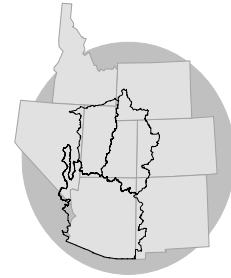


**WATER SUPPLY OUTLOOK**  
 for the  
**EASTERN GREAT BASIN**  
*COLORADO BASIN*  
*RIVER FORECAST CENTER*



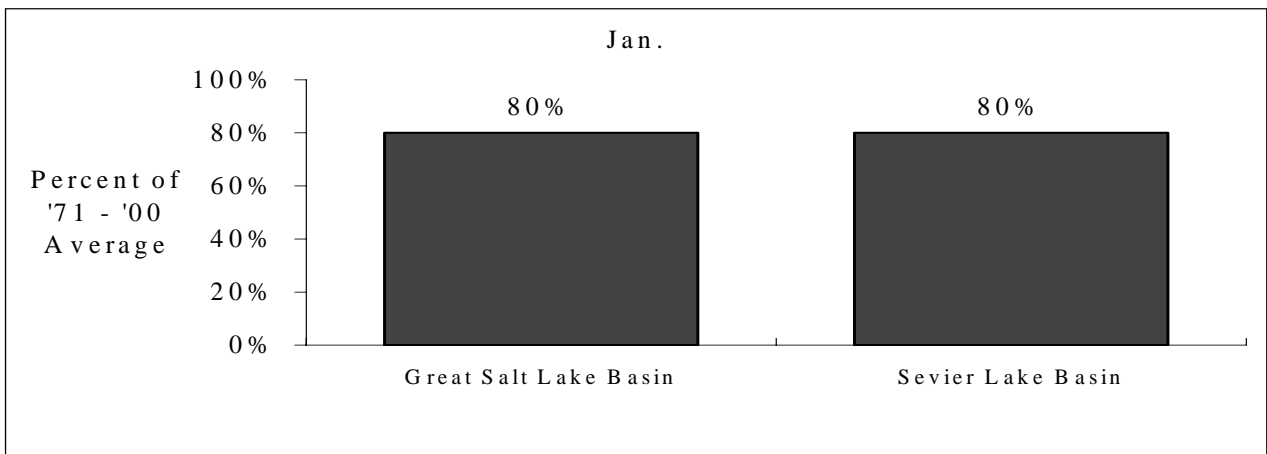
NATIONAL WEATHER SERVICE, SALT LAKE CITY, UT

JANUARY 1, 2007

**SUMMARY**

Very warm temperatures and dry conditions during November and December have resulted in a below normal snowpack for much of Utah. Streamflow volumes ranged from 65% in the Sevier to 126 percent of average on the Logan. Snowpack remain below average over much of the Great Basin except in the northern most basins. Below average April-July runoff volumes are anticipated throughout the Great Basin. Volume forecasts for the overall April-July period range from 57 to 90 percent in the Great Salt Lake Basin and 52 to 93 percent in the Sevier 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

Northern Utah snowpacks are generally below average with the exception of the Logan River. Stream flows however remain above average for this time of year. The April through July runoff volume forecast ranged from 71 to 89 percent of average.

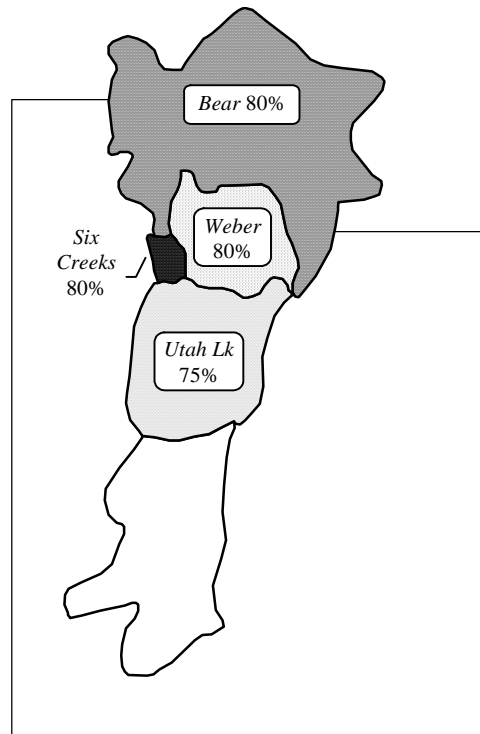
April-July streamflow forecasts for the Great Salt Lake Basin are as follows:

Bear River:  
Below Average

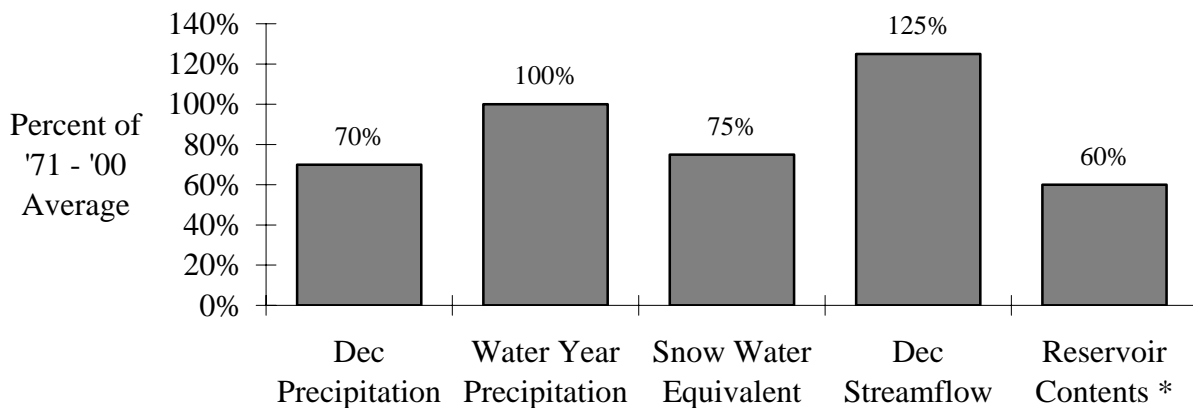
Weber River:  
Below Average

Utah Lake:  
Below Average

Six Creeks:  
Below Average



## BASIN CONDITIONS - JANUARY 1, 2007



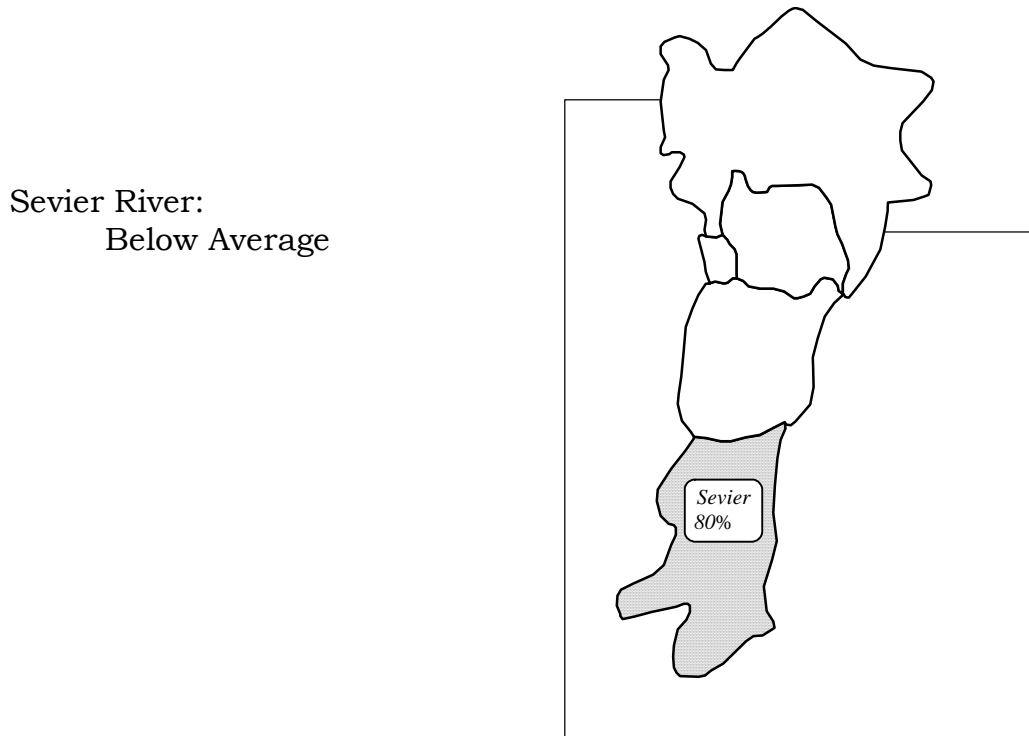
\* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 4.

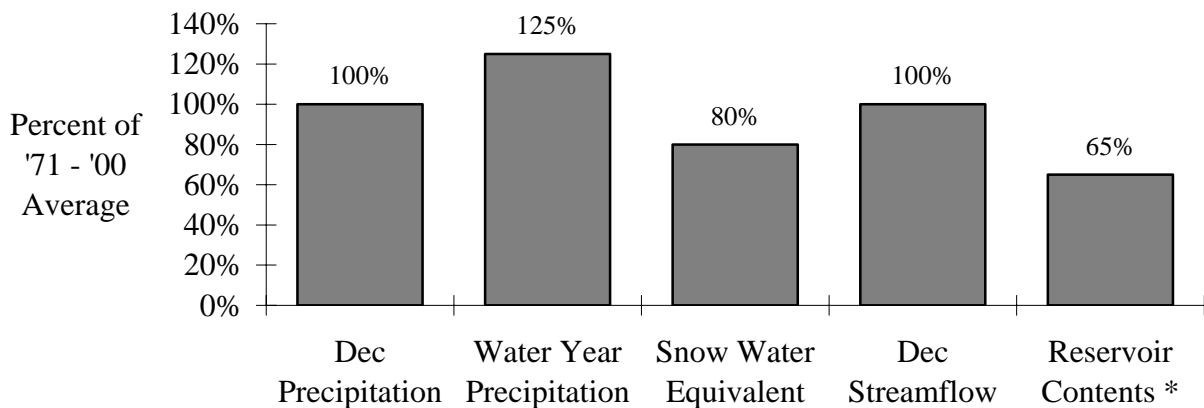
## SEVIER LAKE BASIN

The snowpack in southern Utah is below average for January but is expected to improve this month as a more favorable weather pattern shift has been forecast by the Climate Prediction Center. Forecast ranged from 57 -91 percent of average for the April through July period.

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



### BASIN CONDITIONS - JANUARY 1, 2007



\* 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	100	88	139	61
	WOODRUFF NARROWS RES	110	81	172	48
BIG CK	RANDOLPH, NR	3.3	67	8.5	0.52
SMITHS FORK	BORDER, NR	85	83	129	50
BEAR	MONTPELIER, NR, STEWART DAM, B	165	71	280	80
LOGAN	LOGAN, NR, STATE DAM, ABV	87	69	140	47
BLACKSMITH FORK	HYRUM, NR, UP&L DAM, ABV	38	79	64	18.8
SMITH AND MOREHOUSE CK	OAKLEY, NR	29	85	40	17.7
WEBER	OAKLEY, NR	105	85	146	64
	ROCKPORT RES, WANSHIP, NR	108	81	162	54
CHALK CK	COALVILLE	40	89	67	19.7
WEBER	COALVILLE, NR	111	81	168	54
	ECHO RES, ECHO, AT	145	81	215	77
LOST CK	LOST CK RES, CROYDON, NR	14	80	26	5.6
EAST CANYON CK	EAST CANYON RES, MORGAN, NR	24	77	43	10.4
WEBER	GATEWAY	285	80	425	147
SF OGDEN	HUNTSVILLE, NR	48	75	79	25
OGDEN	PINEVIEW RES, OGDEN, NR	100	75	156	44
WHEELER CK	HUNTSVILLE, NR	4.7	75	8.5	2
SPANISH FORK	CASTILLA, NR	55	71	110	19
PROVO	WOODLAND, NR	90	87	124	56
	HAILSTONE, NR	95	87	142	58
	DEER CK RES	105	83	179	58
AMERICAN FORK	AMERICAN FORK, NR, UP PWRPLNT,	25	78	43	11.8
JORDAN	UTAH LAKE, PROVO, NR	240	74	430	51
LITTLE COTTONWOOD CK	SALT LAKE CITY, NR	33	82	45	21
BIG COTTONWOOD CK	SALT LAKE CITY, NR	31	82	43	19.3
CITY CK	SALT LAKE CITY, NR	7.2	83	11.5	3.9
EMIGRATION CK	SALT LAKE CITY, NR	3	67	6.5	0.84
MILL CK	SALT LAKE CITY, NR	5.1	73	7.9	2.9
DELL FK	LITTLE DELL RES	5	74	9.5	0.51
PARLEYS CK	SALT LAKE CITY, NR	12	72	22	5
VERNON CK	VERNON, NR	1.05	71	2	0.38
S WILLOW CK	GRANTSVILLE, NR	2.9	91	4.7	1.51
SETTLEMENT CK	TOOELE, NR	1.2	57	2.3	0.46

For more detailed information about each forecast visit [www.wrh.noaa.gov/cbrfc/westernwater](http://www.wrh.noaa.gov/cbrfc/westernwater)

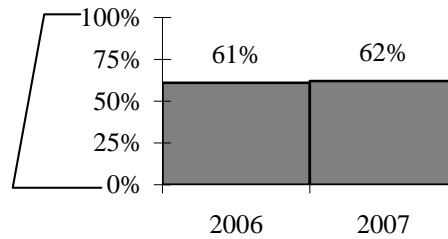
**Sevier Lake Basin:** April through July volume (kaf) forecasts (except where noted).

Stream	Station	Most Probable	Percent Avg.	Reas. Max	Reas. Min
SEVIER	HATCH	44	80	85	3.2
	KINGSTON, NR	71	80	121	34
EF SEVIER	KINGSTON, NR	30	79	61	9.8
CLEAR CK	SEVIER, NR, DIV, ABV	19.7	90	33	9.7
SEVIER	PIUTE RES, MARYSVALE, NR	105	83	220	33
	VERMILLION DAM	150	87	240	61
	SIGURD, NR	135	73	240	40
	GUNNISON, NR, SAN PITCH, BLO	220	79	430	11.2
SALINA CK	SALINA	15	76	35	3.4
CHICKEN CK	LEVAN, NR	2.9	64	7.2	0.42
OAK CK	OAK CITY, NR, LITTLE CK, ABV	1.32	80	2.7	0.42
BEAVER	BEAVER, NR	20	74	31	11.8
	MINERSVILLE RES, MINERSVILLE,	8.6	52	21	1.79
COAL CK	CEDAR CITY, NR	18	93	32	8

For more detailed information about each forecast visit [www.wrh.noaa.gov/cbrfc/westernwater](http://www.wrh.noaa.gov/cbrfc/westernwater)

# END OF MONTH RESERVOIR CONTENTS

Percent of Usable Capacity



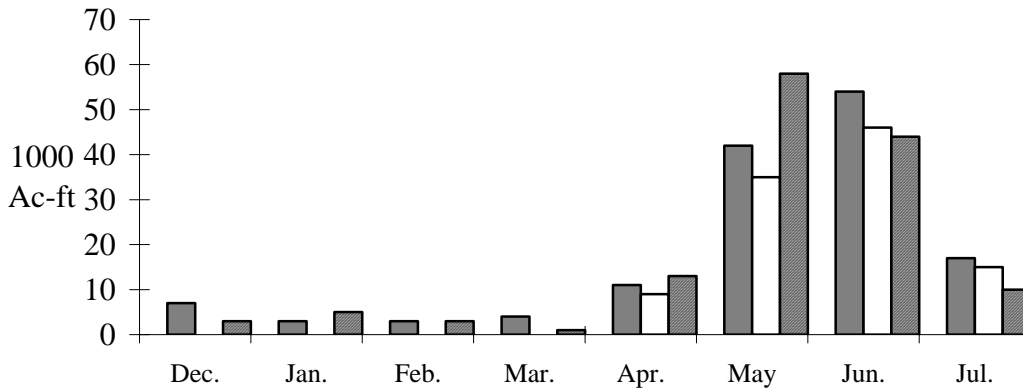
RESERVOIR (vol. in 1000 ac-ft)	Usable Capacity	EOM Usable Contents	Percent Usable Capacity (%)
Bear Lake	1302	404	31
Causey	7.1	3.1	44
Jordanelle	311	258.7	83
Deer Creek	149.7	133.6	89
East Canyon	49.5	37.3	75
Echo	73.9	48.6	66
Gunnison	20.3	9.4	46
Hyrum	15.3	10.5	69
Lost Creek	22.5	16.3	72
Minersville	23.3	9.9	42
Otter Creek	52.5	31.6	60
Pine View	110.1	60.9	55
Piute	71.8	53.8	75
Rockport	60.9	39.8	65
Sevier bridge	236	154.4	65
* Utah Lake	870.9	864	99
Willard	215	91.7	43
Woodruff Narrows	55.8	45.5	82
TOTAL	3647.6	2273.1	62
Flaming Gorge	3749	3123.1	83
Lake Powell	24322	12030	49
Moon Lake	36	26.7	74
Red Fleet	25.7	17.7	69
Scofield	65.8	35.2	53
Starvation	165.3	143.4	87
Steinaker	34.4	21.2	62
Strawberry	1105.9	929.1	84
Upper Stillwater	32.5	2.2	7

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

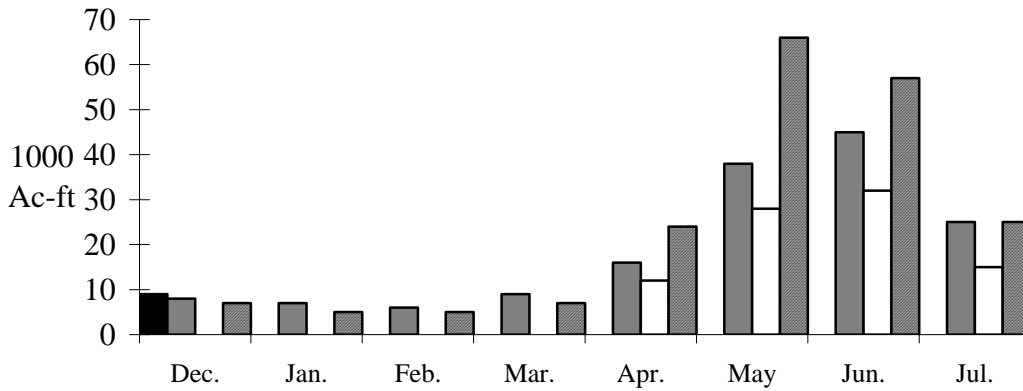
# MONTHLY STREAMFLOWS



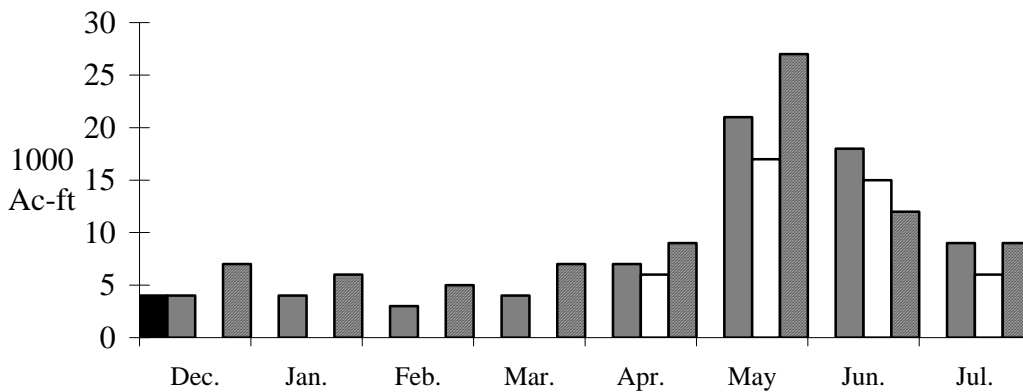
## Weber Oakley, nr:



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



## Sevier - Hatch:

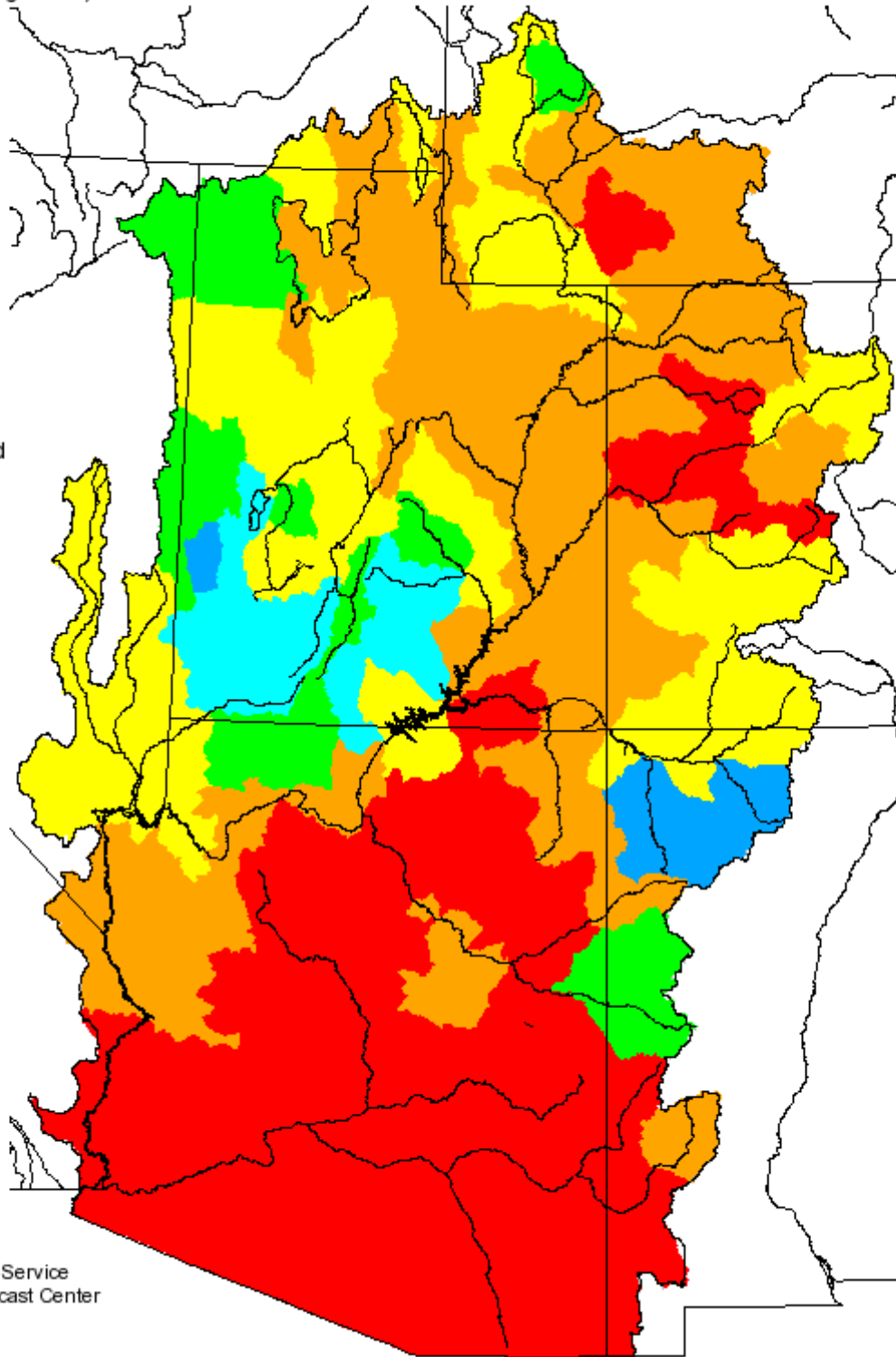
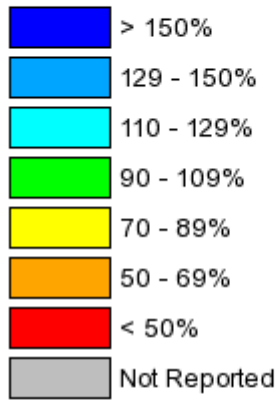


\* observed data unavailable

# Monthly Precipitation for December 2006

(Averaged by Hydrologic Unit)

## % Average



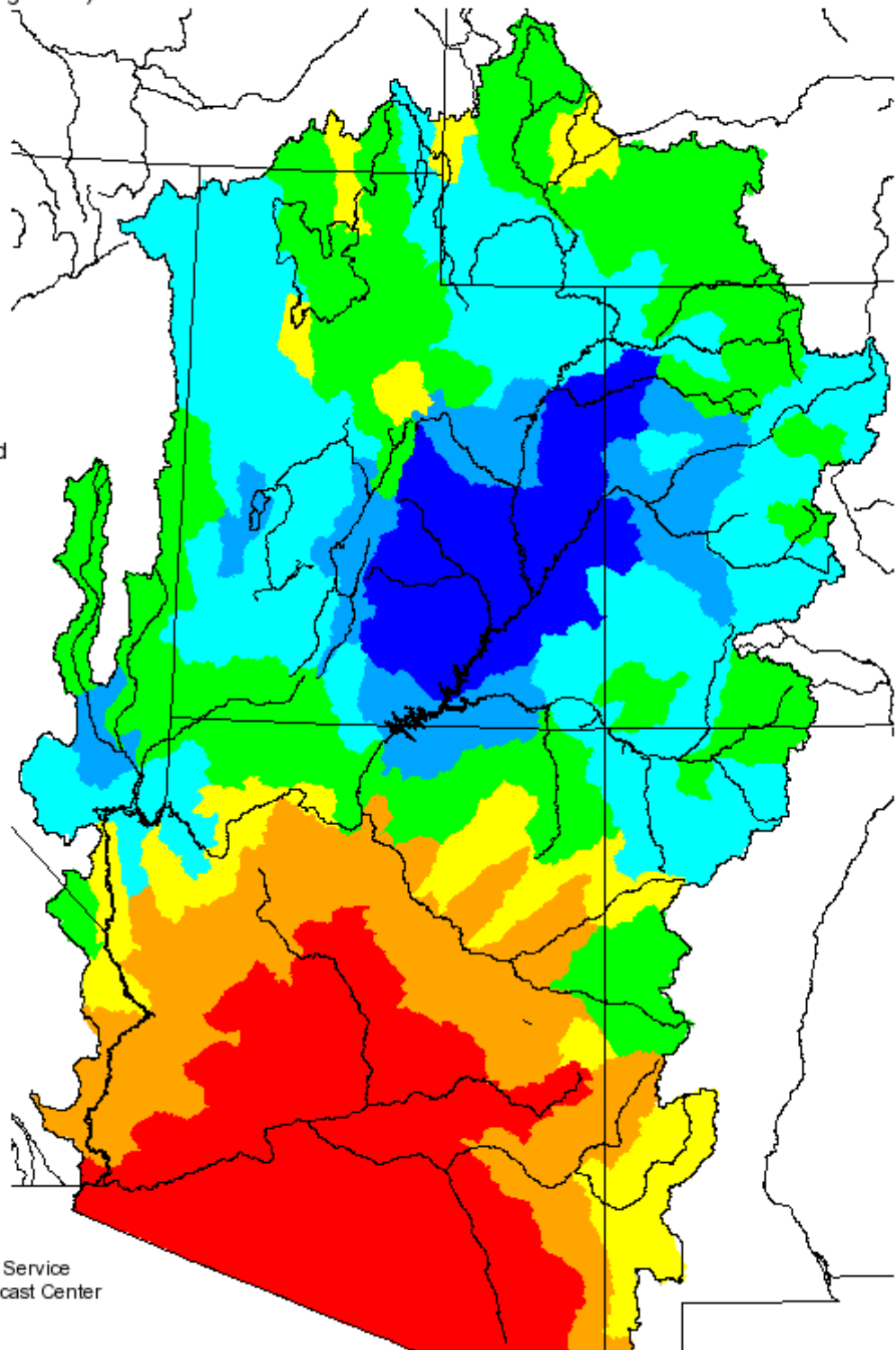
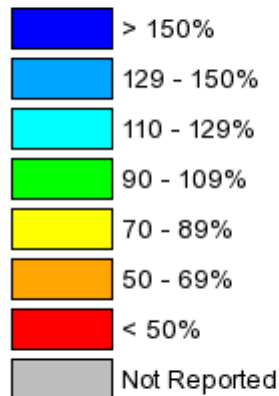
Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)



# Seasonal Precipitation, October 2006 - December 2006

(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>