



Wyoming Water Supply Outlook Report

April 1, 2002



Water Supply Outlook Reports and Federal - State - Private Cooperative Snow Surveys

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How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snow courses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be either above or below, the predicted value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making their operational decisions. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

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Wyoming Water Supply Outlook Report

General

Generally, snow water equivalent (SWE) across the state is below normal for this time of the year. SWE averages for the State are about 75 percent of normal for this time of the year. Precipitation for the month was mixed, with some better than average and some well below average. All basins report year-to-date precipitation below average. Reservoir levels vary from below average to average – average to above average in the northeast. Many of the larger reservoirs are below average. Generally, forecast runoff is well below average. Forecast runoff varies from 18 to 89 percent of average. There may be some direct diversion irrigated areas that will be significantly short of water. In some cases, reservoirs may not fill with the spring runoff, especially in the eastern portion of the State.

Snowpack

Less than average snowfall has occurred this past month. Although conditions did improve slightly, SWE is generally below average for the entire State. SWE in the northwestern portion of the State is now at 80 percent of average (150 percent of last year). Northeast Wyoming SWE is currently about 76 percent of average (97 percent of last year). The southeast portion is currently about 66 percent of average SWE (86 percent of last year). And the southwest is about 76 percent of average (115 percent of last year).

Precipitation

March precipitation was a mixed bag across the State. The northwest and northeast portions of the State received above average precipitation for the month. The southwest and south central received below average precipitation for March. The central and southeast parts of Wyoming received near average. Precipitation year to date is still well below average across the State. Departures from normal for the year range from -11, in the Upper Yellowstone, to -32 in the Lower Green. The State averages almost 22 percent below average for the year.

Basin	Departure from normal	Basin	Departure from normal
Snake River	+03%	Upper North Platte River	-05%
Yellowstone & Madison	+21%	Lower North Platte	-15%
Wind River	+11%	Little Snake River	-15%
Big Horn	-06%	Upper Green River	-08%
Shoshone & Clarks Fork	+51%	Lower Green River	-29%
Powder & Tongue River	-10%	Upper Bear River	-25%
Belle Fourche & Cheyenne	+12%		

Streams

Stream flow yield is expected to be below average to much below average across the State. Most probable yield for the State is forecast to be about 56 percent of average. The northwest part of the State is expected to yield about 66 percent of normal -- yield estimates vary from 42 to 89 percent of normal. Yield from the northeast portion of Wyoming will be below average (about 59 percent of average) -- yield estimates vary from 47 to 71 percent of average for the various forecast points. The southeast portion of the state will be about 38 percent of normal -- yield estimates range from 18 to 58 percent of normal. The southwest portion of Wyoming varies from 46 to 83 percent of average -- mean estimated yield for the forecast points in southwest Wyoming is about 62 percent of average.

Basin Summary of Snow Course Data

BASIN SUMMARY OF SNOW COURSE DATA

APRIL 2002

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00

WYOMING Snow Course and SNOTEL Stations						
ALBANY	9400	3/27/02	31	8.2	9.7	13.7
ASTER CREEK	7750	4/01/02	75	27.0	12.6	30.5
BALD MOUNTAIN SNOTEL	9380	4/01/02	---	15.8	14.1	19.9
BASE CAMP SNOTEL	7030	4/01/02	---	13.3	8.0	18.1
BATTLE MTN. SNOTEL	7440	4/01/02	---	10.5	9.0	11.0
BEARLODGE DIVIDE	4680	4/01/02	12	1.9	4.5	1.3
BEARTOOTH LK. SNOTEL	9280	4/01/02	---	20.9	11.9	23.6
BEAR TRAP SNOTEL	8200	4/01/02	---	5.8	5.4	5.2
BIG GOOSE	7760	3/28/02	22	4.7	3.1	7.1
BIG GOOSE SNOTEL	7760	4/01/02	---	8.3	5.8	10.7
BIG PARK	8620	3/27/02	51	14.5	11.6	19.4
BIG SANDY SNOTEL	9080	4/01/02	45	12.1	9.8	14.7
BLACKWATER SNOTEL	9780	4/01/02	---	21.0	14.6	24.8
BLIND BULL SNOTEL	8900	4/01/02	65	21.0	15.5	28.3
BLIND PARK SNOTEL	6870	4/01/02	---	6.3	7.7	8.7
BLUE RIDGE	9620	3/26/02	30	7.4	4.3	11.7
BONE SPGS. SNOTEL	9350	4/01/02	---	13.0	10.6	16.4
BROOKLYN LK. SNOTEL	10220	4/01/02	---	14.2	17.0	23.9
BRYAN FLAT	6420	3/29/02	24	8.2	6.1	8.7
BUCK CREEK	7960	3/29/02	25	6.0	9.8	10.6
BURGESS JCT. SNOTEL	7880	4/01/02	---	8.9	8.4	11.7
BURROUGHS CRK SNOTEL	8750	4/01/02	---	14.2	8.5	14.8
CANYON SNOTEL	8090	4/01/02	---	12.9	8.8	13.9
CARTER MOUNTAIN	7950	3/28/02	14	2.4	1.4	4.9
CASPER MTN. SNOTEL	7850	4/01/02	---	9.4	11.6	14.6
CASTLE CREEK	8400	3/26/02	20	4.0	2.0	4.8
CCC CAMP	7000	3/26/02	37	10.5	7.6	12.7
CHALK CK #1 SNOTEL	9100	4/01/02	62	20.9	16.4	24.9
CHALK CK #2 SNOTEL	8200	4/01/02	54	16.3	11.8	16.2
CLOUD PEAK SNOTEL	9850	4/01/02	---	13.1	9.9	13.5
COLD SPRINGS SNOTEL	9630	4/01/02	---	5.3	3.1	9.0
COTTONWOOD CR SNOTEL	7700	4/01/02	---	17.9	15.6	24.2
DARBY CANYON	8250	4/02/02	53	18.6	16.8	24.5
DEER PARK SNOTEL	9700	4/01/02	---	11.8	10.4	17.1
DITCH CREEK	6870	3/27/02	17	3.4	5.5	4.1
DIVIDE PEAK SNOTEL	8860	4/01/02	---	14.1	14.9	20.0
DOMELAKE SNOTEL	8880	4/01/02	---	10.4	9.4	12.6
DU NOIR	8760	3/28/02	26	6.2	3.7	8.3
EAST RIM DIV SNOTEL	7930	4/01/02	---	10.5	7.9	13.3
ELBO RANCH	7100	4/01/02	37	10.2	6.4	12.5
ELKHART PARK SNOTEL	9400	4/01/02	---	10.1	11.0	13.6
EVENING STAR SNOTEL	9200	4/01/02	---	24.2	14.7	30.1
FOUR MILE MEADOWS	7860	4/02/02	34	9.0	6.4	12.8

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
FOXPARK	9060	3/27/02	18	4.7	7.9	7.6
GEYSER CREEK	8500	3/28/02	24	5.0	2.9	7.1
GLADE CREEK	7040	4/01/02	53	19.0	12.9	24.3
GRANITE CRK SNOTEL	6770	4/01/02	---	12.6	10.9	18.6
GRANNIER MEADOWS	8860	3/26/02	30	7.7	5.7	14.1
GRASSY LAKE SNOTEL	7270	4/01/02	---	28.5	20.6	36.1
GRAVE SPRINGS SNOTEL	8550	4/01/02	---	7.1	6.2	9.4
GREYS BOUNDARY	5720	3/26/02	30	10.5	6.9	11.3
GROS VENTRE SNOTEL	8750	4/01/02	---	13.0	9.7	14.4
GROVER PARK DIVIDE	7000	3/26/02	30	9.0	3.8	11.2
HAIRPIN TURN	9480	3/27/02	33	8.6	11.4	16.3
HANSEN S.M. SNOTEL	8360	4/01/02	---	5.4	5.0	6.5
HAMS FORK SNOTEL	7840	4/01/02	---	10.0	7.5	12.0
HASKINS CREEK	8980	3/29/02	66	23.0	25.1	30.0
HOBBS PARK SNOTEL	10100	4/01/02	---	11.1	6.4	15.1
HUCKLEBERRY DIVIDE	7300	4/01/02	49	16.6	11.0	21.3
INDIAN CREEK SNOTEL	9430	4/01/02	---	21.3	17.3	28.2
JACKPINE CREEK	7350	4/02/02	49	18.4	13.3	22.2
KELLEY R.S. SNOTEL	8180	4/01/02	---	12.7	10.5	17.1
KENDALL R.S. SNOTEL	7740	4/01/02	---	10.1	8.3	14.6
KIRWIN SNOTEL	9550	4/01/02	---	9.8	5.5	11.5
LAKE CAMP	7780	3/30/02	34	8.9	6.4	10.4
LA PRELE SNOTEL	8380	4/01/02	---	6.7	9.0	11.0
LARSEN CREEK	9020	3/25/02	33	9.1	5.6	12.7
LEWIS LAKE SNOTEL	7850	4/01/02	---	29.9	16.7	35.8
LEWIS LAKE DIVIDE	7850	4/01/02	95	36.1	20.9	42.4
LIBBY LODGE	8750	3/27/02	26	6.5	8.1	10.9
LITTLE BEAR RUN	6240	3/29/02	11	2.4	4.6	2.4
LITTLE WARM SNOTEL	9370	4/01/02	---	10.3	7.6	12.0
LOOMIS PARK SNOTEL	8240	4/01/02	---	16.0	11.3	17.5
LUPINE CREEK	7380	3/30/02	31	7.7	3.4	9.9
MALLO	6420	3/29/02	23	4.4	7.4	6.5
MARQUETTE SNOTEL	8760	4/01/02	---	7.1	4.5	9.0
MEDICINE LODGE LAKES	9340	3/31/02	32	7.8	7.8	11.1
MIDDLE FORK	7420	3/26/02	19	3.8	3.1	6.0
MIDDLE POWDER SNOTEL	7760	4/01/02	---	6.8	8.6	11.8
MORAN	6750	4/02/02	30	9.4	5.4	12.4
MOSS LAKE	9800	4/01/02	40	12.0	16.1	23.6
MOUNT TOM	5560	3/29/02	15	3.0	7.9	3.8
NEW FORK SNOTEL	8340	4/01/02	---	9.0	8.8	11.3
NORRIS BASIN	7500	3/30/02	30	9.2	5.9	10.8
NORTH BARRETT CREEK	9400	4/01/02	54	17.0	18.4	21.5
NORTH FRENCH SNOTEL	10130	4/01/02	---	15.9	26.4	29.5
NORTH RAPID CK SNTL	6130	4/01/02	---	6.4	7.6	8.3
NORTH TONGUE	8450	3/31/02	36	8.1	7.0	13.0
OLD BATTLE SNOTEL	9920	4/01/02	---	20.4	23.6	32.4
OLD FAITHFUL	7400	3/31/02	40	12.6	5.0	13.9
ONION GULCH	8780	3/29/02	24	5.0	4.4	8.3
OWL CREEK SNOTEL	8980	4/01/02	---	4.6	3.5	5.6
PARKERS PEAK SNOTEL	9400	4/01/02	---	19.8	13.9	21.9
PHILLIPS BENCH SNTL	8200	4/01/02	---	21.9	16.3	29.2
POCKET CREEK	9350	3/25/02	38	9.9	9.1	13.2

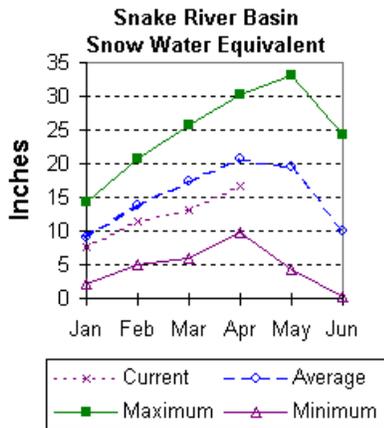
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
POISON MEADOWS	8500				---	---
POLE MOUNTAIN	8700	3/27/02	27	6.4	7.6	8.4
POWDER RVR. PASS SNTL	9480	4/01/02	---	8.7	6.6	10.9
PURGATORY GULCH	8970	4/01/02	36	10.4	11.3	11.8
RANGER CREEK	8120	3/31/02	29	6.4	5.0	8.9
RENO HILL SNOTEL	8500	4/01/02	---	9.7	12.6	14.3
REUTER CANYON	6280	4/01/02	28	7.1	15.8	8.6
ROWDY CREEK	8300	3/26/02	52	17.1	11.7	21.6
RYAN PARK	8400	4/01/02	33	9.4	9.6	10.8
SALT RIVER SNOTEL	7600	4/01/02	---	11.2	7.6	14.6
SAND LAKE SNOTEL	10050	3/28/02	---	21.2	24.2	32.7
SANDSTONE SNOTEL	8150	4/01/02	---	8.0	11.6	14.8
SAWMILL DIVIDE	9260	3/28/02	37	6.7	8.0	13.0
SHELL CREEK SNOTEL	9580	4/01/02	---	12.7	10.8	14.9
SHERIDAN R.S.	7750	3/28/02	22	5.6	1.3	5.8
SNAKE RIVER STATION	6920	4/01/02	47	16.7	10.4	20.9
SNAKE RV STA SNOTEL	6920	4/01/02	---	16.2	10.2	19.2
SNIDER BASIN SNOTEL	8060	4/01/02	---	9.8	8.8	14.7
SNOW KING MTN	7660	3/29/02	38	12.1	---	14.7
SOLDIER PARK	8780	3/31/02	19	3.3	2.7	5.9
SOUR DOUGH	8460	3/31/02	20	4.0	3.8	7.1
SOUTH BRUSH SNOTEL	8440	4/01/02	---	10.7	9.3	13.2
SOUTH PASS SNOTEL	9040	4/01/02	---	11.5	9.1	16.7
SPRING CRK. SNOTEL	9000	4/01/02	---	20.4	16.9	26.9
ST LAWRENCE ALT SNTL	8620	4/01/02	---	4.7	3.2	7.4
SUCKER CREEK SNOTEL	8880	4/01/02	---	10.8	8.1	11.8
SYLVAN LAKE SNOTEL	8420	4/01/02	---	18.6	14.3	22.8
SYLVAN ROAD SNOTEL	7120	4/01/02	---	10.6	8.3	12.9
T CROSS RANCH	7900	3/28/02	27	7.0	2.4	7.2
TETON PASS W.S.	7740	4/01/02	56	21.0	16.6	27.6
THUMB DIVIDE SNOTEL	7980	4/01/02	---	15.4	7.6	19.2
THUMB DIVIDE	7980	4/01/02	48	14.9	6.1	19.1
TIE CREEK SNOTEL	6870	4/01/02	---	5.7	4.9	6.1
TIMBER CREEK SNOTEL	7950	4/01/02	---	3.4	3.1	5.8
TOGWOTEE PASS SNOTEL	9580	4/01/02	72	21.2	16.7	25.2
TOWNSEND CRK SNOTEL	8700	4/01/02	---	5.8	5.1	8.8
TRIPLE PEAK SNOTEL	8500	4/01/02	---	20.4	15.4	25.2
TURPIN MEADOWS	6900	4/02/02	27	7.4	3.5	10.2
TWO OCEAN SNOTEL	9240	4/01/02	---	27.4	19.1	28.4
TYRELL RANGER STA.	8300	3/31/02	20	3.5	3.4	7.6
UPPER SPEARFISH	6500	3/27/02	17	3.7	8.0	6.7
WARREN PEAK SNOTEL	6520				---	---
WEBBER SPRING SNOTEL	9250	4/01/02	---	15.8	16.1	26.4
WHISKEY PARK SNOTEL	8950	4/01/02	---	20.0	21.5	30.4
WILLOW CREEK SNOTEL	8450	4/01/02	---	23.9	18.4	30.6
WINDY PEAK SNOTEL	7900	4/01/02	---	5.7	7.5	8.1
WOLVERINE SNOTEL	7650	4/01/02	---	7.2	6.7	11.6
WOOD ROCK G.S.	8440	3/28/02	28	6.4	5.8	10.2
YOUNTS PEAK SNOTEL	8350	4/01/02	---	14.3	8.4	17.3

(d) Denotes discontinued site.

Snake River Basin (1)

Snow

The Snake River basin snow water equivalent (SWE) is below normal. Snake above Jackson Lake is 83 percent of average (163% of last year at this time). Pacific Creek is 85 percent of average (154% of last year at this time). Gros Ventre River is 85 percent of average (135% of last year at this time). Hoback River is 81 percent of average (132% of last year at this time), Greys River is 79 percent of average (132% of last year at this time). Salt River is 78 percent of average (137% of last year at this time). Snake River Basin above Palisades is 80 percent of average (146% of last year at this time). See the Basin Summary of Snow Courses at the beginning of this report for a detailed listing of snow course information.



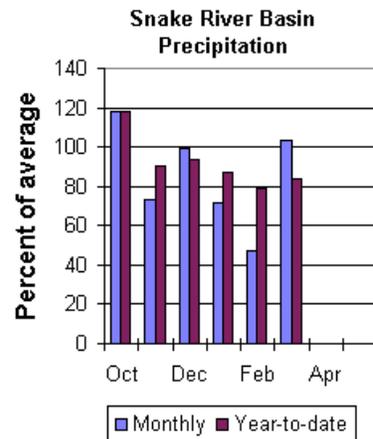
Precipitation.

Precipitation across the basin was near average last month. Monthly precipitation, for the basin, was 103 percent of average. Last months percentages range from 63 to 140 percent of average. Water-year-to-date precipitation is 84 percent of normal for the Snake River basin (133 percent of last year at this time) Year-to-date percentages range from 68 to 99 percent of average.

Reservoir.

Current reservoir storage compared to average for the three storage reservoirs in the

basin is below average. Grassy Lake storage is about 80 percent of average (9,800 acre feet compared to 12,900 last year). Jackson Lake storage is 34 percent of average (165,600 acre feet compared to 641,200 acre feet last year). Palisades Reservoir storage is about 61 percent of average (577,400 acre feet compared to 773,000 acre feet last year).



Streamflow.

The most probable runoff, based on the 50 percent chance yield, for April through September runoff is forecast below average for the basin.

The Snake near Moran is expected to yield 755,000 acre-feet (84 percent of normal). Yield from the Snake River above Palisades Reservoir is estimated to be 2,435,000 acre-feet (89 percent of normal). The 50 percent chance yield near Heise is expected to be 3,120,000 acre-feet (75 percent of normal). Pacific Creek at Moran is expected to yield about 157,000 acre-feet (88 percent of average). Greys River above Palisades Reservoir is estimated to yield 284,000 acre-feet (72 percent of normal). Salt River near Etna is estimated to have a yield of 302,000 acre-feet (72 percent of normal).

SNAKE RIVER BASIN
Streamflow Forecasts - April 1, 2002

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		===== Wetter =====>>				
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	30% (1000AF)	10% (1000AF)	Chance Of Exceeding * (% AVG.)	
SNAKE near Moran (1,2)	APR-SEP	614	711	755	84	799	896	904
SNAKE above Palisades (2)	APR-SEP	2164	2325	2435	89	2545	2706	2735
PALISADES RESERVOIR INFLOW (1,2)	APR-SEP	2409	2781	2950	76	3119	3491	3875
SNAKE near Heise (2)	APR-SEP	2650	2930	3120	75	3310	3590	4159
PACIFIC CREEK at Moran	APR-SEP	127	145	157	88	169	187	178
GREYS above Palisades	APR-SEP	230	262	284	72	306	338	394
SALT near Etna	APR-SEP	224	271	302	72	333	380	419

SNAKE RIVER BASIN Reservoir Storage (1000 AF) - End of March					SNAKE RIVER BASIN Watershed Snowpack Analysis - April 1, 2002			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GRASSY LAKE	15.2	9.8	12.9	12.3	SNAKE above Jackson Lake	9	163	83
JACKSON LAKE	847.0	165.6	641.2	486.6	PACIFIC CREEK	3	154	85
PALISADES	1400.0	577.4	773.0	941.5	GROS VENTRE RIVER	4	135	85
					HOBACK RIVER	6	132	81
					GREYS RIVER	5	132	79
					SALT RIVER	5	137	78
					SNAKE above Palisades	30	146	80

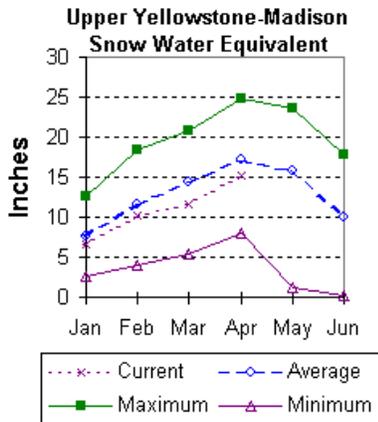
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

Upper Yellowstone and Madison River Basins (2)

Snow

Snowfall in these basins this year has been below average for this time of the year, but better than last year. Snow water equivalent (SWE) is about 89 percent of average (181 percent of last year) in the Madison drainage. SWE in the Yellowstone drainage is about 87 percent of average (165 percent of last year at this time). See the "Snow Course Basin Summary" at the beginning of this document for more details on specific sites.



of water (74 percent of capacity) – 108 percent of average. Hebgen Lake is storing about 104 percent and Ennis Lake was storing about 98 percent of last year's volume.

Streamflow

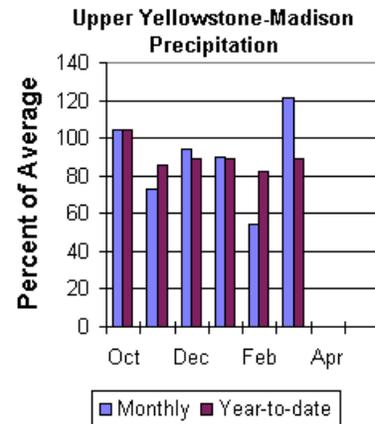
All the following forecasts are based on the 50 percent chance runoff for the April through September runoff period. Yellowstone at Lake Outlet is expected to yield about 630,000 acre feet (78 percent of normal). Yellowstone at Corwin Springs will yield about 1,500,000 acre-feet (76 percent of normal). Yellowstone near Livingston will yield about 1,730,000 acre feet (76 percent of normal). Hebgen lake inflow is estimated to be 405,000 acre feet (81 percent of normal). See the following page for detailed runoff volumes.

Precipitation

Last month's precipitation in the Madison and Yellowstone drainage was about 121 percent of average for the 7 reporting stations -- percentage range was from 65 to 143 percent of average. Water-year-to-date precipitation is about 89 percent of average (134 percent of last year's amount). Year to date percentage ranges from 75 to 95 percent

Reservoir

Current usable storage for Ennis Lake is about 29,200 acre-feet (71 percent of capacity) – 94 percent of average. Hebgen Lake is storing about 279,900 acre-feet



UPPER YELLOWSTONE & MADISON RIVER BASINS
Streamflow Forecasts - April 1, 2002

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		===== Wetter =====>>		Chance Of Exceeding *		
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
YELLOWSTONE at Lake Outlet	APR-SEP	507	580	630	78	680	753	805
YELLOWSTONE RIVER at Corwin Springs	APR-SEP	1215	1385	1500	76	1615	1785	1970
YELLOWSTONE RIVER near Livingston	APR-SEP	1486	1631	1730	76	1829	1974	2280
HEBGEN Reservoir Inflow	APR-SEP	328	374	405	81	436	482	500

UPPER YELLOWSTONE & MADISON RIVER BASINS
Reservoir Storage (1000 AF) - End of March

UPPER YELLOWSTONE & MADISON RIVER BASINS
Watershed Snowpack Analysis - April 1, 2002

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
ENNIS LAKE	41.0	29.2	29.9	31.2	MADISON RIVER in WY	9	181	89
HEBGEN LAKE	377.5	279.9	270.4	259.6	YELLOWSTONE RIVER in WY	12	165	87

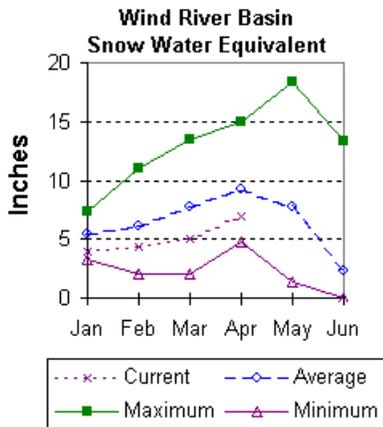
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

Wind River Basin (3)

Snow

The Wind River basin has much below average snow water equivalent (SWE) for this time of the year. SWE in the Wind River above Dubois is 86 percent of average (155 percent of last year). The Little Wind SWE is 70 percent of average water content (165 percent of last year), and the Popo Agie drainage SWE is about 66 percent of average (134 percent of last year). The Wind River basin, above Boysen Reservoir, SWE is about 75 percent of average (about 150 percent of last year). See the Basin Summary of Snow Course Data at the front of this report for details.



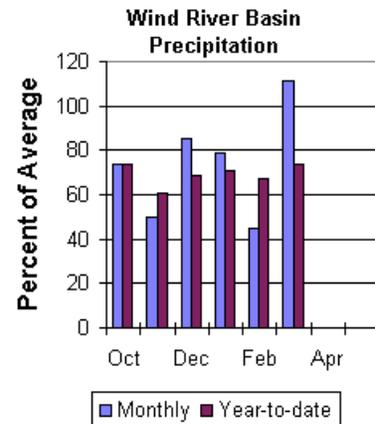
Precipitation

Last month's precipitation in the basin varied from 49 to 231 percent of average. Precipitation for the basin was about 111 percent of average for the 14 reporting stations. Water year-to-date precipitation is 74 percent of normal. The current water-year-to-date average is about 135 percent of last year at this time. Year to date figures range from 32 to 102 percent of average.

Reservoirs

Current usable storage varies from 19 to 115 percent of average. Bull Lake is currently

storing about 27,900 acre feet (18 percent of capacity) -- normally the reservoir is at 56 percent of capacity at this time of the year. Boysen Reservoir is storing about 19 percent of capacity (104,600 acre feet) -- normally the reservoir is at 93 percent of capacity at this time of the year. Pilot Butte is storing 79 percent of capacity (25,100 acre feet) -- normally the reservoir is at 69 percent of capacity at this time of the year.



Streamflow

Water supply is estimated to be much below normal this year. The following values reflect the 50 percent chance yields for the April through September runoff period. The Wind River above Bull Lake Creek is expected to yield 385,000 acre feet (72 percent of average). Wind River at Riverton will yield about 355,000 acre feet (56 percent of average). Boysen Reservoir inflow will yield about 400,000 acre feet (49 percent of normal). Bull Lake Creek near Lenore is expected to yield about 110,000 acre feet (60 percent of average). Little Popo Agie River near Lander is expected to yield about 26,000 acre feet (49 percent of average). South Fork of Little Wind near Fort Washakie will yield about 48,000 acre feet (57 percent of average). Little Wind River near Riverton will yield about 160,000 acre feet (51 percent of average).

WIND RIVER BASIN
Streamflow Forecasts - April 1, 2002

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		===== Wetter =====>>				
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
WIND RIVER abv Bull Lake Cr (2)	APR-SEP	274	340	385	72	430	496	535
WIND RIVER at Riverton (2)	APR-SEP	151	272	355	56	438	559	640
BOYSEN RESERVOIR Inflow (2)	APR-SEP	104	280	400	49	520	696	809
BULL LAKE CR near Lenore (2)	APR-SEP	58	89	110	60	131	162	182
LT POPO AGIE RIVER nr Lander	APR-SEP	8.8	19.0	26	49	33	43	53
SF LT WIND nr Fort Washakie	APR-SEP	22	37	48	57	59	74	84
LT WIND RIVER nr Riverton	APR-SEP	84	129	160	51	220	308	315

WIND RIVER BASIN Reservoir Storage (1000 AF) - End of March					WIND RIVER BASIN Watershed Snowpack Analysis - April 1, 2002			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BULL LAKE	151.8	27.9	62.2	85.3	WIND RIVER above Dubios	7	155	86
BOYSEN	596.0	104.6	447.2	552.8	LITTLE WIND	2	165	70
PILOT BUTTE	31.6	25.1	23.3	21.9	POPO AGIE	7	134	66
					WIND above Boysen Resv	14	150	75

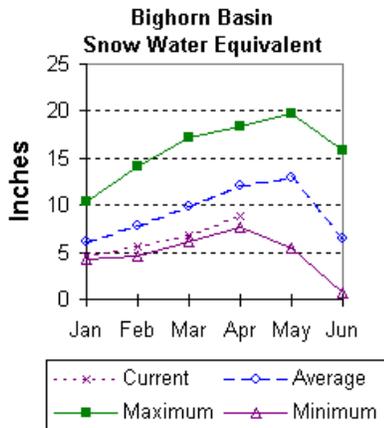
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- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Bighorn River Basin (4)

Snow

Snowpack in this basin is well below average for this time of year. The Nowood drainage SWE is 64 percent of average (103 percent of last year). Greybull River SWE is 76 percent of average (153 percent of last year). Shell Creek SWE is 80 percent of average (118 percent of last year). The basin SWE, as a whole, is currently 73 percent of average (116 percent of last year). For more information see Basin Summary of Snow Courses at beginning of report.



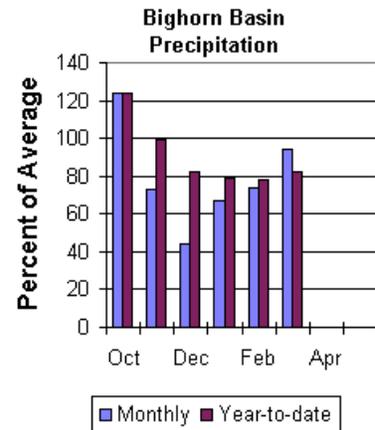
Precipitation

March precipitation was 94 percent of the monthly average (140 percent of last year). Sites ranged from 43 to 234 percent of average for the month. Year-to-date precipitation is 82 percent of normal; that is 122 percent of last year at this time. Year to date percentages, from the 17 reporting stations, range from 60 to 110.

Reservoir

Boysen Reservoir is currently storing 104,600-acre feet (19 percent of average). Bighorn

Lake is now at 82 percent of average (662,000-acre feet). Boysen is currently storing 23 percent of last year at this time and Big Horn Lake is storing 77 percent of last year's volume.



Streamflow

The 50 percent chance April through September runoff is anticipated to be below normal. The Boysen Reservoir inflow is forecast to yield 400,000 acre feet (49 percent of average); the Greybull River nr Meeteese should yield 84,000 acre feet (42 percent of average); Shell Creek near Shell should yield 57,000 acre feet (79 percent of average) and the Bighorn River at Kane should yield 580,000 acre feet (52 percent of average).

BIGHORN RIVER BASIN
Streamflow Forecasts - April 1, 2002

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		===== Wetter =====>>		Chance Of Exceeding *		
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
BOYSEN RESERVOIR Inflow (2)	APR-SEP	104	280	400	49	520	696	809
GREYBULL RIVER nr Meeteetse	APR-SEP	43	68	84	42	100	125	200
SHELL CREEK nr Shell	APR-SEP	46	53	57	79	61	68	72
BIGHORN RIVER at Kane (2)	APR-SEP	162	411	580	52	749	998	1110

BIGHORN RIVER BASIN Reservoir Storage (1000 AF) - End of March					BIGHORN RIVER BASIN Watershed Snowpack Analysis - April 1, 2002			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BOYSEN	596.0	104.6	447.2	552.8	NOWOOD RIVER	5	103	64
BIGHORN LAKE	1356.0	662.0	854.3	809.9	GREYBULL RIVER	2	153	76
					SHELL CREEK	4	118	80
					BIGHORN (Boysen-Bighorn)	11	116	73

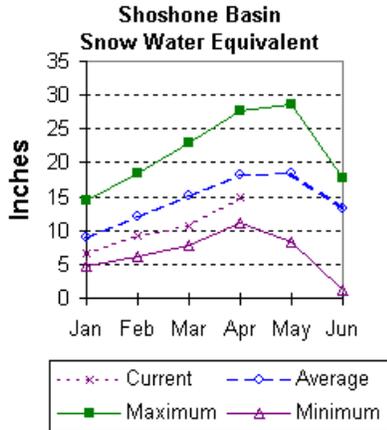
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(2) - The value is natural volume - actual volume may be affected by upstream water management.

Shoshone and Clarks Fork River Basin (5)

Snow

Snow Water Equivalent (SWE) is 81 percent of average (148 percent of last year) in the Shoshone River basin. The Clarks Fork River basin SWE is 84 percent of average (160 percent of last year). For more information see the Basin Summary of Snow Course Data at the beginning of this report.



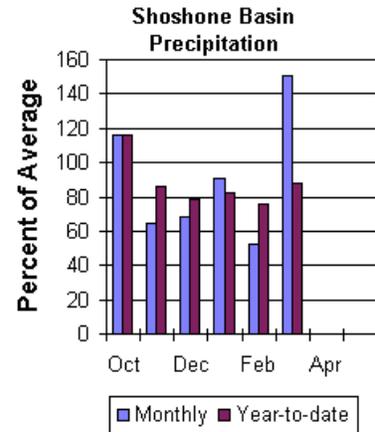
Precipitation

Precipitation for the month was 151 percent of normal. Monthly percentages range from 50 to 222 percent of average. The basin year-to-date precipitation is now 88 percent of average (133 percent of last year). Year-to-date percentages range from 62 to 98 percent of average.

Reservoir

Current storage in Buffalo Bill Reservoir is 63 percent of average (69 percent of last year's storage) – the reservoir is about 38 percent of capacity. Currently, about 245,700 acre-

feet are stored in the reservoir compared to 358,400 acre feet last year. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



Streamflow

The fifty percent yield (April through September period) for North Fork Shoshone River at Wapiti is expected to be 395,000 acre-feet (76 percent of average). South Fork of the Shoshone River near Valley is estimated to yield of 165,000 acre-feet (62 percent of average), and South Fork above Buffalo Bill Reservoir is expected to be 130,000 acre-feet (58 percent of average). At the Buffalo Bill Reservoir, the fifty percent chance yield for the Shoshone River is expected to be about 565,000 acre-feet (70 percent of average). The fifty-percent chance yield for the Clarks Fork of the Yellowstone near Belfry, Montana is expected to be about 400,000 acre-feet (67 percent of average).

SHOSHONE & CLARKS FORK RIVER BASINS
Streamflow Forecasts - April 1, 2002

Forecast Point	Forecast Period	<<===== Drier =====		Future Conditions		===== Wetter =====>>		30-Yr Avg. (1000AF)
		90%	70%	Chance Of Exceeding *		30%	10%	
		(1000AF)	(1000AF)	50% (Most Probable)	(% AVG.)	(1000AF)	(1000AF)	
NF SHOSHONE RIVER at Wapiti	APR-SEP	328	368	395	76	422	462	520
SF SHOSHONE RIVER nr Valley	APR-SEP	119	146	165	62	184	211	265
SF SHOSHONE RIVER abv Buffalo Bill	APR-SEP	53	99	130	58	161	207	225
BUFFALO BILL DAM Inflow (2)	APR-SEP	413	503	565	70	627	717	805
CLARKS FORK RIVER nr Belfry	APR-SEP	311	364	400	67	436	489	595

SHOSHONE & CLARKS FORK RIVER BASINS Reservoir Storage (1000 AF) - End of March				SHOSHONE & CLARKS FORK RIVER BASINS Watershed Snowpack Analysis - April 1, 2002				
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BUFFALO BILL	646.6	245.7	358.4	390.9	SHOSHONE RIVER	7	148	81
					CLARKS FORK in WY		7	160

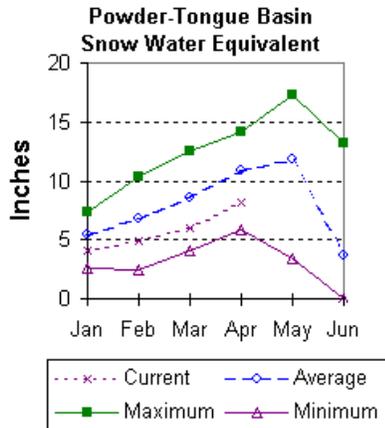
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Powder and Tongue River Basins (6)

Snow

Snow water equivalent (SWE) in the Upper Tongue River drainage is 76 percent of normal (115 percent of last year). The Goose Creek drainage is 70 percent of average (109 percent of last year). Clear Creek drainage is 78 percent of normal SWE (121 percent of last year). Crazy Woman Creek is 67 percent of average (120 percent of last year). The Upper Powder River drainage is 73 percent of average (105 percent of last year). The Powder River basin snow water equivalent (SWE), in Wyoming, is about 75 percent of average (112 percent of last year). For more information see Basin Summary of Snow Courses at beginning of report.



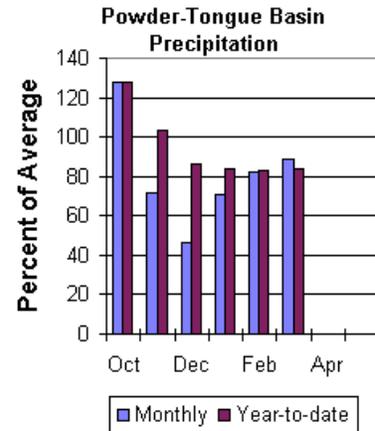
Precipitation

Monthly precipitation was 89 percent of average for the 14 reporting stations. Monthly percentages range from 49 to 206 percent of average. Precipitation for the year ranges from 57 to 104 percent of average at the reporting stations. Year-to-date precipitation is about 84 percent of average in the basin; this is 122 percent of last year at this time.

Reservoir

Tongue River Reservoir is currently at 90 percent of average storage for this time of year (27,000 acre feet) – the

reservoir is about 34 percent of capacity (total capacity is 79,100 acre feet). Last year at this time the reservoir was storing about 40,900 acre feet – average storage is about 30,100 acre feet for this time of the year. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



Streamflow

The following runoff values are for the 50 percent probability during the April through September forecast period. The estimated yield for Tongue River near Dayton is 77,000-acre feet (71 percent of normal). Middle Fork of the Powder River near Barnum is estimated to yield 9,100-acre feet (49 percent of average). The North Fork of the Powder near Hazelton should yield about 7,000 acre-feet (67 percent of normal). The estimated yield for Clear Creek near Buffalo is 21,000 acre-feet (54 percent of average). Rock Creek near Buffalo will yield about 13,500 acre-feet (56 percent of normal), and Piney Creek at Kearny should yield about 31,500 acre-feet (61 percent of average).

POWDER & TONGUE RIVER BASINS
Streamflow Forecasts - April 1, 2002

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		===== Wetter =====>>		Chance Of Exceeding *		
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
TONGUE RIVER nr Dayton (2)	APR-SEP	49	66	77	71	88	105	109
MIDDLE FORK POWDER nr Barnum	APR-SEP	5.6	7.7	9.1	49	12.0	16.2	18.7
NORTH FORK POWDER nr Hazelton	APR-SEP	4.4	5.9	7.0	67	8.1	9.6	10.4
CLEAR CREEK nr Buffalo	APR-SEP	12.3	17.5	21	54	25	30	39
ROCK CREEK nr Buffalo	APR-SEP	6.7	10.7	13.5	56	16.3	20	24
PINEY CREEK at Kearny	APR-SEP	15.8	25	32	61	42	57	52

POWDER & TONGUE RIVER BASINS Reservoir Storage (1000 AF) - End of March					POWDER & TONGUE RIVER BASINS Watershed Snowpack Analysis - April 1, 2002			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
TONGUE RIVER	79.1	27.0	40.9	30.1	UPPER TONGUE RIVER	10	115	76
					GOOSE CREEK	3	109	70
					CLEAR CREEK	4	121	78
					CRAZY WOMAN CREEK	3	120	67
					UPPER POWDER RIVER	4	105	73
					POWDER RIVER in WY	8	112	75

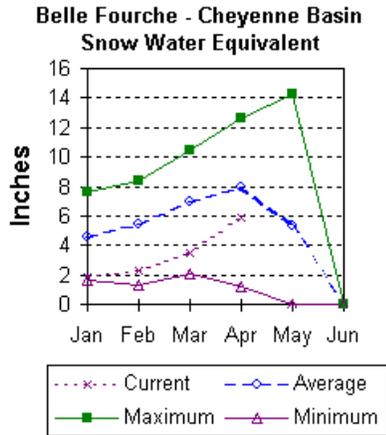
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

Belle Fourche and Cheyenne River Basins (7)

Snow.

The Belle Fourche River Basin snow water equivalent (SWE) is much below average.. SWE is currently 65 percent of average snow pack; 81 percent of last years amount at this time. See Basin summary of Snow Course Data at the beginning of this report for a detailed listing.



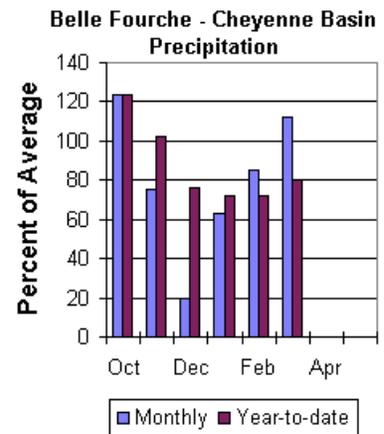
Precipitation.

Precipitation, for the month of March was 112 percent of average in the Black Hills. Monthly percentages range from 67 to 261 percent. Year-to-date precipitation is 80 percent of average and 75 percent of last year's amount.

Reservoir.

Usable reservoir storage is generally above average in the basin. Angostura is currently storing 96 percent of average

(105,700-acre feet), about 87 percent of capacity. Belle Fourche reservoir is storing 119 percent of average (156,400-acre feet), about 88 percent of capacity. Deerfield reservoir is storing 110 percent of average (14,900-acre feet), about 98 percent of capacity. Keyhole reservoir is storing 137 percent of average (155,900-acre feet), 80 percent of capacity. Pactola reservoir is storing 113 percent of average (53,000-acre feet), 96 percent of capacity. Shadehill reservoir is storing 79 percent of average (49,900-acre feet), 61 percent of capacity.



Streamflow

Water supply is estimated to be below normal this year. The following values reflect the 50 percent chance yields for the April through July runoff period. Deerfield Reservoir inflow is forecast at 2,870 acre feet (68 percent of average). Pactola is forecast at 8,800 acre feet (47 percent of average).

BELLE FOURCHE & CHEYENNE RIVER BASINS
Streamflow Forecasts - April 1, 2002

Forecast Point	Forecast Period	Future Conditions				Wetter		30-Yr Avg. (1000AF)
		Drier		50% (Most Probable)		30%	10%	
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	(1000AF)	(1000AF)	
DEERFIELD RESERVOIR Inflow	APR-JUL	0.92	1.71	2.87	68	4.03	5.74	4.20
PACTOLA RESERVOIR Inflow	APR-JUL	1.6	5.9	8.8	47	15.0	24	18.9

BELLE FOURCHE & CHEYENNE RIVER BASINS
Reservoir Storage (1000 AF) - End of March

BELLE FOURCHE & CHEYENNE RIVER BASINS
Watershed Snowpack Analysis - April 1, 2002

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
ANGOSTURA	122.1	105.7	108.6	110.1	BELLE FOURCHE	7	52	75
BELLE FOURCHE	178.4	156.4	176.5	130.9				
DEERFIELD	15.2	14.9	15.1	13.5				
KEYHOLE	193.8	155.9	167.7	113.5				
PACTOLA	55.0	53.0	54.3	46.8				
SHADEHILL	81.4	49.9	82.7	63.1				

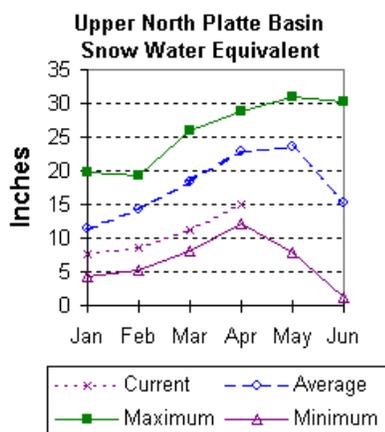
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- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Upper North Platte River Basin (8)

Snow

The snow courses above Seminoe Reservoir have about 66 percent of average snow water equivalent (SWE) recorded for this time of the year (85 percent of last year). SWE in the drainage area above Northgate is about 65 percent of average and 81 percent of last year at this time. SWE in the Encampment River drainage is about 66 percent of normal and 92 percent of last year. Brush Creek SWE for the year is about 66 percent of normal and 81 percent of last year's SWE. Medicine Bow and Rock Creek drainage SWE is about 59 percent of average and 83 percent of last year at this time. For more information see Basin Summary of Snow Courses at the beginning of this report.



Precipitation

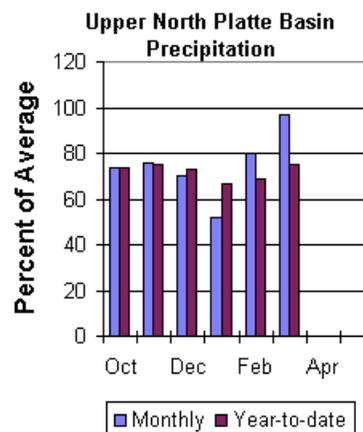
Eleven reporting stations indicate last month's precipitation was 97 percent of average and about 140 percent of last year's amount. Precipitation varied from 75 to 306 percent of average. Total water-year-to-date precipitation is about 75 percent of average for the basin, which is about 99 percent of last year's amount. Year to date percentage ranges from 54 to 127 percent of average for the 9 reporting stations.

Reservoirs

Current usable storage in Seminoe Reservoir is about 79 percent of normal, and about 60 percent of last year's amount. Seminoe Reservoir is estimated to be storing 389,800 acre-feet (38 percent of capacity). Last year, at this time, the reservoir had 646,200 acre-feet in storage.

Streamflow

All the following yields are based on the fifty percent chance April through September yield. Yield for the North Platte River near Northgate is expected to be about 121,000 acre-feet (45 percent of average). Encampment River near Encampment is estimated to yield 90,000 acre-feet (55 percent of normal). Rock Creek near Arlington is estimated to yield 33,000 acre-feet (58 percent of average). Seminoe Reservoir inflow should be about (375,000 acre-feet (44 percent of normal)). See the following table for more detailed information on projected runoff.



UPPER NORTH PLATTE RIVER BASIN
Streamflow Forecasts - April 1, 2002

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		===== Wetter =====>>				
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	Chance Of Exceeding * (% AVG.)	30% (1000AF)	10% (1000AF)	
North Platte River nr Northgate	APR-SEP	23	81	121	45	161	219	270
Encampment River nr Encampment	APR-SEP	52	75	90	55	105	128	165
Rock Creek nr Arlington	APR-SEP	23	29	33	58	38	45	57
Seminoe Reservoir inflow	APR-JUL	234	300	345	43	449	603	800
	APR-SEP	264	330	375	44	477	627	860

UPPER NORTH PLATTE RIVER BASIN Reservoir Storage (1000 AF) - End of March					UPPER NORTH PLATTE RIVER BASIN Watershed Snowpack Analysis - April 1, 2002			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
SEMINOE	1016.7	389.8	646.2	495.9	N PLATTE above Northgate	7	81	65
					ENCAMPMENT RIVER	4	92	66
					BRUSH CREEK	5	81	66
					MEDICINE BOW & ROCK CREEK	3	83	59
					N PLATTE above Seminoe	19	85	66

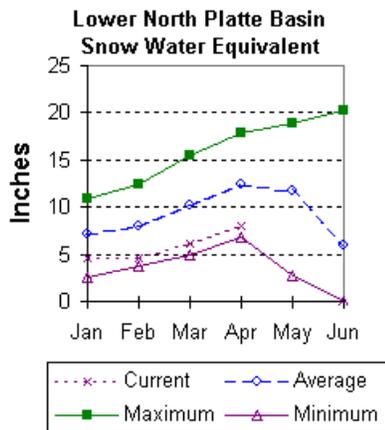
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Lower North Platte River Basin (9)

Snow

SWE for the North Platte River basin in Wyoming averages 64 percent of normal (85 % of last year). The Sweetwater drainage SWE is currently 66 percent of average (130 percent of last year). Deer and LaPrele Creek SWE is 62 percent of average (71 percent of last year). SWE for the North Platte above the Laramie River drainage is 62 percent of average (78 % of last year). SWE for the Laramie River above the mouth is 65 percent of average (87 % of last year). SWE for the Laramie River above Laramie is 62 percent of average (79 % of last year). SWE for the Little Laramie River is 58 percent of average (81 percent of last year). For more information see Basin Summary of Snow Courses at beginning of report.



Alcova 156,400 acre feet (98 percent of average); Glendo 316,400 acre feet (74 percent of average); Guernsey 17,600 acre feet (85 percent of average); Pathfinder 548,400 acre feet (74 percent of average); Seminoe 389,800 acre feet (79 percent of average). Wheatland No.2 19,000 acre feet (35 percent of average). Water allocated to project use is near average with North Platte Project users at 54 percent of average, Kendrick Project users at 102 percent of average, and Glendo Project users at 107 percent of average.

Streamflow

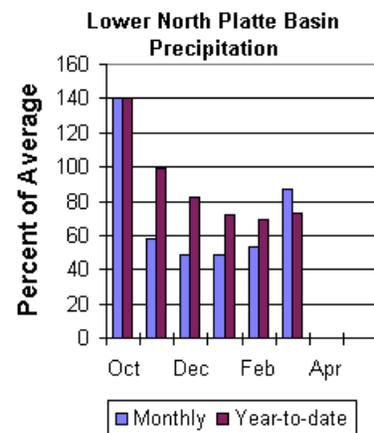
Yields from 18 to 45 percent are expected in the basin during the forecast period. The following yields are based on the fifty percent chance probability runoff for the April through September forecast period. The Sweetwater near Alcova is forecast to yield about 31,000 acre-feet (39 percent of average). Deer Creek at Glenrock is expected to yield about 24 percent of average (10,000 acre-feet). LaPrele Creek above the reservoir is estimated to yield 18 percent of average (4,400 acre-feet). North Platte River below Guernsey Reservoir is expected to yield about 33 percent of normal (328,000 acre-feet), and below Glendo Reservoir is anticipated to yield about 32 percent of average (321,000 acre-feet). Laramie River near Woods should yield about 43 percent of average (58,000 acre-feet). The Little Laramie near Filmore should produce about 29,000 acre-feet (45 percent of average).

Precipitation

Of the 16 reporting stations, percentages for the month range from 25 to 201. March precipitation for the basin was 87 percent of average (200 percent of last year). The water year-to-date precipitation for the basin is currently 73 percent of average (104 percent of last year). Year to date percentages range from 46 to 106.

Reservoir

The Lower North Platte River basin reservoir storage is well below to well above average. Reservoir storage is as follows:



LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS
Streamflow Forecasts - April 1, 2002

Forecast Point	Forecast Period	Future Conditions				Wetter		30-Yr Avg. (1000AF)
		Drier		Future Conditions		Wetter		
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
Sweetwater River nr Alcova	APR-JUL	11.8	21	28	38	44	68	74
	APR-SEP	15.1	25	31	39	48	72	80
Deer Creek at Glenrock	APR-SEP	2.7	6.5	10.0	24	14.2	22	41
La Prele Creek ab La Prele Reservoir	APR-SEP	0.3	2.0	4.4	18	8.2	17.1	24
Alcova to Orin Gain	APR-JUL	9.0	18.0	25	16	57	103	152
	APR-SEP	15.0	23	29	18	61	108	161
North Platte River blw Glendo Reserv	APR-JUL	225	277	312	33	419	575	960
	APR-SEP	232	285	321	32	433	599	990
North Platte River blw Guernsey Resv	APR-JUL	208	272	316	33	449	644	970
	APR-SEP	216	283	328	33	466	668	1010
Laramie River nr Woods	APR-SEP	31	47	58	43	84	121	135
Little Laramie River nr Filmore	APR-SEP	11.9	22	29	45	36	46	64

LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS
Reservoir Storage (1000 AF) - End of March

LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS
Watershed Snowpack Analysis - April 1, 2002

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
ALCOVA	184.3	156.4	156.4	160.1	SWEETWATER	4	130	66
GLENDO	506.4	316.4	395.9	427.8	DEER & LAPRELE CREEKS	3	71	62
GUERNSEY	45.6	17.6	18.6	20.6	N PLATTE abv Laramie R.	26	87	65
PATHFINDER	1016.5	548.4	770.9	743.7	LARAMIE RIVER abv Laramie	9	79	62
SEMINOE	1016.7	389.8	646.2	495.9	LITTLE LARAMIE RIVER	4	81	58
WHEATLAND #2	98.9	19.0	45.0	54.3	LARAMIE RIVER above mouth	12	79	61
NORTH PLATTE PROJ	1062.1	363.3	695.2	676.0	NORTH PLATTE	33	85	64
KENDRICK PROJECT	1201.7	825.7	968.4	812.7				
GLENDO PROJECT USERS	183.2	135.7	152.1	127.2				

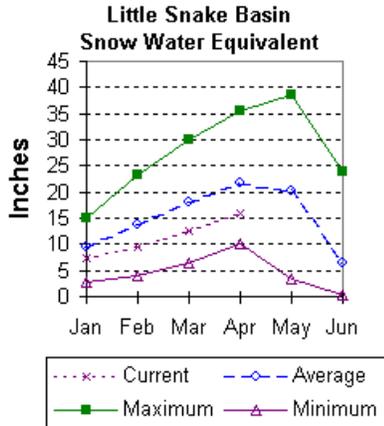
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Little Snake River Basin (10)

Snow

Snowfall has been below average across the basin this year. Currently, snow water equivalent (SWE) in the Little Snake River drainage is 73 percent of average (94 percent of last year at this time). For more information see Basin Summary of Snow Courses at beginning of this report.

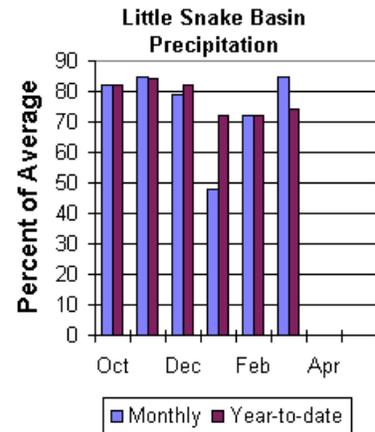


Precipitation

Precipitation across the basin was below average this past month. March precipitation was 85 percent of average (127 percent of last year) for the 5 reporting stations. Monthly precipitation ranged from 69 to 132 percent of average. The Little Snake River basin water-year-to-date precipitation is currently 74 percent of average (98 percent of last year). Year-to-date percentages range from 69 to 82 percent of average.

Streamflow

Runoff yield in the Little Snake River drainage is expected to be below normal this year. Stream yield is based on the 50 percent probability for the April through July forecast period. The Little Snake River near Slater should yield about 78,000 acre-feet (49 percent of normal). Little Snake River near Dixon is estimated to yield 150,000 acre-feet (46 percent of normal).



LITTLE SNAKE RIVER BASIN
Streamflow Forecasts - April 1, 2002

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		===== Wetter =====>>				
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	30% (1000AF)	10% (1000AF)	Chance Of Exceeding * (% AVG.)	
Little Snake River nr Slater	APR-JUL	47	64	78	49	93	117	159
LITTLE SNAKE R nr Dixon	APR-JUL	40	106	150	46	194	260	330

LITTLE SNAKE RIVER BASIN Reservoir Storage (1000 AF) - End of March				LITTLE SNAKE RIVER BASIN Watershed Snowpack Analysis - April 1, 2002				
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					LITTLE SNAKE RIVER	8	94	73

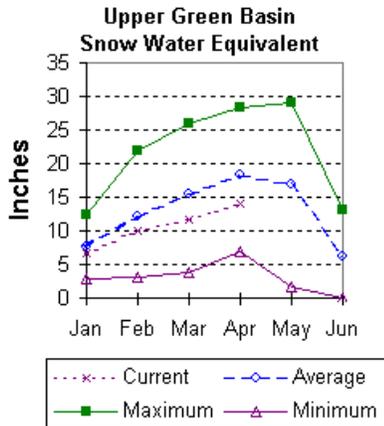
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Upper Green River Basin (11)

Snow

The Upper Green River Basin snow water equivalent (SWE), above Fontenelle Reservoir, is 77 percent of average (124 percent of last year). The Green River basin SWE above Warren Bridge is 83 percent of normal (133 percent of last year). SWE on the west side of the Upper Green River basin is about 76 percent of normal, 128 percent of this time last year. Newfork River SWE is now 76 percent of normal (100 percent of last year). Big Sandy-Eden Valley SWE is about 77 percent of average (138 percent of last year). For more information see the Basin Summary of Snow Courses at the beginning of this report.



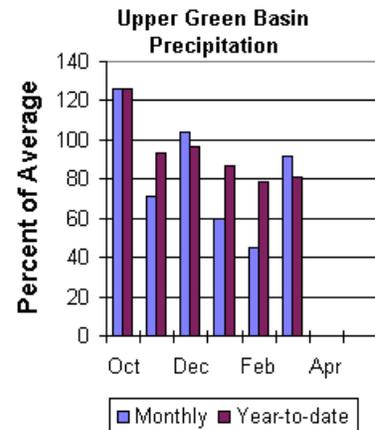
Precipitation

The 11 reporting precipitation sites in the basin were 92 percent of average (155 percent of last month's average). Precipitation varied from 51 to 140 percent of average. Water year-to-date precipitation is about 81 percent of average (121 percent of last year). Year to date percentage of average ranges from 72 to 91 percent for the reporting stations.

Reservoir

Current usable storage in Big Sandy Reservoir is about 5,100 acre feet (25 percent of average) -- 66 percent of last

year and 13 percent of capacity. Current usable storage in Eden Reservoir is about 500 acre feet (12 percent of average) -- 4 percent of capacity. Fontenelle Reservoir is storing 135,400 acre-feet (95 percent of average and 39 percent of the total capacity). Flaming Gorge Reservoir is currently storing 2,828,500 acre feet (97 percent of average) -- 94 percent of last year and 75 percent of capacity. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



Streamflow

The following forecast is based on the fifty-percent chance April through July runoff in the Upper Green River basin. Runoff is forecast to be below average. Green River at Warren Bridge is expected to yield about 220,000 acre-feet (83 percent of normal). Pine Creek above Fremont Lake is expected to yield 85,000 acre-feet (82 percent of normal). New Fork River near Big Piney is expected to yield about 265,000 acre-feet (67 percent of normal). Fontenelle Reservoir Inflow is estimated to be 560,000 acre-feet (65 percent of average), and Big Sandy near Farson is expected to be about 41,000 acre-feet (71 percent of normal).

UPPER GREEN RIVER BASIN
Streamflow Forecasts - April 1, 2002

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		===== Wetter =====>>				
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	30% (1000AF)	10% (1000AF)	Chance Of Exceeding * (% AVG.)	
Green River at Warren Bridge	APR-JUL	177	203	220	83	237	263	265
Pine Creek abv Fremont Lake	APR-JUL	70	79	85	82	91	100	104
New Fork River nr Big Piney	APR-JUL	159	222	265	67	308	371	395
Fontenelle Reservoir Inflow	APR-JUL	430	505	560	65	617	707	860
Big Sandy River nr Farson	APR-JUL	24	34	41	71	48	58	58

Reservoir	UPPER GREEN RIVER BASIN Reservoir Storage (1000 AF) - End of March				UPPER GREEN RIVER BASIN Watershed Snowpack Analysis - April 1, 2002			
	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BIG SANDY	38.3	5.1	7.7	20.7	GREEN above Warren Bridge	4	133	83
EDEN	11.8	0.5	---	4.2	UPPER GREEN (West Side)	7	128	76
FLAMING GORGE	3749.0	2828.5	3025.0	2920.0	NEW FORK RIVER	3	100	76
FONTENELLE	344.8	135.4	110.3	143.0	BIG SANDY/EDEN VALLEY	2	138	77
					GREEN above Fontenelle	14	124	77

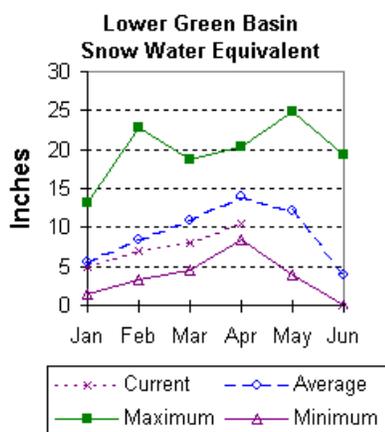
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Lower Green River Basin (12)

Snow

The Blacks Fork and Henrys Fork drainage's are below average. SWE in the Hams Fork is currently 76 percent of average (125% of last year). Blacks Fork SWE is currently 74 percent of average (113 percent of last year). The Henry's Fork is now at 69 percent of average (87 percent of last year). The basin, as a whole, is 76 percent of average (120 percent of last year). For more information see Basin Summary of Snow Courses at beginning of this report.



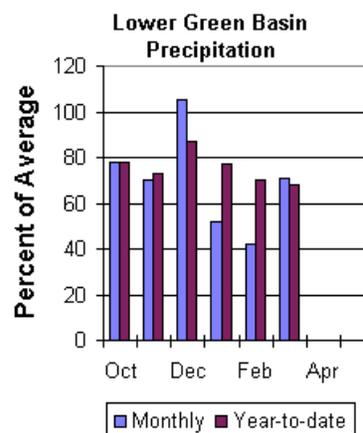
Precipitation

Precipitation was below average for the month (71 percent) for the 4 reporting stations. Precipitation ranged from 52 to 110 percent of average for the month. The basin year-to-date precipitation is currently 68 percent of average (113 percent of last year). Year to date percentages range from 39 to 81.

Reservoir

Fontenelle Reservoir is currently storing 135,400 acre feet; this is 95 percent of

average (123 percent of last year). Flaming Gorge is currently storing 2,828,500 acre feet, this is 97 percent of average (94 percent of last year). Viva Naughton is currently storing 26,800 acre feet; this is 96 percent of average.



Streamflow

Expected yields vary from 56 to 62 percent of average across the basin.

The following forecast values are based on a 50 percent chance probability for the April through July forecast period. Green River near Green River is forecast to yield about 550,000-acre feet (63 percent of average). Blacks Fork near Robertson is forecast to yield 56,000-acre feet (59 percent of average). East Fork of Smiths Fork near Robertson is estimated to yield 17,200 acre-feet (56 percent of average). The estimated yield for Hams Fork near Frontier is 40,000-acre feet (62 percent of average). Viva Naughton Reservoir inflow will be about 50,000-acre feet (56 percent of average). Flaming Gorge Reservoir inflow will be about 720,000-acre feet (61 percent of average).

LOWER GREEN RIVER BASIN
Streamflow Forecasts - April 1, 2002

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		===== Wetter =====>>				
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	Chance Of Exceeding * (% AVG.)	30% (1000AF)	10% (1000AF)	
Green River nr Green River, WY	APR-JUL	334	463	550	63	637	766	875
Blacks Fork nr Robertson	APR-JUL	41	50	56	59	65	79	95
EF of Smiths Fork nr Robertson	APR-JUL	13.6	15.7	17.2	56	18.9	22	31
Hams Fk blw Pole Ck nr Frontier	APR-JUL	26	34	40	62	46	57	65
Hams Fk Inflow to Viva Naughton Res	APR-JUL	24	39	50	56	61	76	89
Flaming Gorge Reservoir Inflow	APR-JUL	419	598	720	61	842	1021	1190

LOWER GREEN RIVER BASIN Reservoir Storage (1000 AF) - End of March					LOWER GREEN RIVER BASIN Watershed Snowpack Analysis - April 1, 2002			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
FONTENELLE	344.8	135.4	110.3	143.0	HAMS FORK RIVER	4	125	76
FLAMING GORGE	3749.0	2828.5	3025.0	2920.0	BLACKS FORK	5	113	74
VIVA NAUGHTON RES	42.4	26.8	32.2	27.8	HENRYS FORK	3	87	69
					GREEN above Flaming Gorge	26	120	76

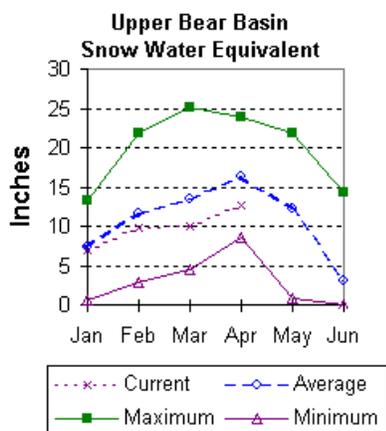
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

Upper Bear River Basin (13)

Snow

Snow water equivalent (SWE), at snow courses in the Bear River above the Idaho State line, is 77 percent of average (134 percent of last year). SWE for the Bear River in Utah is estimated to be 82 percent of average; that is about 136 percent of last year at this time. SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is estimated at 75 percent of average (127 percent of last year at this time.). See the Basin Summary of Snow Course Data at the beginning of this report for more detailed information.



at this time of the year. Current storage is 28 percent of average.

Streamflow

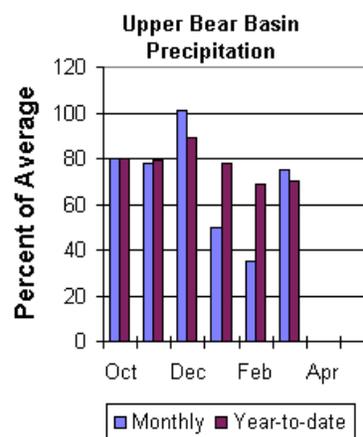
The following is based on the 50 percent chance stream flow yields are for the April through September period. Smiths Fork near Border is estimated to yield 62,000 acre-feet (53 percent of normal). Bear River above the Utah-Wyoming State Line is expected to yield about 77,000 acre feet (62 percent of average), The Bear River near Woodruff is expected to yield about 93,000 acre-feet (about 60 percent of normal).

Precipitation

Precipitation for last month was 75 percent of average for the 2 reporting stations, 141 percent of last year's amount. The year-to-date precipitation, for the basin, is 68 percent of average; this is 113 percent of last year's amount.

Reservoir

Woodruff Narrows reservoir is currently storing 9,300 acre feet (16 percent of capacity). Normally, the reservoir is storing 57 percent of capacity



UPPER BEAR RIVER BASIN
Streamflow Forecasts - April 1, 2002

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		===== Wetter =====>>				
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (Most Probable) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
SMITHS FK nr Border, WY	APR-SEP	46	55	62	53	70	83	118
Bear R nr UT-WY State Line	APR-SEP	60	70	77	62	85	98	125
BEAR R nr Woodruff, UT	APR-SEP	55	75	93	60	115	156	154

UPPER BEAR RIVER BASIN Reservoir Storage (1000 AF) - End of March					UPPER BEAR RIVER BASIN Watershed Snowpack Analysis - April 1, 2002			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
WOODRUFF NARROWS	57.3	9.3	---	32.7	UPPER BEAR RIVER in Utah	7	136	82
					SMITHS & THOMAS FORKS	4	127	75
					BEAR RIVER abv ID line	9	134	77
					NORTHWEST	78	150	80
					NORTHEAST	23	97	76
					SOUTHEAST	35	86	66
					SOUTHWEST	35	115	76

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Issued by

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The Surface Water Supply Index (SWSI) is computed using only surface water supplies for a drainage. The computation includes reservoir storage, if applicable, plus the forecast runoff. The index is purposely created to resemble the Palmer Drought Index, with normal conditions centered near zero. Adequate and excessive supply has a positive number and deficit water supply has a negative value. Soil moisture and forecast precipitation are not considered as such, but the forecast runoff may consider these values

