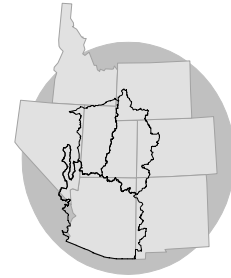


# WATER SUPPLY OUTLOOK for the EASTERN GREAT BASIN

**COLORADO BASIN  
RIVER FORECAST CENTER**

NATIONAL WEATHER SERVICE, SALT LAKE CITY, UT

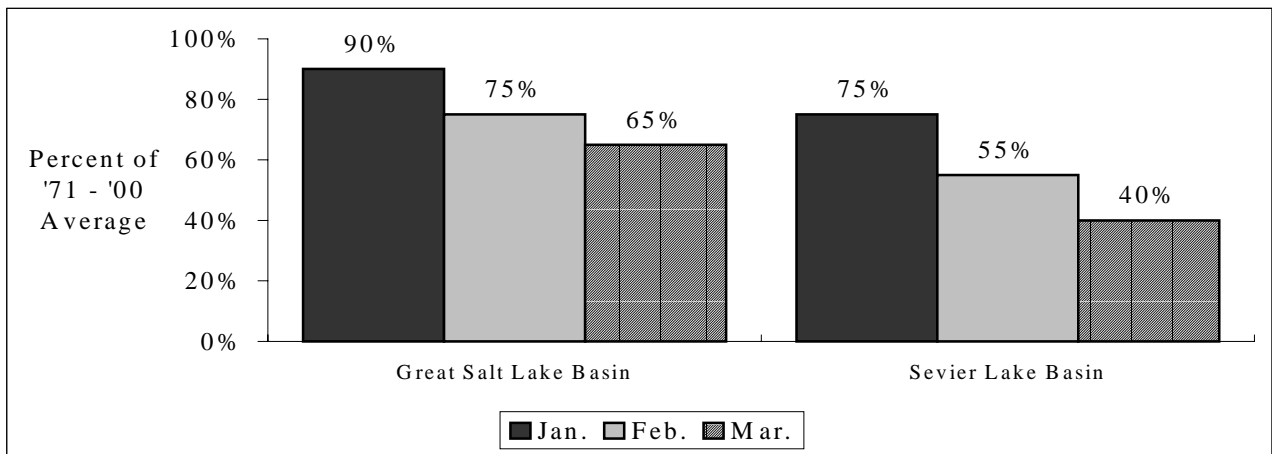


MARCH 1, 2002

## SUMMARY

As of March 1 much below average April-July runoff is expected throughout the Eastern Great Basin, with the exception of the Six Creeks area, which is below average. Forecasts are expected to range from 40 to 85 percent of average in the Great Salt Lake Basin and 30 to 55 percent in the Sevier Lake Basin. Much below average monthly precipitation throughout the Great Basin resulted in a decrease in volume forecasts from last month of 10 percent in the North and 15 percent in the South.

## APRIL - JULY VOLUME FORECASTS



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## GREAT SALT LAKE BASIN

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

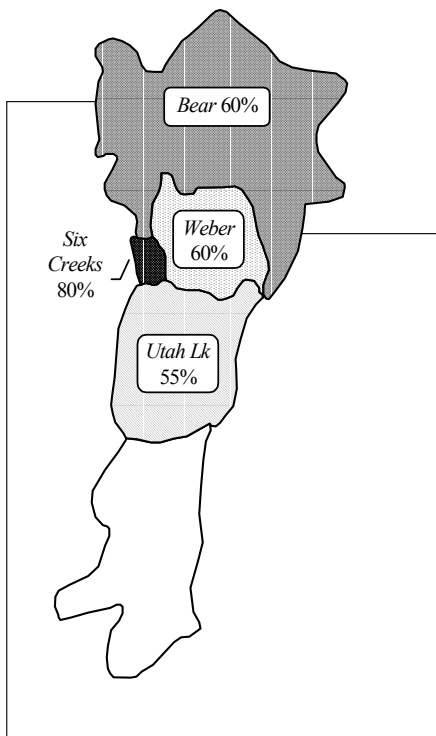
April-July streamflow forecasts for the Great Salt Lake Basin are as follows:

Bear River:  
Much Below Average

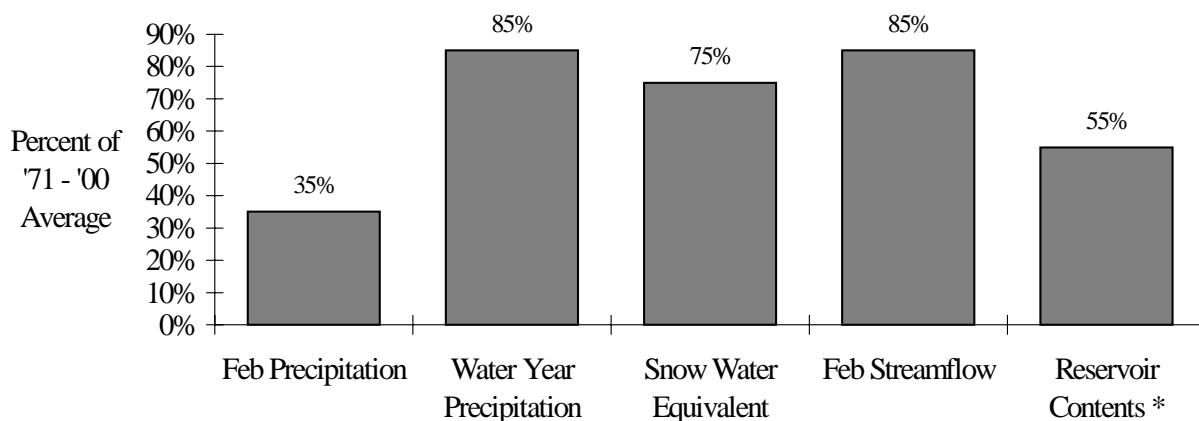
Weber River:  
Much Below Average

Utah Lake:  
Much Below Average

Six Creeks:  
Below Average



## BASIN CONDITIONS - MARCH 1, 2002



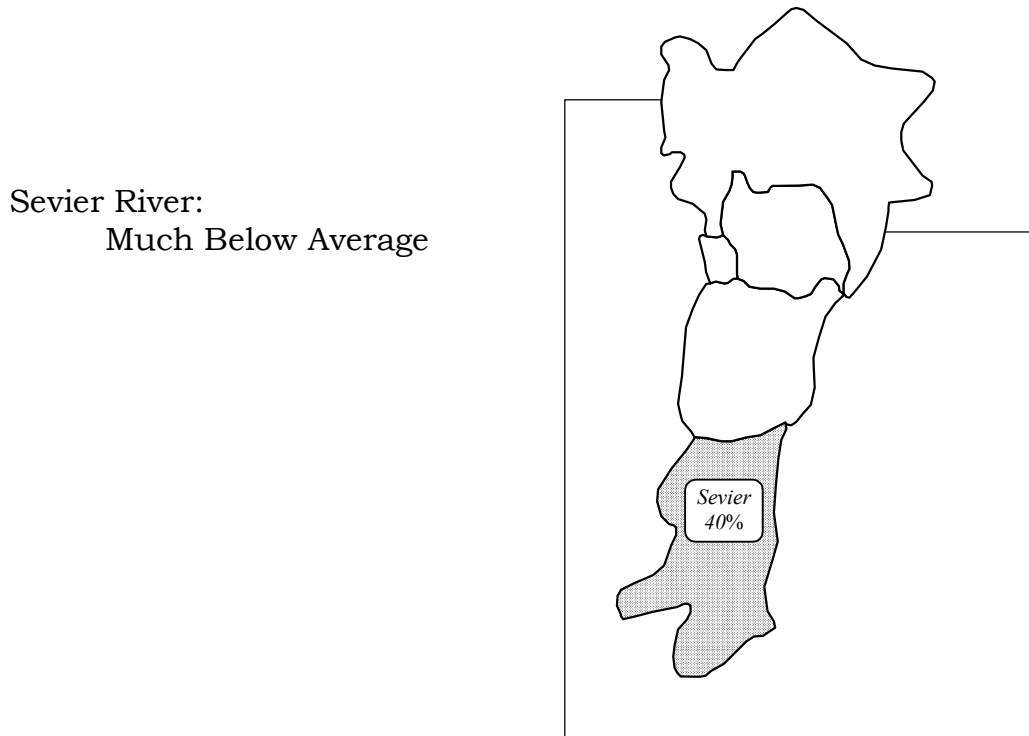
\* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 4.

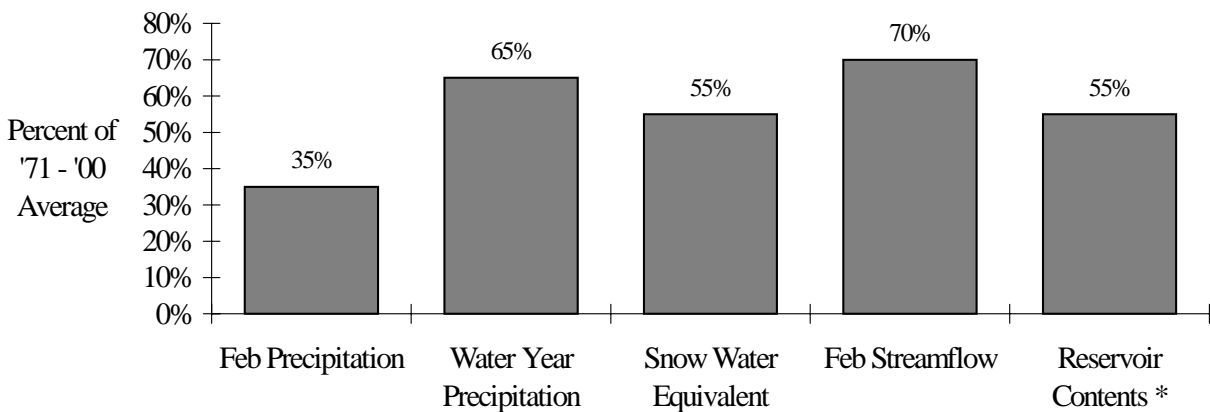
## SEVIER LAKE BASIN

The March 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 - MARCH 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	76	66	104	58
	WOODRUFF NARROWS RES	95	63	165	25
	RANDOLPH, NR	63	55	132	1.1
	MONTPELIER, NR, STEWART DAM,	120	42	225	17.3
BIG CK	RANDOLPH, NR	2.3	61	5.9	0.1
SMITHS FORK	BORDER, NR	57	55	82	40
THOMAS FORK	* WYOMING-IDAHO STATE LINE, NR	MB			
MONTPELIER CK	* MONTPELIER, NR, IRRIGATORS WI	MB			
CUB	* PRESTON, NR	MB			
LOGAN	LOGAN, NR, STATE DAM, ABV	72	59	98	54
BLACKSMITH FORK	HYRUM, NR, UP&L DAM, ABV	32	60	45	22
SMITH AND MOREHOUSE CK	OAKLEY, NR	18	60	27	8.7
WEBER	OAKLEY, NR	77	63	112	42
	ROCKPORT RES, WANSHIP, NR	84	61	138	30
	COALVILLE, NR	91	67	136	46
	ECHO RES, ECHO, AT	112	62	183	41
	GATEWAY	210	59	285	146
CHALK CK	COALVILLE	30	67	53	8.6
LOST CK	LOST CK RES, CROYDON, NR	10.6	63	20	0.3
EAST CANYON CK	EAST CANYON RES, MORGAN, NR	18	58	33	4.3
SF OGDEN	HUNTSVILLE, NR	37	58	57	17.9
OGDEN	PINEVIEW RES, OGDEN, NR	80	60	122	38
WHEELER CK	HUNTSVILLE, NR	3.4	55	5.3	1.5
SPANISH FORK	CASTILLA, NR	38	49	83	7.7
PROVO	WOODLAND, NR	65	63	94	36
	HAILSTONE, NR	63	58	101	25
	DEER CK RES	80	52	134	27
AMERICAN FORK	AMERICAN FORK, NR, UP PWRPLN	16	50	25	7.2
JORDAN	UTAH LAKE, PROVO, NR	165	51	325	6.1
LITTLE COTTONWOOD CK	SALT LAKE CITY, NR	34	85	43	25
BIG COTTONWOOD CK	SALT LAKE CITY, NR	30	79	40	20
CITY CK	SALT LAKE CITY, NR	7.4	85	11.3	3.5
EMIGRATION CK	SALT LAKE CITY, NR	3.7	82	6.9	0.5
MILL CK	SALT LAKE CITY, NR	5.7	81	8.4	3
DELL FK	LITTLE DELL RES	5.2	76	9.1	1.4
PARLEYS CK	SALT LAKE CITY, NR	13	78	21	5.1
VERNON CK	VERNON, NR	0.6	46	1.1	0.3
S WILLOW CK	GRANTSVILLE, NR	1.4	44	3.7	0.1
SETTLEMENT CK	TOOELE, NR	1	43	2.9	0.3

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

Stream	Station	Most Probable	Percent Avg.	Reas. Max	Reas. Min
SEVIER	HATCH	22	40	48	5.5
	KINGSTON, NR	33	37	70	8.9
	PIUTE RES, MARYSVALE, NR	50	40	118	5.8
	VERMILLION DAM	83	48	150	16.3
	SIGURD, NR	87	47	194	18.6
	GUNNISON, NR, SAN PITCH, BLO	148	53	370	36
EF SEVIER	KINGSTON, NR	12	32	36	2.2
CLEAR CK	SEVIER, NR, DIV, ABV	11	50	22	4.1
SALINA CK	* SALINA	MB			
CHICKEN CK	LEVAN, NR	1.8	38	4	1
OAK CK	OAK CITY, NR, LITTLE CK, ABV	0.6	35	1.1	0.4
BEAVER	BEAVER, NR	12	44	17.6	8.9
	MINERSVILLE RES, MINERSVILLE,	6.5	39	11.4	3.7
COAL CK	CEDAR CITY, NR	7.5	39	15.2	2.5

\* 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)

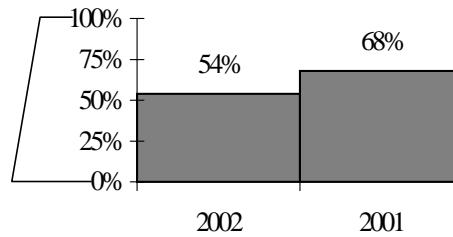
NA - near average (90-110 percent of average)

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

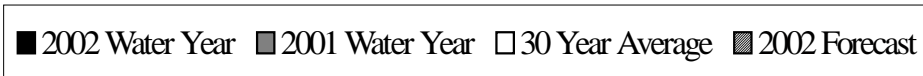


RESERVOIR (vol. in 1000 ac-ft)	Usable Capacity	EOM Usable Contents	Percent Usable Capacity (%)
Bear Lake	1421	593.8	42
Causey	7.1	2.5	35
Jordanelle	311	239	77
Deer Creek	149.7	101	67
East Canyon	49.5	25.4	51
Echo	73.9	38	51
Gunnison	20.3	2.4	12
Hyrum	15.3	10	65
Lost Creek	22.5	4.6	20
Minersville	23.3	9.2	39
Otter Creek	52.5	39.2	75
Pine View	110.1	46.9	43
Piute	71.8	49.5	69
Rockport	60.9	22.2	36
Sevier bridge	236	119.4	51
* Utah Lake	870.9	638	73
Willard	215	103.7	48
Woodruff Narrows	55.8	5.5	10
<b>TOTAL</b>	<b>3766.6</b>	<b>2050.3</b>	<b>54</b>
Flaming Gorge	3749	2834.9	76
Lake Powell	24322	17200	71
Moon Lake	36	14.8	41
Red Fleet	25.7	missing	missing
Scofield	65.8	28.3	43
Starvation	165.3	158.7	96
Steinaker	34.4	missing	missing
Strawberry	1105.9	missing	missing
Upper Stillwater	32.5	missing	missing

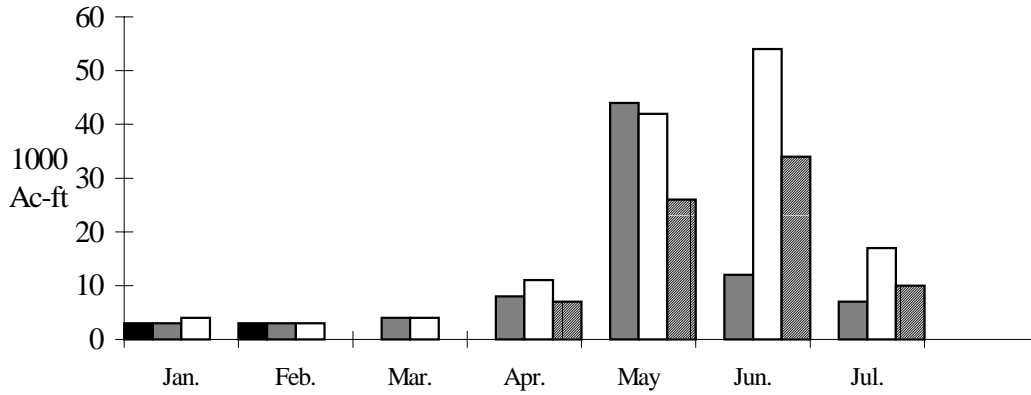
\* Usable capacity taken at

# MONTHLY STREAMFLOWS

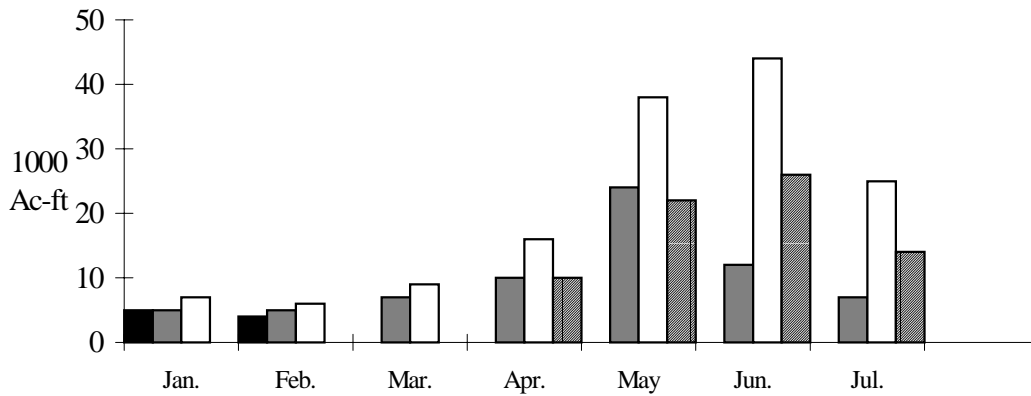
†



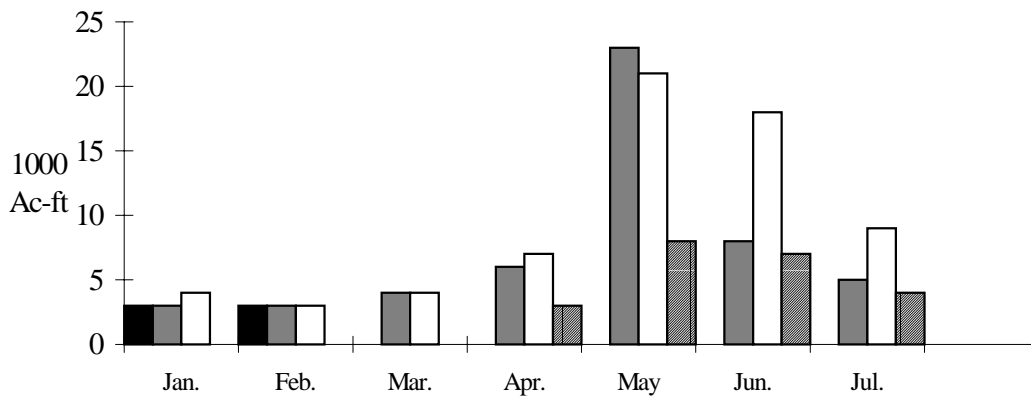
## Weber Oakley, nr:



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



## Sevier - Hatch:

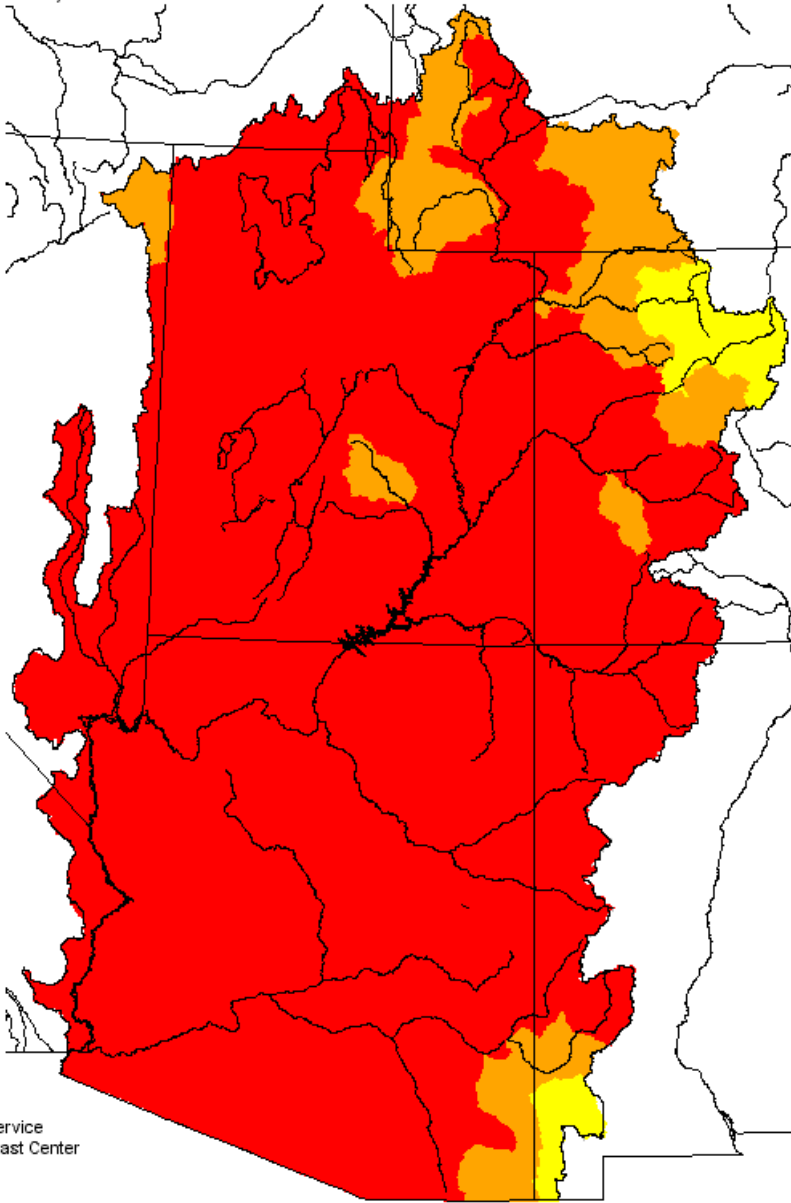
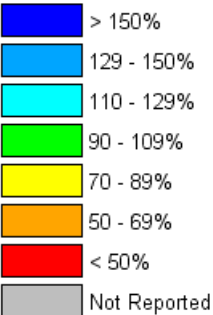


\* observed data unavailable

# Monthly Precipitation for February 2002

(Averaged by Hydrologic Unit)

## % Average



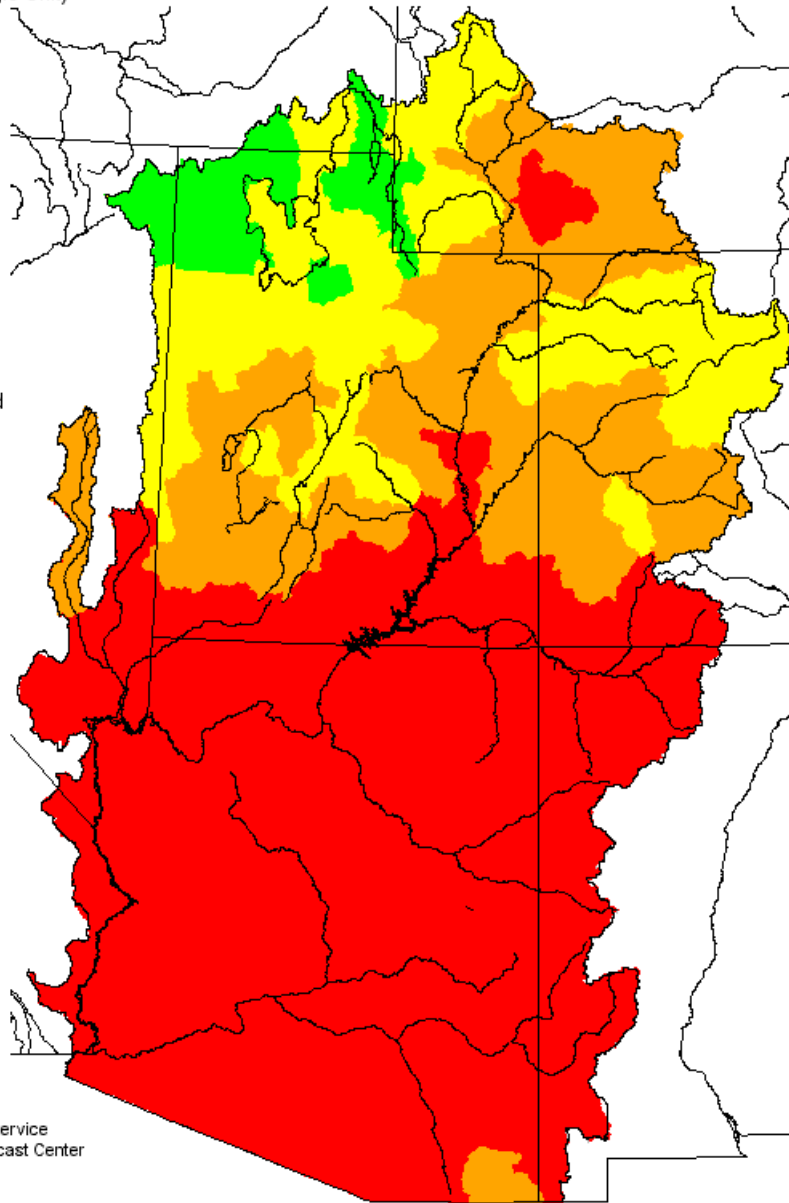
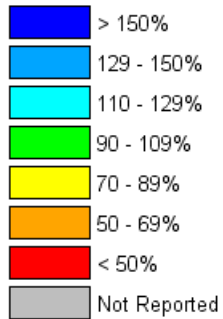
Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)



# Seasonal Precipitation, October 2001 - February 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>