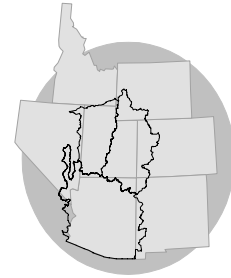


# WATER SUPPLY OUTLOOK for the EASTERN GREAT BASIN

***COLORADO BASIN  
RIVER FORECAST CENTER***

*NATIONAL WEATHER SERVICE, SALT LAKE CITY, UT*

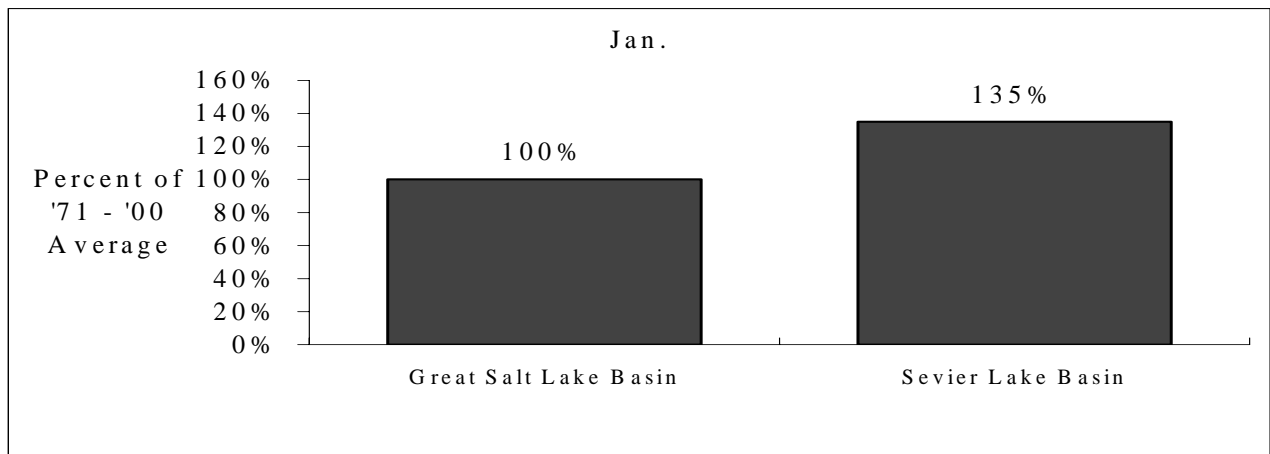


**JANUARY 1, 2005**

## SUMMARY

Early season forecasts issued January 1 indicate near average April-July runoff volumes in the Salt Lake Basin and much above average in the Sevier Lake Basin. Specifically, in the Great Salt Lake Basin runoff volumes are forecast to range from 85 to 115 percent of the 1971-2000 average and 130 to 240 percent of average in the Sevier Lake Basin. January 1 snowpack ranges from 75 to 200 percent of average in the Great Salt Lake Basin and 80 to 370 percent in the Sevier Lake Basin.

## APRIL - JULY VOLUME FORECASTS



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Monthly Streamflows	7
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# GREAT SALT LAKE BASIN

The January 1 water supply outlook is for near average runoff in the Great Salt Lake Basin.

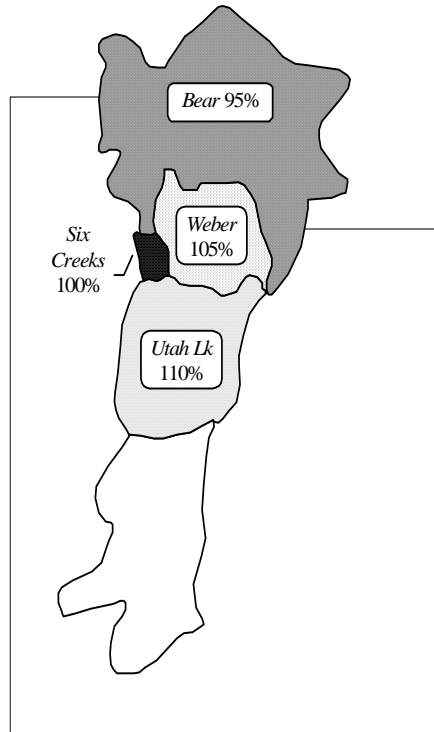
April-July streamflow forecasts for the Great Salt Lake Basin are as follows:

Bear River:  
Near Average

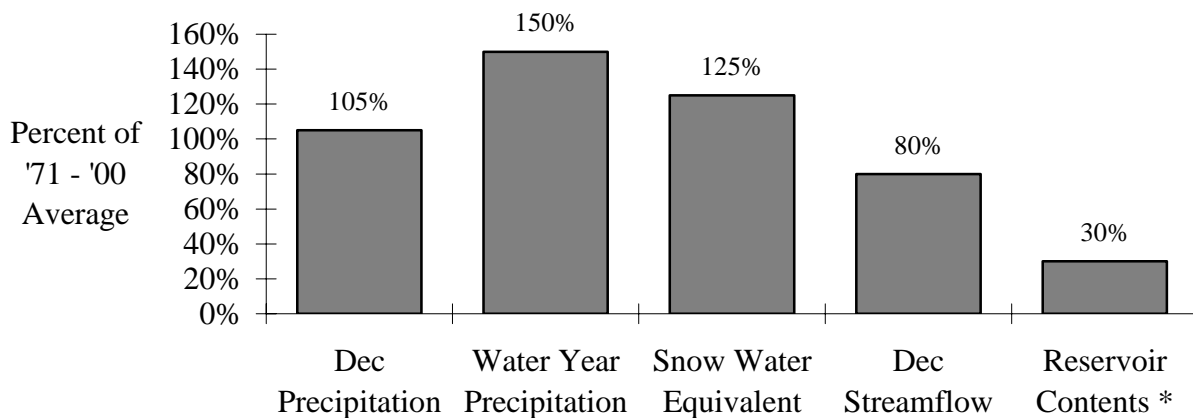
Weber River:  
Near Average

Utah Lake:  
Near Average

Six Creeks:  
Near Average



## BASIN CONDITIONS - JANUARY 1, 2005



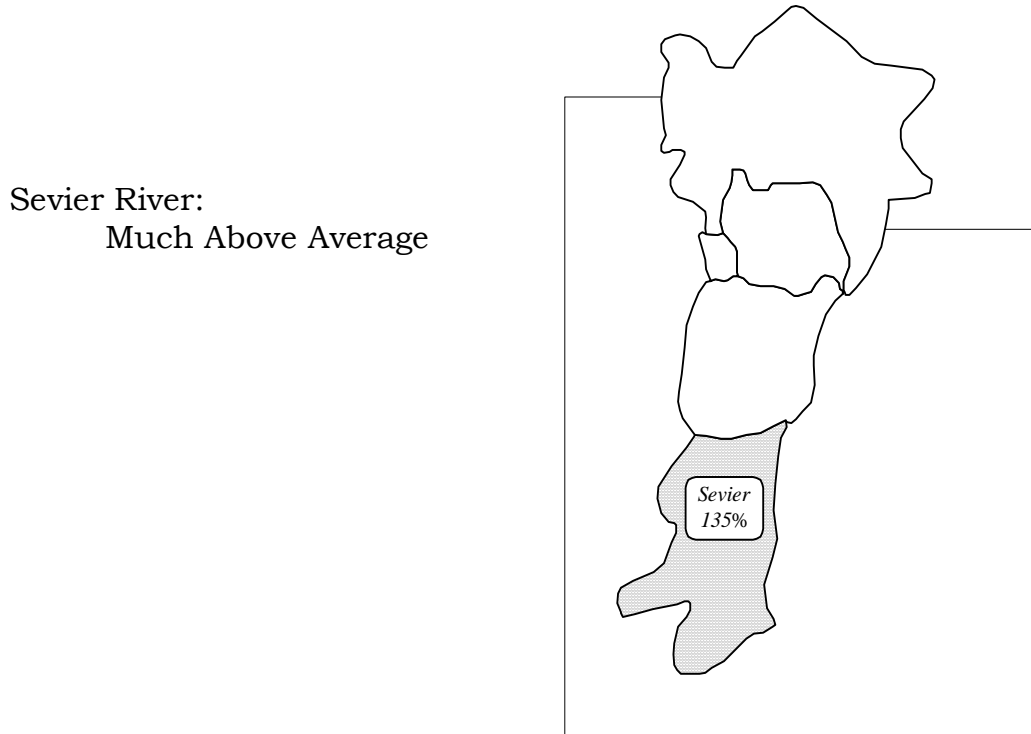
\* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 4.

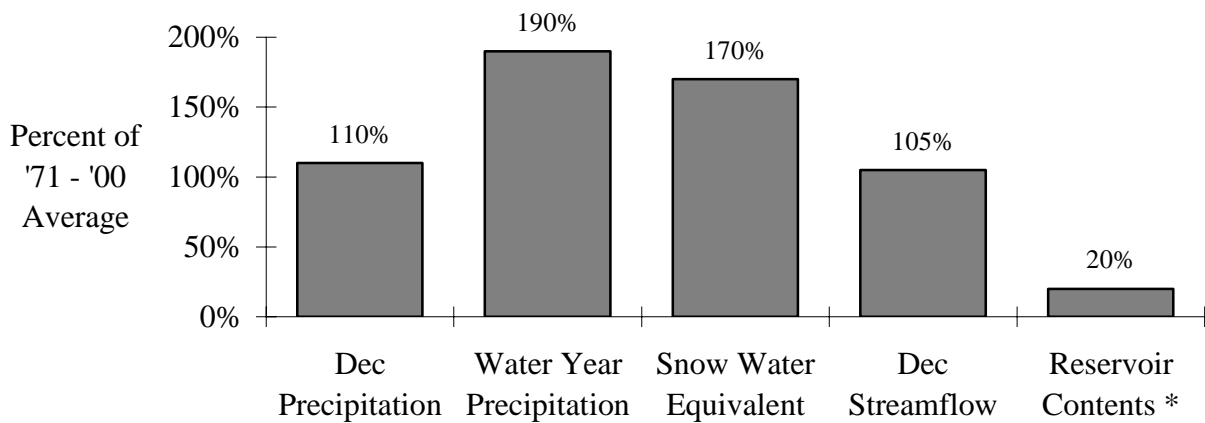
# SEVIER LAKE BASIN

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

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



## BASIN CONDITIONS - JANUARY 1, 2005



\* 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	125	111	164	86
	WOODRUFF NARROWS RES	125	92	189	63
	MONTPELIER, NR, STEWART DAM, B	120	51	220	50
BIG CK	RANDOLPH, NR	4.6	94	7.1	2.1
SMITHS FORK	BORDER, NR	95	92	132	58
LOGAN	LOGAN, NR, STATE DAM, ABV	110	87	170	63
BLACKSMITH FORK	HYRUM, NR, UP&L DAM, ABV	45	94	73	24
SMITH AND MOREHOUSE CK	OAKLEY, NR	36	106	47	25
WEBER	OAKLEY, NR	135	110	176	94
	ROCKPORT RES, WANSHIP, NR	145	108	198	91
	COALVILLE, NR	150	109	205	93
	ECHO RES, ECHO, AT	185	103	255	117
	GATEWAY	355	100	495	215
CHALK CK	COALVILLE	45	100	68	22
LOST CK	LOST CK RES, CROYDON, NR	16.2	92	29	7.1
EAST CANYON CK	EAST CANYON RES, MORGAN, NR	30	97	47	16.7
SF OGDEN	HUNTSVILLE, NR	70	109	100	40
OGDEN	PINEVIEW RES, OGDEN, NR	140	105	195	84
WHEELER CK	HUNTSVILLE, NR	8.3	132	11.3	5.3
SPANISH FORK	CASTILLA, NR	72	94	120	24
PROVO	WOODLAND, NR	111	108	153	69
	HAILSTONE, NR	121	111	172	70
	DEER CK RES	141	112	220	64
AMERICAN FORK	AMERICAN FORK, NR, UP PWRPLNT,	37	116	54	20
JORDAN	UTAH LAKE, PROVO, NR	350	108	545	156
LITTLE COTTONWOOD CK	SALT LAKE CITY, NR	45	112	58	32
BIG COTTONWOOD CK	SALT LAKE CITY, NR	40	105	54	26
CITY CK	SALT LAKE CITY, NR	8.9	102	13.7	4.1
EMIGRATION CK	SALT LAKE CITY, NR	4.4	98	8.2	0.62
MILL CK	SALT LAKE CITY, NR	7	100	10.4	3.6
DELL FK	LITTLE DELL RES	6.3	93	10.9	1.75
PARLEYS CK	SALT LAKE CITY, NR	15.3	92	25	5.1
VERNON CK	VERNON, NR	1.2	81	2.4	0.61
S WILLOW CK	GRANTSVILLE, NR	4.1	128	5.9	2.3
SETTLEMENT CK	TOOELE, NR	1.45	74	2.4	0.81

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

Stream	Station	Most Probable	Percent Avg.	Reas. Max	Reas. Min
SEVIER	HATCH	77	140	101	25
	KINGSTON, NR	121	136	148	51
	PIUTE RES, MARYSVALE, NR	177	140	215	75
	VERMILLION DAM	235	137	280	101
	SIGURD, NR	250	134	305	93
	GUNNISON, NR, SAN PITCH, BLO	365	130	510	78
EF SEVIER	KINGSTON, NR	56	147	71	18.9
CLEAR CK	SEVIER, NR, DIV, ABV	31	141	38	10
SALINA CK	* SALINA	AN	0	0	0
CHICKEN CK	LEVAN, NR	4.3	96	9.6	1.42
OAK CK	OAK CITY, NR, LITTLE CK, ABV	1.78	109	2.9	0.96
BEAVER	BEAVER, NR	37	137	54	24
	MINERSVILLE RES, MINERSVILLE,	21	127	38	8.9
COAL CK	CEDAR CITY, NR	46	238	67	29

\* 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 normal (greater than 130 percent of normal)

AN - above normal (111- 130 percent of normal)

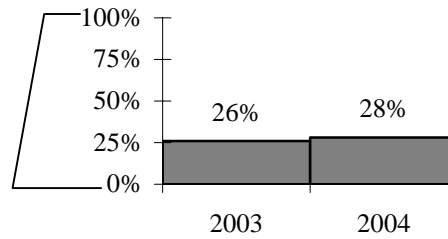
NN - near normal (90-110 percent of normal)

BN - below normal (70-89 percent of normal)

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

# END OF MONTH RESERVOIR CONTENTS

Percent of Usable Capacity



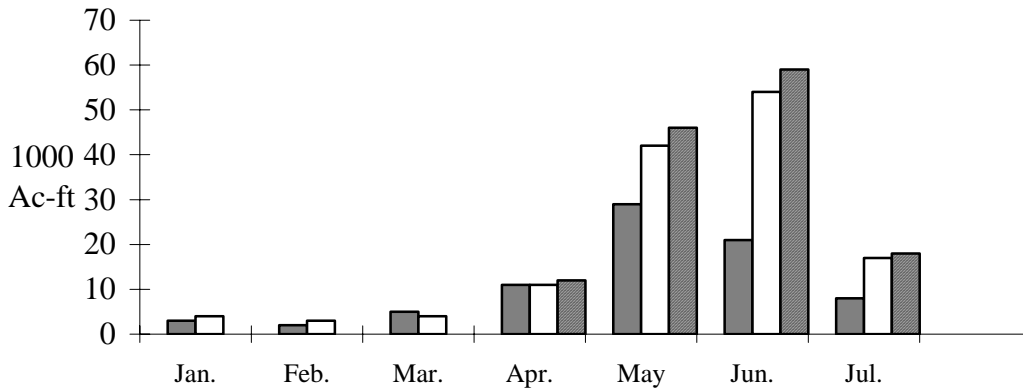
RESERVOIR (vol. in 1000 ac-ft)	Usable Capacity	EOM Usable Contents	Percent Usable Capacity (%)
Bear Lake	1302	0	0
Causey	7.1	3.3	46
Jordanelle	311	213.2	69
Deer Creek	149.7	92.6	62
East Canyon	49.5	33.7	68
Echo	73.9	33.1	45
Gunnison	20.3	1.1	5
Hyrum	15.3	7.3	48
Lost Creek	22.5	5.3	23
Minersville	23.3	5	21
Otter Creek	52.5	10.7	20
Pine View	110.1	65.6	60
Piute	71.8	18	25
Rockport	60.9	40.7	67
Sevier bridge	236	37.9	16
* Utah Lake	870.9	384.6	44
Willard	215	47	22
Woodruff Narrows	55.8	12	22
TOTAL	3647.6	1011	28
Flaming Gorge	3749	2745.3	73
Lake Powell	24322	8663.6	36
Moon Lake	36	17.2	48
Red Fleet	25.7	15.4	60
Scofield	65.8	7	11
Starvation	165.3	126.3	76
Steinaker	34.4	15.6	45
Strawberry	1105.9	735.5	67
Upper Stillwater	32.5	2.2	7

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

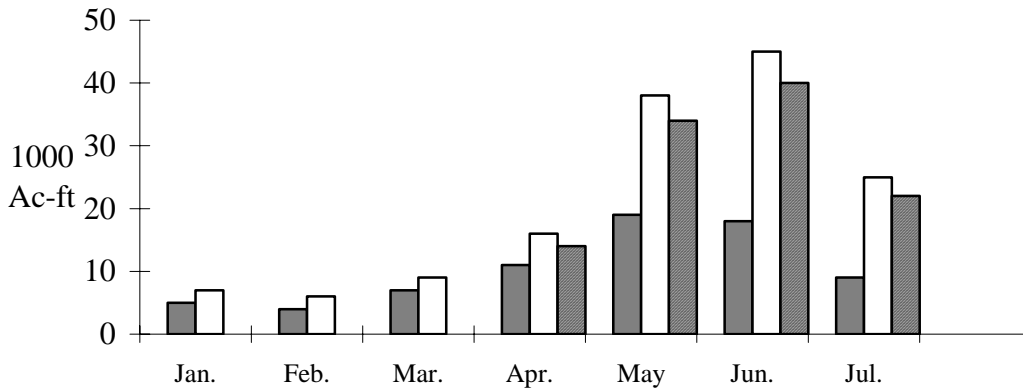
# MONTHLY STREAMFLOWS



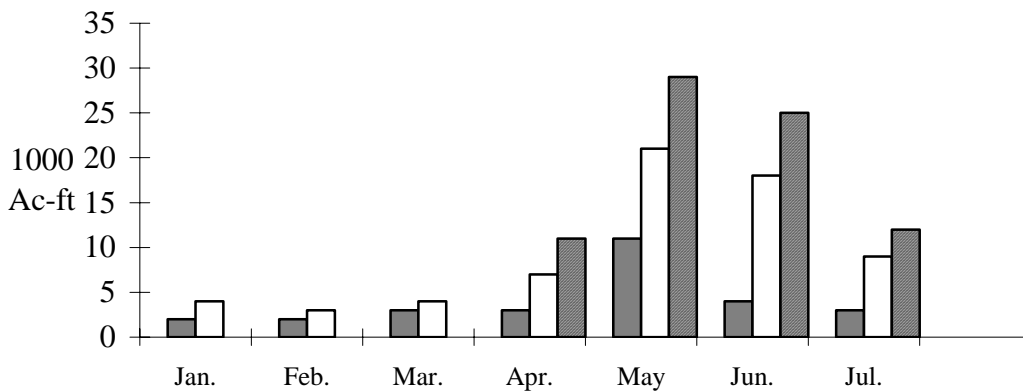
## Weber Oakley, nr:



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



## Sevier - Hatch:

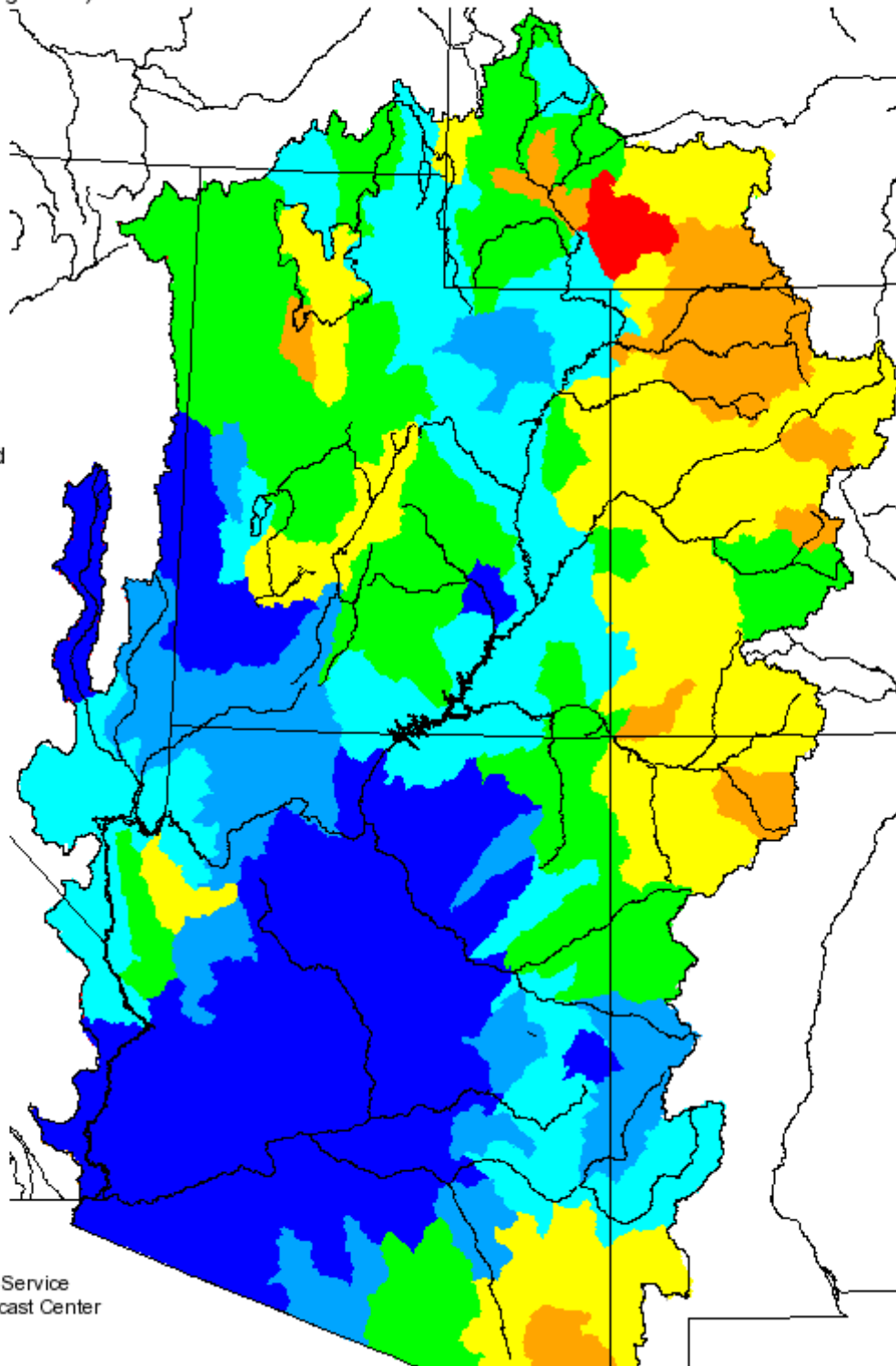
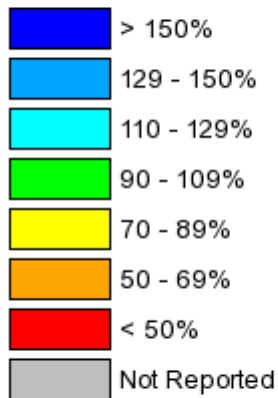


\* observed data unavailable

# Monthly Precipitation for December 2004

(Averaged by Hydrologic Unit)

## % Average



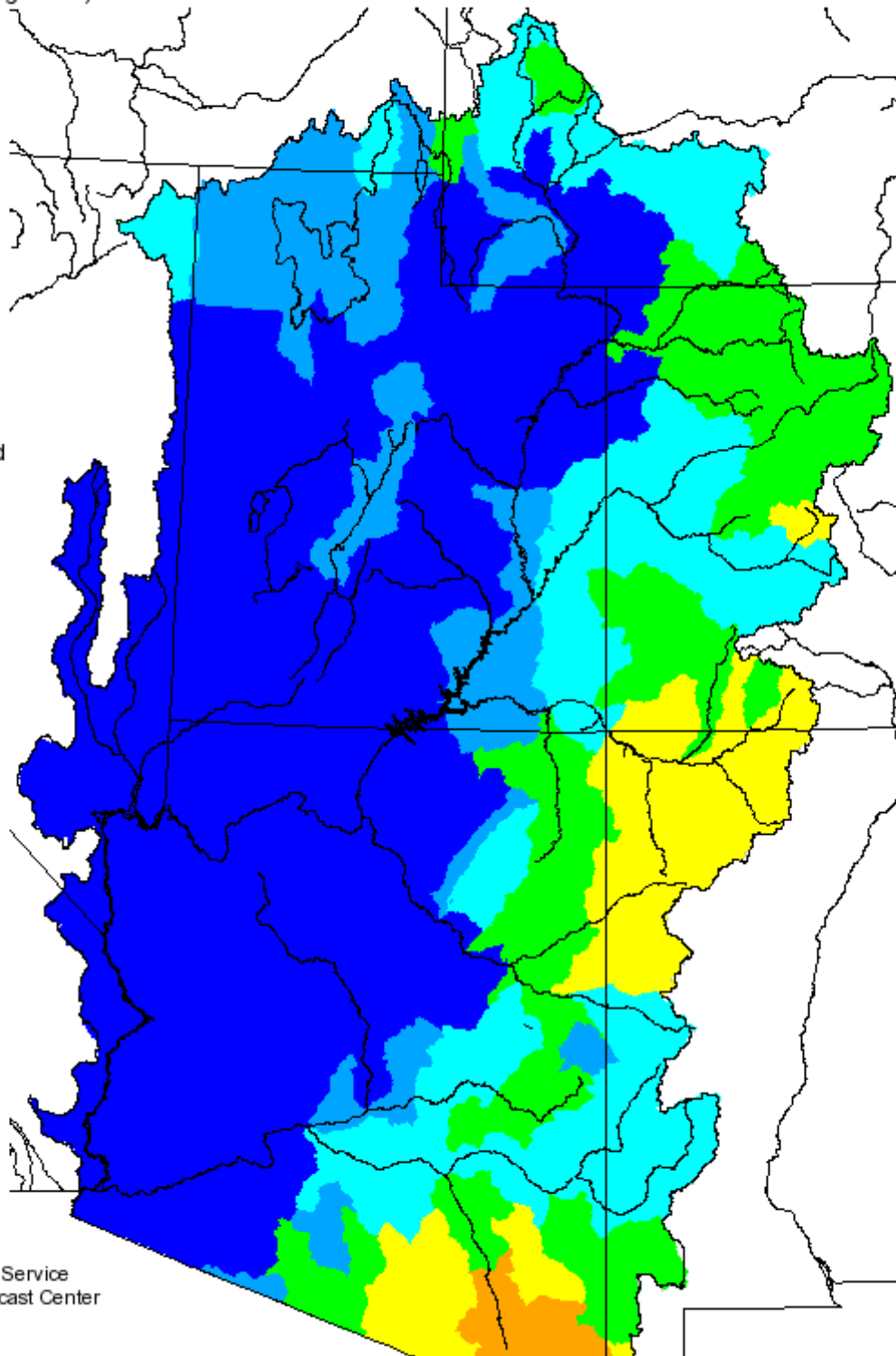
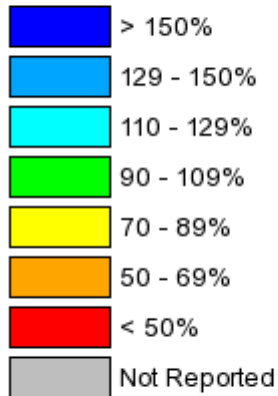
Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)



# Seasonal Precipitation, October 2004 - December 2004

(Averaged by Hydrologic Unit)

## % Average



Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
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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>