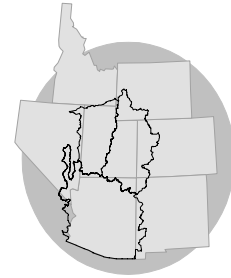


# WATER SUPPLY OUTLOOK

for the  
**EASTERN GREAT BASIN**  
*COLORADO BASIN*  
**RIVER FORECAST CENTER**



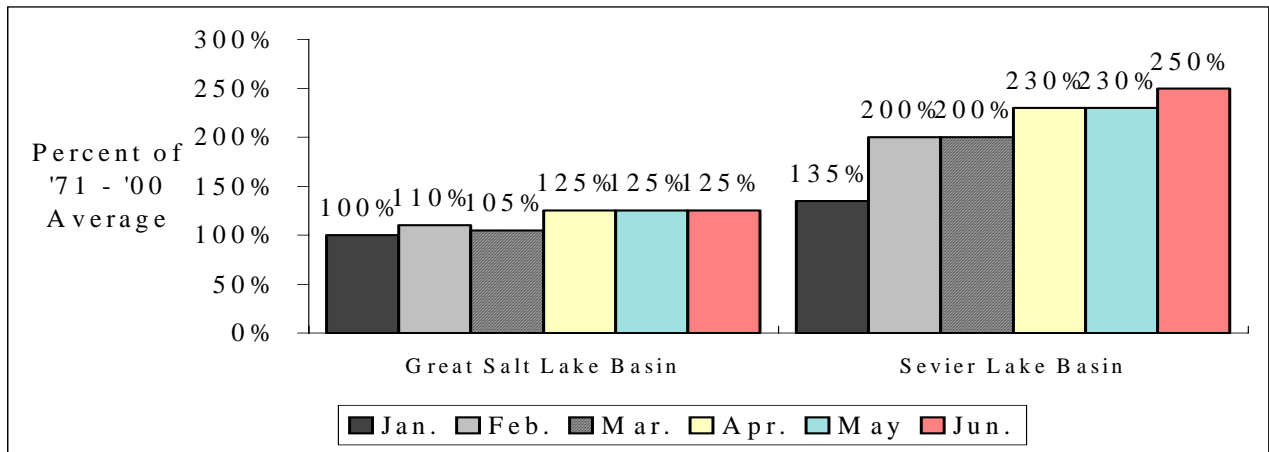
NATIONAL WEATHER SERVICE, SALT LAKE CITY, UT

JUNE 1, 2005

## SUMMARY

As of June 1 above to much above average April-July runoff is forecast in the Great Salt Lake Basin and much above average in the Sevier Lake Basin with three record flows forecast on the Sevier River. Forecasts range from 100 to 170 percent of the 1971-2000 average in the Great Salt Lake Basin and 195 to 370 percent of average in the Sevier Lake Basin. Forecasts increased 10 percent in the Bear River Basin and decreased 10 percent in the Provo River Basin. The Sevier River Basin forecasts increased 20 percent from last month and minor changes were made elsewhere.

## APRIL - JULY VOLUME FORECASTS



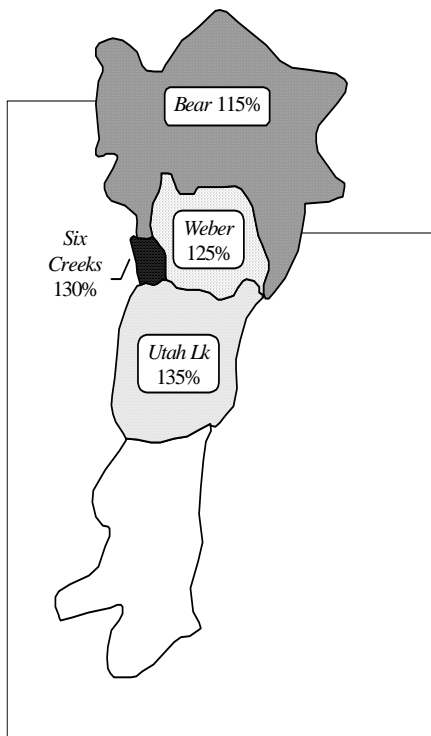
<b>INSIDE</b>	
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Great Salt Lake Basin	2
Sevier Basin	3
Specific Site Forecasts	4,5
EOM Reservoir Contents	6
Monthly Streamflows	7
Precipitation Maps	8,9
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## GREAT SALT LAKE BASIN

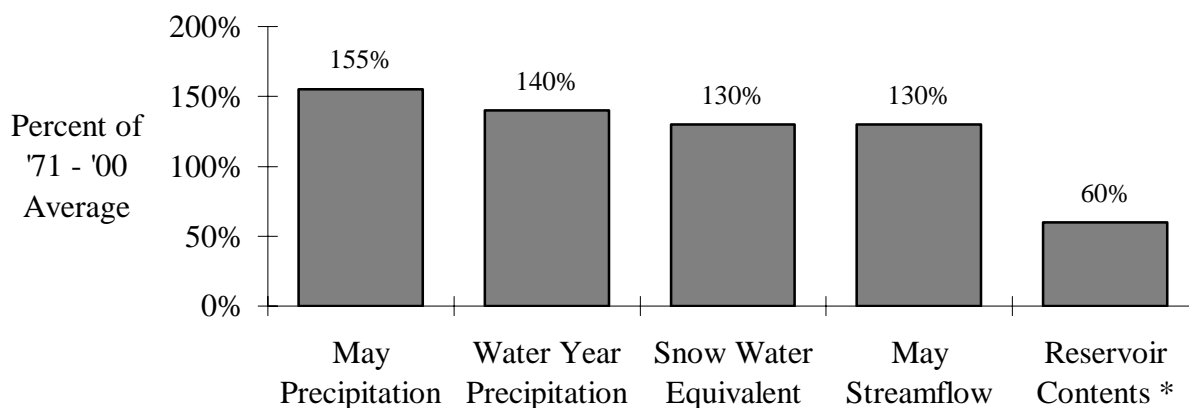
The June 1 water supply outlook is for above to much above average runoff in the Great Salt Lake Basin.

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

- Bear River:  
Above Average
- Weber River:  
Above Average
- Utah Lake:  
Much Above Average
- Six Creeks:  
Much Above Average



## BASIN CONDITIONS - JUNE 1, 2005



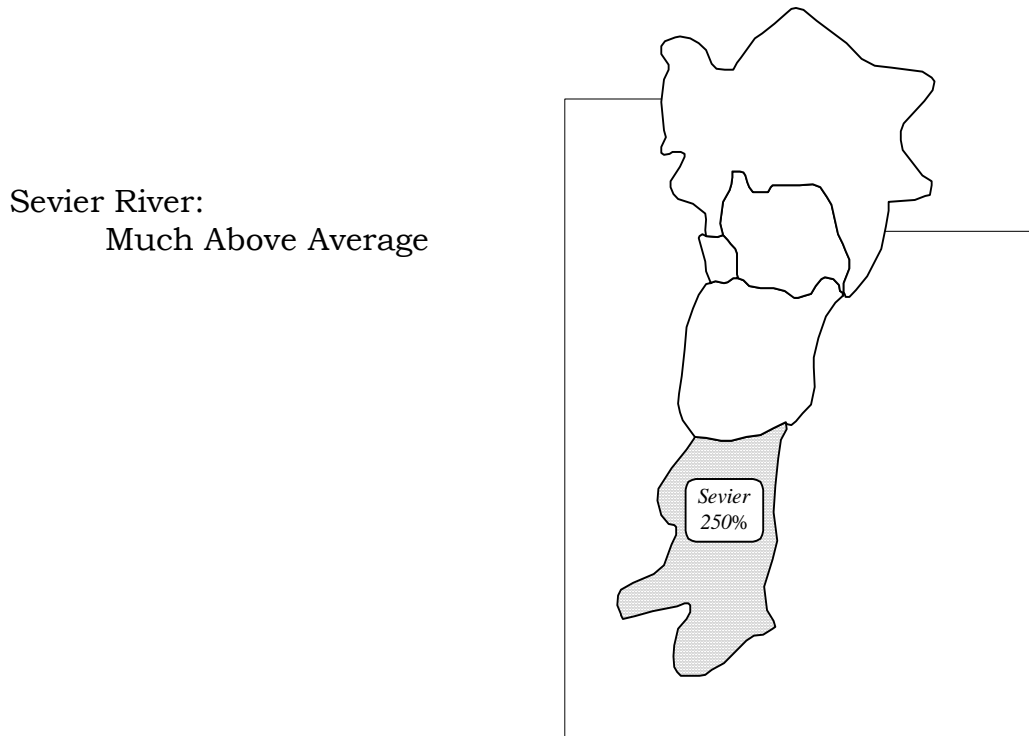
\* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 4.

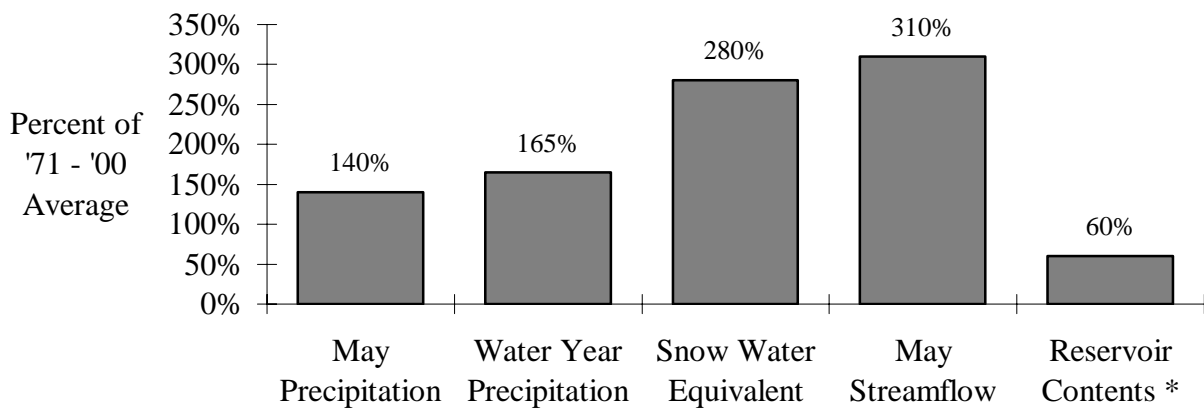
## SEVIER LAKE BASIN

The June 1 water supply outlook is for much above average April-July runoff volumes in the Sevier Lake Basin. Record flows forecast for Sevier R. at Hatch, Sevier R. nr Kingston and Sevier R. at Vermillion Dam. Four other sites are forecast to be second highest flows on record.

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



### BASIN CONDITIONS - JUNE 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	130	115	144	116
	WOODRUFF NARROWS RES	162	119	193	131
	MONTPELIER, NR, STEWART DAM, B	245	105	300	194
BIG CK	RANDOLPH, NR	5.9	120	6.2	5.6
SMITHS FORK	BORDER, NR	105	102	111	99
LOGAN	LOGAN, NR, STATE DAM, ABV	140	111	150	130
BLACKSMITH FORK	HYRUM, NR, UP&L DAM, ABV	60	125	65	55
SMITH AND MOREHOUSE CK	OAKLEY, NR	40	118	43	37
WEBER	OAKLEY, NR	150	122	162	138
	ROCKPORT RES, WANSHIP, NR	168	125	182	154
	COALVILLE, NR	175	128	190	160
	ECHO RES, ECHO, AT	215	120	245	186
	GATEWAY	515	145	570	460
CHALK CK	COALVILLE	52	116	63	41
LOST CK	LOST CK RES, CROYDON, NR	19.4	110	22	16.9
EAST CANYON CK	EAST CANYON RES, MORGAN, NR	49	158	56	43
SF OGDEN	HUNTSVILLE, NR	74	116	79	69
OGDEN	PINEVIEW RES, OGDEN, NR	149	112	169	129
WHEELER CK	HUNTSVILLE, NR	11	175	12.3	10
SPANISH FORK	CASTILLA, NR	90	117	126	54
PROVO	WOODLAND, NR	130	126	148	112
	HAILSTONE, NR	142	130	168	116
	DEER CK RES	167	133	194	140
AMERICAN FORK	AMERICAN FORK, NR, UP PWRPLNT,	55	172	59	45
JORDAN	UTAH LAKE, PROVO, NR	410	126	485	330
LITTLE COTTONWOOD CK	SALT LAKE CITY, NR	57	142	61	53
BIG COTTONWOOD CK	SALT LAKE CITY, NR	53	139	59	47
CITY CK	SALT LAKE CITY, NR	11.5	132	14.4	8.6
EMIGRATION CK	SALT LAKE CITY, NR	5.8	129	7.9	3.7
MILL CK	SALT LAKE CITY, NR	8	114	9.9	6.1
DELL FK	LITTLE DELL RES	8.2	121	9.7	6.8
PARLEYS CK	SALT LAKE CITY, NR	20	120	25	14.8
VERNON CK	VERNON, NR	3.2	216	4.4	2.3
S WILLOW CK	GRANTSVILLE, NR	5.5	172	5.9	5.1
SETTLEMENT CK	TOOELE, NR	3.7	188	4	3.3

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

Stream	Station	Most Probable	Percent Avg.	Reas. Max	Reas. Min
SEVIER	HATCH	175	318	191	158
	KINGSTON, NR	225	253	255	194
	PIUTE RES, MARYSVALE, NR	300	238	355	245
	VERMILLION DAM	350	203	420	280
	SIGURD, NR	370	199	465	275
	GUNNISON, NR, SAN PITCH, BLO	545	195	760	330
EF SEVIER	KINGSTON, NR	90	237	109	71
CLEAR CK	SEVIER, NR, DIV, ABV	45	205	54	36
SALINA CK	* SALINA	MA	0	0	0
CHICKEN CK	LEVAN, NR	8.9	198	10.3	7.6
OAK CK	OAK CITY, NR, LITTLE CK, ABV	3	184	3.6	2.5
BEAVER	BEAVER, NR	60	222	66	55
	MINERSVILLE RES, MINERSVILLE,	55	331	72	40
COAL CK	CEDAR CITY, NR	71	368	74	68

\* 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)

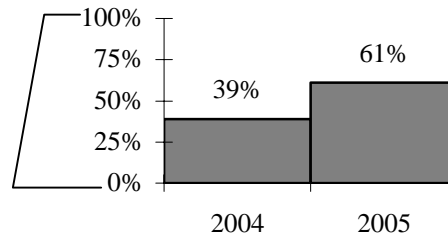
NN - near normal (90-110 percent of normal)

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



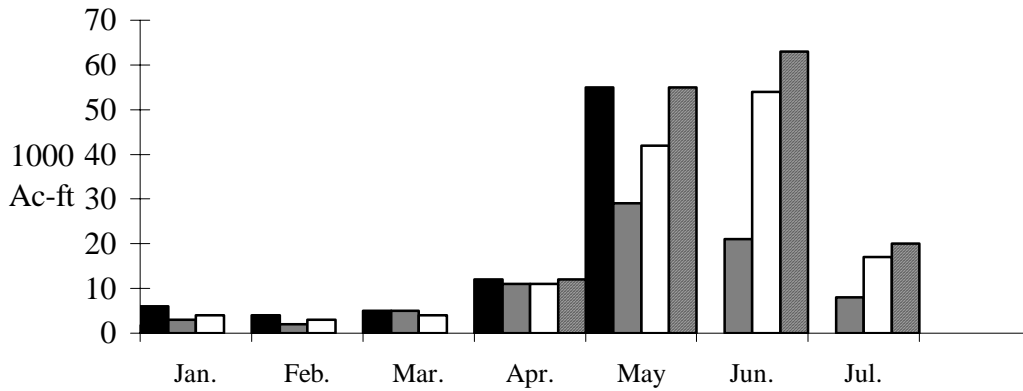
RESERVOIR (vol. in 1000 ac-ft)	Usable Capacity	EOM Usable Contents	Percent Usable Capacity (%)
Bear Lake	1302	244	19
Causey	7.1	7.1	100
Jordanelle	311	283.7	91
Deer Creek	149.7	138.6	93
East Canyon	49.5	49	99
Echo	73.9	72.3	98
Gunnison	20.3	3.3	16
Hyrum	15.3	15.3	100
Lost Creek	22.5	19.6	87
Minersville	23.3	21.8	94
Otter Creek	52.5	50.9	97
Pine View	110.1	110.4	100
Piute	71.8	71.8	100
Rockport	60.9	56.2	92
Sevier bridge	236	97.5	41
* Utah Lake	870.9	731.3	84
Willard	215	195	91
Woodruff Narrows	55.8	47.8	86
TOTAL	3647.6	2215.6	61
Flaming Gorge	3749	2989.9	80
Lake Powell	24322	10509.3	43
Moon Lake	36	29.2	81
Red Fleet	25.7	23.9	93
Scofield	65.8	49.6	75
Starvation	165.3	153.7	93
Steinaker	34.4	36.2	105
Strawberry	1105.9	800.9	72
Upper Stillwater	32.5	16.6	51

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

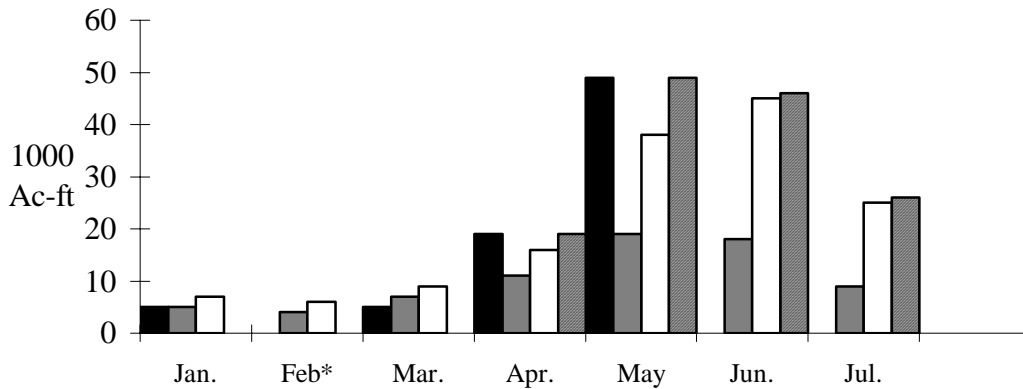
# MONTHLY STREAMFLOWS



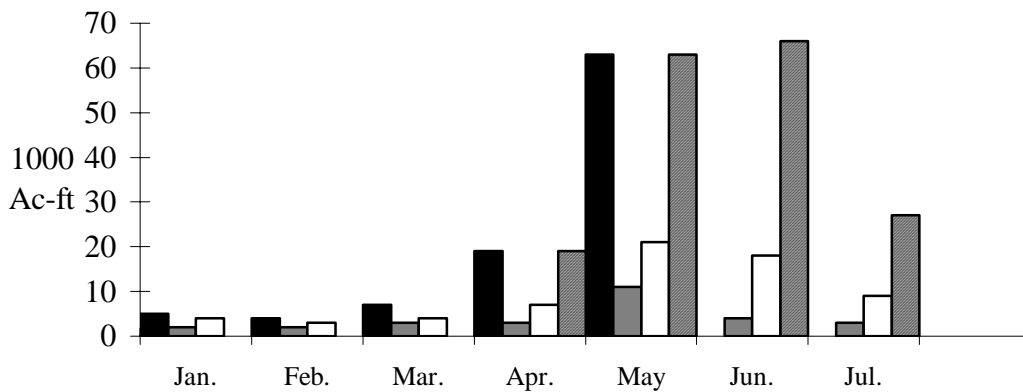
## Weber Oakley, nr:



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



## Sevier - Hatch:

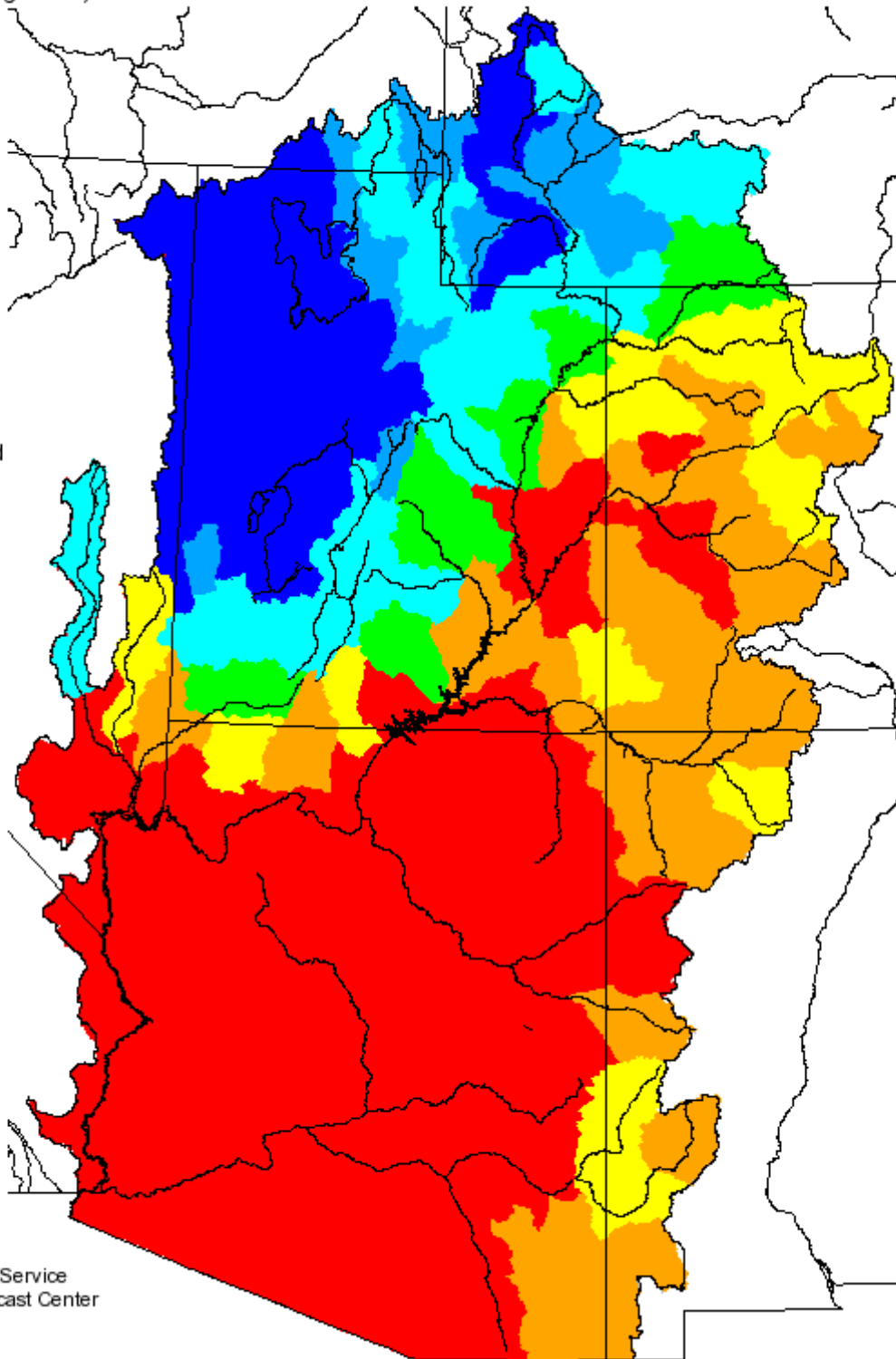
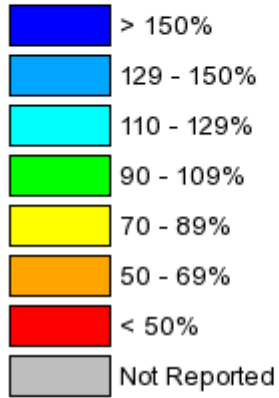


\* observed data unavailable

# Monthly Precipitation for May 2005

(Averaged by Hydrologic Unit)

## % Average



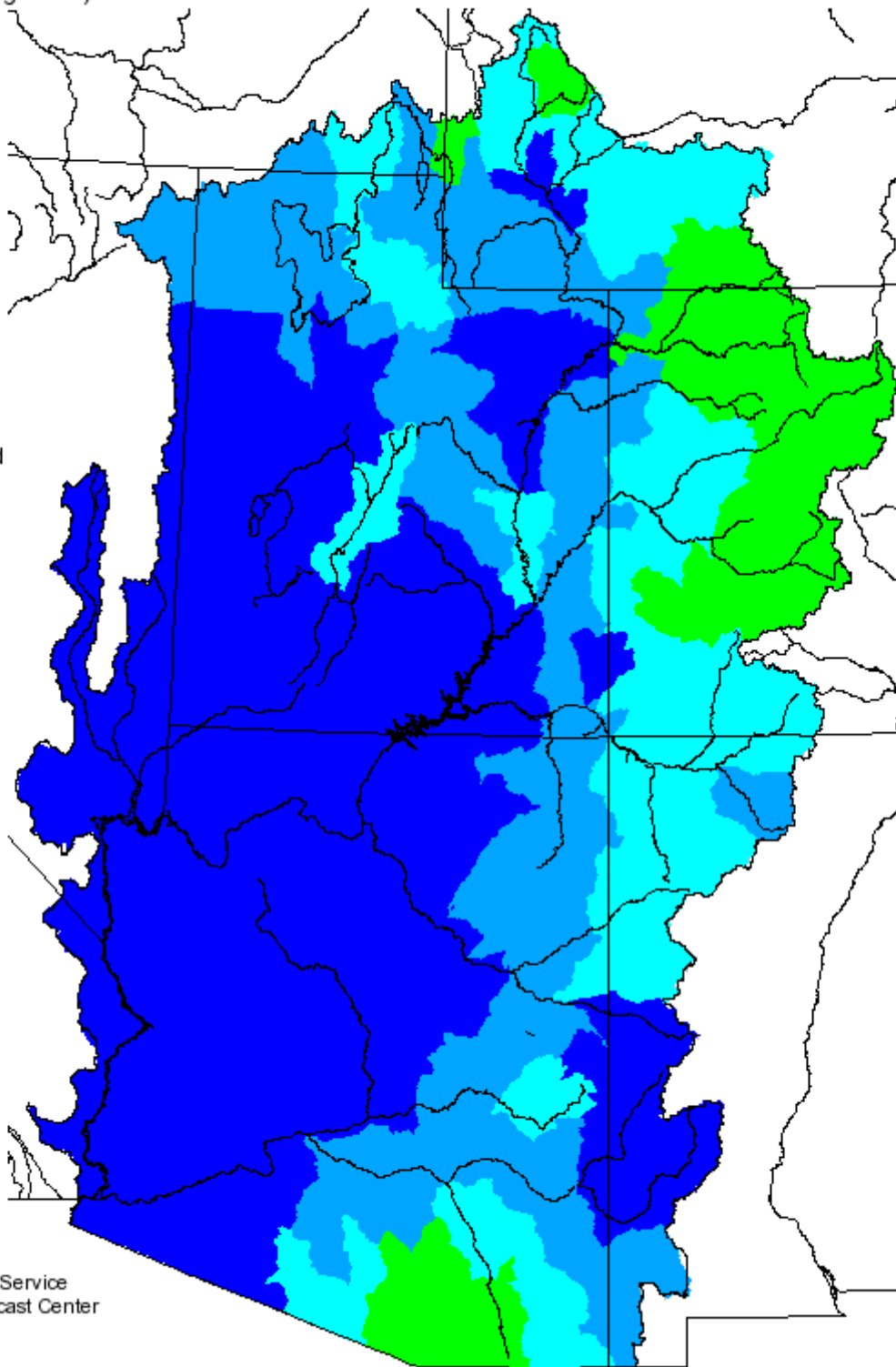
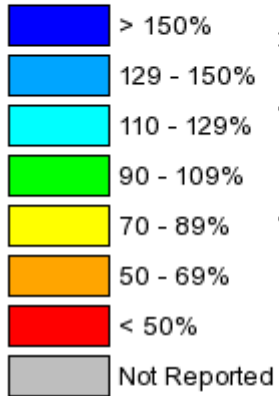
Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)



# Seasonal Precipitation, October 2004 - May 2005

(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>