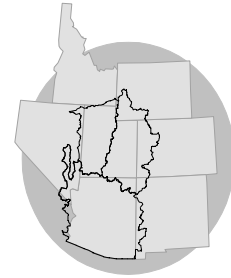


# WATER SUPPLY OUTLOOK for the EASTERN GREAT BASIN

**COLORADO BASIN  
RIVER FORECAST CENTER**

NATIONAL WEATHER SERVICE, SALT LAKE CITY, UT

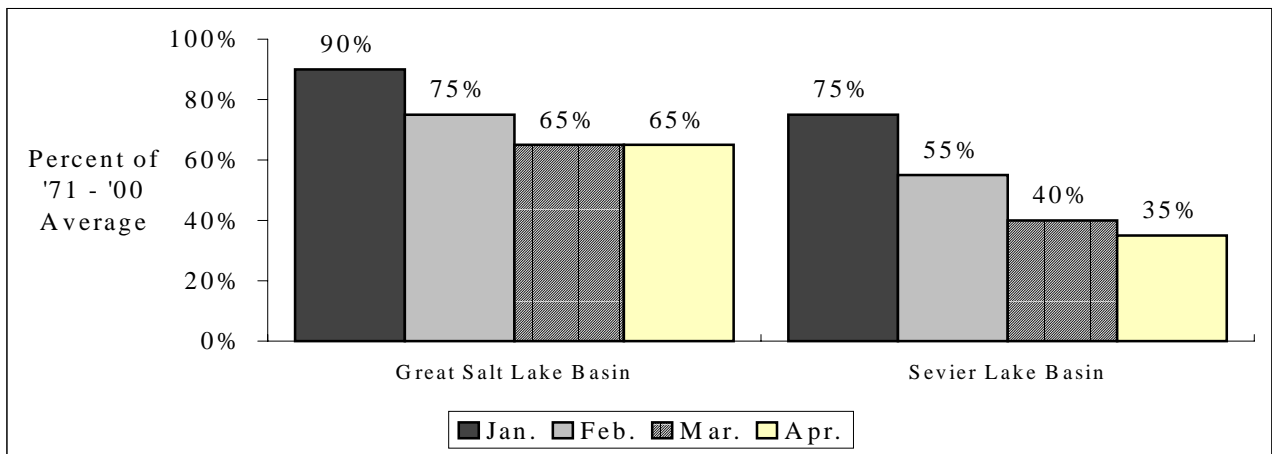


APRIL 1, 2002

## SUMMARY

As of April 1 much below average April-July runoff is still expected throughout the Eastern Great Basin, with the exception of the Six Creeks area, which is below to near average. Forecasts are expected to range from 40 to 90 percent of average in the Great Salt Lake Basin and 20 to 50 percent in the Sevier Lake Basin. Slight changes overall were seen in the volume forecasts from last month, with the exception of the Six Creeks area, which increased 10 percent.

## APRIL - JULY VOLUME FORECASTS



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## GREAT SALT LAKE BASIN

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

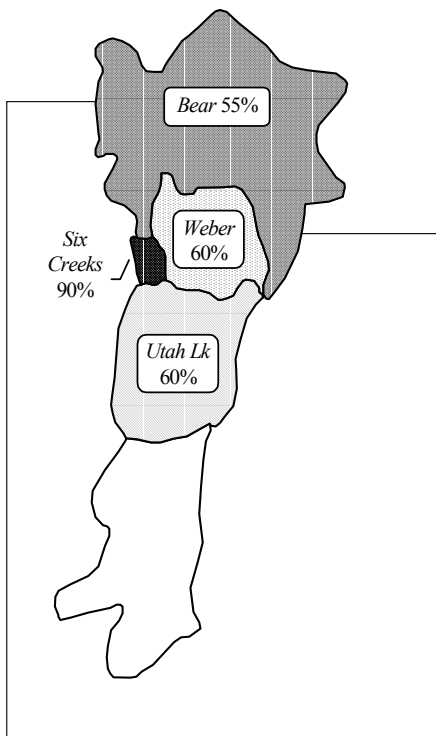
April-July streamflow forecasts for the Great Salt Lake Basin are as follows:

Bear River:  
Much Below Average

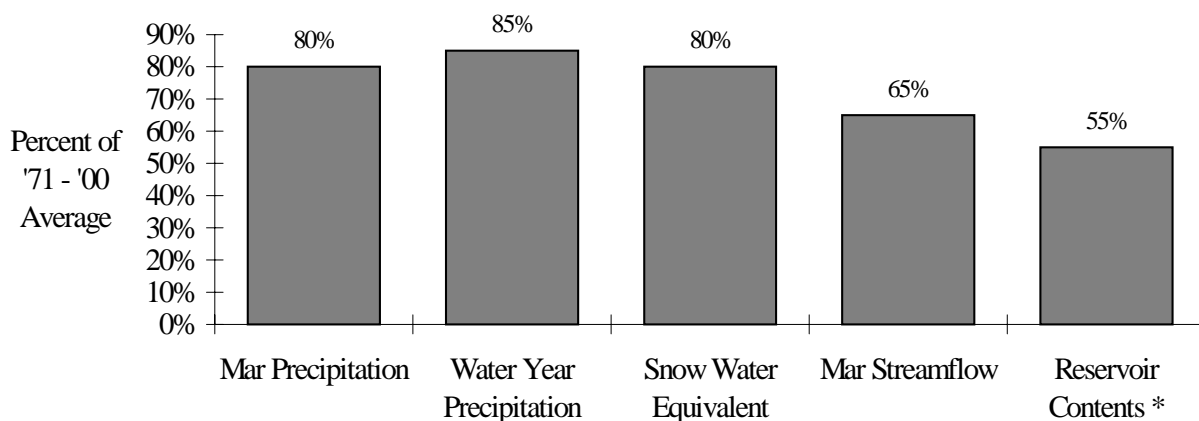
Weber River:  
Much Below Average

Utah Lake:  
Much Below Average

Six Creeks:  
Near Average



## BASIN CONDITIONS - APRIL 1, 2002



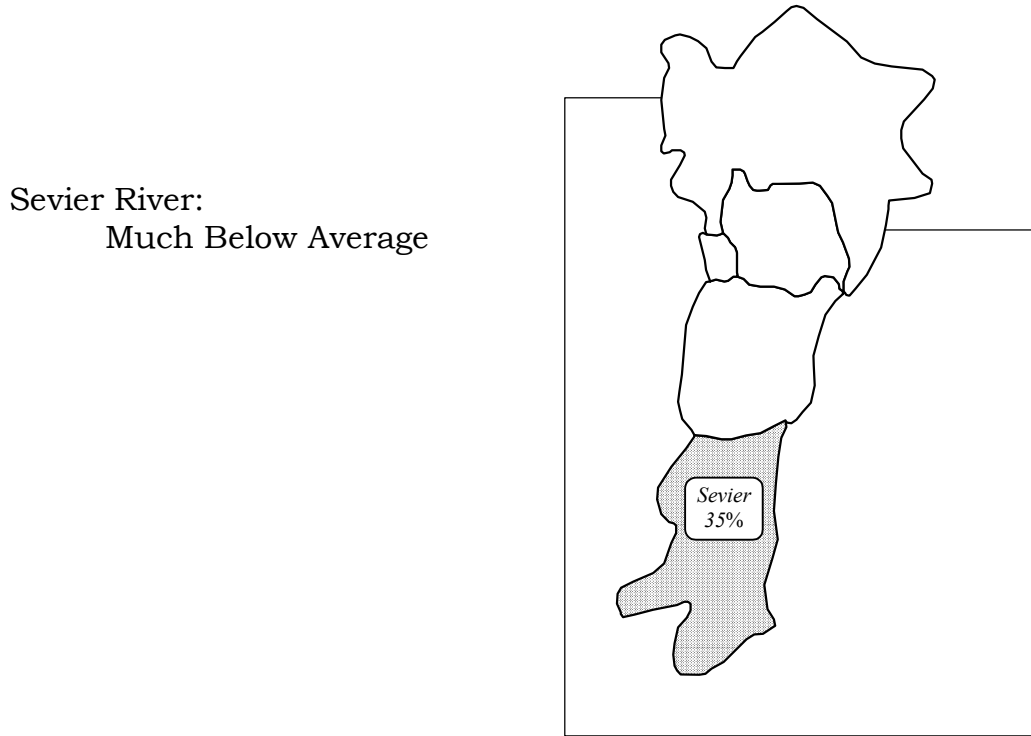
\* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 4.

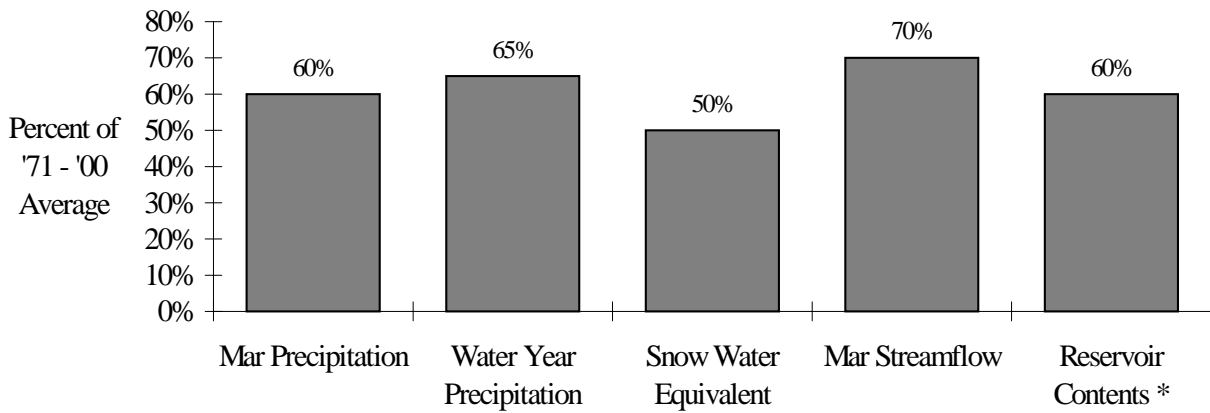
# SEVIER LAKE BASIN

The April 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 - APRIL 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	71	61	101	41
	WOODRUFF NARROWS RES	91	61	159	23
	RANDOLPH, NR	62	54	127	6.9
	MONTPELIER, NR, STEWART DAM,	110	38	200	17.3
BIG CK	RANDOLPH, NR	2.3	61	5.9	0.34
SMITHS FORK	BORDER, NR	55	53	79	31
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	102	42
BLACKSMITH FORK	HYRUM, NR, UP&L DAM, ABV	32	60	54	10.4
SMITH AND MOREHOUSE CK	OAKLEY, NR	18	60	25	10.8
WEBER	OAKLEY, NR	77	63	109	45
	ROCKPORT RES, WANSHIP, NR	84	61	133	35
	COALVILLE, NR	91	67	126	54
	ECHO RES, ECHO, AT	112	62	177	47
	GATEWAY	220	62	360	79
CHALK CK	COALVILLE	31	69	56	6.3
LOST CK	LOST CK RES, CROYDON, NR	10.6	63	17.2	4
EAST CANYON CK	EAST CANYON RES, MORGAN, NR	19	61	32	5.7
SF OGDEN	HUNTSVILLE, NR	37	58	57	17.5
OGDEN	PINEVIEW RES, OGDEN, NR	80	60	119	41
WHEELER CK	HUNTSVILLE, NR	3.4	55	5	1.86
SPANISH FORK	CASTILLA, NR	46	60	86	6.1
PROVO	WOODLAND, NR	65	63	92	38
	HAILSTONE, NR	65	60	101	29
	DEER CK RES	83	66	134	32
AMERICAN FORK	AMERICAN FORK, NR, UP PWRPLN	17	53	24	10.3
JORDAN	UTAH LAKE, PROVO, NR	170	52	305	33
LITTLE COTTONWOOD CK	SALT LAKE CITY, NR	36	90	42	30
BIG COTTONWOOD CK	SALT LAKE CITY, NR	34	89	42	26
CITY CK	SALT LAKE CITY, NR	8	92	11.4	4.6
EMIGRATION CK	SALT LAKE CITY, NR	4.1	91	7	1.25
MILL CK	SALT LAKE CITY, NR	6.5	93	9.1	3.9
DELL FK	LITTLE DELL RES	5.7	84	9.5	1.92
PARLEYS CK	SALT LAKE CITY, NR	14	84	21	6.9
VERNON CK	VERNON, NR	0.56	42	0.94	0.34
S WILLOW CK	GRANTSVILLE, NR	1.2	37	3.2	0.03
SETTLEMENT CK	TOOELE, NR	0.84	37	2.2	0.32

**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	40	4
	KINGSTON, NR	33	37	61	5.1
	PIUTE RES, MARYSVALE, NR	50	40	103	5.8
	VERMILLION DAM	77	45	142	24
	SIGURD, NR	82	44	171	3.3
	GUNNISON, NR, SAN PITCH, BLO	120	43	350	42
EF SEVIER	KINGSTON, NR	12	32	32	2.2
CLEAR CK	SEVIER, NR, DIV, ABV	11	50	21	1
SALINA CK	* SALINA	MB			
CHICKEN CK	LEVAN, NR	1	21	1	1
OAK CK	OAK CITY, NR, LITTLE CK, ABV	0.51	28	0.76	0.34
BEAVER	BEAVER, NR	9	33	12.2	7.3
	MINERSVILLE RES, MINERSVILLE,	5	30	6	4.2
COAL CK	CEDAR CITY, NR	4.6	24	9	1.7

\* 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)

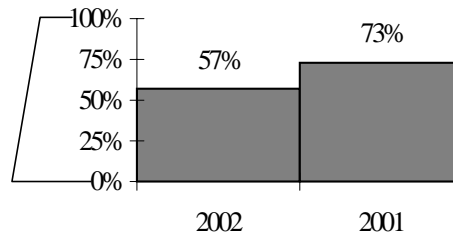
NA - near average (90-110 percent of average)

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	605.5	43
Causey	7.1	2.9	41
Jordanelle	311	234.5	75
Deer Creek	149.7	103.2	69
East Canyon	49.5	29	59
Echo	73.9	42.4	57
Gunnison	20.3	6.3	31
Hyrum	15.3	14.8	97
Lost Creek	22.5	7.5	33
Minersville	23.3	10	43
Otter Creek	52.5	41.8	80
Pine View	110.1	59.9	54
Piute	71.8	50.1	70
Rockport	60.9	26.6	44
Sevier bridge	236	134.9	57
* Utah Lake	870.9	668.8	77
Willard	215	109.2	51
Woodruff Narrows	55.8	9.3	17
TOTAL	3766.6	2156.7	57
Flaming Gorge	3749	2828.5	75
Lake Powell	24322	16927	70
Moon Lake	36	16.2	45
Red Fleet	25.7	19.2	75
Scofield	65.8	30	46
Starvation	165.3	166.7	101
Steinaker	34.4	missing	missing
Strawberry	1105.9	898.4	81
Upper Stillwater	32.5	7.7	24

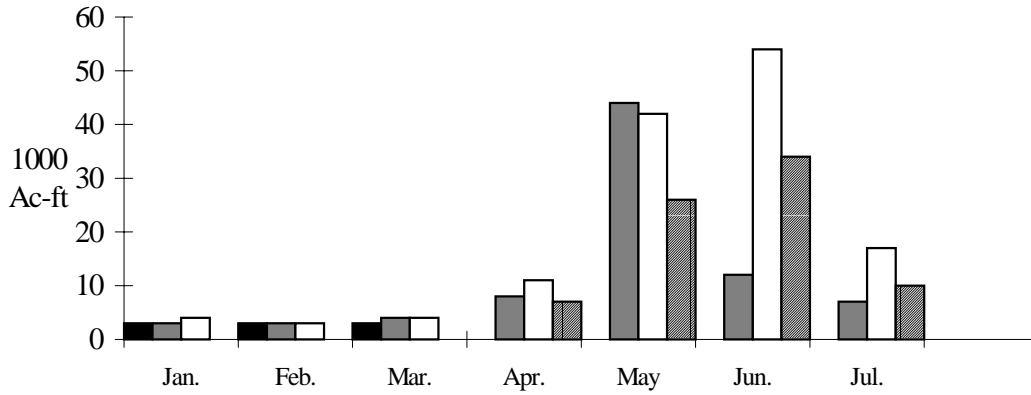
\* Usable capacity taken at compromise      Total does not include missing site usable capacities

# MONTHLY STREAMFLOWS

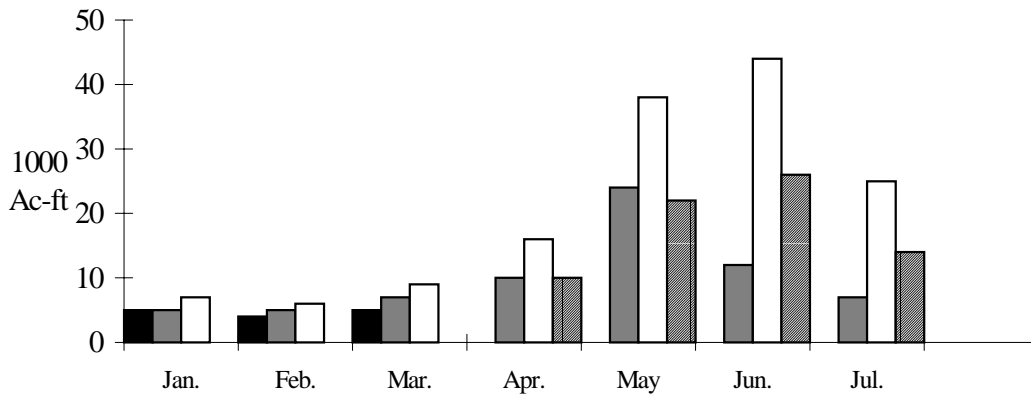
†



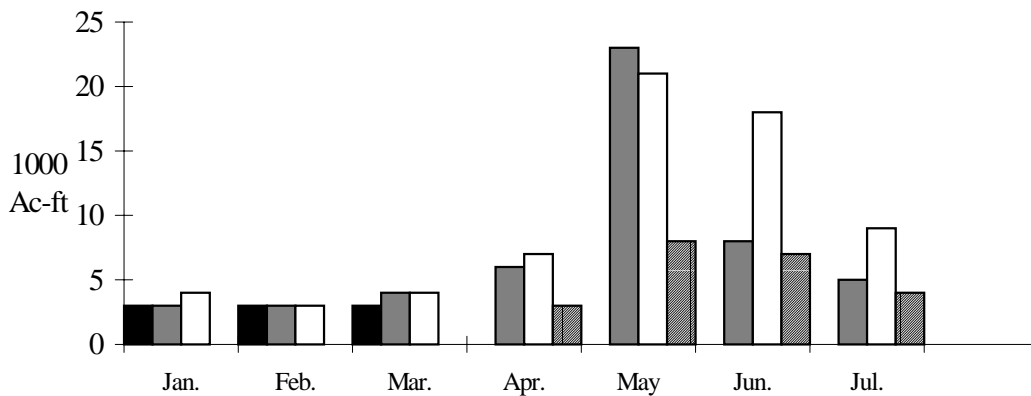
## Weber Oakley, nr:



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



## Sevier - Hatch:

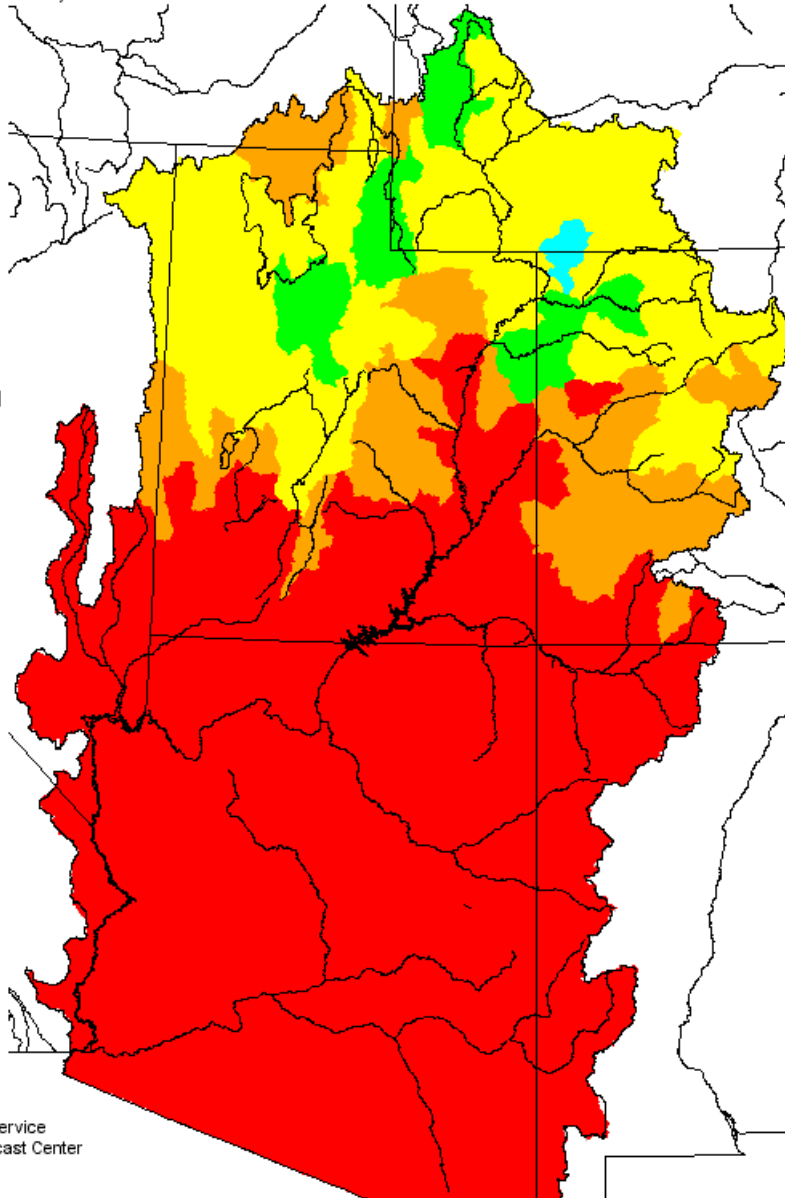
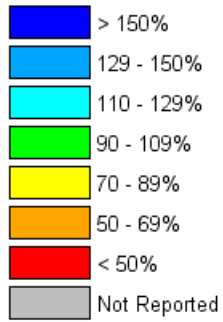


\* observed data unavailable

# Monthly Precipitation for March 2002

(Averaged by Hydrologic Unit)

## % Average



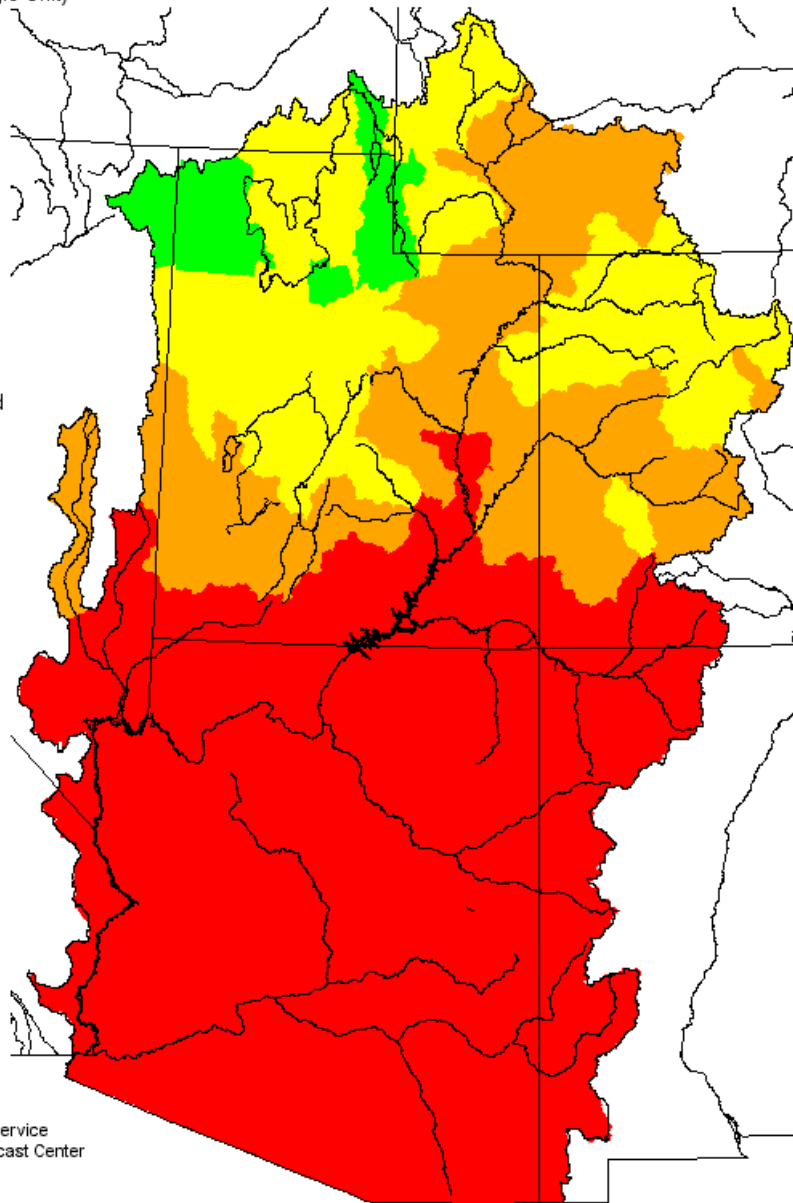
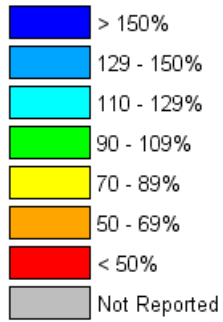
Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)



# Seasonal Precipitation, October 2001 - March 2002

(Averaged by Hydrologic Unit)

## % Average



Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
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## 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>