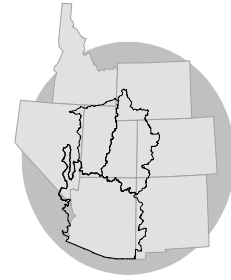


# WATER SUPPLY OUTLOOK for the EASTERN GREAT BASIN

***COLORADO BASIN  
RIVER FORECAST CENTER***

*NATIONAL WEATHER SERVICE, SALT LAKE CITY, UT*

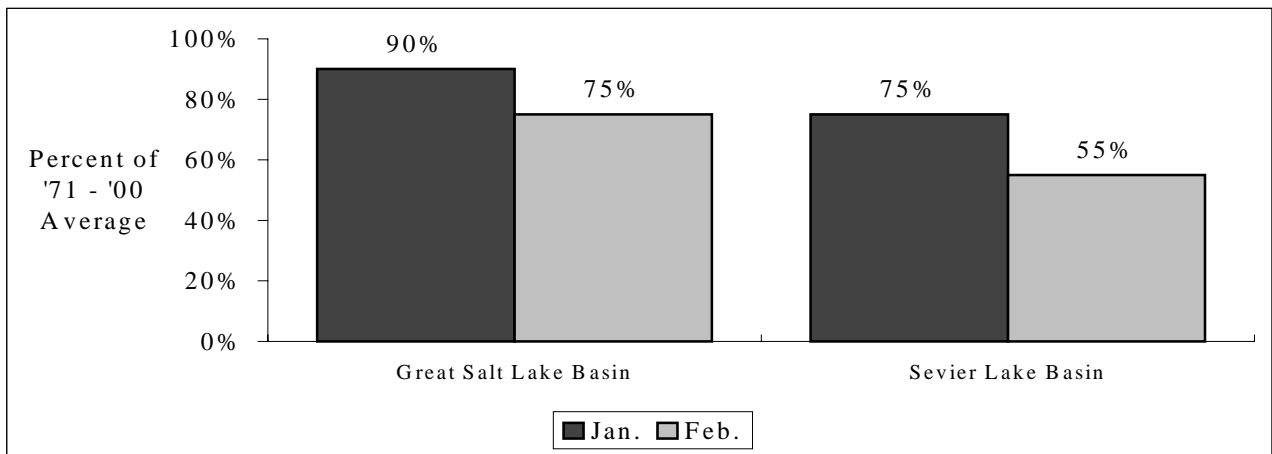


**FEBRUARY 1, 2002**

## SUMMARY

As of February 1 much below average to below average April-July runoff is expected throughout the Eastern Great Basin. Forecasts are expected to range from 50 to 90 percent of average in the Great Salt Lake Basin and 45 to 60 percent in the Sevier Lake Basin. Much below average monthly precipitation throughout the Great Basin resulted in a decrease in the snowpack of 15 to 30 percent leading to a comparable decrease in volume forecasts from last month. February 1 snowpack ranges mostly from 50 to 120 percent of average in the Great Salt Lake Basin and 35 to 90 percent in the Sevier Lake Basin.

## APRIL - JULY VOLUME FORECASTS



<b>INSIDE</b>	
Summary	1
Great Salt Lake Basin	2
Sevier Basin	3
Specific Site Forecasts	4,5
EOM Reservoir Contents	6
Monthly Streamflows	7
Precipitation Maps	8,9
Additional Information	10

## GREAT SALT LAKE BASIN

The February 1 water supply outlook is for much below average to below average runoff in the Great Salt Lake Basin.

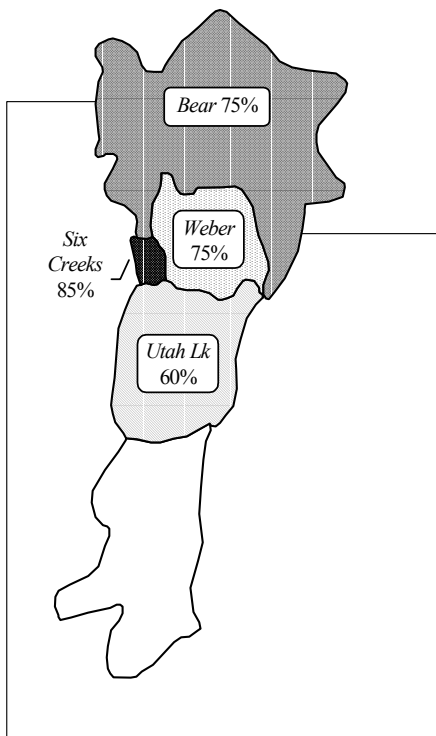
April-July streamflow forecasts for the Great Salt Lake Basin are as follows:

Bear River:  
Below Average

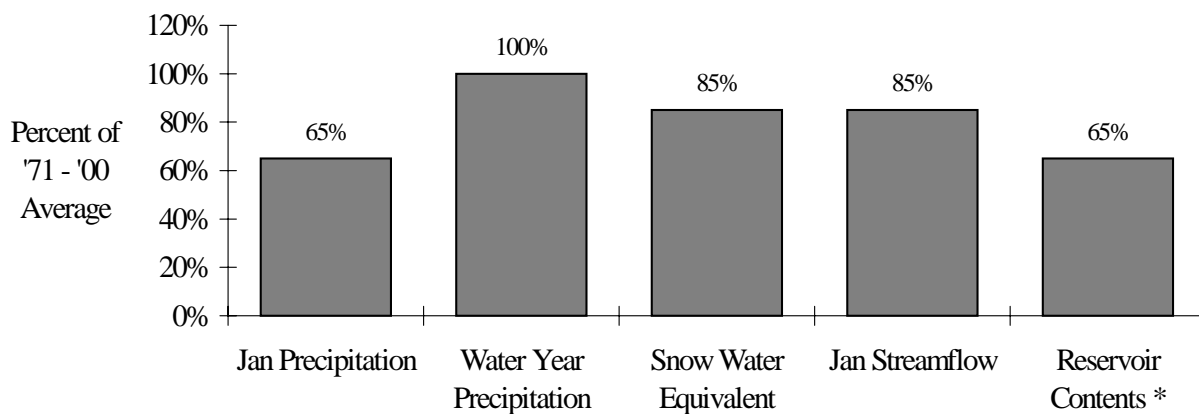
Weber River:  
Below Average

Utah Lake:  
Much Below Average

Six Creeks:  
Below Average



## BASIN CONDITIONS - FEBRUARY 1, 2002



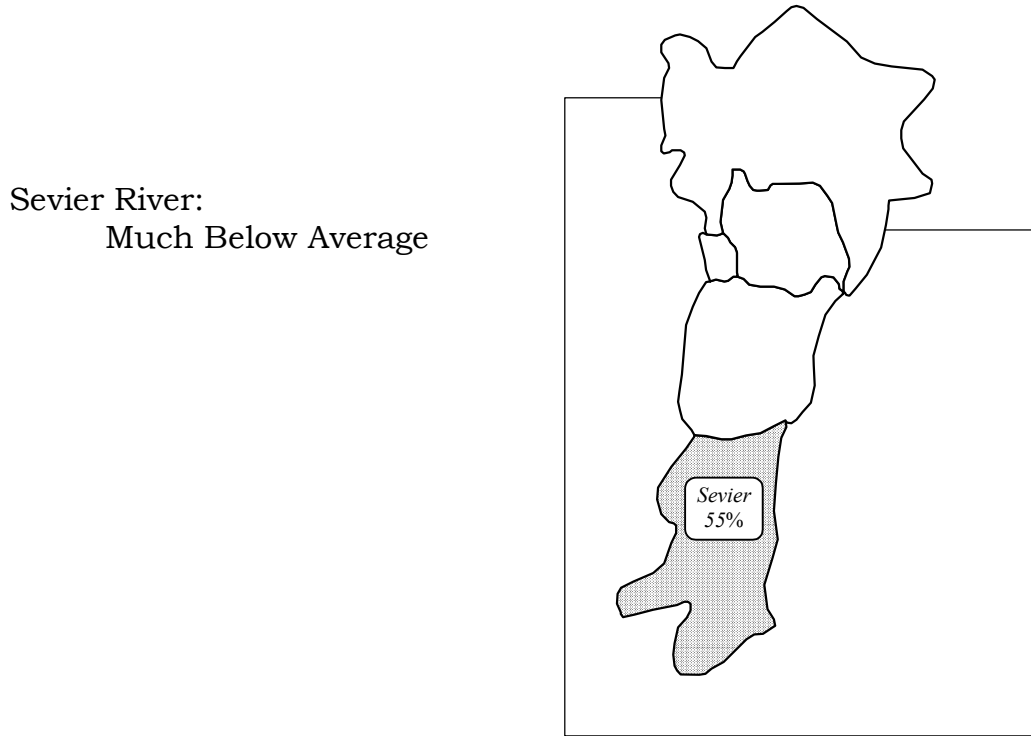
\* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 4.

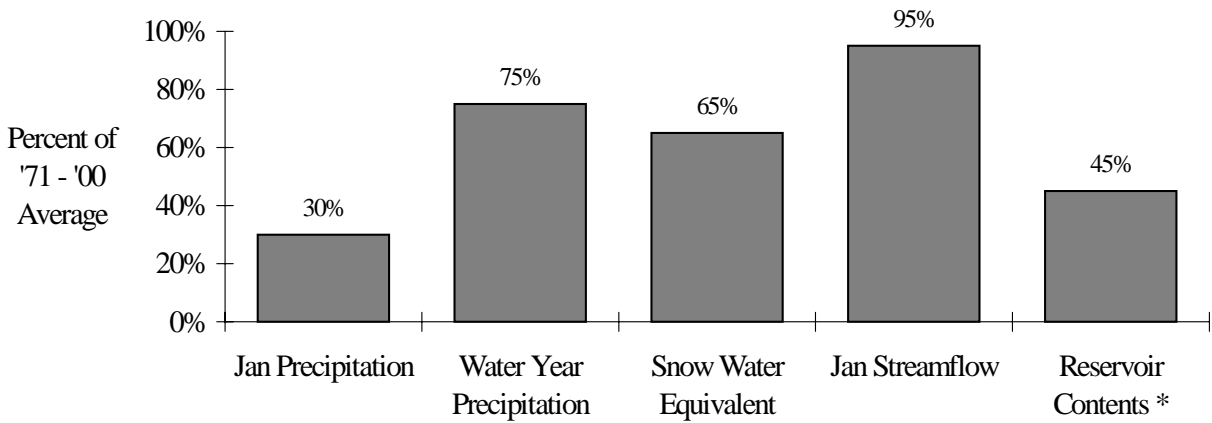
# SEVIER LAKE BASIN

The February 1 water supply outlook is for much below average April-July runoff volumes in the Sevier Lake Basin.

April-July streamflow forecasts for the Sevier Lake Basin are as follows:



## BASIN CONDITIONS - FEBRUARY 1, 2002



\* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 5.

## SPECIFIC SITE FORECASTS

**Great Salt Lake Basin:** April through July volume (kaf) forecasts (except where noted).

Stream	Station	Most Probable	Percent Avg.	Reas. Max	Reas. Min
BEAR	UTAH-WYOMING STATE LINE, NR	90	78	128	67
	WOODRUFF NARROWS RES	114	76	210	63
	RANDOLPH, NR	87	76	160	13.8
	MONTPELIER, NR, STEWART DAM,	200	69	305	95
BIG CK	RANDOLPH, NR	3	79	6.8	0.1
SMITHS FORK	BORDER, NR	79	77	121	53
THOMAS FORK	* WYOMING-IDAHO STATE LINE, NR	MB			
MONTPELIER CK	* MONTPELIER, NR, IRRIGATORS WI	MB			
CUB	* PRESTON, NR	BA			
LOGAN	LOGAN, NR, STATE DAM, ABV	93	76	144	60
BLACKSMITH FORK	HYRUM, NR, UP&L DAM, ABV	41	77	62	26
SMITH AND MOREHOUSE CK	OAKLEY, NR	23	77	35	11.3
WEBER	OAKLEY, NR	95	77	132	59
	ROCKPORT RES, WANSHIP, NR	101	73	161	41
	COALVILLE, NR	101	74	154	49
	ECHO RES, ECHO, AT	132	73	215	58
	GATEWAY	260	73	335	195
CHALK CK	COALVILLE	33	73	62	5.9
LOST CK	LOST CK RES, CROYDON, NR	13	78	25	0.2
EAST CANYON CK	EAST CANYON RES, MORGAN, NR	23	74	38	9.6
SF OGDEN	HUNTSVILLE, NR	50	78	76	26
OGDEN	PINEVIEW RES, OGDEN, NR	100	75	158	43
WHEELER CK	HUNTSVILLE, NR	4.5	73	6.8	2.2
SPANISH FORK	CASTILLA, NR	39	51	87	7.7
PROVO	WOODLAND, NR	72	70	105	39
	HAILSTONE, NR	71	65	113	29
	DEER CK RES	91	59	155	27
AMERICAN FORK	AMERICAN FORK, NR, UP PWRPLN	18	56	29	7.2
JORDAN	UTAH LAKE, PROVO, NR	180	55	365	45
LITTLE COTTONWOOD CK	SALT LAKE CITY, NR	35	88	46	24
BIG COTTONWOOD CK	SALT LAKE CITY, NR	33	87	44	22
CITY CK	SALT LAKE CITY, NR	7.4	85	11.9	2.9
EMIGRATION CK	SALT LAKE CITY, NR	3.7	82	7.4	0
MILL CK	SALT LAKE CITY, NR	5.7	81	8.9	2.5
DELL FK	LITTLE DELL RES	5.4	79	9.9	1
PARLEYS CK	SALT LAKE CITY, NR	13.5	81	24	3.4
VERNON CK	VERNON, NR	0.9	67	1.6	0.5
S WILLOW CK	GRANTSVILLE, NR	2.1	66	4.5	0.1
SETTLEMENT CK	TOOELE, NR	1.6	67	4.5	0.5

**Sevier Lake Basin:** April through July volume (kaf) forecasts (except where noted).

Stream	Station	Most Probable	Percent Avg.	Reas. Max	Reas. Min
SEVIER	HATCH	28	51	55	7.7
	KINGSTON, NR	43	48	77	10
	PIUTE RES, MARYSVALE, NR	60	48	118	5.8
	VERMILLION DAM	96	56	148	15
	SIGURD, NR	102	55	184	15
	GUNNISON, NR, SAN PITCH, BLO	162	58	345	30
EF SEVIER	KINGSTON, NR	17	45	42	2.2
CLEAR CK	SEVIER, NR, DIV, ABV	13	59	24	2
SALINA CK	* SALINA	MB			
CHICKEN CK	LEVAN, NR	3	62	8	1
OAK CK	OAK CITY, NR, LITTLE CK, ABV	1.1	62	2.1	0.6
BEAVER	BEAVER, NR	15	56	29	6.2
	MINERSVILLE RES, MINERSVILLE,	9.9	59	22	4.3
COAL CK	CEDAR CITY, NR	9.3	48	16.8	4

\* Categorical Forecast - Current regulations allow for discontinuance of a streamflow volume forecast when observations at the point have not been taken or recorded for 5 years or longer. Recognizing the importance to the user, the NWS and NRCS have often continued to provide forecasts long after observations have ceased. Forecasters will now have the option to express these forecasts categorically (e.g. instead of issuing a forecast of 77 percent of average, the forecast would simply be “below average”). Specifically, the categories are:

MA - much above average (greater than 130 percent of average)

AA - above average (111- 130 percent of average)

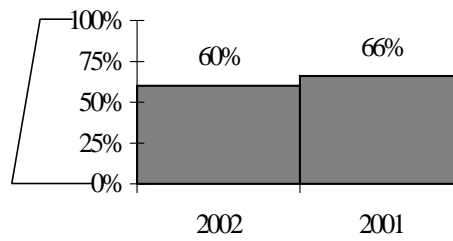
NA - near average (90-110 percent of average)

BA - below average (70-89 percent of average)

MB - much below average (less than 70 percent of average)

# END OF MONTH RESERVOIR CONTENTS

Percent of Usable Capacity



Details of Reservoir Information not available at this time.

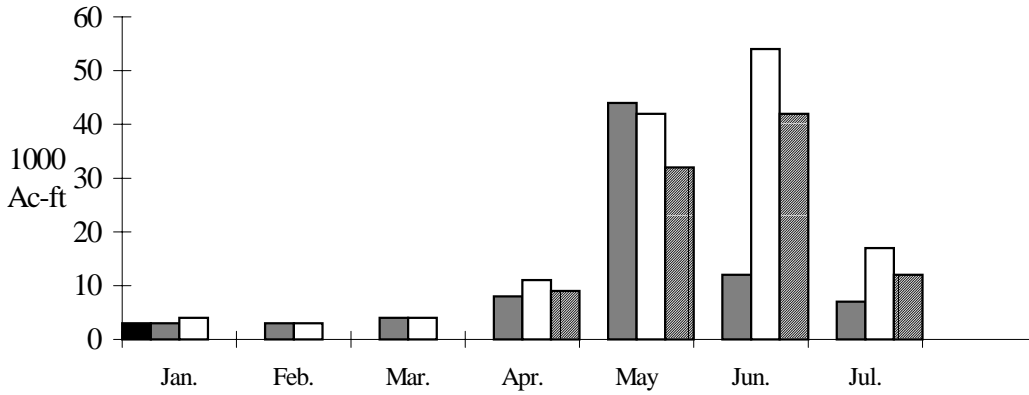
\* Usable capacity taken at compromise      Total does not include missing site usable capacities

# MONTHLY STREAMFLOWS

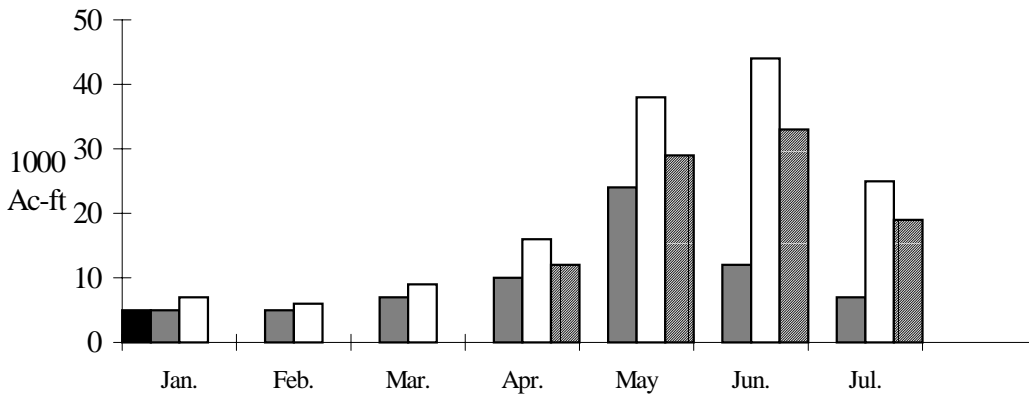
†



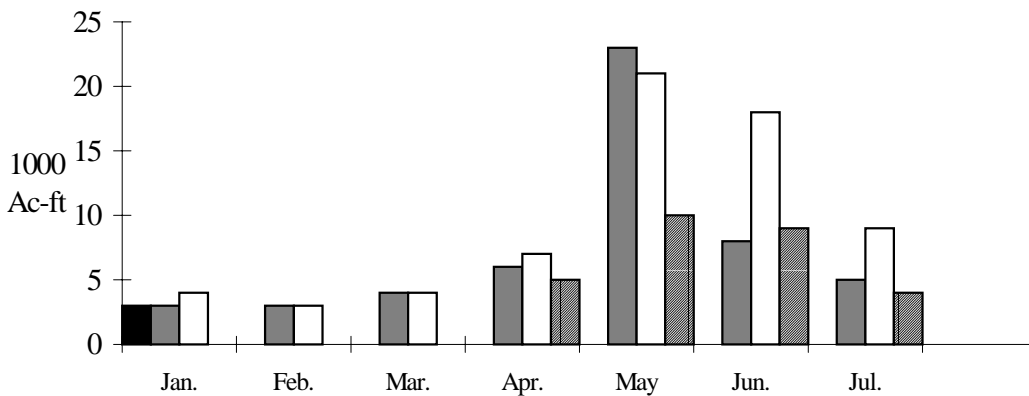
## Weber Oakley, nr:



## Logan - Logan, nr, State Dam, abv:



## Sevier - Hatch:

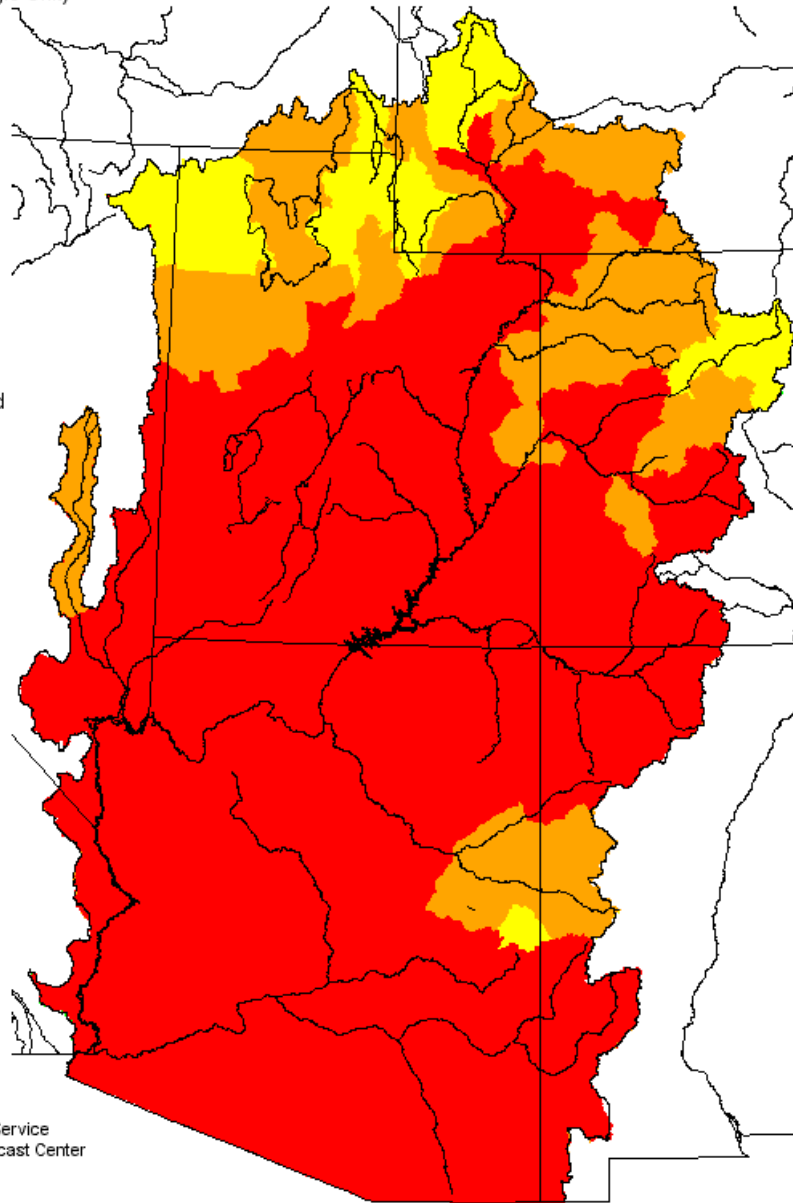
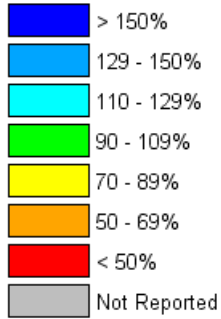


\* observed data unavailable

# Monthly Precipitation for January 2002

(Averaged by Hydrologic Unit)

## % Average



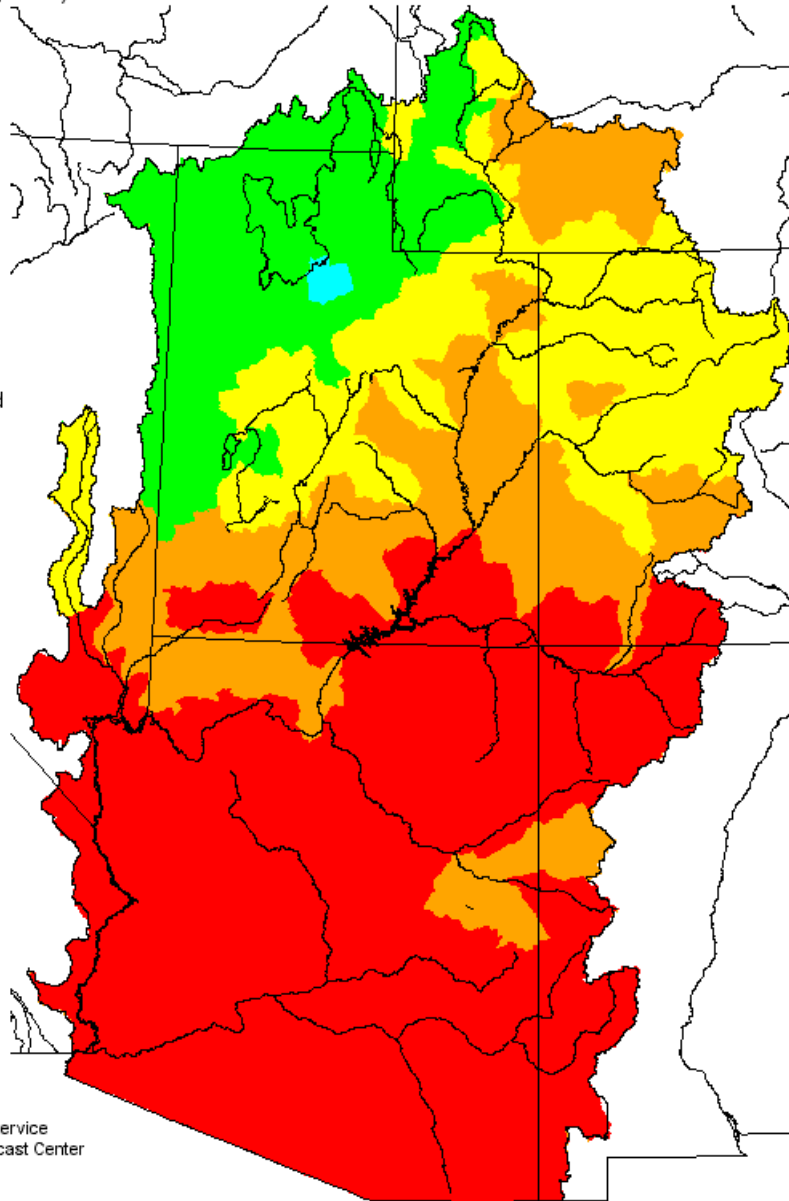
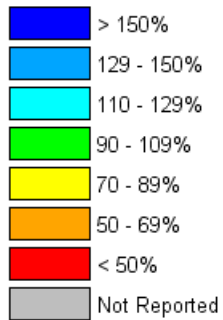
Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)



# 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	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

2242 W. North Temple · Salt Lake City, UT 84116 · (801) 524-5130 · <http://www.cbrfc.gov>