

JUNE 1, 2007

SUMMARY

This is the last publication for WY2007. Unfortunately the news is not good. May precipitation and stream flow numbers were both much below average. Indexed snow numbers show that virtually all snow pillows are dry. Forecast in the upper Bear, Weber and Provo were the best in the state ranging from 55%-65%. All other forecasts for Utah rivers ranged from 11%-51% of average. Peak runoff has already occurred for WY2007. When the June, July observations are tallied, 2007 will set near record to record low A-J volumes.



APRIL - JULY VOLUME FORECASTS

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GREAT SALT LAKE BASIN

Northern Utah temperatures were 1-4 degrees above average for the month of May yet stream flows only averaged 55%-85% of average in the best cases. Most peaks have occurred and were well below average. Monthly precipitation was well below average at 46% and seasonal levels dropped to 75% of average. Indexed snow numbers were 2% of average. The average A-J forecast was 41% with a range of 11%-58% of average. WY2007 is now in record low territory for A-J vol.

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



BASIN CONDITIONS - JUNE 1, 2007



* Percent usable capacity, not percent average contents.

Specific site forecasts are listed beginning on page 4.

Sevier Lake Basin

The Sevier River Basin snow pack has completely melted and streams are currently in recession. May precipitation was 61% of average and seasonal was 86% of average. River flows on the Sevier at Hatch were 47% of average. The average forecasts for the A-J period was 37% and the forecasts ranged form 11% to 51% of average. Continued dry conditions with low flows look to put Southern Utah into near record to record low territory if the trend of hot and dry continues.

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



BASIN CONDITIONS - JUNE 1, 2007



* 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	Reas.	Reas.
		Probable	Avg.	Max	Min
BEAR	UTAH-WYOMING STATE LINE, NR	74	65	88	60
	WOODRUFF NARROWS RES	56	41	87	25
	MONTPELIER, NR, STEWART DAM, B	37	16	61	19.1
BIGCK	RANDOLPH, NR	1.65	34	1.96	1.34
SMITHS FORK	BORDER, NR	46	45	52	40
LOGAN	LOGAN, NR, STATE DAM, ABV	66	52	73	59
BLACKSMITH FORK	HYRUM, NR, UPNL DAM, ABV	21	44	24	18.3
SMITH AND MOREHOUSE CK	OAKLEY, NR	19.5	57	23	16.3
WEBER	OAKLEY, NR	66	54	78	54
	ROCKPORT RES, WANSHIP, NR	56	42	71	50
	COALVILLE, NR	53	38	68	38
	ECHO RES, ECHO, AT	79	44	108	50
	GATEWAY	125	35	182	68
CHALK CK	COALVILLE	22	49	33	11.3
LOST CK	LOST CK RES, CROYDON, NR	3.7	21	7.9	1.09
EAST CANYON CK	EAST CANYON RES, MORGAN, NR	10.1	33	13.2	7.4
SF OGDEN	HUNTSVILLE, NR	23	36	29	17.4
OGDEN	PINEVIEW RES, OGDEN, NR	44	33	63	25
WHEELER CK	HUNTSVILLE, NR	2.4	38	2.8	2
SPANISH FORK	CASTILLA, NR	34	44	81	13.6
PROVO	WOODLAND, NR	60	58	83	37
	HAILSTONE, NR	55	50	84	26
	DEER CK RES	69	55	111	27
AMERICAN FORK	AMERICAN FORK, NR, UP PWRPLNT,	9.2	29	14.7	3.7
JORDAN	UTAH LAKE, PROVO, NR	114	35	270	45
LITTLE COTTONWOOD CK	SALT LAKE CITY, NR	15	38	20	9.6
BIG COTTONWOOD CK	SALT LAKE CITY, NR	6.1	16	12.1	2.4
CITY CK	SALT LAKE CITY, NR	2.4	28	5.4	0.96
EMIGRATION CK	SALT LAKE CITY, NR	0.5	11	3	0.2
MILL CK	SALT LAKE CITY, NR	2.4	34	4.7	0.96
DELL FK	LITTLE DELL RES	1.9	28	3.2	0.6
PARLEYS CK	SALT LAKE CITY, NR	2	12	8.3	0.8
VERNON CK	VERNON, NR	0.89	60	1.24	0.18
S WILLOW CK	GRANTSVILLE, NR	1.76	55	2.1	1.39
SETTLEMENT CK	TOOELE, NR	0.23	11	0.6	0.04

For more detailed information about each forecast visit www.wrh.noaa.gov/cbrfc/westernwater

Stream	Station	Most	Percent	Reas.	Reas.
		Probable	Avg.	Max	Min
SEVIER	НАТСН	22	40	36	7.9
	KINGSTON, NR	44	49	67	21
	PIUTE RES, MARYSVALE, NR	46	37	93	18.4
	VERMILLION DAM	87	51	158	16.3
	SIGURD, NR	80	43	175	9
	GUNNISON, NR, SAN PITCH, BLO	80	29	260	32
EF SEVIER	KINGSTON, NR	12	32	31	4.8
CLEAR CK	SEVIER, NR, DIV, ABV	8.8	40	14.8	2.8
SALINA CK	SALINA	7.2	37	23	2.9
CHICKEN CK	LEVAN, NR	1.66	37	2.2	1.25
OAK CK	OAK CITY, NR, LITTLE CK, ABV	0.61	37	0.89	0.39
BEAVER	BEAVER, NR	11.3	42	13.3	9.5
	MINERSVILLE RES, MINERSVILLE,	1.9	11	4.7	0.52
COAL CK	CEDAR CITY, NR	7.5	39	8	7

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

For more detailed information about each forecast visit www.wrh.noaa.gov/cbrfc/westernwater

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	1302	490.3	38
Causey	7.1	7.1	100
Jordanelle	311	315	101
Deer Creek	149.7	123.6	83
East Canyon	49.5	49.5	100
Echo	73.9	67.3	91
Gunnison	20.3	43.5	214
Hyrum	15.3	14.9	97
Lost Creek	22.5	19	84
Minersville	23.3	10.1	43
Otter Creek	52.5	43.5	83
Pine View	110.1	95.4	87
Piute	71.8	46.5	65
Rockport	60.9	61.4	101
Sevier bridge	236	163.8	69
* Utah Lake	870.9	922	106
Willard	215	87.9	41
Woodruff Narrows	55.8	54	97
TOTAL	3647.6	3614.8	72
Flaming Gorge	3749	3148	84
Lake Powell	24322	12691	52
Moon Lake	36	37.1	103
Red Fleet	25.7	25.3	98
Scofield	65.8	41	62
Starvation	165.3	156.8	95
Steinaker	34.4	34.5	100
Strawberry	1105.9	956.1	86
Upper Stillwater	32.5	32.5	100

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

Colorado Basin River Forecast Center - National Weather Service

MONTHLY STREAMFLOWS

■ 2007 Water Year ■ 2006 Water Year ■ 30 Year Average ■ 2007 Forecast

Weber Oakley, nr:



Logan - Logan, nr, State Dam, abv:







* observed data unavailable

Colorado Basin River Forecast Center - National Weather Service





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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