

## JUNE 1, 2003

## SUMMARY

Nearly all of the snowpack has been depleted over the Eastern Great Basin as of June 1. May precipitation was near average over the area. As a result, the April-July runoff forecasts increased slightly in most basins with the exception of the Six Creeks area, which decreased 15 percent overall. Forecasts range from 10 to 65 percent of the 1971-2000 average in the Great Salt Lake Basin and 20 to 65 percent in the Sevier Lake Basin.

## **APRIL - JULY VOLUME FORECASTS**



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## GREAT SALT LAKE BASIN

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

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



### BASIN CONDITIONS - JUNE 1, 2003



\* 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 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 - JUNE 1, 2003



\* 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	Percent		
		Probable	Avg.	Max	Min
BEAR	UTAH-WYOMING STATE LINE, NR	73	63	82	65
	WOODRUFF NARROWS RES	55	40	82	34
	MONTPELIER, NR, STEWART DAM, B	44	20	117	33
BIG CK	RANDOLPH, NR	0.45	9	3.7	0.15
SMITHS FORK	BORDER, NR	53	51	66	43
LOGAN	LOGAN, NR, STATE DAM, ABV	65	52	72	59
BLACKSMITH FORK	HYRUM, NR, UP&L DAM, ABV	22	46	26	18.3
SMITH AND MOREHOUSE CK	OAKLEY, NR	21	62	24	17.8
WEBER	OAKLEY, NR	73	59	85	61
	ROCKPORT RES, WANSHIP, NR	67	50	81	53
	COALVILLE, NR	67	49	82	52
	ECHO RES, ECHO, AT	85	47	114	56
	GATEWAY	113	32	170	56
CHALK CK	COALVILLE	17	38	27	6.3
LOST CK	LOST CK RES, CROYDON, NR	4.2	24	5.5	3.1
EAST CANYON CK	EAST CANYON RES, MORGAN, NR	8.5	27	11.3	6.1
SF OGDEN	HUNTSVILLE, NR	17.4	27	23	11.4
OGDEN	PINEVIEW RES, OGDEN, NR	33	25	52	14
WHEELER CK	HUNTSVILLE, NR	1.91	30	3.5	0.3
SPANISH FORK	CASTILLA, NR	30	39	66	8
PROVO	WOODLAND, NR	65	63	87	45
	HAILSTONE, NR	63	58	89	37
	DEER CK RES	81	64	108	54
AMERICAN FORK	AMERICAN FORK, NR, UP PWRPLNT,	10	31	14.4	5.6
JORDAN	UTAH LAKE, PROVO, NR	143	44	220	67
LITTLE COTTONWOOD CK	SALT LAKE CITY, NR	18	45	22	13.9
BIG COTTONWOOD CK	SALT LAKE CITY, NR	15	39	21	9.4
СІТҮ СК	SALT LAKE CITY, NR	1.3	15	4.2	0.2
EMIGRATION CK	SALT LAKE CITY, NR	0.7	16	2.8	0.2
MILL CK	SALT LAKE CITY, NR	1.2	17	3.1	0
DELL FK	LITTLE DELL RES	1	15	2.5	0
PARLEYS CK	SALT LAKE CITY, NR	1.5	9	6.7	0
VERNON CK	VERNON, NR	0.5	34	0.83	0.3
S WILLOW CK	GRANTSVILLE, NR	1.39	43	3.2	0.61
SETTLEMENT CK	TOOELE, NR	0.53	27	0.65	0.43

Stream	Station	Most	Percent	Reas.	Reas.
		Probable	Avg.	Max	Min
SEVIER	НАТСН	25	45	41	8.7
	KINGSTON, NR	38	43	69	7.1
	PIUTE RES, MARYSVALE, NR	48	38	105	6
	VERMILLION DAM	70	41	141	38
	SIGURD, NR	73	39	168	38
	GUNNISON, NR, SAN PITCH, BLO	110	39	325	65
EF SEVIER	KINGSTON, NR	17	45	35	3
CLEAR CK	SEVIER, NR, DIV, ABV	11	50	19	3
SALINA CK *	SALINA	MB	0	0	0
CHICKEN CK	LEVAN, NR	0.91	20	1.21	0.68
OAK CK	OAK CITY, NR, LITTLE CK, ABV	0.95	58	1.25	0.72
BEAVER	BEAVER, NR	17.1	66	23	12.7
	MINERSVILLE RES, MINERSVILLE,	8.8	53	9.6	8.1
COAL CK	CEDAR CITY, NR	8.9	46	13	6

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

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	Usable	EOM Usable	Percent Usable
(vol. in 1000 ac-ft)	Capacity	Contents	Capacity (%)
Bear Lake	1421	missing	missing
Causey	7.1	7	99
Jordanelle	311	290.6	93
Deer Creek	149.7	92	61
East Canyon	49.5	36.6	74
Echo	73.9	54.1	73
Gunnison	20.3	8.4	41
Hyrum	15.3	15.3	100
Lost Creek	22.5	7.2	32
Minersville	23.3	5.2	22
Otter Creek	52.5	29.8	57
Pine View	110.1	75.8	69
Piute	71.8	25.1	35
Rockport	60.9	54	89
Sevier bridge	236	72.6	31
* Utah Lake	missing	547.5	missing
Willard	215	119.4	56
Woodruff Narrows	55.8	23.8	43
TOTAL	1474.7	916.9	62
Flaming Gorge	3749	2646.7	71
Lake Powell	24322	12756.2	52
Moon Lake	36	34.8	97
Red Fleet	25.7	18.6	72
Scofield	65.8	missing	missing
Starvation	165.3	151.6	92
Steinaker	34.4	22.1	64
Strawberry	1105.9	837	76
Upper Stillwater	32.5	missing	missing

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

Colorado Basin River Forecast Center - National Weather Service

## MONTHLY STREAMFLOWS

■ 2003 Water Year ■ 2002 Water Year □ 30 Year Average □ 2003 Forecast

## Weber Oakley, nr:



Logan - Logan, nr, State Dam, abv:







\* observed data unavailable

Colorado Basin River Forecast Center - National Weather Service



# Monthly Precipitation for May 2003



# Seasonal Precipitation, October 2002 - May 2003

#### 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:

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

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