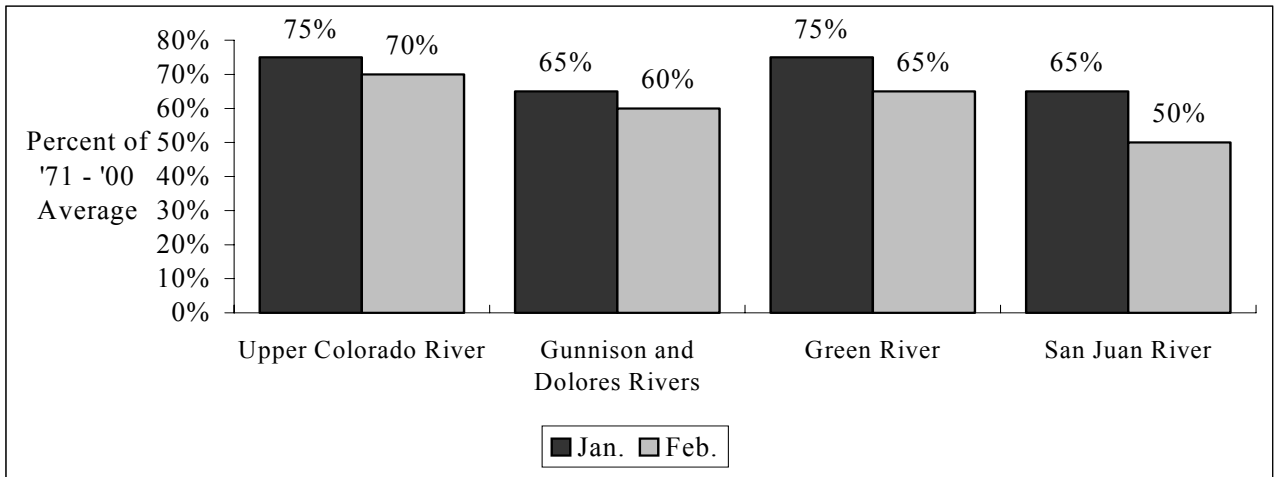


**FEBRUARY 1, 2002**

## SUMMARY

January precipitation continued below average with most areas receiving less than 60% of average. This aided in maintaining below average seasonal precipitation values. Snow water equivalents dropped 5% to 10% of average overall, with most basins in the below to much below average categories. As a result, forecasts for the 2002 Spring runoff dropped 5% to 15% and continue in the below to much below average range.

## APRIL - JULY VOLUME FORECASTS

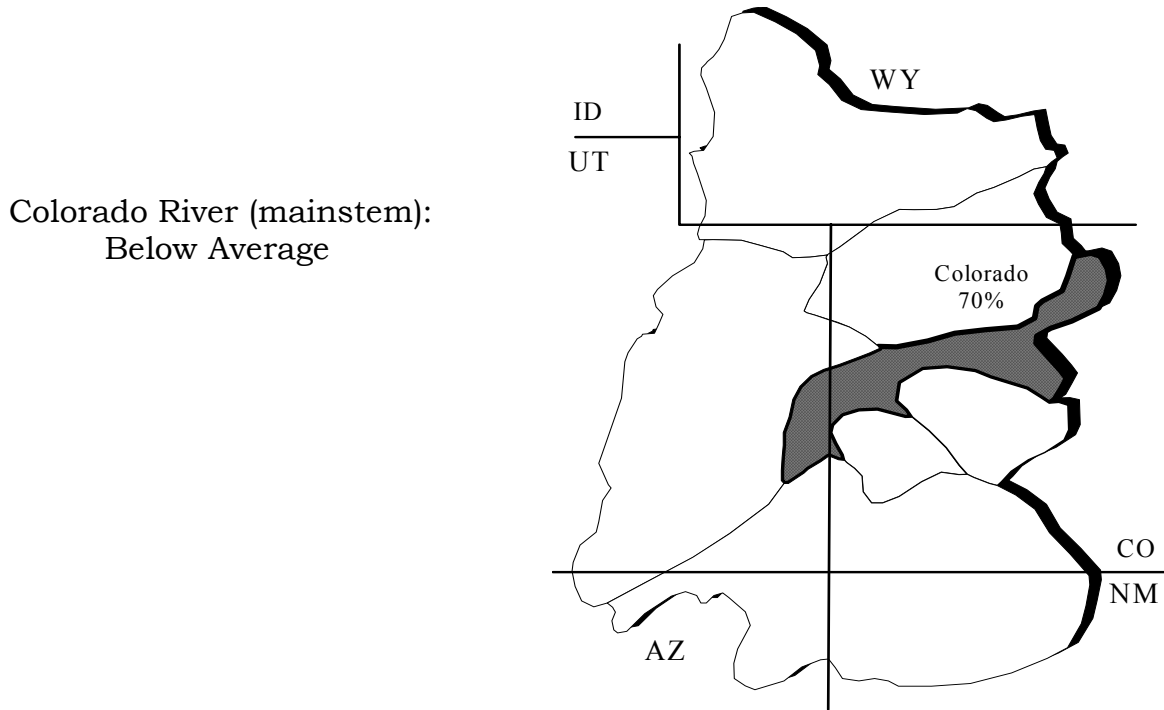


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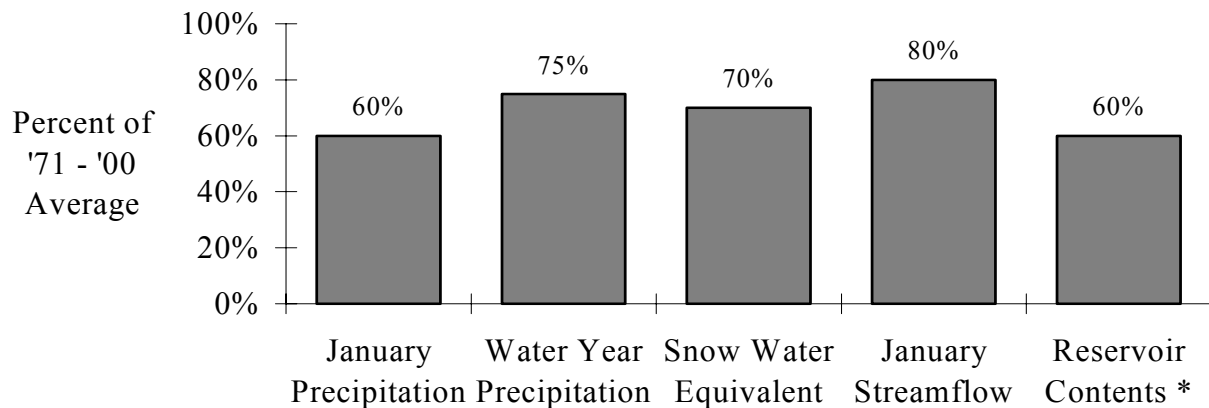
## UPPER COLORADO MAINSTEM

Seasonal precipitation up to February 1 in the upper mainstem of the Colorado River continues below average. Point snow measurements on February 1 varied from 49% to 93% of average, with overall snowpack at 70% of average. Forecasts for the Spring 2002 runoff vary from 57% to 79% of average.

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



## BASIN CONDITIONS - FEBRUARY 1, 2002



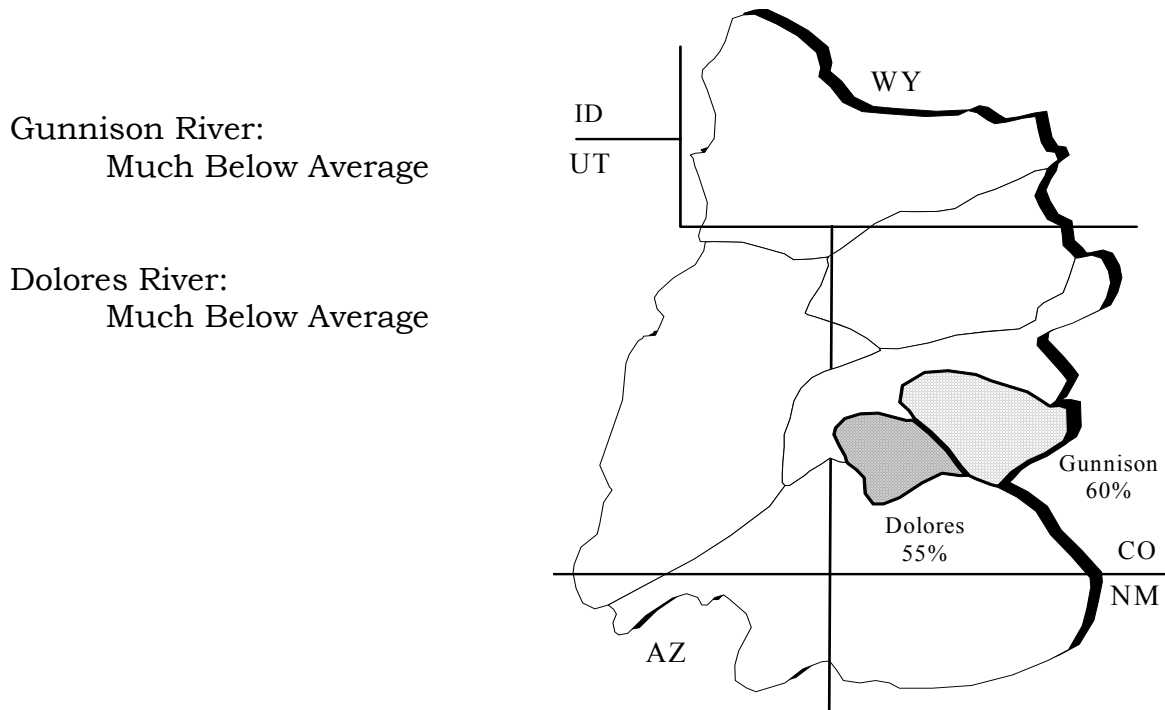
\* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 6.

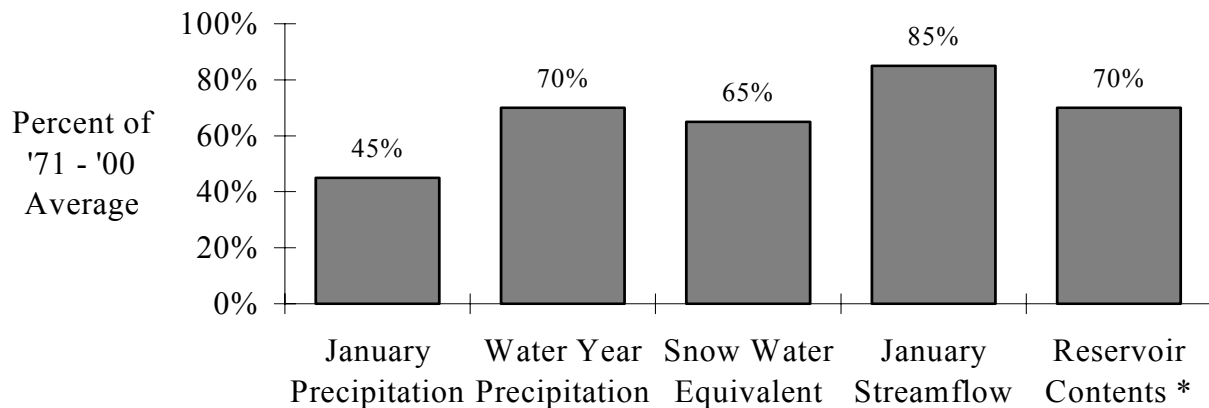
## GUNNISON AND DOLORES RIVERS

January precipitation was just 35% of average in the Dolores River Basin and snow water equivalent values fell to 60% of average by February 1. The Gunnison River Basin did not fare any better with 45% of average January precipitation and February 1 snow water equivalent at 65% of average. Streamflow forecasts for the 2002 runoff range from 40% to 70% of average.

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



## BASIN CONDITIONS - FEBRUARY 1, 2002



\* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 7.

# GREEN RIVER

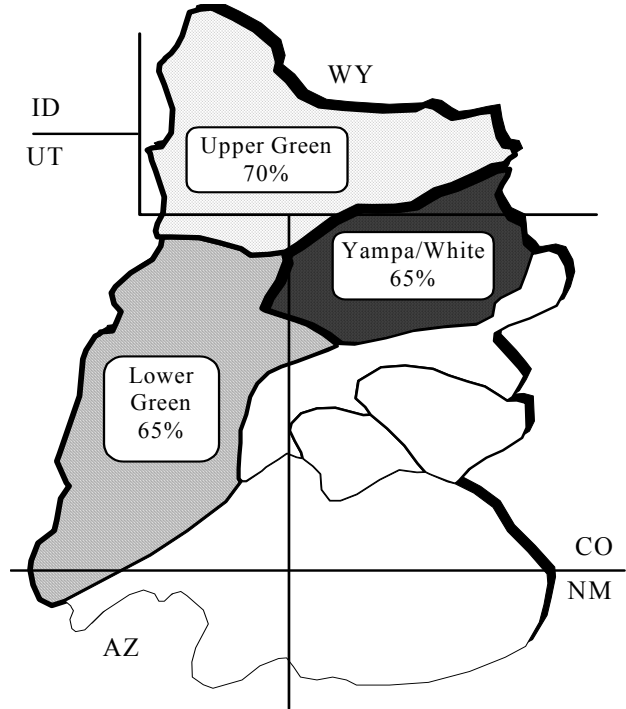
Seasonal precipitation and snowpack conditions are below to much below average throughout the entire Green River Basin. The lowest snowpack exists in the Yampa, White, and Duchesne River Basins, with most values between 50% and 70% of average. Slightly better conditions exist in the Upper Green River Basin of Wyoming. April-July runoff forecasts decreased slightly from those issued in January and range from near 55% to 80% of average.

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

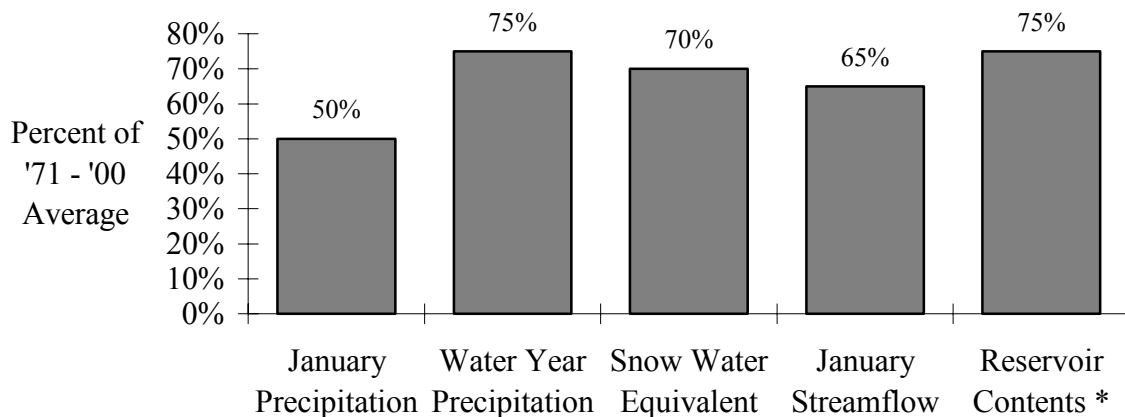
Upper Green River:  
Below Average

Yampa/White Rivers:  
Much Below Average

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



## BASIN CONDITIONS - FEBRUARY 1, 2002



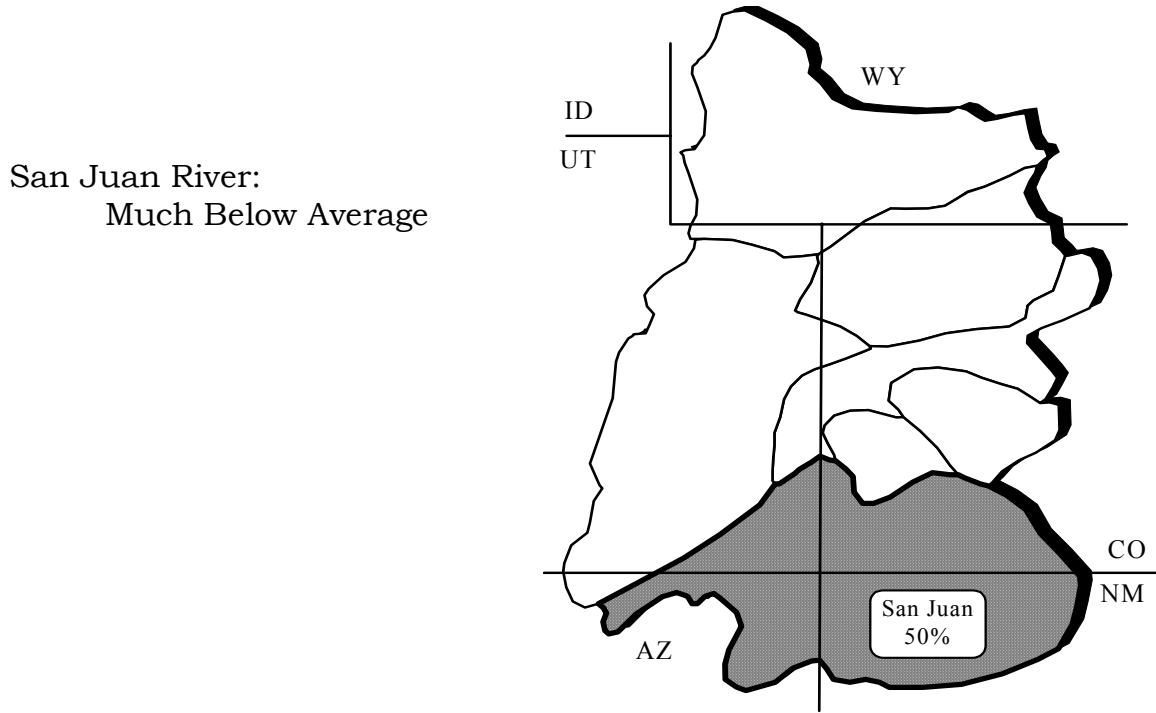
\* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 8.

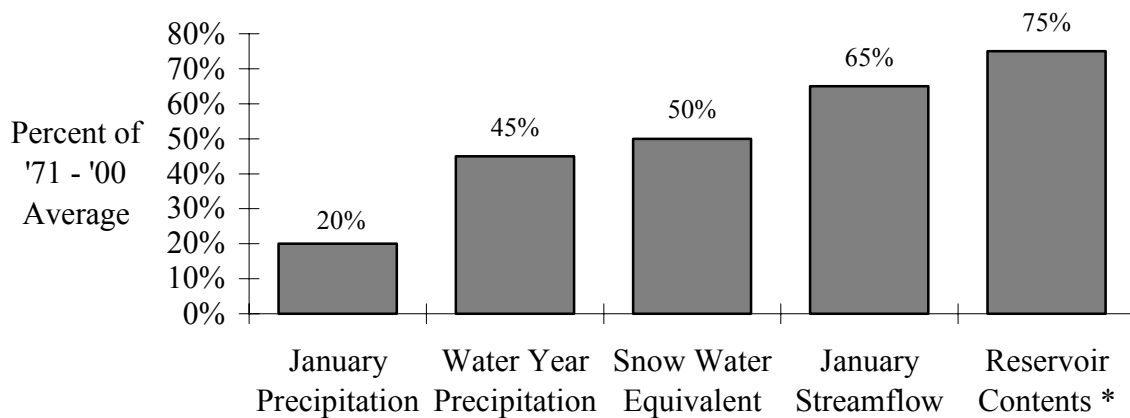
# SAN JUAN RIVER

Seasonal precipitation and snowpack are much below average for the entire San Juan Basin. Seasonal precipitation, due to an extremely dry January, fell to 45% of average on February 1. Snowpack conditions also declined during January to 50% of average. All April-July runoff forecasts have been reduced to reflect this very dry trend. Forecasts range from 34% to 61% of average.

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



## BASIN CONDITIONS - FEBRUARY 1, 2002



\* 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	165	73	230	119
	DOTSERO, NR	1000	69	1580	575
	GLENWOOD SPRINGS, BLO	1500	69	2150	850
	CAMEO, NR	1700	70	2580	815
	CISCO, NR	2700	61	4440	960
WILLOW CK	WILLOW CK RES, GRANBY, NR	33	65	48	21
FRASER	WINTER PARK	15.5	78	21	9.8
WILLIAMS FORK	WILLIAMS FORK RES, PARSHALL, N	65	68	87	46
MUDDY CK	WOLFORD MTN RES, BLO	38	63	66	22
BLUE	DILLON RES	125	75	192	77
	GREEN MTN RES	215	77	275	163
EAGLE	GYPSUM, BLO	265	79	410	170
FRYING PAN	RUEDI RES, BASALT, NR	100	71	143	70
ROARING FORK	GLENWOOD SPRINGS	500	70	685	345
PLATEAU CK	CAMEO, NR	65	57	148	7
MILL CK	MOAB, NR, SHELEY TUN, AT	3.5	70	6.7	1.5

## 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	65	63	105	35
	ALMONT	98	59	170	50
EAST	ALMONT	130	68	195	70
GUNNISON	GUNNISON, NR	240	62	400	110
TOMICHI CK	GUNNISON	35	43	80	15
LAKE FORK	GATEVIEW	85	67	130	45
GUNNISON	MORROW POINT RES	485	62	790	200
	CRYSTAL RES	550	60	920	200
MUDDY CK	● PAONIA RES, BARDINE, NR	58	55	110	20
NF GUNNISON	SOMERSET, NR	187	61	295	102
SURFACE CK	CEDAREEDGE	10	58	18	4
UNCOMPAHGRE	RIDGWAY RES	68	72	110	44
	COLONA	82	59	150	30
	DELTA	60	51	140	30
GUNNISON	GRAND JUNCTION, NR	825	53	1600	280
DOLORES	DOLORES	160	60	270	60
	MCPHEE RES	180	56	320	60
	CISCO, NR	265	47	615	50
SAN MIGUEL	PLACERVILLE, NR	95	72	150	40

● = March - June forecast period.

**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	215	81	275	154
	GREEN RIVER, WY, NR	600	69	862	340
	GREEN RIVER, UT	2050	65	3210	890
PINE CK	FREMONT LK, ABV	82	79	100	64
NEW FORK	BIG PINEY, NR	290	73	415	166
BIG SANDY	FARSON, NR	46	79	64	28
BLACKS FORK	ROBERTSON, NR	62	65	92	43
EF SMITHS FORK	ROBERTSON, NR	19	61	25	14.2
HAMS FORK	FRONTIER, NR, POLE CK, BLO	45	69	70	25
	VIVA NAUGHTON RES	58	65	95	21
YAMPA	STAGECOACH RSVR, ABV	20	69	32	11.5
	STEAMBOAT SPRINGS	185	66	265	104
	MAYBELL, NR	630	64	960	300
ELK	MILNER, NR	215	66	320	130
ELKHEAD CK	ELKHEAD, NR	25	64	46	13.7
	MAYNARD GULCH, BLO	42	71	71	22
FORTIFICATION CK	● FORTIFICATION, NR	5.2	69	9.3	2.4
LITTLE SNAKE	SLATER, NR	90	57	132	56
	DIXON, NR	180	55	300	113
	LILY, NR	190	52	315	123

● = March - June forecast period.



**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	7.1
ASHLEY CK	VERNAL, NR	38	73	66	17.5
WF DUCHESNE	HANNA, NR	15	62	24	8
ROCK CK	UPPER STILLWATER RES	56	68	82	40
	MOUNTAIN HOME, NR	60	67	83	37
DUCHESNE	TABIONA, NR	64	61	91	37
	DUCHESNE, NR, KNIGHT DIV, ABV	110	59	171	49
	MYTON	143	55	260	86
	RANDLETT, NR	175	54	425	11
STRAWBERRY	SOLDIER SPRINGS, NR	35	59	61	16
	DUCHESNE, NR	73	60	125	45
CURRENT CK	CURRENT CK RES	13.3	53	21	6.1
LAKE FORK	MOON LAKE RES, MTN HOME, NR	44	65	65	30
YELLOWSTONE	ALTONAH, NR	38	61	64	22
WHITEROCKS	WHITEROCKS, NR	42	75	75	15.7
WHITE	MEEKER, NR	190	66	275	131
	WATSON, NR	195	64	295	97
GOOSEBERRY CK	SCOFIELD, NR	7.1	60	12.2	4.1
PRICE	SCOFIELD RES, SCOFIELD, NR	29	63	43	15.1
WHITE	BLO TABBYUNE CK, SOLDIER SUMMI	10.1	58	19.4	3.8
HUNTINGTON CK	ELECTRIC LAKE	9	57	16.7	4.1
	HUNTINGTON, NR	36	72	53	11.7
SEELEY CK	JOES VLY RES, ORANGEVILLE, NR	40	69	65	15.3
FERRON CK	FERRON, NR	28	72	42	16.7
SEVEN MILE CK	FISH LAKE, NR	5.5	79	10	2
MUDDY CK	EMERY, NR	15.3	77	27	7

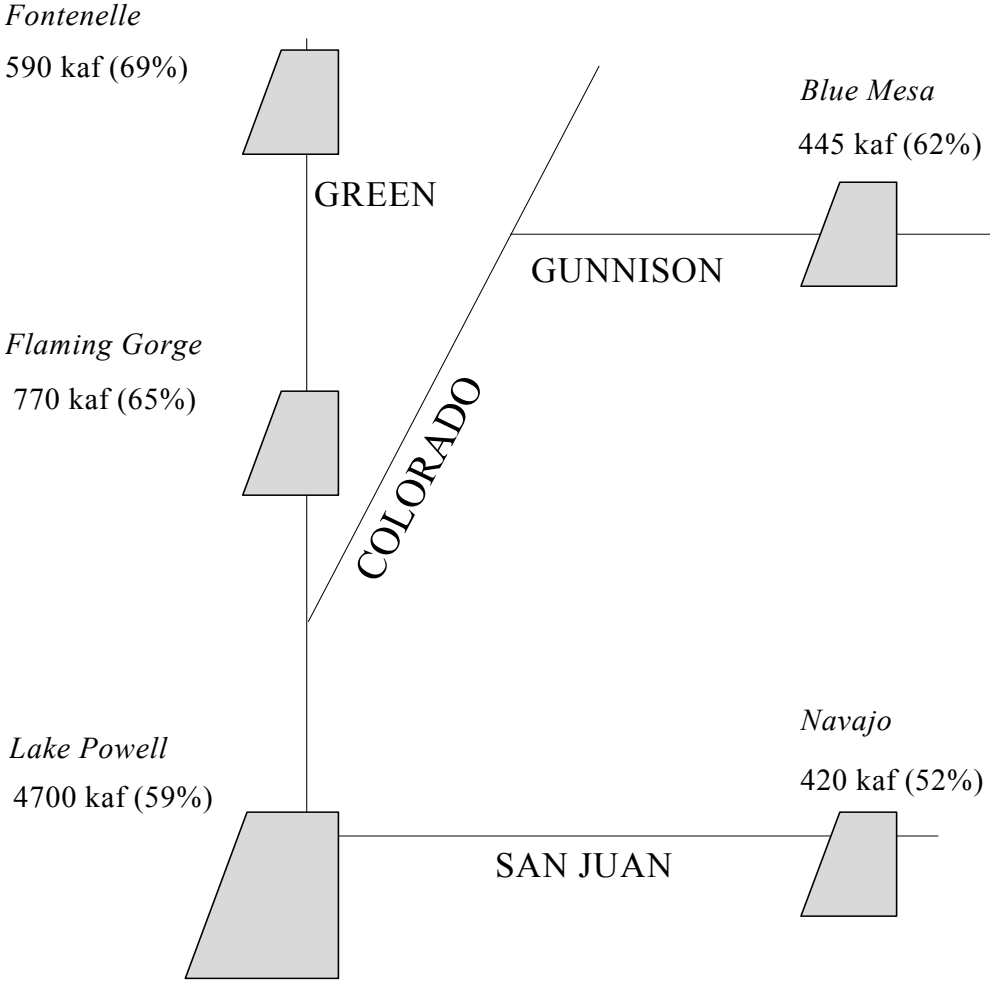
**San Juan River Basin:** April through July volume (kaf) forecasts (except where noted).

Stream	Station	Most Probable	Percent Avg.	Reas. Max	Reas. Min
SAN JUAN	PAGOSA SPRINGS	120	53	205	47
	CARRACAS, NR	230	57	395	109
	FARMINGTON	580	48	1100	250
	BLUFF, NR	590	48	1060	118
RIO BLANCO	PAGOSA SPRINGS, NR, BLANCO DAM	31	58	55	16
NAVAJO	CHROMO, NR, OSO DIV DAM, BLO	40	58	71	22
PIEDRA	ARBOLES, NR	115	50	201	72
LOS PINOS	VALLECITO RES, BAYFIELD, NR	120	59	186	54
ANIMAS	DURANGO	270	61	428	112
FLORIDA	LEMON RES, DURANGO, NR	34	59	58	20
LA PLATA	HESPERUS	14	56	25	9
MANCOS	MANCOS, NR	21	52	42	10
SOUTH CK	◆ LLOYD'S RSVR NR MONTICELLO, AB	0.4	34	1.3	0.2
RECAPTURE CK	◆ BLANDING, NR, JOHNSON CK, BLO	2.2	36	6.3	0.7

◆ = March - July forecast period.

# FLOOD CONTROL FORECASTS

**MOST PROBABLE FORECASTS**  
**2002 APRIL - JULY INFLOW VOLUMES**  
 (% OF '71 - '00 AVERAGE)

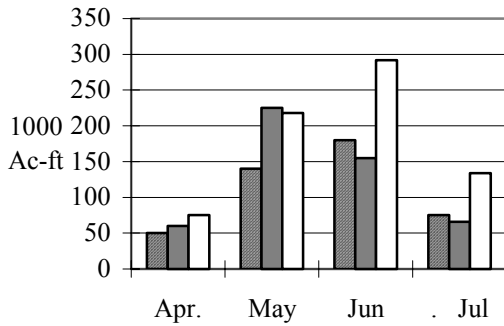


NOTE: Colorado River flood control forecasts account for a smaller set of upstream adjustments than water supply forecast points.

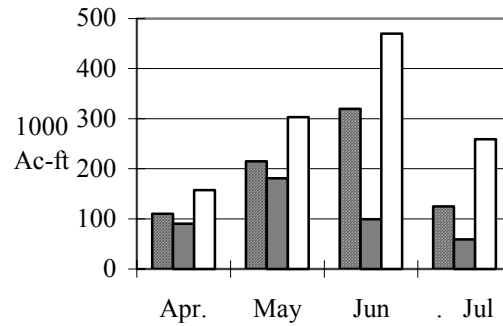
# RESERVOIR MONTHLY INFLOW FORECASTS



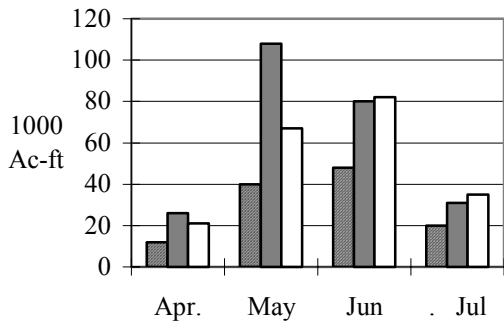
**Blue Mesa Reservoir Inflow**



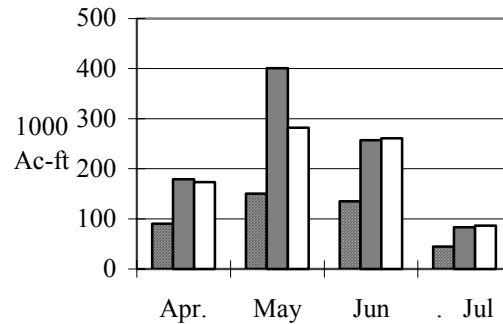
**Flaming Gorge Reservoir Inflow**



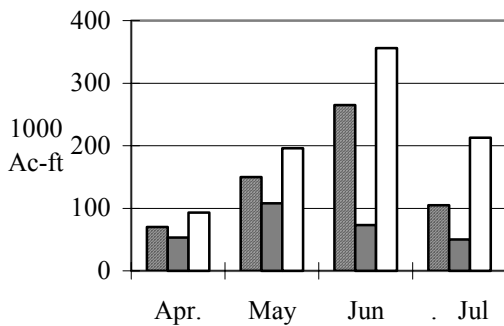
**Vallecito Reservoir Inflow**



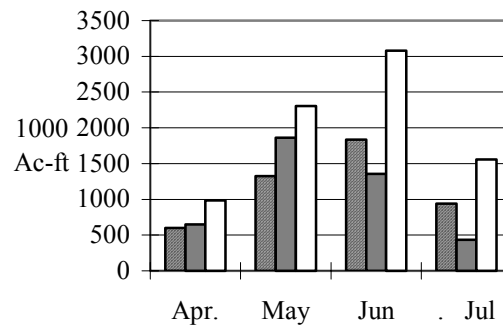
**Navajo Reservoir Inflow**



**Fontenelle Reservoir Inflow**

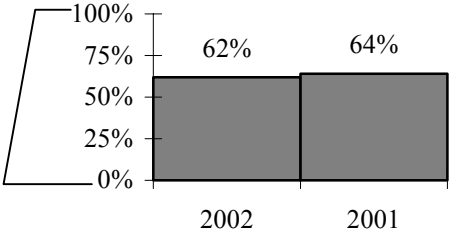
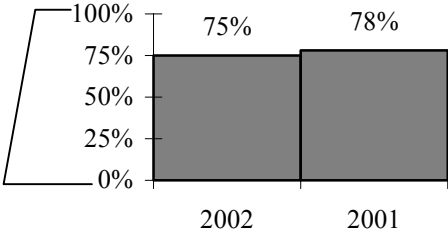


**Lake Powell Inflow**

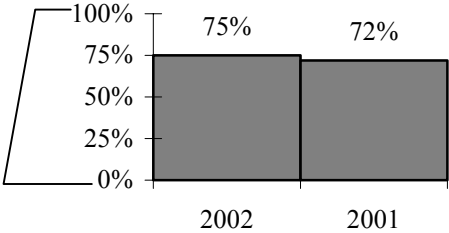
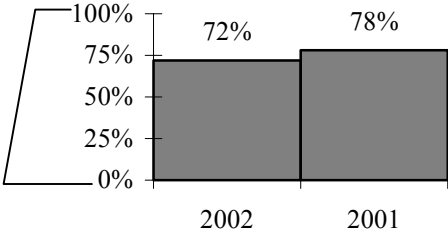


# END OF MONTH RESERVOIR CONTENTS

Percent of Usable Capacity



Green  
 Combined  
 Upper Colorado, Gunnison, and Dolores  
 San Juan

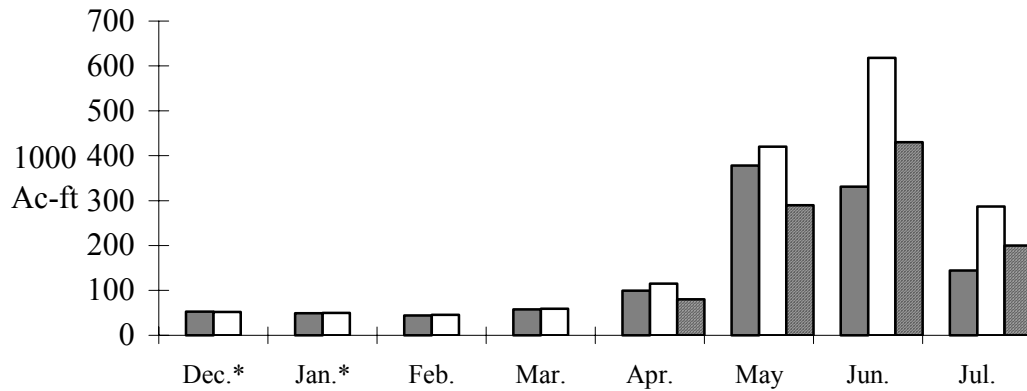


Detailed Reservoir Information is not available at this time.

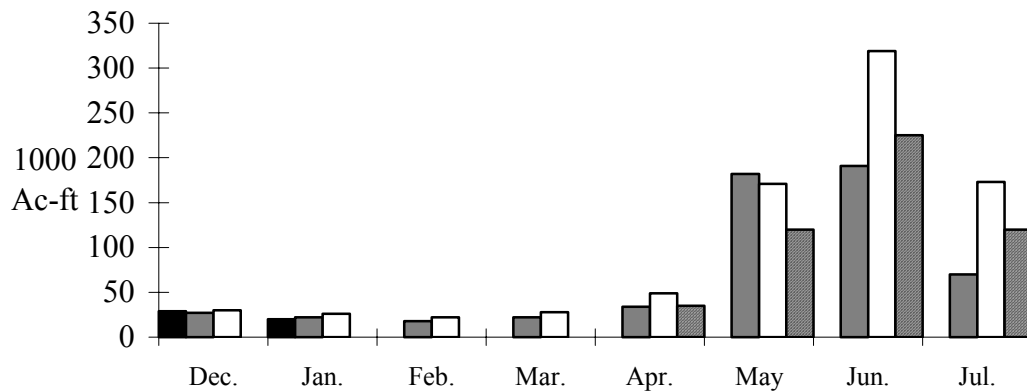
# MONTHLY STREAMFLOWS



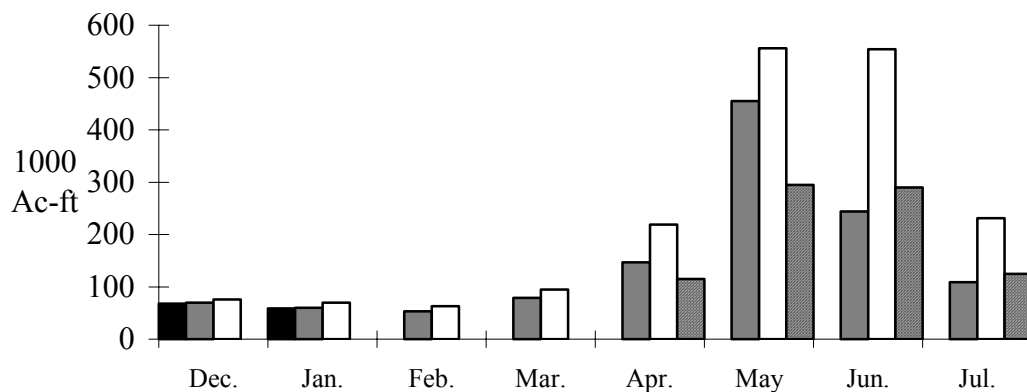
## Colorado - Dotsero, nr:



## Roaring Fork - Glenwood Springs:



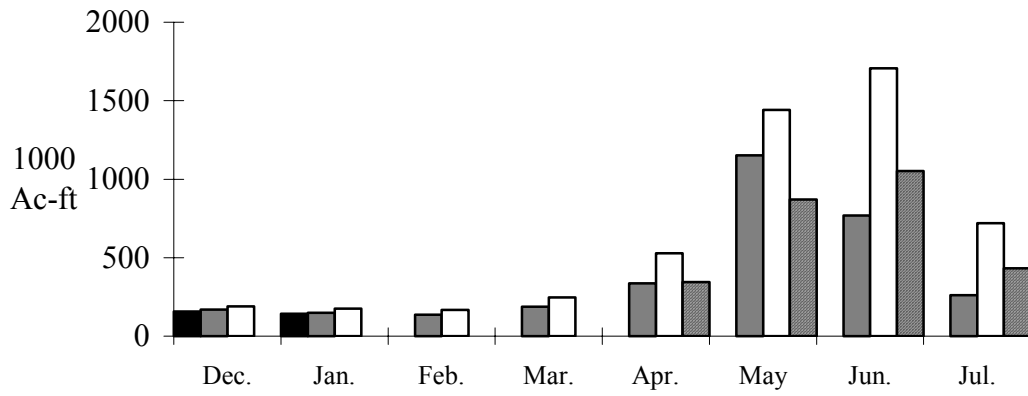
## Gunnison - Grand Junction, nr:



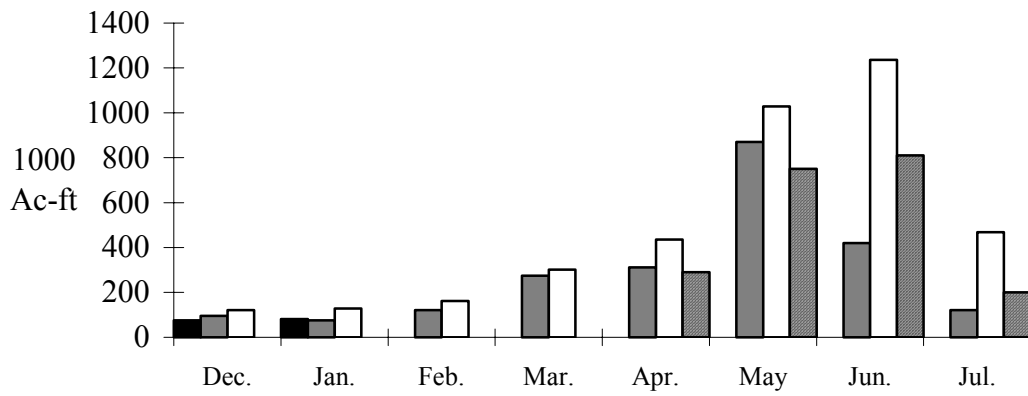
\* Data Not Available



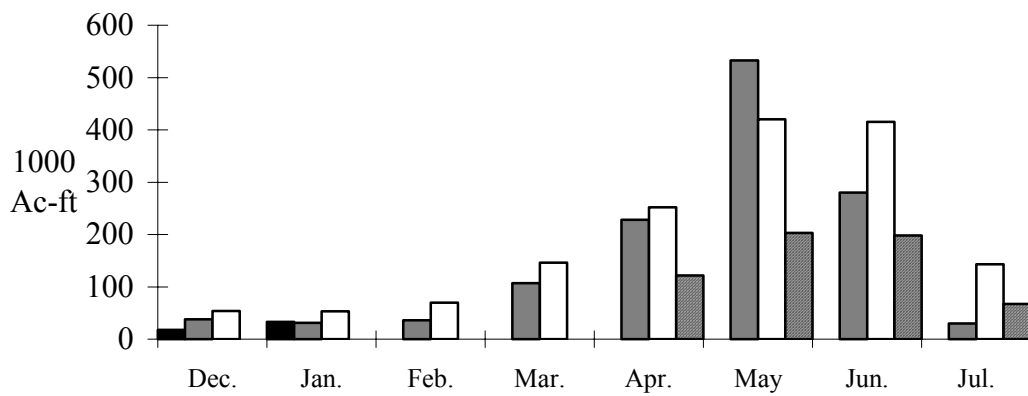
**Colorado - Cisco, nr:**



**Green - Green River, UT:**



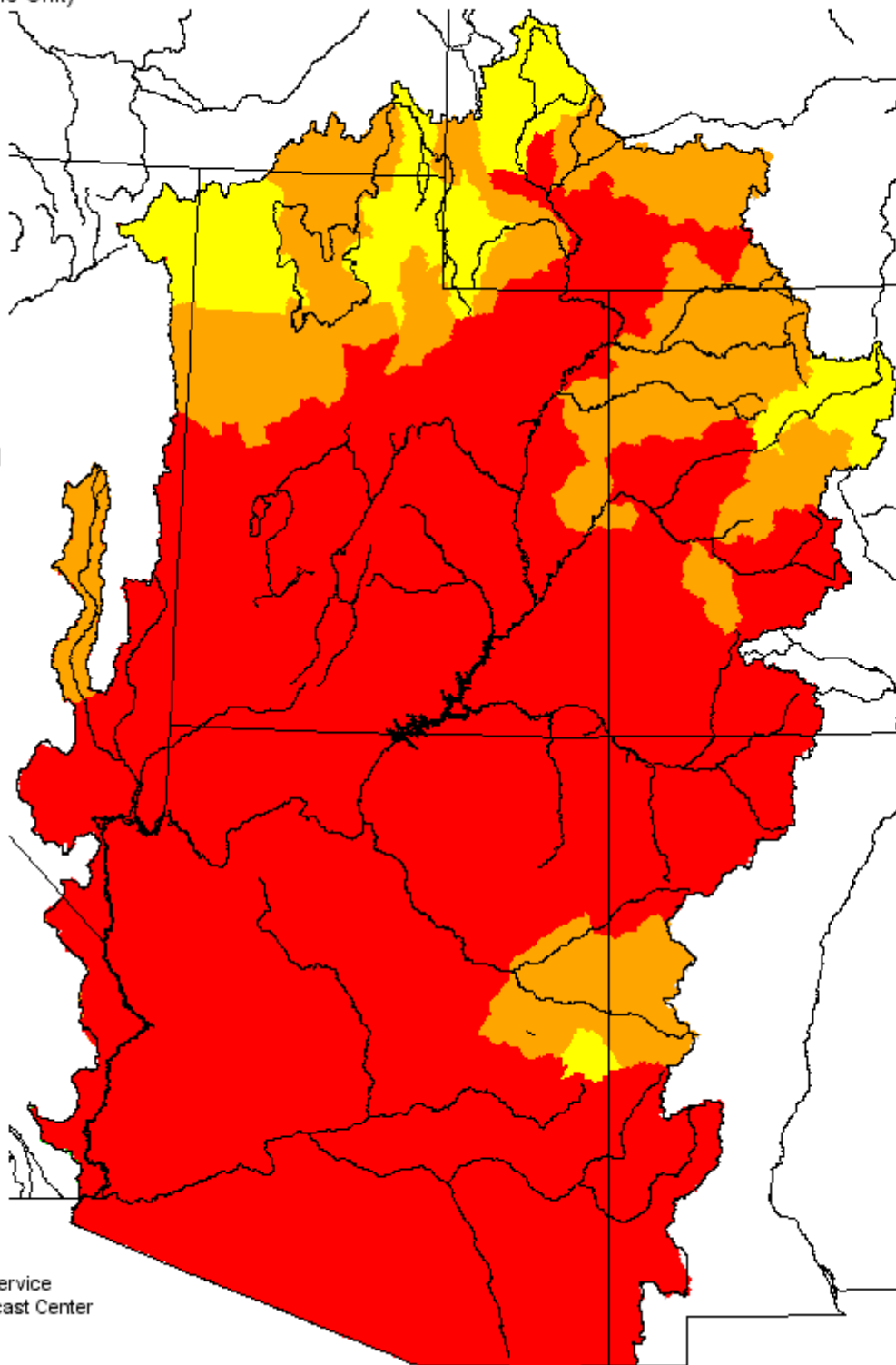
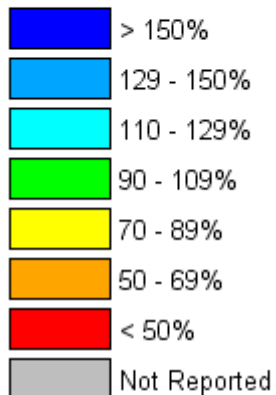
**San Juan - Bluff, nr:**



# Monthly Precipitation for January 2002

(Averaged by Hydrologic Unit)

## % Average



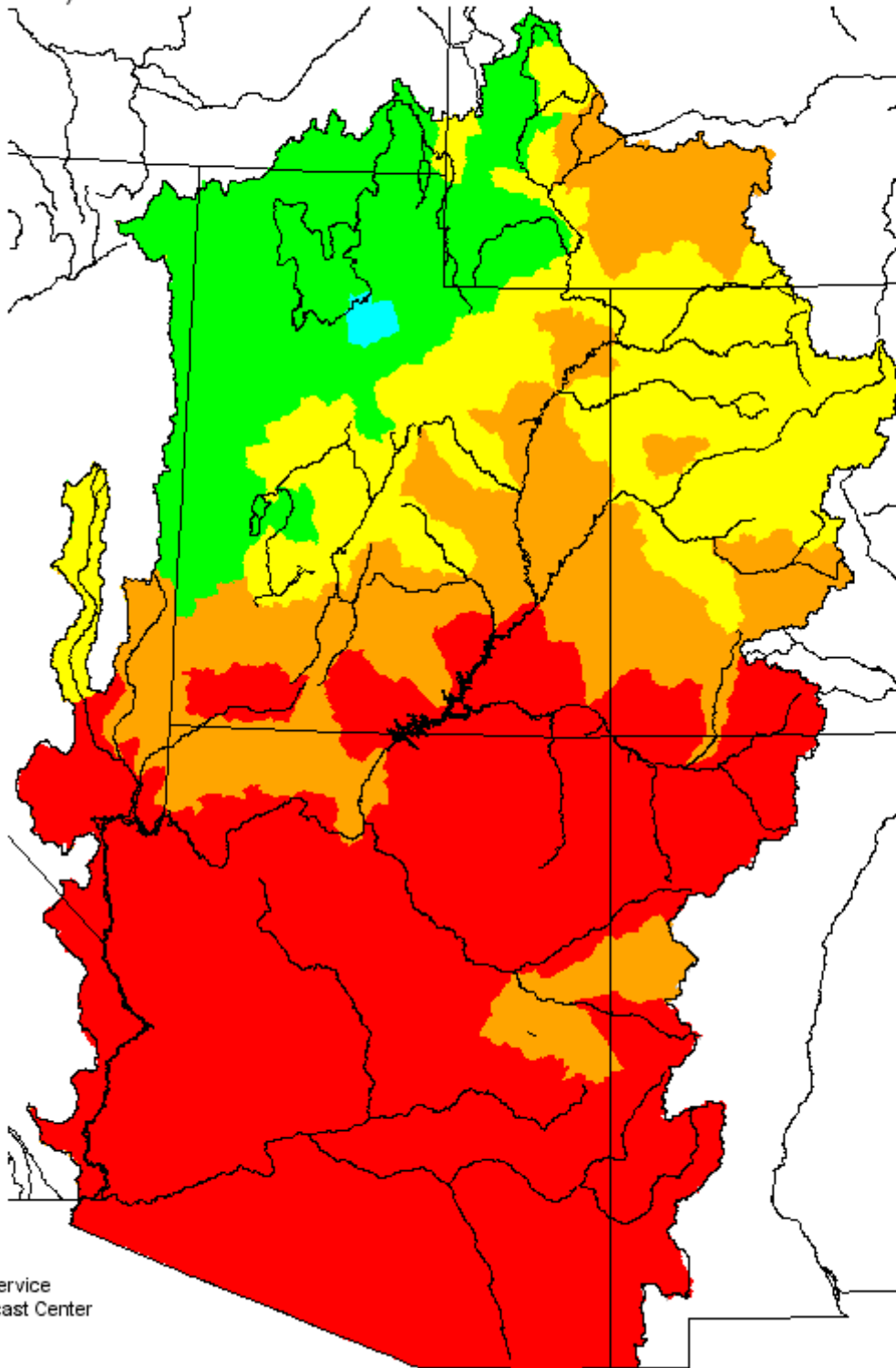
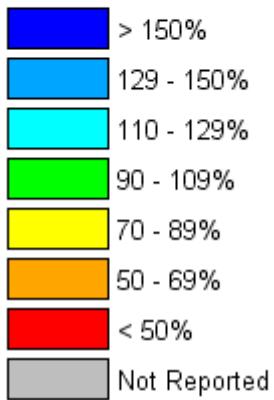
Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)



# Seasonal Precipitation, October 2001 - January 2002

(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