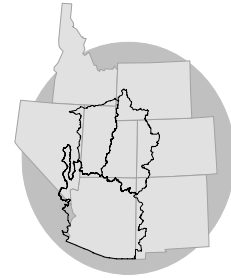


# WATER SUPPLY OUTLOOK for the EASTERN GREAT BASIN

***COLORADO BASIN  
RIVER FORECAST CENTER***

*NATIONAL WEATHER SERVICE, SALT LAKE CITY, UT*

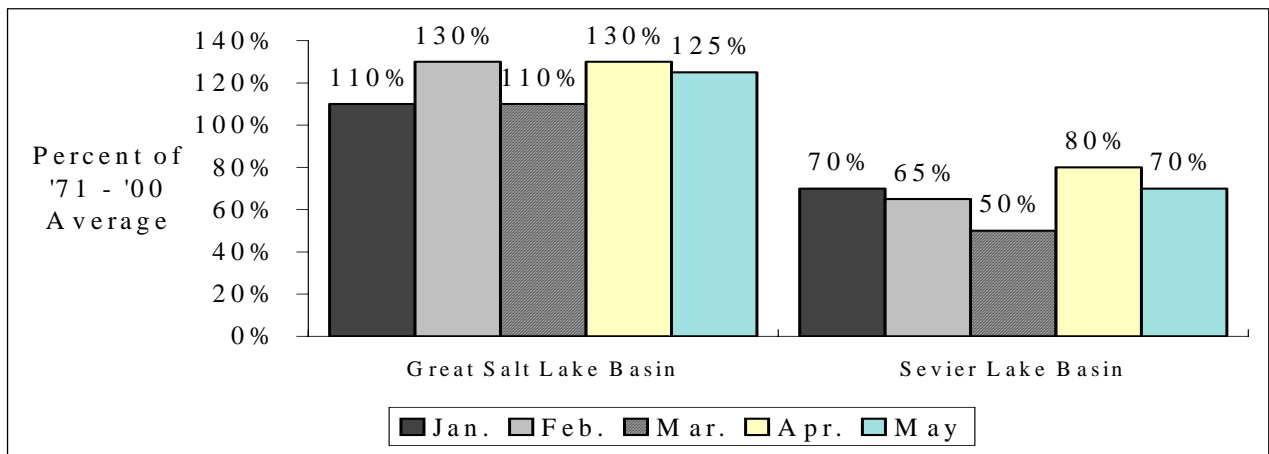


MAY 1, 2006

## SUMMARY

April precipitation was above average in the Great Salt Lake Basin and near to below average in the Sevier Basin. Rainfall and melting snow resulted in above average April runoff in the Great Salt Lake Basin. Ample snow remains above 8000 feet in the northern basins. April-July runoff volumes from near 110 to 160 percent of average are expected. In the Sevier Basin, significant snow melt occurred with April runoff being near to above average. Below average snowpack remains with April-July runoff volumes expected to range from near 55 to 90 percent of average.

## APRIL - JULY VOLUME FORECASTS



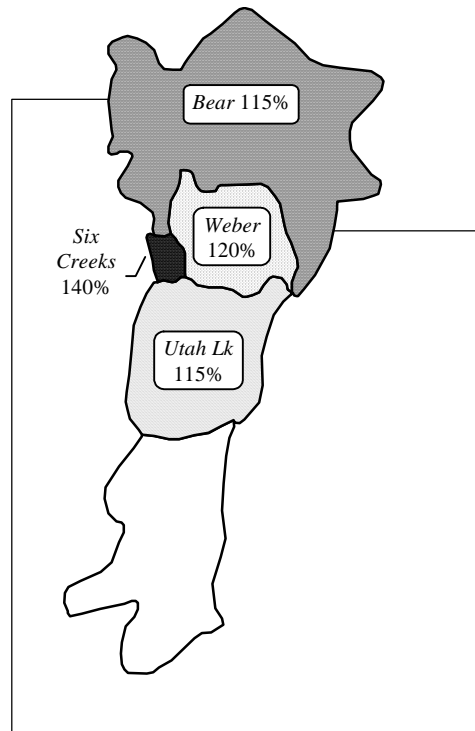
<b>INSIDE</b>	
Summary	1
Great Salt Lake Basin	2
Sevier Basin	3
Specific Site Forecasts	4,5
EOM Reservoir Contents	6
Monthly Streamflows	7
Precipitation Maps	8,9
Additional Information	10

# GREAT SALT LAKE BASIN

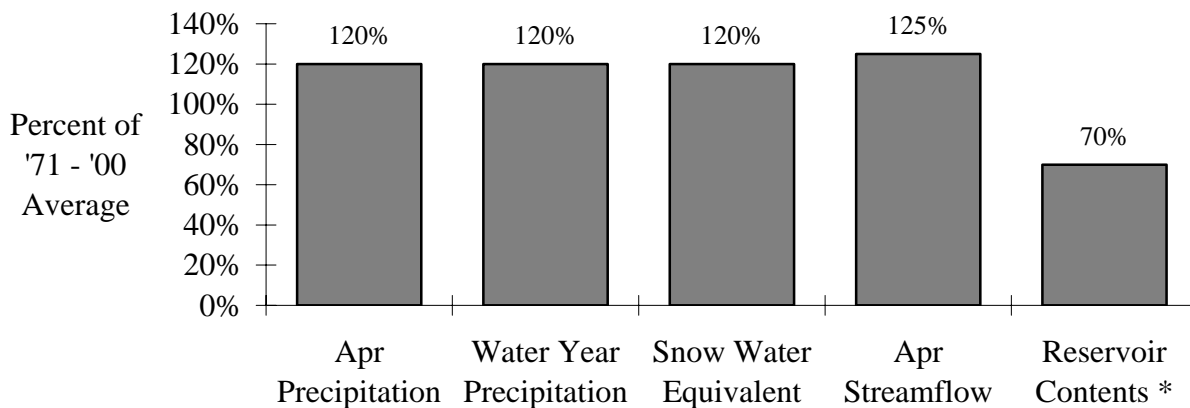
Lower elevation snow has melted off however high elevation snowpack remains between 120 to 150 percent of average as of May 1. Above to much above average April-July runoff is expected.

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

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



## BASIN CONDITIONS - MAY 1, 2006



\* Percent usable capacity, not percent average contents.

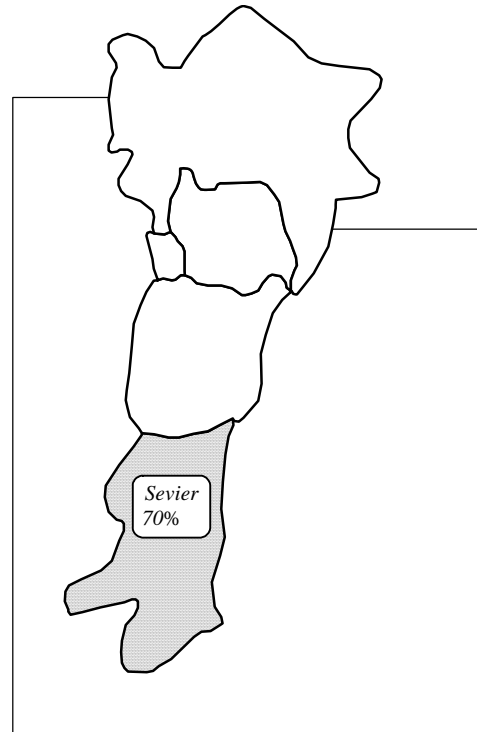
Specific site forecasts are listed beginning on page 4.

## SEVIER LAKE BASIN

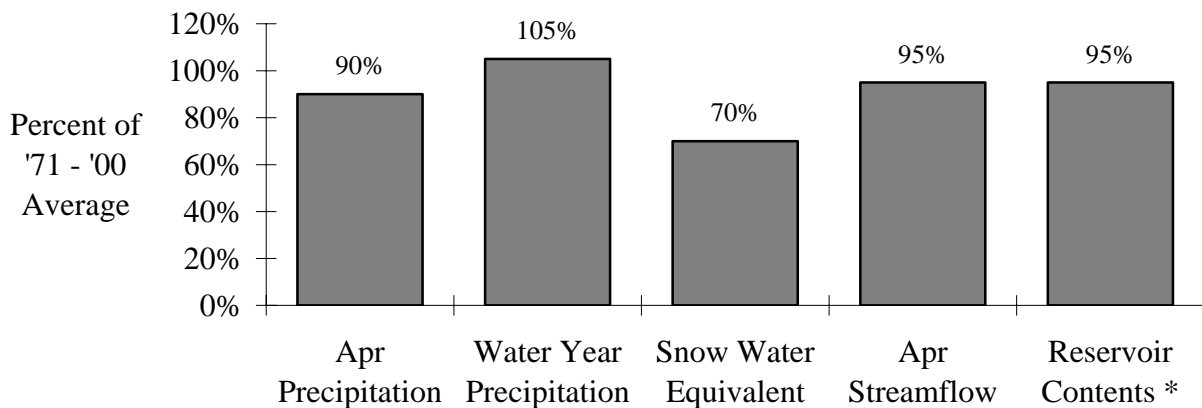
As of May 1, near to below average snowpack remains in protected areas and at highest elevations. Near to below average Apr-Jul runoff volumes are anticipated.

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

Sevier River:  
Below Average



### BASIN CONDITIONS - MAY 1, 2006



\* 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	118	104	132	104
	WOODRUFF NARROWS RES	128	94	159	97
	MONTPELIER, NR, STEWART DAM, B	250	107	315	193
BIG CK	RANDOLPH, NR	5.6	114	10	2.3
SMITHS FORK	BORDER, NR	113	110	121	105
LOGAN	LOGAN, NR, STATE DAM, ABV	160	127	177	144
BLACKSMITH FORK	HYRUM, NR, UP&L DAM, ABV	64	133	77	53
SMITH AND MOREHOUSE CK	OAKLEY, NR	36	106	40	32
WEBER	OAKLEY, NR	132	107	147	117
	ROCKPORT RES, WANSHIP, NR	147	110	166	128
	COALVILLE, NR	153	112	171	135
	ECHO RES, ECHO, AT	190	106	220	161
	GATEWAY	430	121	490	370
CHALK CK	COALVILLE	47	104	59	35
LOST CK	LOST CK RES, CROYDON, NR	21	119	26	16.7
EAST CANYON CK	EAST CANYON RES, MORGAN, NR	55	177	64	47
SF OGDEN	HUNTSVILLE, NR	82	128	89	75
OGDEN	PINEVIEW RES, OGDEN, NR	195	147	215	175
WHEELER CK	HUNTSVILLE, NR	11.4	181	12.4	10.4
SPANISH FORK	CASTILLA, NR	95	123	142	48
PROVO	WOODLAND, NR	120	117	142	98
	HAILSTONE, NR	129	118	157	101
	DEER CK RES	141	112	183	99
AMERICAN FORK	AMERICAN FORK, NR, UP PWRPLNT,	41	128	47	35
JORDAN	UTAH LAKE, PROVO, NR	365	112	495	235
LITTLE COTTONWOOD CK	SALT LAKE CITY, NR	55	138	61	49
BIG COTTONWOOD CK	SALT LAKE CITY, NR	48	126	55	41
CITY CK	SALT LAKE CITY, NR	13	149	16.1	9.9
EMIGRATION CK	SALT LAKE CITY, NR	6.2	138	8.8	3.6
MILL CK	SALT LAKE CITY, NR	9.5	136	12	7
DELL FK	LITTLE DELL RES	10.6	156	13.7	7.6
PARLEYS CK	SALT LAKE CITY, NR	23	138	30	16
VERNON CK	VERNON, NR	1.3	88	1.9	0.91
S WILLOW CK	GRANTSVILLE, NR	4.5	141	5.2	3.8
SETTLEMENT CK	TOOELE, NR	2.1	100	3.1	1.3

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

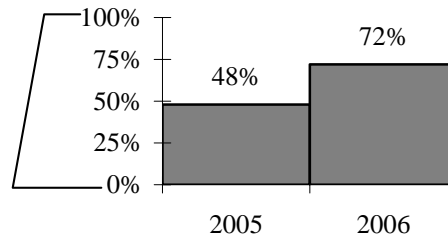
**Sevier Lake Basin:** April through July volume (kaf) forecasts (except where noted).

Stream	Station	Most Probable	Percent Avg.	Reas. Max	Reas. Min
SEVIER	HATCH	43	78	58	28
	KINGSTON, NR	56	63	81	31
	PIUTE RES, MARYSVALE, NR	80	63	130	30
	VERMILLION DAM	114	66	184	44
	SIGURD, NR	134	72	230	39
	GUNNISON, NR, SAN PITCH, BLO	160	57	370	65
EF SEVIER	KINGSTON, NR	30	79	48	11.7
CLEAR CK	SEVIER, NR, DIV, ABV	16	73	22	9.7
SALINA CK	SALINA	11	56	27	2.1
CHICKEN CK	LEVAN, NR	4.2	93	5.5	3.1
OAK CK	OAK CITY, NR, LITTLE CK, ABV	1.6	96	2.1	1.1
BEAVER	BEAVER, NR	23	85	29	17.7
	MINERSVILLE RES, MINERSVILLE,	10	60	20	3.4
COAL CK	⇒ CEDAR CITY, NR	16.5	85	20	14

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

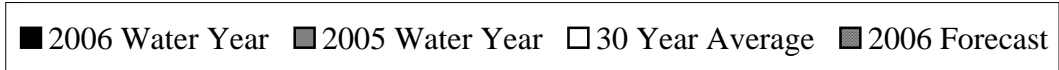
Percent of Usable Capacity



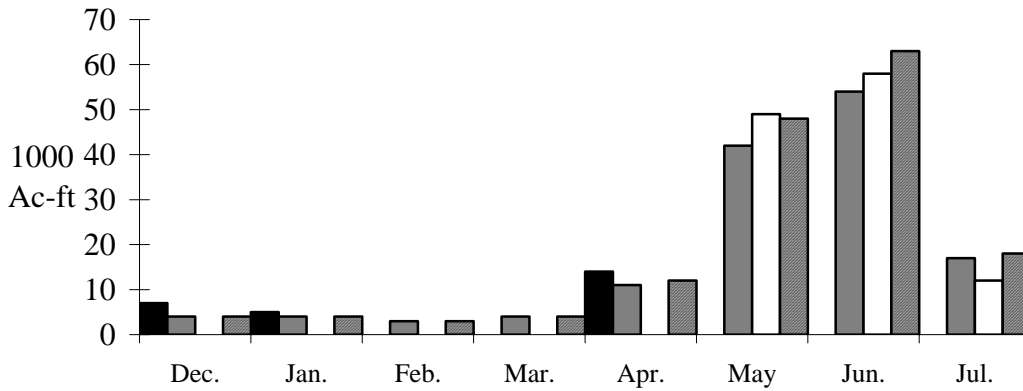
RESERVOIR (vol. in 1000 ac-ft)	Usable Capacity	EOM Usable Contents	Percent Usable Capacity (%)
Bear Lake	1302	391.9	30
Causey	7.1	5.8	81
Jordanelle	311	277.5	89
Deer Creek	149.7	125	83
East Canyon	49.5	42.9	87
Echo	73.9	52.2	71
Gunnison	20.3	20.3	100
Hyrum	15.3	11.8	77
Lost Creek	22.5	17.4	77
Minersville	23.3	22.3	96
Otter Creek	52.5	50.3	96
Pine View	110.1	84.8	77
Piute	71.8	60.5	84
Rockport	60.9	34.9	57
Sevier bridge	236	228.3	97
* Utah Lake	870.9	946	109
Willard	215	184.3	86
Woodruff Narrows	55.8	57.3	103
TOTAL	3647.6	2613.5	72
Flaming Gorge	3749	3036.1	81
Lake Powell	24322	11093	46
Moon Lake	36	29	81
Red Fleet	25.7	29	113
Scofield	65.8	26.9	41
Starvation	165.3	143.8	87
Steinaker	34.4	33.3	97
Strawberry	1105.9	848.6	77
Upper Stillwater	32.5	2.3	7

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

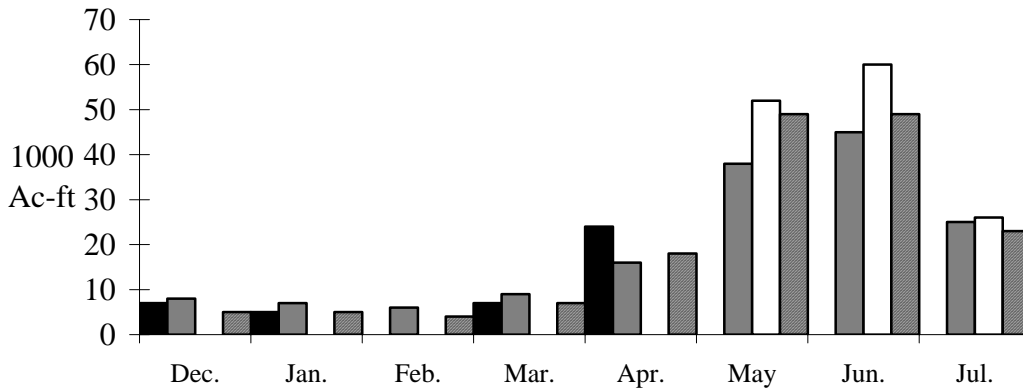
# MONTHLY STREAMFLOWS



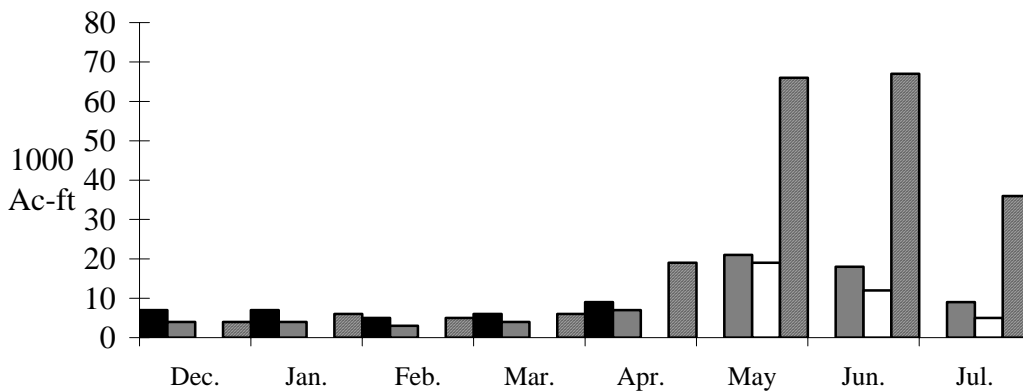
## Weber Oakley, nr:



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



## Sevier - Hatch:

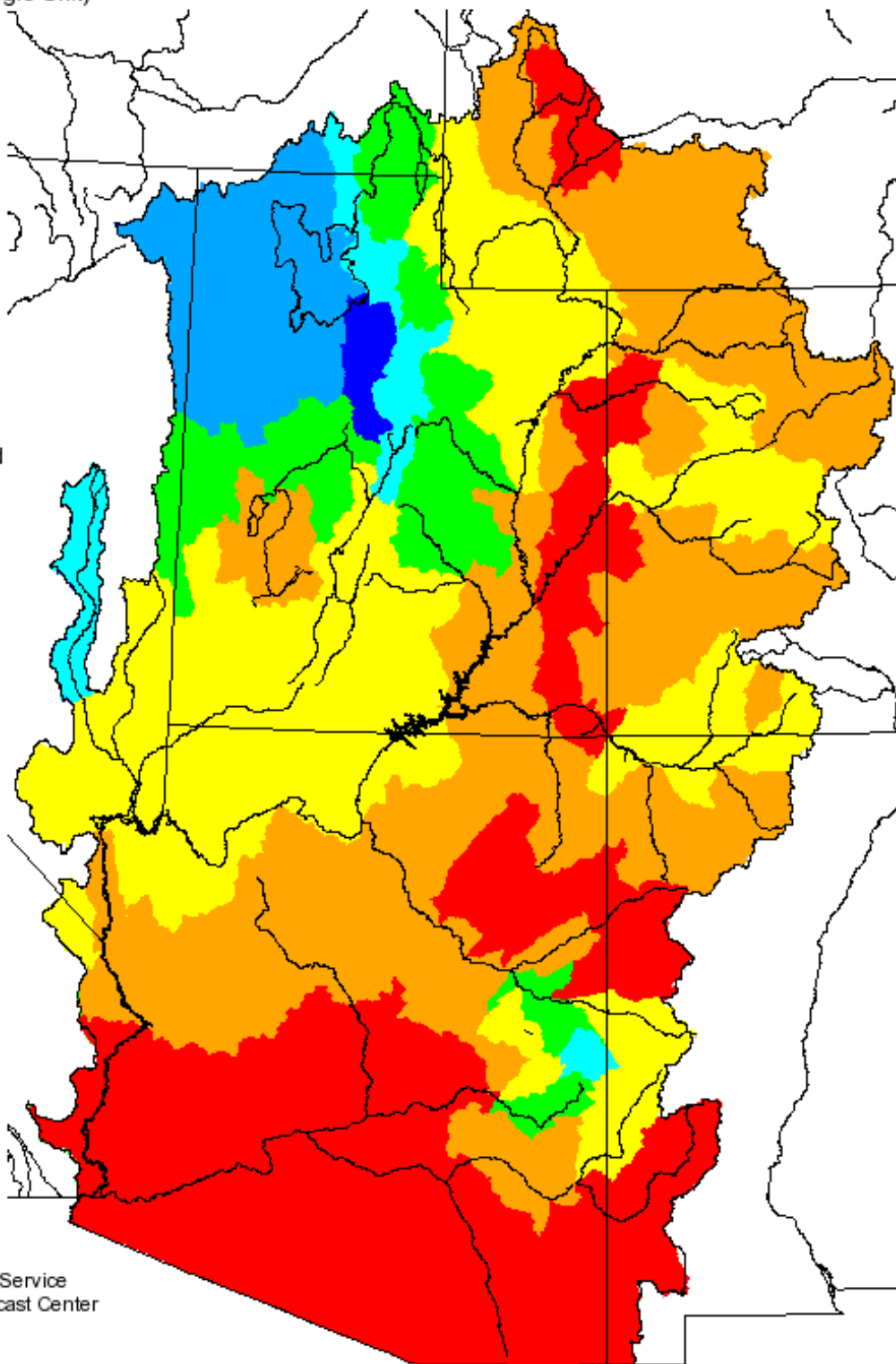
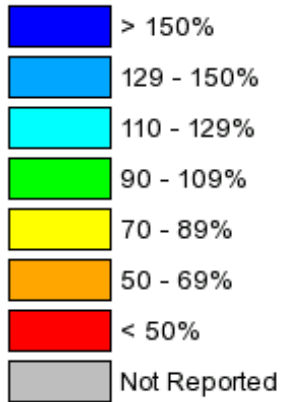


\* observed data unavailable

# Monthly Precipitation for April 2006

(Averaged by Hydrologic Unit)

## % Average



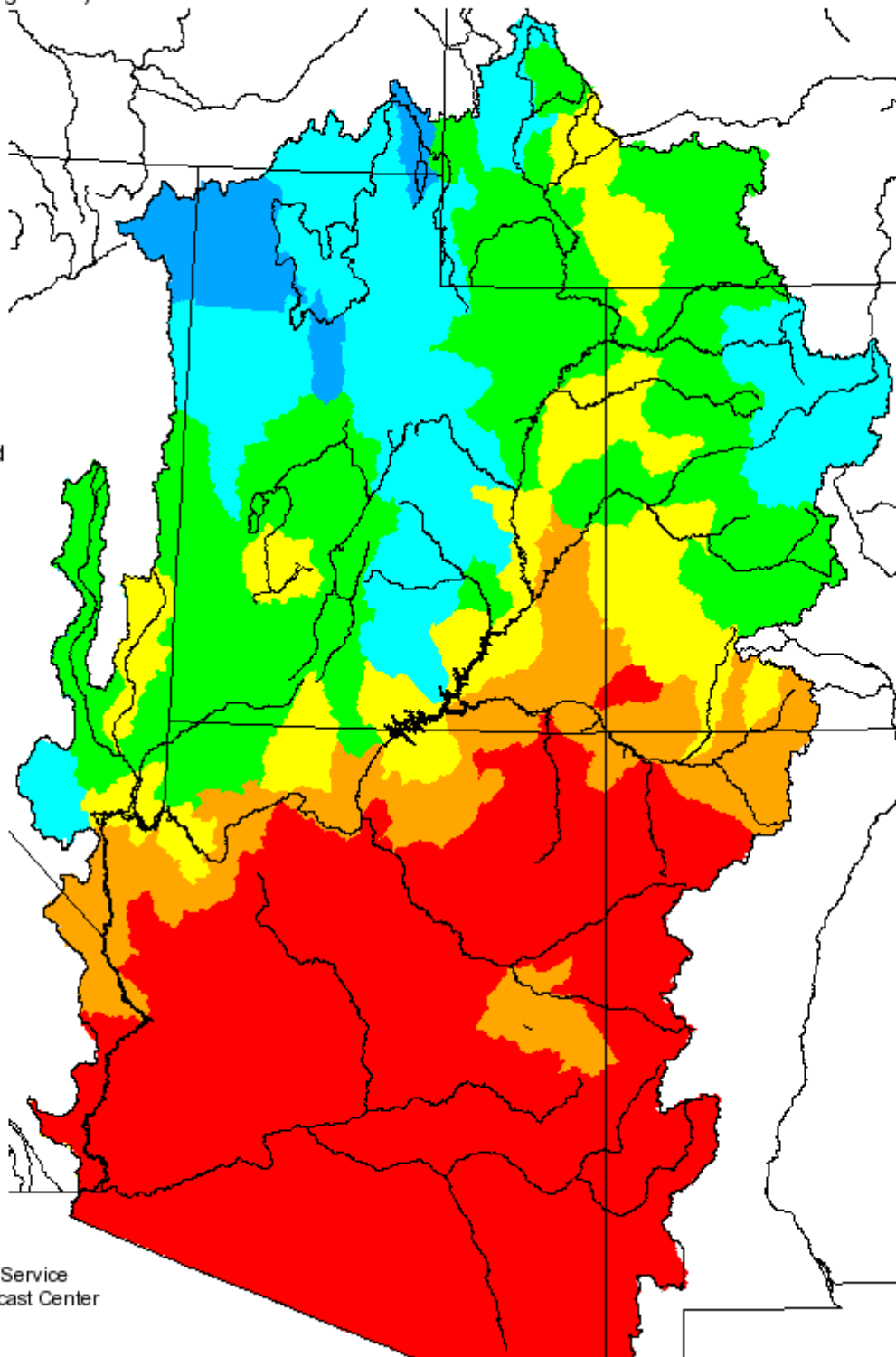
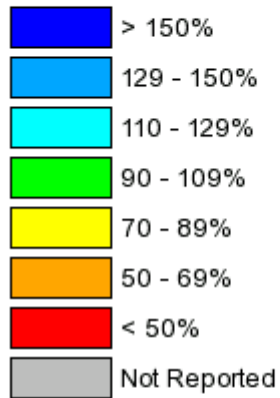
Prepared by  
NOAA, National Weather Service  
Colorado Basin River Forecast Center  
Salt Lake City, Utah  
[www.cbrfc.noaa.gov](http://www.cbrfc.noaa.gov)



# Seasonal Precipitation, October 2005 - April 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>