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Service

# Wyoming

# Basin Outlook Report

# March 1, 2008



# Basin 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 is. 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, the snow water equivalent (SWE) across Wyoming is slightly below average for this time of the year at 99% of average for early March. Precipitation for last month in the basins varied from 92% of average to 162% of average for the State. Year-to-date precipitation is above average for the year and varies from 82-124% of average in the basins. Forecasted runoff varies from 65-178% of average across Wyoming for an overall average of 98%. Basin reservoir levels for Wyoming vary from 30-208% of average for an overall average of 80%.

## Snowpack

Snow water equivalent (SWE), across Wyoming is slightly below average for this time of year at 99%. SWE in the NW portion of Wyoming is now about 99% of average (127% of last year). NE Wyoming SWE is currently about 99% of average (115% of last year). The SE portion of Wyoming SWE is currently about 107% of average (127% of last year). The SW portion of Wyoming SWE is about 101% of average (132% of last year).

## Precipitation

Last month's precipitation was above average across most of Wyoming. The Bighorn River Basin had the lowest precipitation for the month at 92% of average. The Belle Fourche and Cheyenne Basins had the highest precipitation amount at 162% of average. The following table displays the major river basins and their departure from average for this month.

Basin	Departure from average	Basin	Departure from average
Snake River	-03%	Upper North Platte River	+29%
Yellowstone & Madison	-04%	Lower North Platte	+02%
Wind River	-01%	Little Snake River	+36%
Big Horn	-08%	Upper Green River	+03%
Shoshone & Clarks Fork	+11%	Lower Green River	+05%
Powder & Tongue River	-02%	Upper Bear River	+09%
Belle Fourche & Cheyenne	+62%		

## Streams

Stream flow yield is expected to be below average across Wyoming. Most probable yield for the entire State of Wyoming is forecast to be 98% (varying from 65-124% of average). The Snake River and Upper Yellowstone & Madison River Basins are expected to yield about 97 and 112% of average, respectively -- 93-111% of average for the various forecast points in the basins. Yields from the Wind and Bighorn River Basins are expected to be about 77 and 80% of average, respectively -- varying from 77-109% of average in the basins. Yields from the Shoshone and Clarks Fork River Basins of Wyoming are expected to yield about 112% of average -- varying from 108-114% of average. Yields from the Powder & Tongue River Basins are expected to be about 94% of average -- varying from 91-106% of average. Yields for the Belle Fourche & Cheyenne River Basins are expected to be about 110% of average. Yields for the Upper and Lower North Platte River of Wyoming are expected to be about 120 and 117% of average, respectively -- varying from 65-178% of average. Yields for the

Little Snake, Green River, and Little Bear of Wyoming are expected to be 124, 71 and 94% of average respectively -- yield estimates vary from 67-124% of average.

## Reservoirs

Reservoir storage varies across the state however reservoir storage is at 80% of average for the entire state. Reservoirs on the North Platte River are well below average at 48% of average. Most of the reservoirs in the northeast are below average in storage at 59. Reservoirs in the Wind River Basin are below average at 70%. Reservoirs on the Big Horn are below average at 88%. The Buffalo Bill Reservoir on the Shoshone is above average at 111%. Reservoirs on the Green River are above average at 102%. See following table for further information about reservoir storage.

### Major Reservoirs in Wyoming

BASIN AREA RESERVOIR	CURRENT AS %CAPACITY	LAST YR AS %CAPACITY	AVERAGE AS %CAPACITY	CURRENT AS %AVERAGE	CURRENT AS %LAST YR
ALCOVA	85	85	84	101	100
ANGOSTURA	38	35	83	45	108
BELLE FOURCHE	53	44	63	83	120
BIG SANDY	29	37	50	58	78
BIGHORN LAKE	62	57	61	101	109
BOYSEN	66	70	96	68	93
BUFFALO BILL	70	69	63	111	102
BULL LAKE	37	38	56	67	98
DEERFIELD	77	76	87	89	102
EDEN			NO REPORT		
ENNIS LAKE	72	69	77	94	105
FLAMING GORGE	81	83	78	103	97
FONTENELLE	32	37	45	71	88
GLENDO	55	59	75	74	94
GRASSY LAKE	88	82	79	112	108
GUERNSEY	33	32	31	105	102
HEBGEN LAKE	74	75	70	105	99
JACKSON LAKE	40	75	58	68	53
KEYHOLE	30	28	55	56	108
PACTOLA	49	56	84	59	87
PALISADES	41	75	74	55	54
PATHFINDER	21	24	70	30	87
PILOT BUTTE	78	59	63	125	133
SEMINOE	18	26	52	35	70
SHADEHILL	22	35	61	35	63
TONGUE RIVER	65	65	31	208	99
VIVA NAUGHTON RES	66	77	69	97	86
WHEATLAND #2	32	25	48	66	128
WOODRUFF NARROWS	45	84	48	94	54
TOTAL 28 RESERVOIRS	55	63	69	80	88
Raw KAF Totals Current=7371 Last Year=8356 Average=9189 Capacity=13288					

# BASIN SUMMARY OF SNOW COURSE DATA

MARCH 2008

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
-----						
WYOMING Snow Course and SNOTEL Stations						
ALBANY	9400	2/27/08	42	11.5	10.6	11.8
ASTER CREEK	7750	2/28/08	67	22.7	18.4	25.2
BALD MOUNTAIN SNOTEL	9380	3/01/08	54	13.4	15.1	16.0
BASE CAMP SNOTEL	7030	3/01/08	---	15.0	13.5	16.0
BATTLE MTN. SNOTEL	7440	3/01/08	40	14.1	8.0	9.7
BEARLODGE DIVIDE	4680	2/27/08	16	3.0	2.9	1.8
BEARTOOTH LK. SNOTEL	9280	3/01/08	79	21.7	16.1	19.7
BEAR TRAP SNOTEL	8200	3/01/08	30	6.6	4.6	4.3
BIG GOOSE	7760	2/27/08	15	2.9	3.4	5.1
BIG GOOSE SNOTEL	7760	3/01/08	25	6.4	5.3	7.7
BIG PARK	8620	2/27/08	51	14.8	12.0	16.2
BIG SANDY SNOTEL	9080	3/01/08	44	10.8	10.2	12.1
BLACKWATER SNOTEL	9780	3/01/08	66	20.3	17.2	20.4
BLIND BULL SNOTEL	8900	3/01/08	68	20.4	18.2	23.1
BLIND PARK SNOTEL	6870	3/01/08	29	6.1	5.1	7.1
BLUE RIDGE	9620	2/28/08	36	10.8	6.0	9.8
BONE SPGS. SNOTEL	9350	3/01/08	51	13.2	13.6	13.2
BROOKLYN LK. SNOTEL	10220	3/01/08	61	17.5	15.9	19.0
BUCK CREEK	7960	2/26/08	29	6.4	7.4	8.2
BURGESS JCT. SNOTEL	7880	3/01/08	33	8.9	8.6	9.0
BURROUGHS CRK SNOTEL	8750	3/01/08	47	13.1	10.8	12.6
CANYON SNOTEL	8090	3/01/08	52	14.2	10.3	11.3
CASPER MTN. SNOTEL	7850	3/01/08	35	9.5	9.0	11.3
CASTLE CREEK	8400	2/26/08	17	3.0	2.7	4.0
CCC CAMP	7000	2/28/08	39	11.0	8.8	11.0
CHALK CK #1 SNOTEL	9100	3/01/08	68	22.3	17.8	19.9
CHALK CK #2 SNOTEL	8200	3/01/08	49	11.8	12.1	12.9
CINNABAR PARK SNOTEL	9690	3/01/08	61	18.3	16.8	11.9
CLOUD PEAK SNOTEL	9850	3/01/08	46	12.0	9.3	10.0
COLE CANYON SNOTEL	5910	3/01/08	23	5.1	4.9	5.7
COLD SPRINGS SNOTEL	9630	3/01/08	23	5.4	4.8	7.2
COTTONWOOD CR SNOTEL	7700	3/01/08	---	19.7	15.7	18.5
CROW CREEK SNOTEL	8830	3/01/08	21	6.9	7.1	7.3
DARBY CANYON	8250	2/28/08	60	19.3	14.3	20.3
DEER PARK SNOTEL	9700	3/01/08	41	11.7	9.5	14.4
DITCH CREEK	6870	2/26/08	15	2.9	2.1	3.6
DIVIDE PEAK SNOTEL	8860	3/01/08	60	19.8	15.4	15.6
DOME LAKE SNOTEL	8880	3/01/08	37	8.2	8.2	9.5
DU NOIR	8760	2/27/08	28	6.7	3.6	6.8
EAST RIM DIV SNOTEL	7930	3/01/08	---	7.3	7.1	11.0
ELBO RANCH	7100	3/02/08	38	10.0	7.8	10.3
ELKHART PARK SNOTEL	9400	3/01/08	---	9.3	7.8	11.1
EVENING STAR SNOTEL	9200	3/01/08	89	24.9	19.1	25.0
FOUR MILE MEADOWS	7860	2/27/08	39	10.5	9.0	10.8
FOXPARK	9060	2/27/08	28	6.7	4.9	6.3
GEYSER CREEK	8500	2/27/08	25	5.7	2.7	6.0
GLADE CREEK	7040	2/28/08	60	18.4	15.2	20.9
GRAND TARGHEE SNOTEL	9260	3/01/08	112	39.7	32.1	--
GRANITE CRK SNOTEL	6770	3/01/08	---	14.5	10.9	16.1
GRANNIER MEADOWS	8860	2/28/08	36	11.5	7.3	11.7

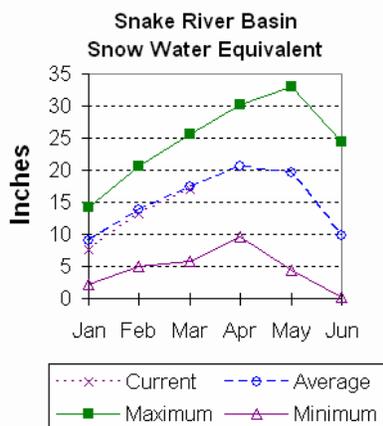
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
GRASSY LAKE SNOTEL	7270	3/01/08	87	26.4	24.0	29.5
GRAVE SPRINGS SNOTEL	8550	3/01/08	31	7.2	5.4	7.3
GREYS BOUNDARY	5720	2/28/08	38	12.9	8.0	10.9
GROS VENTRE SNOTEL	8750	3/01/08	46	11.3	8.5	11.5
GROVER PARK DIVIDE	7000	2/28/08	37	11.1	7.5	10.0
HAIRPIN TURN	9480	2/28/08	46	13.4	11.4	13.9
HANSEN S.M. SNOTEL	8360	3/01/08	22	5.2	2.8	5.2
HAMS FORK SNOTEL	7840	3/01/08	---	9.9	8.1	11.0
HASKINS CREEK	8980	2/27/08	96	30.2	18.4	25.9
HOBACK GS	6640	2/26/08	39	10.4	5.8	--
HOBBS PARK SNOTEL	10100	3/01/08	40	10.4	8.2	11.9
HUCKLEBERRY DIVIDE	7300	2/28/08	60	18.4	14.6	18.5
INDIAN CREEK SNOTEL	9430	3/01/08	---	19.4	17.3	22.3
JACKPINE CREEK	7350	2/28/08	60	19.7	17.0	19.4
KELLEY R.S. SNOTEL	8180	3/01/08	---	12.0	11.0	14.0
KENDALL R.S. SNOTEL	7740	3/01/08	36	9.7	8.9	12.4
KIRWIN SNOTEL	9550	3/01/08	42	10.1	7.7	9.1
LAKE CAMP	7780	2/27/08	40	11.2	7.5	8.7
LA PRELE SNOTEL	8380	3/01/08	26	5.8	7.0	8.9
LARSEN CREEK	9020	2/25/08	30	7.3	5.7	11.0
LEWIS LAKE SNOTEL	7850	3/01/08	82	26.2	23.1	29.7
LIBBY LODGE	8750	2/28/08	37	10.2	8.4	9.6
LITTLE BEAR RUN	6240	2/26/08	20	4.8	2.3	3.4
LITTLE WARM SNOTEL	9370	3/01/08	34	7.9	6.6	9.5
LOOMIS PARK SNOTEL	8240	3/01/08	---	13.1	9.8	14.5
LUPINE CREEK	7380	2/29/08	23	5.1	5.2	7.9
MALLO	6420	2/26/08	31	7.0	5.5	6.6
MARQUETTE SNOTEL	8760	3/01/08	17	3.7	2.1	6.9
MEDICINE LODGE LAKES	9340	2/26/08	33	7.3	7.1	9.2
MIDDLE FORK	7420	2/28/08	18	4.0	2.9	4.8
MIDDLE POWDER SNOTEL	7760	3/01/08	30	8.1	7.4	9.0
MORAN	6750	2/27/08	44	11.6	10.4	11.8
MOSS LAKE	9800	2/28/08	58	17.8	14.6	19.9
NEW FORK SNOTEL	8340	3/01/08	31	8.0	7.3	9.6
NORRIS BASIN	7500	3/01/08	37	12.1	8.5	9.6
NORTH BARRETT CREEK	9400	2/28/08	64	19.8	17.0	17.5
NORTH FRENCH SNOTEL	10130	3/01/08	83	25.4	20.2	22.7
NORTH RAPID CK SNTL	6130	3/01/08	28	7.0	5.5	6.8
NORTH TONGUE	8450	2/26/08	38	9.2	9.5	10.3
OLD BATTLE SNOTEL	9920	3/01/08	89	28.0	20.7	26.3
OLD FAITHFUL	7400	3/03/08	46	11.8	12.2	12.9
ONION GULCH	8780	2/25/08	24	5.1	3.2	6.7
OWL CREEK SNOTEL	8980	3/01/08	22	4.3	4.7	4.1
PARKERS PEAK SNOTEL	9400	3/01/08	77	21.5	16.1	18.2
PHILLIPS BNCH SNOTEL	8200	3/01/08	81	25.7	16.3	23.9
POCKET CREEK	9350	2/26/08	33	7.9	6.8	10.9
POLE MOUNTAIN	8700	2/28/08	32	8.0	9.8	6.8
POWDER RVR.PASS SNTL	9480	3/01/08	41	9.7	7.5	8.7
PURGATORY GULCH	8970	2/27/08	42	11.0	9.0	9.5
RANGER CREEK	8120	2/26/08	31	7.1	5.8	7.3
RENO HILL SNOTEL	8500	3/01/08	37	9.7	10.6	10.4
REUTER CANYON	6280	2/25/08	35	9.4	6.1	8.4
ROWDY CREEK	8300	2/26/08	55	16.4	11.7	18.5
RYAN PARK	8400	2/28/08	41	11.0	8.4	9.7
SAGE CK BASIN SNTL	7850	3/01/08	47	14.9	10.8	9.0
SALT RIVER SNOTEL	7600	3/01/08	---	11.4	9.6	12.2
SAND LAKE SNOTEL	10050	3/01/08	75	22.6	20.3	25.2

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
SANDSTONE RS SNOTEL	8150	3/01/08	53	14.9	9.8	12.5
SAWMILL DIVIDE	9260	2/27/08	39	9.9	9.1	10.2
SHELL CREEK SNOTEL	9580	3/01/08	55	13.0	11.7	11.8
SHERIDAN R.S.	7750	2/25/08	21	5.1	3.3	5.2
SNAKE RIVER STATION	6920	2/28/08	54	16.0	14.4	18.3
SNAKE RV STA SNOTEL	6920	3/01/08	52	14.5	13.3	16.6
SNIDER BASIN SNOTEL	8060	3/01/08	42	11.0	9.0	12.4
SOLDIER PARK	8780	2/28/08	17	3.2	2.4	4.4
SOUR DOUGH	8460	2/25/08	22	4.1	2.9	5.4
SOUTH BRUSH SNOTEL	8440	3/01/08	41	11.0	11.1	10.0
SOUTH PASS SNOTEL	9040	3/01/08	43	10.8	10.1	14.0
SPRING CRK. SNOTEL	9000	3/01/08	69	18.9	15.8	22.2
ST LAWRENCE ALT SNTL	8620	3/01/08	25	5.4	4.2	5.9
SUCKER CREEK SNOTEL	8880	3/01/08	41	10.3	10.1	9.1
SYLVAN LAKE SNOTEL	8420	3/01/08	60	17.5	13.5	18.8
SYLVAN ROAD SNOTEL	7120	3/01/08	40	9.4	8.4	11.4
T CROSS RANCH	7900	2/27/08	23	5.1	5.0	6.8
TETON PASS W.S.	7740	3/03/08	77	24.6	16.8	23.4
THUMB DIVIDE SNOTEL	7980	3/01/08	48	13.6	11.5	15.4
THUMB DIVIDE	7980	2/28/08	45	12.5	10.8	15.8
TIE CREEK SNOTEL	6870	3/01/08	18	5.0	4.1	4.9
TIMBER CREEK SNOTEL	7950	3/01/08	13	2.8	2.3	4.2
TOGWOTEE PASS SNOTEL	9580	3/01/08	76	22.2	15.8	20.7
TOWNSEND CRK SNOTEL	8700	3/01/08	30	6.4	5.4	6.9
TRIPLE PEAK SNOTEL	8500	3/01/08	70	19.9	15.8	20.9
TURPIN MEADOWS	6900	2/27/08	34	9.0	9.1	9.4
TWO OCEAN SNOTEL	9240	3/01/08	88	29.2	21.3	23.3
TYRELL RANGER STA.	8300	2/25/08	24	5.1	3.1	6.2
UPPER SPEARFISH	6500	2/27/08	26	6.4	4.8	5.9
WEBBER SPRING SNOTEL	9250	3/01/08	74	21.8	15.9	21.3
WHISKEY PARK SNOTEL	8950	3/01/08	86	27.1	18.1	23.8
WILLOW CREEK SNOTEL	8450	3/01/08	---	25.9	19.9	25.4
WINDY PEAK SNOTEL	7900	3/01/08	24	6.5	6.6	6.0
WOLVERINE SNOTEL	7650	3/01/08	32	8.8	8.1	10.6
WOOD ROCK G.S.	8440	2/27/08	29	6.3	7.8	7.8
YOUNTS PEAK SNOTEL	8350	3/01/08	48	14.2	10.0	14.6

# Snake River Basin

## Snow

The Snake River Basin snow water equivalent (SWE) is 97%, slightly below average. SWE in the Snake River Basin above Jackson Lake is 95% of average (119% of last year). Pacific Creek Basin SWE is 109% of average (123% of last year). Gros Ventre River Basin SWE is 102% of average (136% of last year). SWE in the Hoback River drainage is 87% of average (122% of last year). SWE in the Greys River drainage is 96% of average (126% of last year). In the Salt River area SWE is 103% of average (129% of last year). SWE in the Snake River Basin above Palisades is 97% of average (125% of last year). See the Basin Summary of Snow Courses at the beginning of this report for a detailed listing of snow course information.



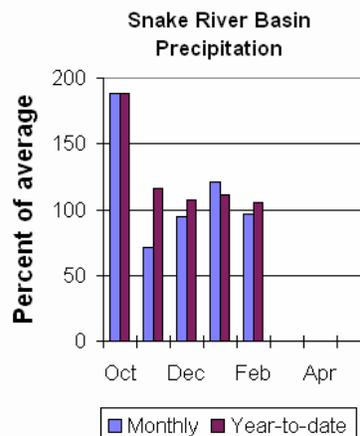
## Precipitation

Precipitation across the basin was above average last month. Monthly precipitation for the basin was 97% of average (100% of last year). Last month's percentages range from 43-149% of average. Water-year-to-date precipitation is 105% of average for the Snake River Basin (121% of last year). Year-to-date percentages range from 81-130% of average.

## Reservoir

Current reservoir storage is 60% of average for the three storage

reservoirs in the basin. Grassy Lake storage is about 112% of average (13,400 ac-ft compared to 12,400 last year). Jackson Lake storage is 68% of average (335,400 ac-ft compared to 635,900 ac-ft last year). Palisades Reservoir storage is about 55% of average (567,300 ac-ft compared to 1,053,000 ac-ft 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 50% exceedance forecasts for April through September are slightly below average for the basin. The Snake near Moran is 890,000 ac-ft (98% of average). Snake above reservoir near Alpine is 2,790,000 ac-ft (102% of average). The Snake near Irwin is 3,770,000 ac-ft (97% of average). The Snake near Heise is 4,040,000 ac-ft (97% of average). Pacific Creek at Moran is 185,000 ac-ft (104% of average). Greys River above Palisades Reservoir is 375,000 ac-ft (95% of average). Salt River near Etna is 390,000 ac-ft (93% of average). See the following page for detailed runoff volumes.

**SNAKE RIVER BASIN**

Streamflow Forecasts - March 1, 2008

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=====
<=== Drier === Future Conditions === Wetter ===>
Forecast Pt |===== Chance of Exceeding * =====|
Forecast    | 90%    70%    50%    30%    10%    30 Yr Avg
Period      |(1000AF) (1000AF) |(1000AF) (% AVG.)|(1000AF) (1000AF)| (1000AF)
=====
Snake R Nr Moran
  APR-JUL    635    760    815    100    870    995    815
  APR-SEP    680    825    890    98    955    1100   905
Snake R Nr Alpine
  APR-JUL    1910   2250   2410   102   2570   2910   2370
  APR-SEP    2200   2610   2790   102   2970   3380   2730
Snake R nr Irwin
  APR-JUL    2700   3140   3340   100   3540   3980   3330
  APR-SEP    3060   3550   3770   97    3990   4480   3870
Snake R nr Heise
  APR-JUL    3010   3340   3560   100   3780   4110   3560
  APR-SEP    3420   3790   4040   97    4290   4660   4160
Pacific Ck At Moran
  APR-JUL    130    157    175   102   193    220    171
  APR-SEP    138    166    185   104   205    230    178
Greys R Nr Alpine
  APR-JUL    255    295    320    94    345    385    340
  APR-SEP    300    345    375    95    405    450    395
Salt R Nr Etna
  APR-JUL    210    280    325    96    370    440    340
  APR-SEP    250    335    390    93    445    530    420
=====

```

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (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.

**SNAKE RIVER BASIN**

Reservoir Storage (1000AF) End of February

```

=====
Usable ***** Usable Storage *****
Capacity This Year Last Year Average
=====
Reservoir
GRASSY LAKE      15.2      13.4      12.4      12.0
JACKSON LAKE    847.0     335.4     635.9     494.0
PALISADES      1400.0    567.3    1053.4    1033.1
=====

```

**SNAKE RIVER BASIN**

Watershed Snowpack Analysis - March 1, 2008

```

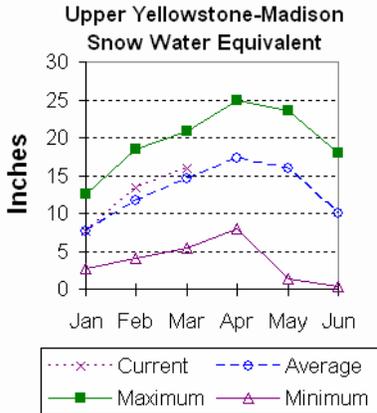
=====
Number of This Year as Percent of
Data Sites Last Year Average
=====
Watershed
SNAKE above Jackson Lake      9      119      95
PACIFIC CREEK                 3      123     109
GROS VENTRE RIVER             3      131     102
HOBACK RIVER                  5      122      87
GREYS RIVER                   5      126      98
SALT RIVER                    5      129     103
SNAKE above Palisades        28      125      97
=====

```

# Upper Yellowstone & Madison River Basins

## Snow

Snowfall in these basins has been good so far this year and the SWE in both basins is above average for this month. Snow water equivalent (SWE) is about 112% of average (136% of last year) in the Madison drainage. SWE in the Yellowstone drainage is about 107% of average (128% of last year at this time). See the "Snow Course Basin Summary" at the beginning of this document for more details on specific sites.



## Precipitation

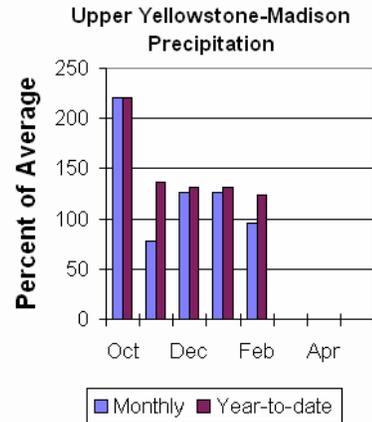
Last month precipitation in the Madison and Yellowstone drainage was about 96% of average (79% of last year) for the 8 reporting stations -- percentages range from 43-202% of average. Water-year-to-date precipitation is about 124% of average (126% of last year's amount). Year to date percentage ranges from 100-177%.

## Reservoir

Ennis Lake is storing about 29,600 ac-ft of water (72% of capacity, 94% of average or 105% of last year's volume). Hebgen Lake is storing about 279,400 ac-ft of water (74% of capacity, 105% of average or 99% of last year's volume). Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.

## Streamflow

All the following yields are the 50% exceedance forecasts from April through September. Yellowstone at Lake Outlet is 910,000 ac-ft (113% of average). Yellowstone at Corwin Springs will yield around 2,190,000 ac-ft (111% of average). Yellowstone near Livingston will yield around 2,520,000 ac-ft (111% of average). Hebgen Reservoir inflow is 550,000 ac-ft (110% of average). See the following page for detailed runoff volumes.



**UPPER YELLOWSTONE & MADISON RIVER BASINS**

Streamflow Forecasts - March 1, 2008

```

=====
<=== Drier === Future Conditions === Wetter ===>
Forecast Pt |===== Chance of Exceeding * =====|
Forecast    | 90%    70%    | 50%    | 30%    10%    | 30 Yr Avg
Period      |(1000AF) (1000AF)| (1000AF) (% AVG.)|(1000AF) (1000AF)| (1000AF)
=====
YELLOWSTONE at Lake Outlet
APR-JUL     570    635    680    115    725    790    590
APR-SEP     770    855    910    113    965    1050   805

YELLOWSTONE RIVER at Corwin Springs
APR-JUL     1560   1730   1850   112    1970   2140   1650
APR-SEP     1840   2050   2190   111    2330   2540   1970

YELLOWSTONE RIVER near Livingston
APR-JUL     1770   1980   2120   112    2260   2470   1900
APR-SEP     2110   2350   2520   111    2690   2930   2280

HEBGEN Reservoir Inflow
APR-JUL     360    405    435    112    465    515    390
APR-SEP     460    510    550    110    590    650    500
=====

```

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (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 & MADISON RIVER BASINS**

Reservoir Storage (1000AF) End of February

```

=====
Reservoir    Usable Capacity    ***** Usable Storage *****
              |                | This Year | Last Year | Average
=====
ENNIS LAKE   41.0             29.6      28.2      31.4
HEBGEN LAKE  377.5            279.4     281.8     265.2
=====

```

**UPPER YELLOWSTONE & MADISON RIVER BASINS**

Watershed Snowpack Analysis - March 1, 2008

```

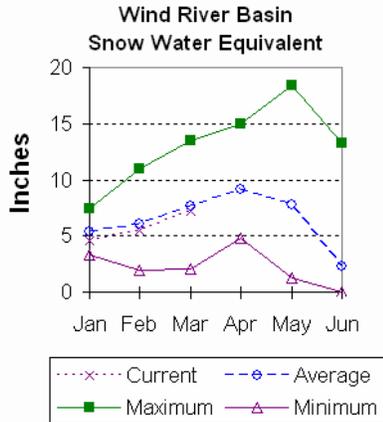
=====
Watershed    Number of Data Sites    This Year as Percent of
              |                | Last Year | Average
=====
MADISON RIVER in WY    8             138      115
YELLOWSTONE RIVER in WY 12            128      107
=====

```

# Wind River Basin

## Snow

The Wind River Basin has below average snow water equivalent (SWE 93%) for this time of the year. SWE in the Wind River above Dubois is 96% of average (135% of last year at this time). The Little Wind SWE is 89% of average water content (127% of last year), and the Popo Agie drainage SWE is about 89% of average (133% of last year). The Wind River Basin, above Boysen Reservoir SWE is about 93% of average (134% of last year). See the Basin Summary of Snow Course Data at the front of this report for details.

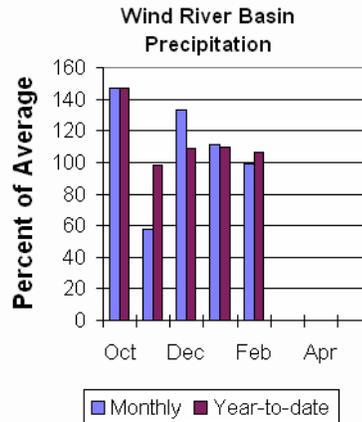


## Precipitation

Last months precipitation in the basin varied from 30-160% of average. Precipitation, for the basin, was about 99% of average from the 11 reporting stations; that is about 135% of last year's amount. Water year-to-date precipitation is 106% of average and about 129% of last year at this time. Year-to-date percentages range from 81-162% of average.

## Reservoirs

Current storage varies from 67-125% of average. Usable storage in Bull Lake is currently about 56,900 ac-ft (67% of average) - the reservoir is about 98% of last year. Boysen Reservoir is storing about 68% of average (390,500 ac-ft) - the reservoir is about 93% of last year. Pilot Butte is at 125% of average (24,800 ac-ft) - the reservoir is about 133% of last year. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



Bull Lake is currently about 56,900 ac-ft (67% of average) - the reservoir is about 98% of last year. Boysen Reservoir is storing about 68% of average (390,500 ac-ft) - the reservoir is about 93% of last year. Pilot Butte is at 125% of average (24,800 ac-ft) - the reservoir is about 133% of 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 following values reflect the 50% exceedance forecasts for the April through September runoff period. Dinwoody Creek near Burris is 102,000 ac-ft (109% of average). The Wind River above Bull Lake Creek is 460,000 ac-ft (86% of average). Bull Lake Creek near Lenore is 170,000 ac-ft (93% of average). Wind River at Riverton will yield around 520,000 ac-ft (81% of average). Little Popo Agie River near Lander is around 46,000 ac-ft (87% of average). South Fork of Little Wind near Fort Washakie will yield around 84,000 ac-ft (100% of average). Little Wind River near Riverton will yield around 275,000 ac-ft (87% of average). Boysen Reservoir inflow will yield around 625,000 ac-ft (77% of average). See the following page for detailed runoff volumes.

**WIND RIVER BASIN**

Streamflow Forecasts - March 1, 2008

```

=====
<=== Drier === Future Conditions === Wetter ===>
Forecast Pt |==== Chance of Exceeding * =====
Forecast    | 90%   70%   | 50%   | 30%   10%   | 30 Yr Avg
Period      |(1000AF) (1000AF) |(1000AF) (% AVG.)|(1000AF) (1000AF)| (1000AF)
=====
DINWOODY CREEK nr Burris
APR-JUL      60    68    73    109    78    86    67
APR-SEP      86    96   102   109   108   118   94
WIND RIVER abv Bull Lake Cr (2)
APR-JUL      270   335   375    86   415   480   435
APR-SEP      330   405   460    86   515   590   535
BULL LAKE CR near Lenore
APR-JUL      108   127   140    95   154   176   148
APR-SEP      130   153   170    93   188   215   182
WIND RIVER at Riverton (2)
APR-JUL      280   380   450    83   520   620   545
APR-SEP      315   440   520    81   600   725   640
LT POPO AGIE RIVER nr Lander
APR-JUL       26    33    39    85    45    55    46
APR-SEP       31    40    46    87    53    64    53
SF LT WIND nr Fort Washakie
APR-JUL       55    66    74   101    82    93    73
APR-SEP       61    75    84   100    93   107    84
LT WIND RIVER nr Riverton
APR-JUL       96   182   240    86   300   385   280
APR-SEP      119   210   275    87   340   430   315
BOYSEN RESERVOIR Inflow (2)
APR-JUL      200   415   565    79   715   930   717
APR-SEP      210   455   625    77   795  1040   809
=====

```

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.  
The average is computed for the 1971-2000 base period.  
(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**

Reservoir Storage (1000AF) End of February

```

=====
Usable ***** Usable Storage *****
Capacity This Year Last Year Average
=====
BULL LAKE      151.8    56.9    57.8    85.4
BOYSEN         596.0   390.5   419.4   571.4
PILOT BUTTE    31.6     24.8    18.6    19.9
=====

```

**WIND RIVER BASIN**

Watershed Snowpack Analysis - March 1, 2008

```

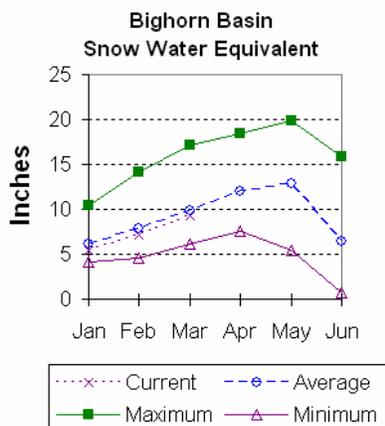
=====
Number of This Year as Percent of
Data Sites Last Year Average
=====
WIND RIVER above Dubios      7      132      96
LITTLE WIND                  2      127      89
POPO AGIE                    7      133      89
WIND above Boysen Resv     14      132      93
=====

```

# Bighorn River Basin

## Snow

Snowpack in this basin is below average for this time of year. The Nowood River is at 89% of average (125% of last year). The Greybull River SWE is at 97% of average (129% of last year). Shell Creek SWE is 97% of average (101% of last year). The Bighorn River Basin SWE, as a whole, is currently 94% of average (112% of last year). For more information see Basin Summary of Snow Courses at beginning of report.



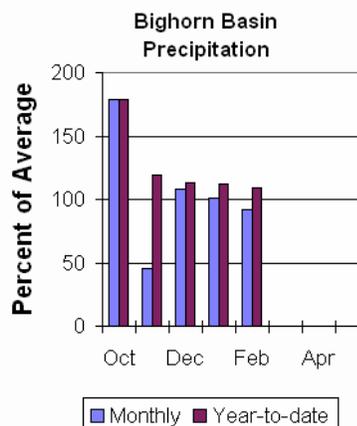
## Precipitation

Last month's precipitation was 92% of average (72% of last year). Sites ranged from 16-133% of average for the month. Year-to-date precipitation is 109% of average; that is 122% of last year at this time. Year-to-date percentages, from the 12 reporting stations, range from 71-133%.

## Reservoir

Boysen Reservoir is currently storing 390,500 ac-ft (68% of average).

Bighorn Lake is now at 101% of average (836,000 ac-ft). Boysen is currently storing 93% of last year volume at this time and Big Horn Lake is storing 109% of last year's volume. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



## Streamflow

The 50% exceedance forecasts for the April through September runoffs are anticipated to be below average. Boysen Reservoir inflow is 625,000 ac-ft (77% of average); the Greybull River near Meeteetse should yield around 169,000 ac-ft (85% of average); Shell Creek near Shell should yield around 72,000 ac-ft (100% of average) and the Bighorn River at Kane should yield around 890,000 ac-ft (80% of average). See the following page for detailed runoff volumes.

**BIGHORN RIVER BASIN**

Streamflow Forecasts - March 1, 2008

```

=====
<=== Drier === Future Conditions === Wetter ===>
Forecast Pt |==== Chance of Exceeding * =====|
Forecast    | 90%   70%   | 50%   | 30%   10%   | 30 Yr Avg
Period      |(1000AF) (1000AF) |(1000AF) (% AVG.) |(1000AF) (1000AF)| (1000AF)
=====
BOYSEN RESERVOIR Inflow (2)
APR-JUL     200   415   565   79   715   930   717
APR-SEP     210   455   625   77   795  1040   809

GREYBULL RIVER nr Meeteetse
APR-JUL     103   119   130   88   142   160   148
APR-SEP     134   155   169   85   184   205   200

SHELL CREEK nr Shell
APR-JUL     47    55    60   100   65    73    60
APR-SEP     57    66    72   100   78    87    72

BIGHORN RIVER at Kane (2)
APR-JUL     540   670   800   80   930  1060  1000
APR-SEP     600   740   890   80  1030  1180  1110
=====

```

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (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**

Reservoir Storage (1000AF) End of February

```

=====
Usable ***** Usable Storage *****
Capacity This Year Last Year Average
Reservoir
=====
BOYSEN          596.0   390.5   419.4   571.4
BIGHORN LAKE   1356.0   836.0   769.3   826.3
=====

```

**BIGHORN RIVER BASIN**

Watershed Snowpack Analysis - March 1, 2008

```

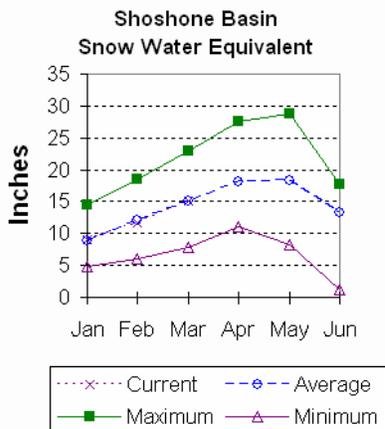
=====
Number of This Year as Percent of
Data Sites Last Year Average
Watershed
=====
NOWOOD RIVER          5          125          89
GREYBULL RIVER       2          129          97
SHELL CREEK          4          101          97
BIGHORN (Boysen-Bighorn) 11          112          94
=====

```

## Shoshone and Clarks Fork River Basin

### Snow

Snowpack in these basins are about average for this time of year. Snow Water Equivalent (SWE) is 93% of average (128% of last year) in the Shoshone River Basin. The Clarks Fork River Basin SWE is 108% of average (131% of last year). For more information see the Basin Summary of Snow Course Data at the beginning of this report.



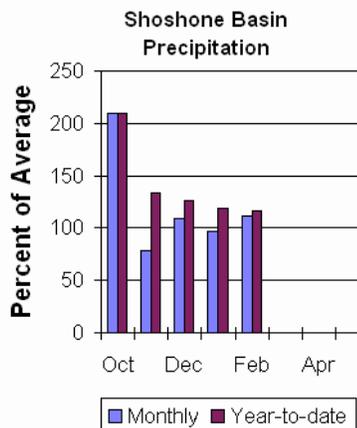
### Precipitation

Precipitation for last month was 111% of average (90% of last year). Monthly percentages range from 50-135% of average. The basin year-to-date precipitation is now 117% of average (121% of last year). Year-to-date percentages range from 95-145% of average for the 12 reporting stations.

### Reservoir

Current storage in Buffalo Bill Reservoir is about 111% of average (102%

of last year's storage) - the reservoir is at about 70% of capacity. Currently, about 452,200 ac-ft are stored in the reservoir compared to 444,100 ac-ft 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 following values are the 50% exceedance forecasts for the April through September period. The North Fork Shoshone River at Wapiti is 595,000 ac-ft (114% of average). The South Fork of the Shoshone River near Valley is 285,000 ac-ft (108% of average), and the South Fork above Buffalo Bill Reservoir runoff is 255,000 ac-ft (113% of average). The Buffalo Bill Reservoir inflow is expected to yield around 870,000 ac-ft (108% of average). The yield for the Clarks Fork of the Yellowstone near Belfry, Montana is expected to be around 680,000 ac-ft (114% of average). See the following page for detailed runoff volumes.

**SHOSHONE & CLARKS FORK RIVER BASINS**

Streamflow Forecasts - March 1, 2008

```

=====
<=== Drier === Future Conditions === Wetter ===>
Forecast Pt |==== Chance of Exceeding *====
Forecast    | 90%   70%   | 50%   | 30%   10%   | 30 Yr Avg
Period      |(1000AF) (1000AF) |(1000AF) (% AVG.) |(1000AF) (1000AF) | (1000AF)
=====
NF SHOSHONE RIVER at Wapiti
APR-JUL     390   475   530   115   585   670   460
APR-SEP     450   535   595   114   655   740   520

SF SHOSHONE RIVER nr Valley
APR-JUL     210   235   250   111   265   290   225
APR-SEP     235   265   285   108   305   335   265

SF SHOSHONE RIVER abv Buffalo Bill
APR-JUL     177   215   245   114   275   315   215
APR-SEP     178   225   255   113   285   330   225

BUFFALO BILL DAM Inflow (2)
APR-JUL     640   730   790   110   850   940   720
APR-SEP     700   800   870   108   940   1040  805

CLARKS FORK RIVER nr Belfry
APR-JUL     525   580   615   114   650   705   540
APR-SEP     580   640   680   114   720   780   595
=====

```

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (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.

**SHOSHONE & CLARKS FORK RIVER BASINS**  
Reservoir Storage (1000AF) End of February

```

=====
Usable ***** Usable Storage *****
Reservoir   Capacity This Year Last Year Average
=====
BUFFALO BILL      646.6      452.2      444.1      405.8
=====

```

**SHOSHONE & CLARKS FORK RIVER BASINS**  
Watershed Snowpack Analysis - March 1, 2008

```

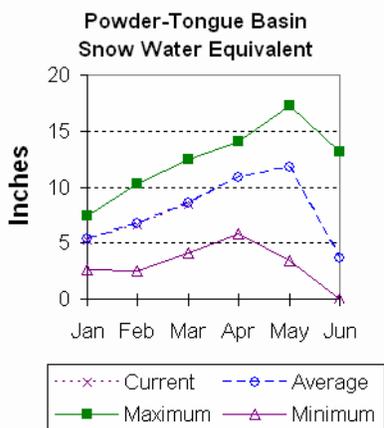
=====
Number of This Year as Percent of
Watershed  Data Sites Last Year Average
=====
SHOSHONE RIVER      6      128      93
CLARKS FORK in WY   7      131      108
=====

```

## Powder and Tongue River Basins

### Snow

Snow water equivalent (SWE) in the Upper Tongue River drainage is 97% of average (103% of last year). The Goose Creek drainage is 89% of average and 108% of last year. SWE in the Clear Creek drainage is 98% of average and 141% of last year. Crazy Woman Creek drainage is 91% of average and 139% of last year. Upper Powder River drainage SWE is 103% of average and 131% of last year. Powder River basin SWE, in Wyoming is 101% of average and 135% of last year. For more information see Basin Summary of Snow Courses at beginning of report.

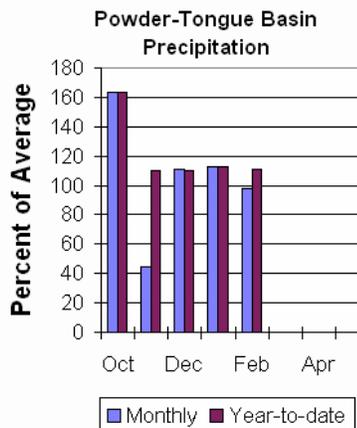


### Precipitation

Last month's precipitation was 98% of average for the 10 reporting stations (75% of last year). Monthly percentages range from 61-125% of average. Year-to-date precipitation is 111% of average in the basin; this is 127% of last year at this time. Precipitation for the year ranges from 71-124% of average.

### Reservoir

The Tongue River Reservoir is at 65% of capacity; 208% of average; and



99% of last year at 51,200 ac-ft.

### Streamflow

The following runoff values are the 50% exceedance forecasts for the April through September period. The yield for Tongue River near Dayton is 105,000 ac-ft (96% of average). Big Goose Creek near Sheridan is 62,000 ac-ft (103% of average). Little Goose Creek near Bighorn is 44,000 ac-ft (105% of average). The Tongue River Reservoir Inflow is 240,000 ac-ft (96% of average). The Middle Fork of the Powder River near Barnum is 16,700 ac-ft (89% of average). The North Fork of the Powder River near Hazelton should yield around 10,800 ac-ft (104% of average). Rock Creek near Buffalo will yield about 25,000 ac-ft (104% of average), and Piney Creek at Kearny should yield about 55,000 ac-ft (106% of average). The Powder River at Moorehead is 210,000 ac-ft (91% of average). The Powder River near Locate is 240,000 ac-ft (92% of average). See the following page for detailed runoff volumes.

**POWDER & TONGUE RIVER BASINS**  
Streamflow Forecasts - March 1, 2008

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>					30 Yr Avg (1000AF)
	90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)	
TONGUE RIVER nr Dayton (2)						
APR-JUL	63	80	92	96	105	96
APR-SEP	76	92	105	96	119	109
BIG GOOSE CREEK nr Sheridan						
APR-JUL	36	46	54	104	63	52
APR-SEP	43	54	62	103	70	60
LITTLE GOOSE CREEK nr Big Horn						
APR-JUL	24	30	35	103	40	34
APR-SEP	31	39	44	105	50	42
TONGUE RIVER RESERVOIR Inflow (2)						
APR-JUL	123	172	210	96	250	220
APR-SEP	146	197	240	96	285	250
MIDDLE FORK POWDER nr Barnum						
APR-JUL	10.6	13.7	15.8	89	17.9	17.8
APR-SEP	11.3	14.5	16.7	89	18.9	18.7
NORTH FORK POWDER nr Hazelton						
APR-JUL	6.8	8.6	10.0	104	11.4	9.6
APR-SEP	7.5	9.4	10.8	104	12.3	10.4
ROCK CREEK nr Buffalo						
APR-JUL	13.2	17.6	21	106	25	19.9
APR-SEP	16.3	21	25	104	29	24
PINEY CREEK at Kearny						
APR-JUL	29	42	52	106	63	49
APR-SEP	32	45	55	106	66	52
POWDER RIVER at Moorehead						
APR-JUL	90	144	187	91	225	205
APR-SEP	101	162	210	91	250	230
POWDER RIVER nr Locate						
APR-JUL	155	181	215	92	245	235
APR-SEP	172	200	240	92	270	260

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(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.

**POWDER & TONGUE RIVER BASINS**  
Reservoir Storage (1000AF) End of February

Reservoir	Usable Capacity	***** This Year *****	Usable Storage Last Year	***** Average *****
TONGUE RIVER	79.1	51.2	51.5	24.6

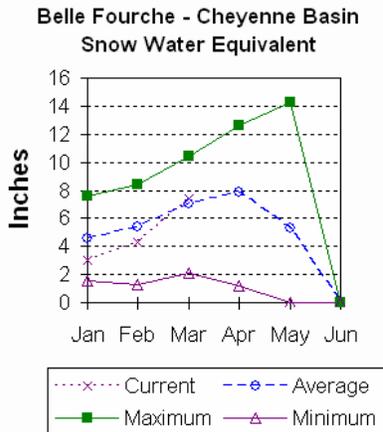
**POWDER & TONGUE RIVER BASINS**  
Watershed Snowpack Analysis - March 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
UPPER TONGUE RIVER	10	103	97
GOOSE CREEK	3	108	89
CLEAR CREEK	4	141	98
CRAZY WOMAN CREEK	3	139	91
UPPER POWDER RIVER	4	130	103
POWDER RIVER in WY	8	135	101

## Belle Fourche and Cheyenne River Basins

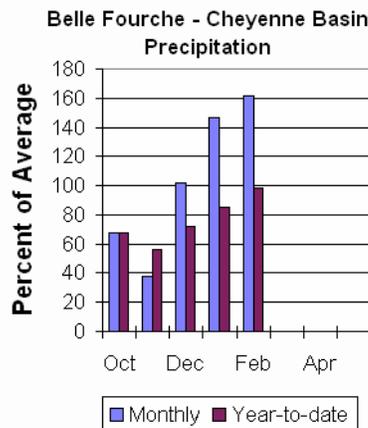
### Snow

The Belle Fourche River Basin is currently at 106% of average or 131% of last year at this time. See the Basin summary of Snow Course Data at the beginning of this report for a detailed listing.



### Precipitation

Precipitation for last month was 162% of average or 93% of last year in the Black Hills. There were 3 reporting stations. Monthly percentages range from 100-183%. Year-to-date precipitation is 98% of average and 110% of last year's amount. Yearly



percentages range from 66-117% of average.

### Reservoir

Current reservoir storage is around 59% of average in the basin. Angostura is currently storing 45% of average (46,000 ac-ft), about 38% of capacity. Belle Fourche reservoir is storing 83% of average (93,700 ac-ft), about 53% of capacity. Deerfield reservoir is storing 89% of average (11,700 ac-ft), about 77% of capacity. Keyhole reservoir is storing 56% of average (59,100 ac-ft), about 30% of capacity. Pactola reservoir is storing 59% of average (27,000 ac-ft), about 49% of capacity. Shadehill reservoir is storing 35% of average (17,600 ac-ft), about 22% 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 runoff values are the 50% exceedance forecasts for the April through July period. The Deerfield Reservoir Inflow is 6,300 ac-ft (124% of average). Pactola Reservoir Inflow is expected to yield around 25,000 ac-ft (109% of average). See the following page for detailed runoff volumes.

**BELLE FOURCHE & CHEYENNE RIVER BASINS**

Streamflow Forecasts - March 1, 2008

```

=====
<=== Drier === Future Conditions === Wetter ===>
Forecast Pt |==== Chance of Exceeding * =====|
Forecast    | 90%   70%   | 50%   | 30%   10%   | 30 Yr Avg
Period      |(1000AF) (1000AF) |(1000AF) (% AVG.) |(1000AF) (1000AF) |(1000AF)
=====
DEERFIELD RESERVOIR Inflow
MAR-JUL     4.2   6.1   7.6   125   9.3   12.0   6.1
APR-JUL     3.6   5.1   6.3   124   7.6   9.8    5.1

PACTOLA RESERVOIR Inflow
MAR-JUL     13.6  22    28    108   35    48     26
APR-JUL     11.8  19.1  25    109   32    43     23
=====

```

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (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 & CHEYENNE RIVER BASINS**

Reservoir Storage (1000AF) End of February

```

=====
Usable ***** Usable Storage *****
Capacity This Year Last Year Average
=====
Reservoir
=====
ANGOSTURA      122.1   46.0   42.5   101.7
BELLE FOURCHE  178.4   93.7   78.1   113.0
DEERFIELD      15.2    11.7   11.5   13.2
KEYHOLE        193.8   59.1   54.8   105.9
PACTOLA        55.0    27.0   31.0   46.0
SHADEHILL      81.4    17.6   28.1   50.0
=====

```

**BELLE FOURCHE & CHEYENNE RIVER BASINS**

Watershed Snowpack Analysis - March 1, 2008

```

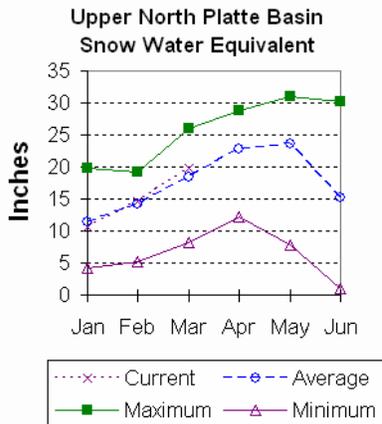
=====
Number of This Year as Percent of
Data Sites Last Year Average
=====
Watershed
=====
BELLE FOURCHE      8      135      108
=====

```

# Upper North Platte River Basin

## Snow

The SNOTELs above Seminoe Reservoir are showing about 108% of average (SWE) for this time of the year (125% of last year). SWE in the drainage area above Northgate is about 112% of average and 126% of last year at this time. SWE in the Encampment River drainage is about 109% of average and 138% of last year. Brush Creek SWE for the year is about 107% of average and 119% of last year's SWE. Medicine Bow and Rock Creek drainages SWE are about 90% of average and 114% of last year at this time. For more information see Basin Summary of Snow Courses at the beginning of this report.



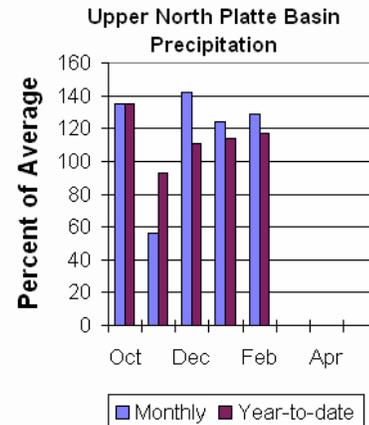
## Precipitation

Eleven reporting stations show last month's precipitation at 129% of average or 122% of last year's amount. Precipitation varied from 17-170% of average last month. Total water-year-to-date precipitation is about 117% of average for the basin, which is about 123% of last year's amount. Year to date percentage ranges from 54-139% of average.

## Reservoirs

Seminoe Reservoir is estimated to be storing 184,400 ac-ft or 18% of

capacity. Seminoe Reservoir is also storing about 35% of average for this time of the year and 70% of 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 following yields are the 50% exceedance forecasts for the April through September period. Yield for the North Platte River near Northgate will be around 325,000 ac-ft (120% of average). The Encampment River near Encampment is 200,000 ac-ft (121% of average). Rock Creek near Arlington is 57,000 ac-ft (100% of average). Sweetwater River near Alcova runoff is 56,000 ac-ft (70% of average). Seminoe Reservoir inflow should be around 1,030,000 ac-ft (120% of average). See the following table for more detailed information on projected runoff.

**UPPER NORTH PLATTE RIVER BASIN**  
Streamflow Forecasts - March 1, 2008

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>					30 Yr Avg (1000AF)	
	90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)		
<b>NORTH PLATTE RIVER nr Northgate</b>							
APR-JUL	183	245	295	120	350	435	245
APR-SEP	200	270	325	120	385	480	270
<b>ENCAMPMENT RIVER nr Encampment</b>							
APR-JUL	143	170	188	121	205	235	156
APR-SEP	152	180	200	121	220	250	165
<b>ROCK CREEK nr Arlington</b>							
APR-JUL	37	47	53	100	59	69	53
APR-SEP	40	50	57	100	64	74	57
<b>SWEETWATER RIVER nr Alcova</b>							
APR-JUL	27	41	52	70	65	86	74
APR-SEP	29	44	56	70	70	92	80
<b>SEMINOE RESERVOIR Inflow (2)</b>							
APR-JUL	605	805	960	120	1130	1400	800
APR-SEP	655	865	1030	120	1210	1490	860

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (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 NORTH PLATTE RIVER BASIN**  
Reservoir Storage (1000AF) End of February

Reservoir	Usable Capacity	***** This Year	***** Usable Storage Last Year	***** Average
SEMINOE	1016.7	184.4	264.6	527.4

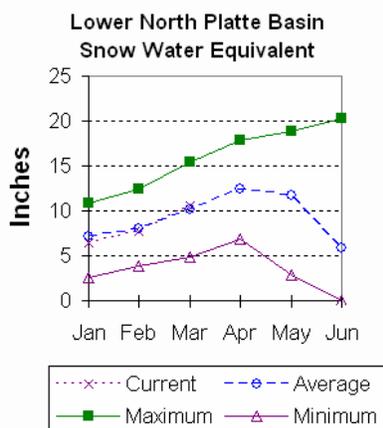
**UPPER NORTH PLATTE RIVER BASIN**  
Watershed Snowpack Analysis - March 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
N PLATTE above Northgate	7	126	112
ENCAMPMENT RIVER	4	138	109
BRUSH CREEK	5	119	107
MEDICINE BOW & ROCK CREEKS	3	114	90
N PLATTE above Seminoe	19	125	108

## Lower North Platte River Basin

### Snow

SWE for the North Platte River Basin is at 104% of average (121% of last year). The Sweetwater drainage SWE is currently at 81% of average (127% of last year). Deer and LaPrele Creek SWE are at 80% of average (88% of last year). SWE for the North Platte above the Laramie River drainage is 103% of average (123% of last year). SWE for the Laramie River above Laramie is 116% of average (111% of last year). SWE for the Little Laramie River is 107% of average (112% of last year). The Laramie River above mouth, SWE is 111% of average (112% of last year). For more information see Basin Summary of Snow Courses at the beginning of this report.



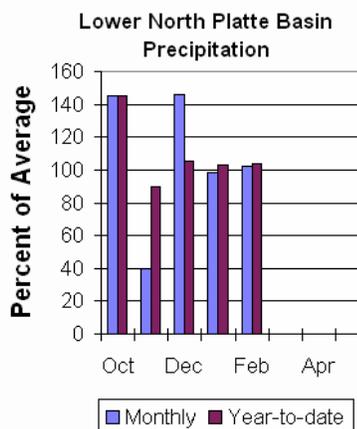
### Precipitation

Last month's precipitation was 102% of average or 120% of last year's amount. Of the 15 reporting stations, percentages for the month range from 37-184%. The water year-to-date precipitation for the basin is currently 104% of average (103% of last year). Year-to-date percentages range from 67-149% of average.

### Reservoir

The Lower North Platte River basin reservoir storage is below average at 48%.

Reservoir storage is as follows: Alcova 156,500 ac-ft (101% of average); Glendo 281,000 ac-ft (74% of average); Guernsey 14,900 ac-ft (105% of average); Pathfinder 213,700 ac-ft (30% of average); Seminoe 184,400 ac-ft (35% of average); and Wheatland #2 31,300 ac-ft (66% of average).



### Streamflow

The following yields are based on the 50% exceedance forecasts for the April through September period. The Sweetwater near Alcova is forecast to yield about 56,000 ac-ft (70% of average). Deer Creek at Glenrock is forecast to yield 28,000 ac-ft (76% of average). LaPrele Creek above the reservoir is forecast to yield 17,000 ac-ft (71% of average). North Platte - Alcova to Orin Gain is forecast to yield 104,000 ac-ft (117% of average). North Platte River below Glendo Reservoir is 1,160,000 ac-ft (117% of average), and below Guernsey Reservoir is anticipated to yield around 1,200,000 ac-ft (119% of average). Laramie River near Woods Landing should yield around 162,000 ac-ft (120% of average). The Little Laramie near Filmore should produce about 70,000 ac-ft (109% of average). See the following table for more detailed information on projected runoff.

**LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS**

Streamflow Forecasts - March 1, 2008

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>					30 Yr Avg (1000AF)	
	90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)		
SWEETWATER RIVER nr Alcova							
APR-JUL	50	51	52	70	53	54	74
APR-SEP	54	55	56	70	57	58	80
DEER CREEK at Glenrock							
APR-JUL	8.0	18.0	27	73	38	57	37
APR-SEP	8.6	18.8	28	76	39	59	37
LaPRELE CREEK abv Reservoir							
APR-JUL	6.7	10.0	16.8	70	25	41	24
APR-SEP	6.8	10.2	17.0	71	26	41	24
NORTH PLATTE - Alcova to Orin Gain							
APR-JUL	39	62	98	65	161	255	152
APR-SEP	42	66	104	65	169	265	161
NORTH PLATTE RIVER blw Glendo Res (2)							
APR-JUL	855	1010	1120	117	1230	1380	960
APR-SEP	880	1050	1160	117	1270	1440	990
NORTH PLATTE RIVER blw Guernsey Res (2)							
APR-JUL	820	1020	1150	119	1280	1480	970
APR-SEP	860	1060	1200	119	1340	1540	1010
LARAMIE RIVER nr Woods							
APR-JUL	88	123	147	120	171	205	123
APR-SEP	96	135	162	120	189	230	135
LITTLE LARAMIE RIVER nr Filmore							
APR-JUL	42	55	64	109	73	86	59
APR-SEP	45	60	70	109	80	95	64

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

(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.

**LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS**

Reservoir Storage (1000AF) End of February

Reservoir	Usable Capacity	***** This Year	Usable Storage Last Year	***** Average
ALCOVA	184.3	156.5	156.3	155.6
GLENDO	506.4	281.0	300.3	381.4
GUERNSEY	45.6	14.9	14.6	14.2
PATHFINDER	1016.5	213.7	245.6	712.4
SEMINOE	1016.7	184.4	264.6	527.4
WHEATLAND #2	98.9	31.3	24.5	47.7

**LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS**

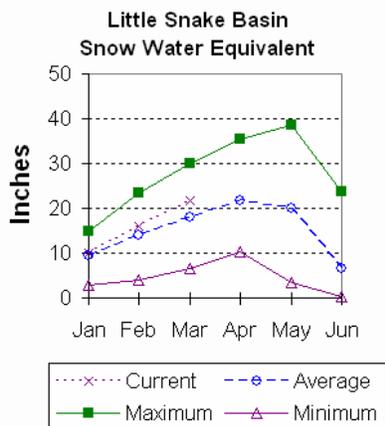
Watershed Snowpack Analysis - March 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Percent of Average
SWEETWATER	4	127	81
DEER & LaPRELE CREEKS	3	88	80
N PLATTE abv Laramie R.	26	123	103
LARAMIE RIVER abv Laramie	10	111	116
LITTLE LARAMIE RIVER	5	112	107
LARAMIE RIVER above mouth	13	112	111
NORTH PLATTE	32	121	104

# Little Snake River Basin

## Snow

Currently, snow water equivalent (SWE) in the Little Snake River drainage is 120% of average (147% of last year). For more information see Basin Summary of Snow Courses at beginning of this report.



## Precipitation

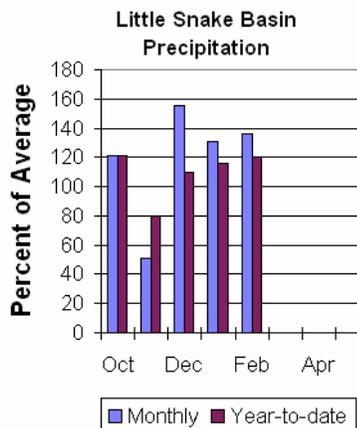
Precipitation across the basin was below average this past month. Last Month's precipitation was 136% of average (113% of last year) for the 5 reporting stations. Last month's precipitation ranged from 98-188% of average. The Little Snake River basin water-year-to-date precipitation is currently 120% of average (135% of last year). Year-to-date percentages range from 116-128% of average.

## Reservoir

High Savery Dam - Pending

## Streamflow

The 50% exceedance forecast for the Little Snake River drainage is expected to be above average this year. Stream yields are based on the 50% exceedance forecast for the April through July period. The Little Snake River near Slater should yield around 192,000 ac-ft (121% of average). The Little Snake River near Dixon is estimated to yield around 410,000 ac-ft (124% of average). See the following table for more detailed information on projected runoff.



**LITTLE SNAKE RIVER BASIN**

Streamflow Forecasts - March 1, 2008

```

=====
<=== Drier === Future Conditions === Wetter ===>
Forecast Pt |===== Chance of Exceeding * =====|
Forecast    | 90%    70%    | 50%    | 30%    10%    | 30 Yr Avg
Period      |(1000AF) (1000AF) |(1000AF) (% AVG.)|(1000AF) (1000AF)| (1000AF)
=====
Little Snake River nr Slater
APR-JUL     142    171    192    121    215    250    159

Little Snake River nr Dixon
APR-JUL     280    355    410    124    470    565    330
    
```

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (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**

Watershed Snowpack Analysis - March 1, 2008

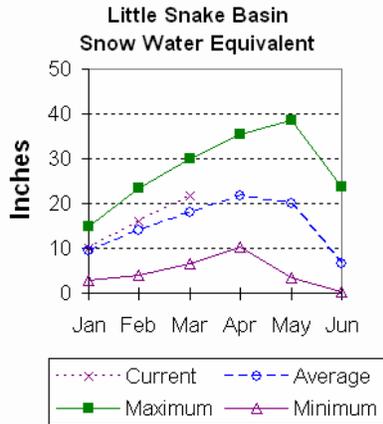
```

=====
Watershed                Number of          This Year as Percent of
                          Data Sites        Last Year          Average
=====
LITTLE SNAKE RIVER      8                  147                120
=====
    
```

# Upper Green River Basin

## Snow

Snow water equivalent (SWE) is below average in the Upper Green River drainage this year. The Green River Basin SWE above Warren Bridge is at 84% (121% of last year). SWE on the west side of the Upper Green River Basin is about 89% of average (121% of last year). Newfork River Basin SWE is now about 80% of average (115% of last year). Big Sandy-Eden Valley Basin is at 78% or 114% of last year. SWE in the Green River Basin above Fontenelle Reservoir is about 87% of average (120% of last year). For more information see the Basin Summary of Snow Courses at the beginning of this report.



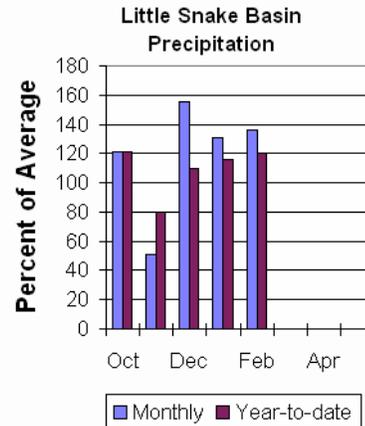
## Precipitation

The 12 reporting precipitation sites in the basin were 103% of average last month (120% of last year). Last month's precipitation varied from 77-128% of average. Water year-to-date precipitation is about 97% of average (119% of last year). Year to date percentage of average ranges from 81-133% for the reporting stations.

## Reservoir

Storage in Big Sandy Reservoir is 11,100 ac-ft or 29% of capacity. This

is 58% of average. Eden Reservoir - No Report. Fontenelle Reservoir is 111,400 ac-ft or 32% of capacity; 71% of average. This is 70% of average for the Upper Green River basin. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



## Streamflow

The 50% exceedance forecasts for the April through July runoff period in the Upper Green River Basin are forecast below average. The yield on the Green River at Warren Bridge is around 225,000 ac-ft (85% of average). Pine Creek above Fremont Lake is 90,000 ac-ft (87% of average). New Fork River near Big Piney is 315,000 ac-ft (80% of average). Fontenelle Reservoir Inflow is estimated to be 665,000 ac-ft (77% of average), and Big Sandy near Farson is expected to be around 48,000 ac-ft (83% of average). See the following table for more detailed information on projected runoff.

**UPPER GREEN RIVER BASIN**

Streamflow Forecasts - March 1, 2008

```

=====
<=== Drier === Future Conditions === Wetter ===>
Forecast Pt |===== Chance of Exceeding * =====|
Forecast    | 90%    70%    | 50%    | 30%    10%    | 30 Yr Avg
Period      |(1000AF) (1000AF) |(1000AF) (% AVG.)|(1000AF) (1000AF)| (1000AF)
=====
Green River at Warren Bridge
APR-JUL    177    205    225    85    245    280    265

Pine Creek abv Fremont Lake
APR-JUL    75     84     90     87     96    106    104

New Fork River nr Big Piney
APR-JUL    220    275    315    80    360    425    395

Fontenelle Reservoir Inflow
APR-JUL    425    560    665    77    775    955    860

Big Sandy River nr Farson
APR-JUL    34     42     48     83     55     65     58
    
```

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (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**

Reservoir Storage (1000AF) End of February

```

=====
Usable ***** Usable Storage *****
Capacity This Year Last Year Average
Reservoir
=====
BIG SANDY          38.3      11.1      14.2      19.1
EDEN                NO REPORT
FONTENELLE        344.8     111.4     126.7     156.1
=====
    
```

**UPPER GREEN RIVER BASIN**

Watershed Snowpack Analysis - March 1, 2008

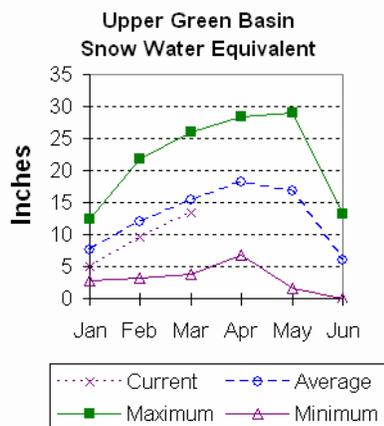
```

=====
Number of This Year as Percent of
Data Sites Last Year Average
Watershed
=====
GREEN above Warren Bridge      4      119      84
UPPER GREEN (West Side)        7      121      89
NEWFORK RIVER                   3      115      80
BIG SANDY/EDEN VALLEY           2      114      78
GREEN above Fontenelle         14     120      87
=====
    
```

## Lower Green River Basin

### Snow

SWE in the Hams Fork Basin is 88% of average (116% of last year). Blacks Fork Basin SWE is currently 112% of average (145% of last year). The Henrys Fork drainage is at 102% of average (106% of last year). SWE in the Green River Basin above Flaming Gorge is 91% of average (122% of last year). For more information see Basin Summary of Snow Courses at beginning of this report.



this is 71% of average (88% of last year). Flaming Gorge is currently storing 3,021,000 ac-ft; this is 103% of average (97% of last year). Viva Naughton is storing 28,100 ac-ft or 66% of capacity: this is 97% of average. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.

### Streamflow

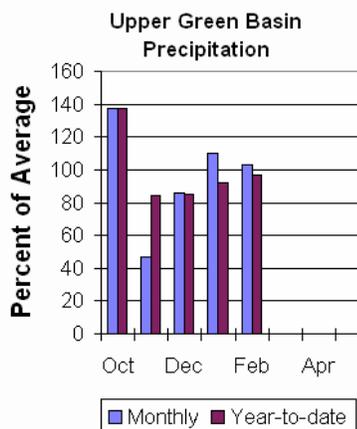
The 50% exceedance forecasts for the April through July runoff period in the Lower Green River Basin are forecast below average. The Green River near Green River is forecast to yield about 670,000 ac-ft (77% of average). The Blacks Fork near Robertson is forecast to yield 85,000 ac-ft (90% of average). East Fork of Smiths Fork near Robertson is forecast to yield 25,000 ac-ft (86% of average). Hams Fork below Pole Creek near Frontier is 46,000 ac-ft (71% of average). The Hams Fork Inflow to Viva Naughton Reservoir is 60,000 ac-ft (67% of average). The Flaming Gorge Reservoir inflow will be about 840,000 ac-ft (71% of average). See the following table for more detailed information on projected runoff.

### Precipitation

Precipitation was above average for the 4 reporting stations during last month at 105% of average or 202% of last year. Precipitation ranged from 95-202% of average for the month. The basin year-to-date precipitation is currently 82% of average (109% of last year). Year-to-date percentages range from 74-84% of average.

### Reservoirs

Fontenelle Reservoir is currently storing 111,400 ac-ft;



**LOWER GREEN RIVER BASIN**

Streamflow Forecasts - March 1, 2008

```

=====
<=== Drier === Future Conditions === Wetter ===>
Forecast Pt |==== Chance of Exceeding *====|
Forecast | 90% 70% | 50% | 30% 10% | 30 Yr Avg
Period | (1000AF) (1000AF) | (1000AF) (% AVG.) | (1000AF) (1000AF) | (1000AF)
=====
Green River nr Green River, WY (2)
APR-JUL 430 565 670 77 780 960 875

Blacks Fork nr Robertson
APR-JUL 58 74 85 90 97 117 95

EF of Smiths Fork nr Robertson
APR-JUL 15.8 21 25 86 29 36 29

Hams Fk blw Pole Ck nr Frontier
APR-JUL 29 39 46 71 54 67 65

Hams Fork Inf to Viva Naughton Res
APR-JUL 35 49 60 67 72 91 89

Flaming Gorge Reservoir Inflow (2)
APR-JUL 480 680 840 71 1020 1300 1190

```

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (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.

**LOWER GREEN RIVER BASIN**

Reservoir Storage (1000AF) End of February

```

=====
Usable ***** Usable Storage *****
Reservoir Capacity This Year Last Year Average
=====
FONTENELLE 344.8 111.4 126.7 156.1
FLAMING GORGE 3749.0 3110.0 3034.0 2919.0
VIVA NAUGHTON RES 42.4 28.1 32.8 29.1
=====

```

**LOWER GREEN RIVER BASIN**

Watershed Snowpack Analysis - March 1, 2008

```

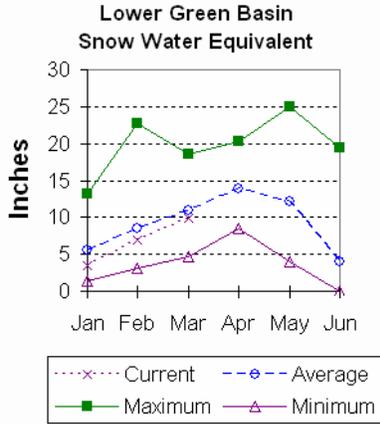
=====
Number of This Year as Percent of
Watershed Data Sites Last Year Average
=====
HAMS FORK RIVER 4 116 88
BLACKS FORK 5 66 77
HENRYS FORK 3 99 96
GREEN above Flaming Gorge 26 106 85
=====

```

# Upper Bear River Basin

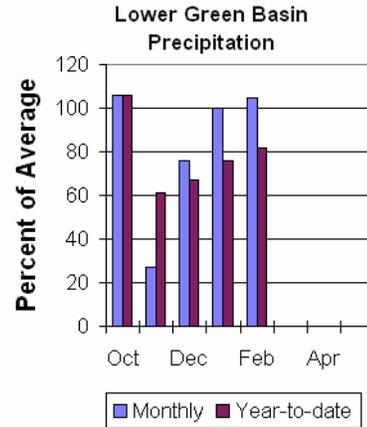
## Snow

Snow water equivalent (SWE) in the Upper Bear River Basin in Utah is estimated to be 109% of average; that is about 132% of last year at this time. SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is estimated at 89% of average (115% of last year). Bear River Basin SWE, above the Idaho State line, is 96% of average and 126% of last year. See the Basin Summary of Snow Course Data at the beginning of this report for more detailed information.



## Precipitation

Precipitation for last month was 109% of average for the 2 reporting stations; this is 109% of the precipitation received last year. The year-to-date precipitation, for the basin, is 85% of average; this is 110% of



last year's amount.

## Reservoir

Storage, in Woodruff Narrows reservoir, is about 26,000 ac-ft (94% of average). Current reservoir storage is about 45% of capacity. Reservoir storage last year at this time was 48,200 ac-ft at this time.

## Streamflow

The following 50% exceedance forecasts are for the April through September period. The Bear River near the Utah-Wyoming State Line is 138,000 ac-ft (110% of average). The Bear River above Reservoir near Woodruff is 154,000 ac-ft (109% of average). The Smiths Fork River near Border is 108,000 ac-ft (89% of average). See the following table for more detailed information on projected runoff.

**UPPER BEAR RIVER BASIN**

Streamflow Forecasts - March 1, 2008

```

=====
<=== Drier === Future Conditions === Wetter ===>
Forecast Pt |==== Chance of Exceeding *====|
Forecast    | 90%   70%   | 50%   | 30%   10%   | 30 Yr Avg
Period      |(1000AF) (1000AF) |(1000AF) (% AVG.) |(1000AF) (1000AF) |(1000AF)
=====
Bear River nr UT-WY State Line
APR-JUL      96    113    125    111    137    154    113
APR-SEP      105   124    138    110    152    171    125

Bear River ab Reservoir nr Woodruff
APR-JUL      98    126    145    107    164    192    136
APR-SEP      106   134    154    109    174    200    142

Smiths Fork nr Border
APR-JUL      65     79     88     85     97    111    103
APR-SEP      82     98    108     89    118    134    121
=====

```

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 base period.

- (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**

Reservoir Storage (1000AF) End of February

```

=====
Usable ***** Usable Storage *****
Capacity This Year Last Year Average
=====
WOODRUFF NARROWS      57.3      48.2      35.0      27.6
=====

```

**UPPER BEAR RIVER BASIN**

Watershed Snowpack Analysis - March 1, 2008

```

=====
Number of This Year as Percent of
Data Sites Last Year Average
=====
UPPER BEAR RIVER in Utah      7      72      82
SMITHS & THOMAS FORKS        4     115      89
BEAR RIVER abv ID line       9      85      82
NORTHWEST                    75     126      99
NORTHEAST                    23     115      99
SOUTHEAST                    36     127     107
SOUTHWEST                    35     115      95
=====

```

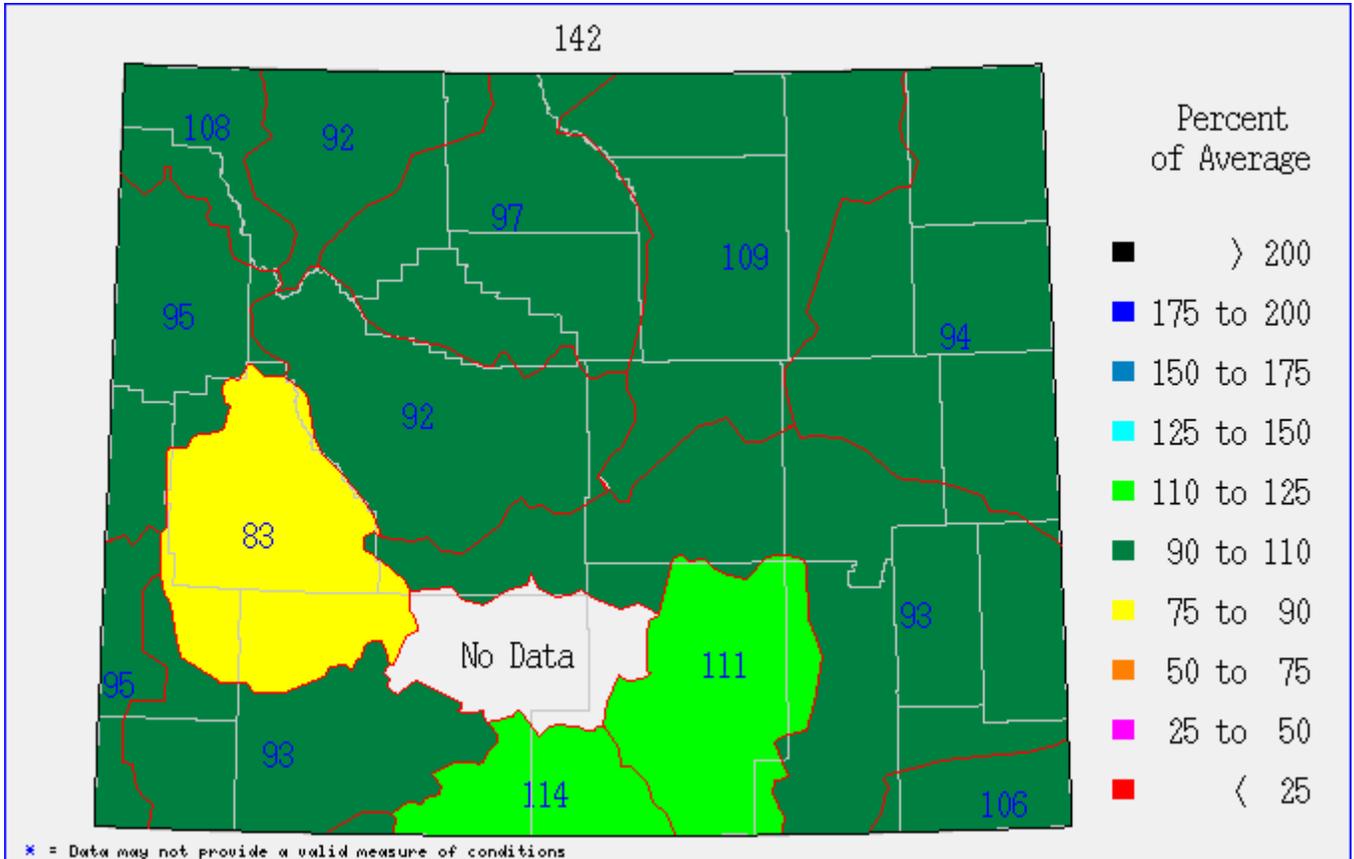
Issued by

Arlen Lancaster, Chief  
U.S. Department of Agriculture  
Natural Resources Conservation Service  
Washington D.C.

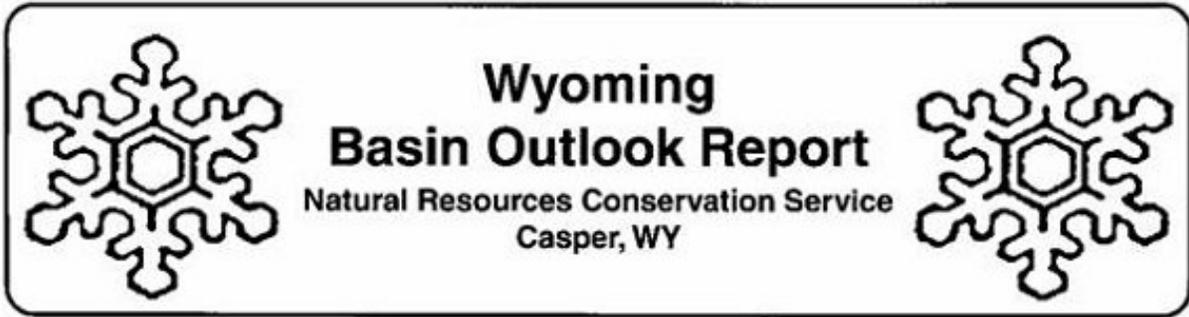
Released by

J Xavier Montoya  
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As of March 10<sup>th</sup>.







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