

WATER SUPPLY OUTLOOK for the

EASTERN GREAT BASIN

COLORADO BASIN RIVER FORECAST CENTER

NATIONAL WEATHER SERVICE, SALT LAKE CITY, UT

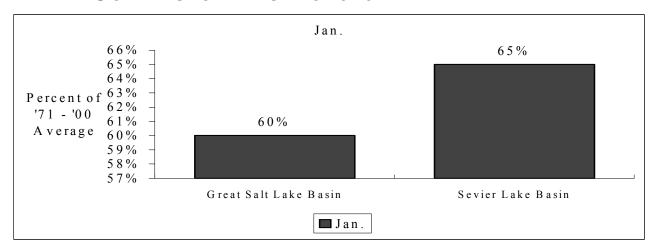


JANUARY 1, 2003

SUMMARY

Early season forecasts issued January 1 indicate much below average April-July runoff volumes expected throughout the Eastern Great Basin. In the Great Salt Lake Basin runoff volumes are forecast to range from 40 to 75 percent of the 1971-2000 average and 45 to 75 percent of average in the Sevier Lake Basin. January 1 snowpack ranges from 50 to 100 percent of average in the Great Salt Lake Basin and 30 to 115 percent in the Sevier Lake Basin.

APRIL - JULY VOLUME FORECASTS



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GREAT SALT LAKE BASIN

The January 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:

Bear River:

Much Below Average

Weber River:

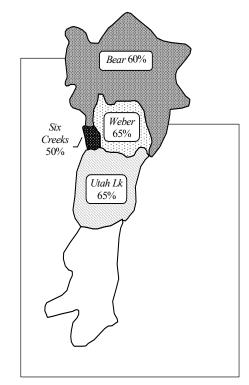
Much Below Average

Utah Lake:

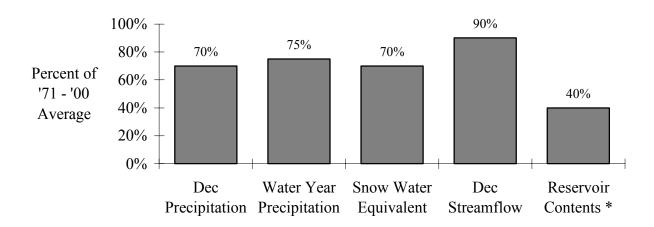
Much Below Average

Six Creeks:

Much Below Average



BASIN CONDITIONS - JANUARY 1, 2003



^{*} Percent usable capacity, not percent average contents.

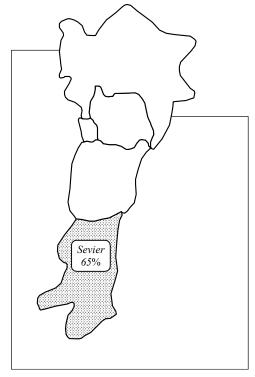
Specific site forecasts are listed beginning on page 4.

SEVIER LAKE BASIN

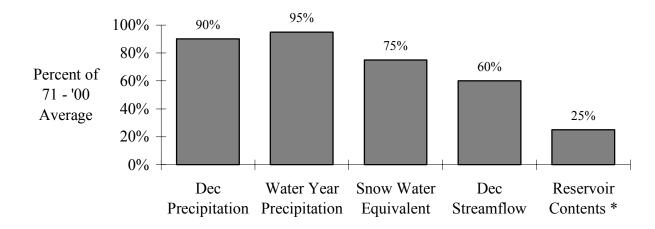
The January 1 water supply outlook is for much below average April-July runoff volumes in the Sevier Lake Basin.

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

Sevier River: Much Below Average



BASIN CONDITIONS - JANUARY 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	78	67	112	54
	WOODRUFF NARROWS RES	62	46	108	29
	MONTPELIER, NR, STEWART DAM, B	122	42	235	73
BIG CK	RANDOLPH, NR	2.8	57	6.7	1.05
SMITHS FORK	BORDER, NR	69	67	119	40
LOGAN	LOGAN, NR, STATE DAM, ABV	79	65	133	47
BLACKSMITH FORK	HYRUM, NR, UP&L DAM, ABV	31	65	51	18.9
SMITH AND MOREHOUSE CK	OAKLEY, NR	24	71	35	16.6
WEBER	OAKLEY, NR	83	67	124	59
	ROCKPORT RES, WANSHIP, NR	80	60	134	51
	COALVILLE, NR	81	59	138	51
	ECHO RES, ECHO, AT	112	63	180	44
	GATEWAY	215	61	355	147
CHALK CK	COALVILLE	30	67	53	18.7
LOST CK	LOST CK RES, CROYDON, NR	11	62	22	3.8
EAST CANYON CK	EAST CANYON RES, MORGAN, NR	19	61	33	8.8
SF OGDEN	HUNTSVILLE, NR	44	69	74	26
OGDEN	PINEVIEW RES, OGDEN, NR	86	65	142	30
WHEELER CK	HUNTSVILLE, NR	4.8	76	7.6	2
SPANISH FORK	CASTILLA, NR	47	61	103	7.7
PROVO	WOODLAND, NR	73	71	122	38
	HAILSTONE, NR	71	65	131	29
	DEER CK RES	88	70	177	23
AMERICAN FORK	AMERICAN FORK, NR, UP PWRPLNT,	19	59	40	7.2
JORDAN	UTAH LAKE, PROVO, NR	210	65	435	46
LITTLE COTTONWOOD CK	SALT LAKE CITY, NR	25	62	43	17.2
BIG COTTONWOOD CK	SALT LAKE CITY, NR	21	55	43	14.9
CITY CK	SALT LAKE CITY, NR	4.4	51	11.1	1.49
EMIGRATION CK	SALT LAKE CITY, NR	2	44	6.6	0
MILL CK	SALT LAKE CITY, NR	3.3	47	8.4	1.61
DELL FK	LITTLE DELL RES	3.4	50	9	1
PARLEYS CK	SALT LAKE CITY, NR	8.8	53	22	1.32
VERNON CK	VERNON, NR	0.81	55	1.86	0.35
S WILLOW CK	GRANTSVILLE, NR	2.4	75	4.9	0.51
SETTLEMENT CK	TOOELE, NR	1.02	52	3.2	0.45

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

Stream	Station	Most	Percent	Reas.	Reas.
		Probable	Avg.	Max	Min
SEVIER	HATCH	38	69	82	14.5
	KINGSTON, NR	60	67	118	29
	PIUTE RES, MARYSVALE, NR	81	64	163	25
	VERMILLION DAM	114	66	220	43
	SIGURD, NR	121	65	250	38
	GUNNISON, NR, SAN PITCH, BLO	176	63	420	65
EF SEVIER	KINGSTON, NR	26	68	55	4.8
CLEAR CK	SEVIER, NR, DIV, ABV	15	68	31	4.5
SALINA CK *	SALINA	MB	0	0	0
CHICKEN CK	LEVAN, NR	3.3	73	10.4	1.05
OAK CK	OAK CITY, NR, LITTLE CK, ABV	0.83	51	1.89	0.36
BEAVER	BEAVER, NR	17.5	67	25	12.2
	MINERSVILLE RES, MINERSVILLE,	7.7	46	17.9	3.3
COAL CK	CEDAR CITY, NR	11.5	60	23	4

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)

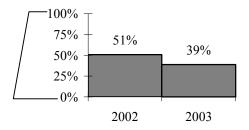
BN - below normal (70-89 percent of normal)

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

^{*} 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:

END OF MONTH RESERVOIR CONTENTS

Percent of Usable Capacity



DECEDVOID	I Jack La	EOM Haalala	Dama ant I Igalala		
RESERVOIR	Usable	EOM Usable			
(vol. in 1000 ac-ft)	Capacity	Contents	1 3 ()		
Bear Lake	1421	352	25		
Causey	7.1	2	28		
Jordanelle	311	231	74		
Deer Creek	149.7	72	48		
East Canyon	49.5	28	57		
Echo	73.9	30	41		
Gunnison	20.3	missing	missing		
Hyrum	15.3	6	39		
Lost Creek	22.5	6	27		
Minersville	23.3	3.5	15		
Otter Creek	52.5	18.2	35		
Pine View	110.1	23	21		
Piute	71.8	2.5	3		
Rockport	60.9	30	49		
Sevier bridge	236	65.5	28		
* Utah Lake	870.9	497.2	57		
Willard	215	101.4	47		
Woodruff Narrows	55.8	7	13		
TOTAL	3746.3	1475.3	39		
Flaming Gorge	3749	2631.8	70		
Lake Powell	24322	13774	57		
Moon Lake	36	1	3		
Red Fleet	25.7	10	39		
Scofield	65.8	13.6	21		
Starvation	165.3	120	73		
Steinaker	34.4	7	20		
Strawberry	1105.9	814	74		
Upper Stillwater	32.5	10	31		
unromice Total does not include missing site usable canacities					

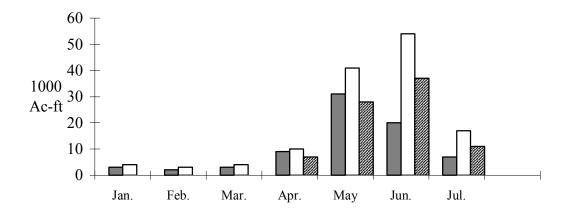
^{*} Usable capacity taken at compromise

Total does not include missing site usable capacities

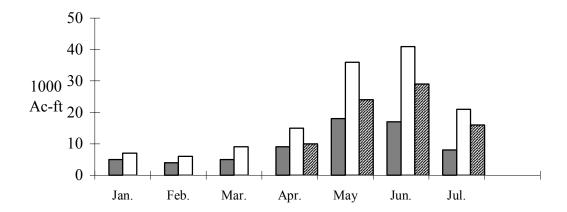
MONTHLY STREAMFLOWS

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

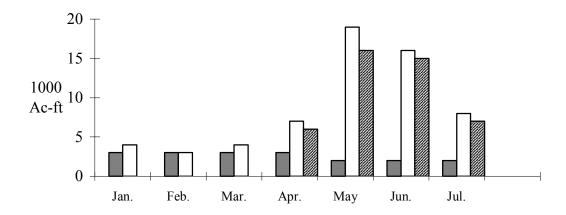
Weber Oakley, nr:



Logan - Logan, nr, State Dam, abv:

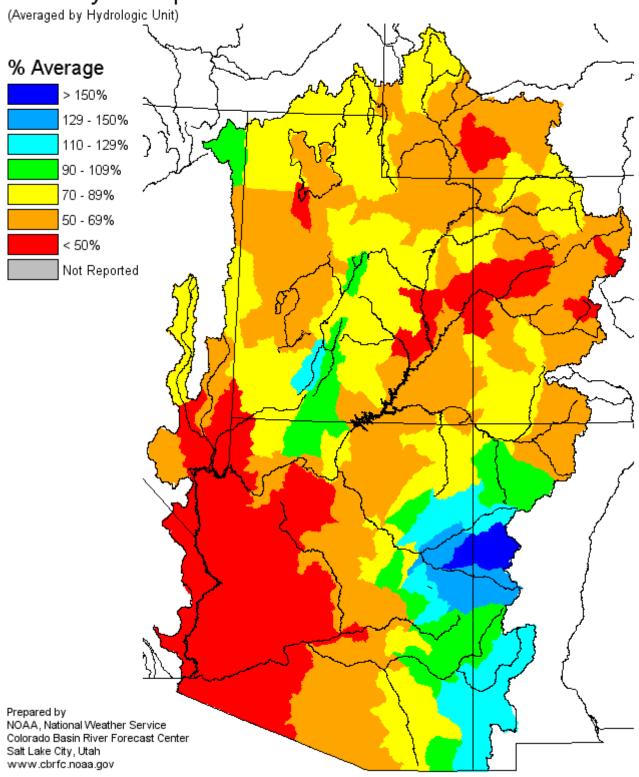


Sevier - Hatch:

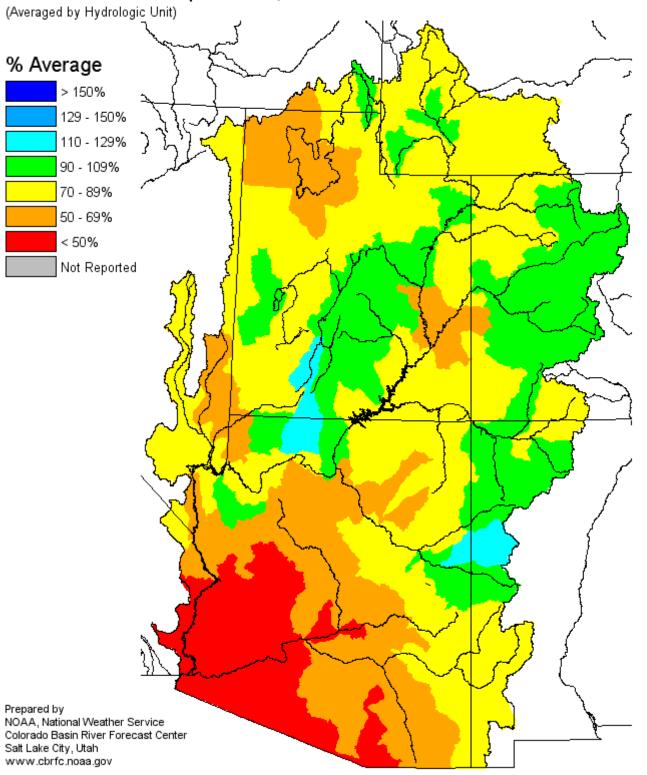


^{*} observed data unavailable

Monthly Precipitation for December 2002



Seasonal Precipitation, October 2002 - December 2002



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

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