United States Department of Agriculture

Natural Resources Conservation Service

Wyoming Basin Outlook Report January 1, 2008

Basin Outlook Reports
And
Federal - State - Private
Cooperative Snow Surveys

For more water supply and resource management information, contact:

Lee Hackleman
Water Supply Specialist
100 East "B" Street
Casper, WY 82601
(307) 233-6744

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.

Wyoming Water Supply Outlook Report

General

Generally, the snow water equivalent (SWE) across Wyoming is slightly below average for this time of the year. Storms have covered Wyoming with snow, sporadically so far. SWE for the State of Wyoming as a whole is 87% of average for early January. Precipitation for last month in the basins varied from 70% of average to 155% of average for the State. Year-to-date precipitation is also below average for the year and varies from 68-132% of average in the basins. Forecasted runoff varies from 59-102% of average across Wyoming. Basin reservoir levels for Wyoming vary from 3-193% of average for an overall average of 88%.

Snowpack

Snow water equivalent (SWE), across Wyoming is below average for this time of year at 87%. SWE in the NW portion of Wyoming is now about 91% of average (114% of last year). NE Wyoming SWE is currently about 90% of average (118% of last year). The SE portion of Wyoming SWE is currently about 92% of average (106% of last year). The SW portion of Wyoming SWE is about 76% of average (95% of last year).

Precipitation

Last month's precipitation was above average across most of Wyoming. The Upper Bear River Basin had the lowest precipitation for the month at 70% of average. The Little Snake River Basin had the highest precipitation amount at 155% 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	-05%	Upper North Platte River	+42%
Yellowstone & Madison	+26%	Lower North Platte	+46%
Wind River	+33%	Little Snake River	+55%
Big Horn	+08%	Upper Green River	-14%
Shoshone & Clarks Fork	+09%	Lower Green River	-24%
Powder & Tongue River	+11%	Upper Bear River	-30%
Belle Fourche & Cheyenne	+02%		

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 88% (varying from 50-108% of average). The Snake River and Upper Yellowstone & Madison River Basins are expected to yield about 91 and 100% of average, respectively -- 82-107% of average for the various forecast points in the basins. Yields from the Wind and Bighorn River Basins are expected to be about 66 and 67% of average, respectively -- varying from 58-107% of average in the basins. Yields from the Shoshone and Clarks Fork River Basins of Wyoming are expected to yield about 102% of average -- varying from 101-106% of average. Yields from the Powder & Tongue River Basins are expected to be about 86% of average -- varying from 73-90% of average. Yields for the Belle Fourche & Cheyenne River Basins are expected to be about 59% of average. Yields for the Upper and Lower North Platte River of Wyoming are expected to be about

100 and 94% of average, respectively -- varying from 50-108% of average. Yields for the Little Snake, Green River, and Little Bear of Wyoming are expected to be 102, 74 and 85% of average respectively -- yield estimates vary from 70-102% of average.

Reservoirs

Reservoirs on the North Platte River are well below average at 46% of average. Two reservoirs did not report. Most of the reservoirs in the northeast are below average in storage at 58%. Reservoirs in the Wind River Basin are below average at 63%. Reservoirs on the Big Horn are below average at 85%. The Buffalo Bill Reservoir on the Shoshone is above average at 106%. Reservoirs on the Green River are below average at 96%. Reservoir storage varies across the state at this time, however, reservoir storage is at 77% of average for the entire state. 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
WYOMING AND SURROUNDING STATES					
ALCOVA	85	85	84	101	100
ANGOSTURA	35	32	79	45	111
BELLE FOURCHE	39	34	51	77	116
BIG SANDY	24	35	48	51	69
BIGHORN LAKE	67	58	67	100	116
BOYSEN	64	73	104	61	87
BUFFALO BILL	69	69	65	106	99
BULL LAKE	37	38	57	65	96
DEERFIELD	78	76	81	97	103
EDEN			NO REPORT		
ENNIS LAKE	67	69	77	87	97
FLAMING GORGE	81	83	81	100	97
FONTENELLE	43	53	61	70	81
GLENDO	42	46	56	75	91
GRASSY LAKE	86	78	76	112	110
GUERNSEY	23	24	16	149	98
HEBGEN LAKE	75	80	71	105	93
JACKSON LAKE	36	75	57	64	48
KEYHOLE	30	28	52	57	108
PACTOLA	49	57	83	59	87
PALISADES	31	67	74	41	46
PATHFINDER	20	23	63	31	85
PILOT BUTTE	79	2	64	123	4150
SEMINOE	20	27	62	33	75
SHADEHILL	25	38	62	40	65
TONGUE RIVER			NO REPORT		
VIVA NAUGHTON RES	67	80	75	90	84
WHEATLAND #2	26	21	43	60	121
WOODRUFF NARROWS	42	79	41	102	53
TOTAL OF 27 RESERVOIRS	54	62	71	77	87

Raw KAF Totals Current= 7160 Last Year= 8202 Average= 9347 Capacity= 13209

B A S I N S U M M A R Y O F
S N O W C O U R S E D A T A

JANUARY 2008

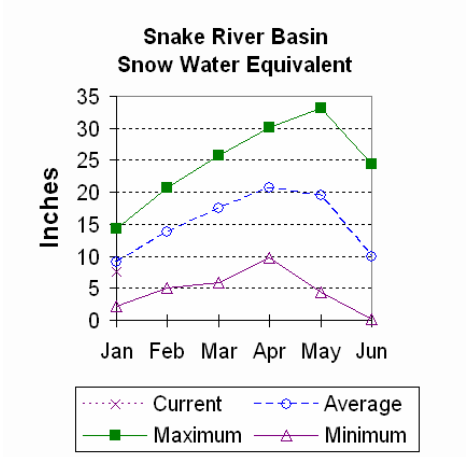
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
WYOMING Snow Course and SNOTEL Stations						
BALD MOUNTAIN SNOTEL	9380	1/01/08	37	7.0	8.8	9.7
BASE CAMP SNOTEL	7030	1/01/08	---	7.4	7.1	8.2
BATTLE MTN. SNOTEL	7440	1/01/08	29	5.4	2.3	4.1
BEARTOOTH LK. SNOTEL	9280	1/01/08	55	13.1	9.0	11.5
BEAR TRAP SNOTEL	8200	1/01/08	28	4.3	2.3	2.6
BIG GOOSE SNOTEL	7760	1/01/08	19	4.0	2.5	4.4
BIG SANDY SNOTEL	9080	1/01/08	33	4.8	5.7	6.9
BLACKWATER SNOTEL	9780	1/01/08	47	12.5	10.4	12.0
BLIND BULL SNOTEL	8900	1/01/08	45	9.1	10.3	13.2
BLIND PARK SNOTEL	6870	1/01/08	16	2.0	.9	3.5
BONE SPGS. SNOTEL	9350	1/01/08	33	6.9	8.1	7.8
BROOKLYN LK. SNOTEL	10220	1/01/08	---	9.0	9.2	10.8
BURGESS JCT. SNOTEL	7880	1/01/08	24	4.7	4.2	5.5
BURROUGHS CRK SNOTEL	8750	1/01/08	38	8.3	6.2	6.7
CANYON SNOTEL	8090	1/01/08	32	7.2	5.3	6.1
CASPER MTN. SNOTEL	7850	1/01/08	24	4.8	4.7	6.9
CHALK CK #1 SNOTEL	9100	1/01/08	39	8.2	10.0	10.1
CHALK CK #2 SNOTEL	8200	1/01/08	24	4.3	6.6	6.7
CINNABAR PARK SNOTEL	9690	1/01/08	43	9.2	10.0	7.2
CLOUD PEAK SNOTEL	9850	1/01/08	30	6.4	4.6	5.7
COLE CANYON SNOTEL	5910	1/01/08	12	1.6	1.1	3.3
COLD SPRINGS SNOTEL	9630	1/01/08	13	2.3	2.7	4.6
COTTONWOOD CR SNOTEL	7700	1/01/08	---	7.8	8.8	9.7
CROW CREEK SNOTEL	8830	1/01/08	17	4.4	4.3	3.4
DARBY CANYON	8250	1/02/08	39	9.4	--	10.5
DEER PARK SNOTEL	9700	1/01/08	25	5.4	4.4	6.7
DITCH CREEK	6870	12/26/07	7	.8	.7	--
DIVIDE PEAK SNOTEL	8860	1/01/08	41	10.3	9.1	9.2
DOME LAKE SNOTEL	8880	1/01/08	27	4.7	4.3	6.1
EAST RIM DIV SNOTEL	7930	1/01/08	---	2.3	3.8	5.9
ELBO RANCH	7100	1/02/08	15	2.8	3.6	--
ELKHART PARK SNOTEL	9400	1/01/08	---	4.4	4.4	6.3
EVENING STAR SNOTEL	9200	1/01/08	55	14.1	11.0	13.7
GRAND TARGHEE SNOTEL	9260	1/01/08	75	21.3	19.7	--
GRANITE CRK SNOTEL	6770	1/01/08	---	5.4	6.2	7.6
GRASSY LAKE SNOTEL	7270	1/01/08	58	12.1	11.7	14.7
GRAVE SPRINGS SNOTEL	8550	1/01/08	22	3.8	2.8	4.0
GROS VENTRE SNOTEL	8750	1/01/08	33	6.5	5.7	6.9
HANSEN S.M. SNOTEL	8360	1/01/08	14	3.2	1.1	3.3
HAMS FORK SNOTEL	7840	1/01/08	---	2.8	4.2	5.5
HOBBS PARK SNOTEL	10100	1/01/08	24	5.0	4.2	7.6
INDIAN CREEK SNOTEL	9430	1/01/08	---	7.6	9.4	12.5
JACKPINE CREEK	7350	1/02/08	34	8.0	--	9.3
KELLEY R.S. SNOTEL	8180	1/01/08	---	4.8	6.1	7.6
KENDALL R.S. SNOTEL	7740	1/01/08	21	3.9	5.1	6.7
KIRWIN SNOTEL	9550	1/01/08	31	6.8	4.5	5.9
LAKE CAMP	7780	12/31/07	21	4.4	3.9	4.2
LA PRELE SNOTEL	8380	1/01/08	18	2.2	4.1	5.3
LEWIS LAKE SNOTEL	7850	1/01/08	57	13.7	11.8	14.8
LITTLE BEAR RUN	6240	12/26/07	8	1.2	.0	1.7
LITTLE WARM SNOTEL	9370	1/01/08	22	4.3	4.1	5.3
LOOMIS PARK SNOTEL	8240	1/01/08	---	5.6	5.4	8.0
LUPINE CREEK	7380	12/31/07	12	.9	3.4	4.0
MALLO	6420	12/26/07	13	1.5	1.6	2.9
MARQUETTE SNOTEL	8760	1/01/08	13	1.6	.7	5.0
MIDDLE POWDER SNOTEL	7760	1/01/08	21	4.4	3.9	5.5
NEW FORK SNOTEL	8340	1/01/08	19	3.2	4.3	5.4

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
NORRIS BASIN	7500	12/27/07	20	5.2	4.3	5.1
NORTH FRENCH SNOTEL	10130	1/01/08	58	12.8	11.7	13.4
NORTH RAPID CK SNTL	6130	1/01/08	13	2.8	2.0	3.3
OLD BATTLE SNOTEL	9920	1/01/08	60	13.8	12.4	14.6
OLD FAITHFUL	7400	12/31/07	23	4.4	5.3	6.0
OWL CREEK SNOTEL	8980	1/01/08	16	2.6	2.8	2.7
PARKERS PEAK SNOTEL	9400	1/01/08	53	12.9	9.1	10.6
PHILLIPS BNCH SNOTEL	8200	1/01/08	48	10.3	9.2	12.6
POWDER RVR.PASS SNTL	9480	1/01/08	28	5.3	3.8	5.3
RENO HILL SNOTEL	8500	1/01/08	22	5.5	6.0	6.6
SAGE CK BASIN SNTL	7850	1/01/08	36	7.5	6.6	5.3
SALT RIVER SNOTEL	7600	1/01/08	---	3.4	5.4	5.4
SAND LAKE SNOTEL	10050	1/01/08	52	12.1	12.2	14.9
SANDSTONE RS SNOTEL	8150	1/01/08	41	6.3	4.0	5.3
SHELL CREEK SNOTEL	9580	1/01/08	37	7.7	7.5	7.3
SNAKE RV STA SNOTEL	6920	1/01/08	32	6.0	6.9	7.9
SNIDER BASIN SNOTEL	8060	1/01/08	22	3.4	5.1	6.9
SOUTH BRUSH SNOTEL	8440	1/01/08	26	5.8	5.6	5.1
SOUTH PASS SNOTEL	9040	1/01/08	29	4.8	5.4	8.2
SPRING CRK. SNOTEL	9000	1/01/08	44	7.8	9.2	12.5
ST LAWRENCE ALT SNTL	8620	1/01/08	15	2.4	2.0	3.8
SUCKER CREEK SNOTEL	8880	1/01/08	28	5.2	5.2	5.2
SYLVAN LAKE SNOTEL	8420	1/01/08	39	9.4	7.4	10.5
SYLVAN ROAD SNOTEL	7120	1/01/08	22	4.6	4.3	6.2
THUMB DIVIDE SNOTEL	7980	1/01/08	27	6.1	5.6	7.6
TIE CREEK SNOTEL	6870	1/01/08	13	2.1	1.0	2.5
TIMBER CREEK SNOTEL	7950	1/01/08	10	1.6	.7	3.0
TOGWOTEE PASS SNOTEL	9580	1/01/08	57	13.2	9.4	11.7
TOWNSEND CRK SNOTEL	8700	1/01/08	17	2.8	2.8	4.4
TRIPLE PEAK SNOTEL	8500	1/01/08	40	8.4	9.0	11.9
TWO OCEAN SNOTEL	9240	1/01/08	68	18.3	11.8	13.5
WEBBER SPRING SNOTEL	9250	1/01/08	50	10.4	9.2	11.5
WHISKEY PARK SNOTEL	8950	1/01/08	58	11.0	8.4	11.1
WILLOW CREEK SNOTEL	8450	1/01/08	---	10.5	11.0	14.3
WINDY PEAK SNOTEL	7900	1/01/08	15	3.0	4.0	3.5
WOLVERINE SNOTEL	7650	1/01/08	19	4.2	4.5	5.8
YOUNTS PEAK SNOTEL	8350	1/01/08	33	8.0	5.2	7.9

Snake River Basin

Snow

The Snake River Basin snow water equivalent (SWE) is below average. SWE in the Snake River Basin above Jackson Lake is 96% of average (118% of last year). Pacific Creek Basin SWE is 118% of average (136% of last year). Gros Ventre River Basin SWE is 106% of average (110% of last year). SWE in the Hoback River drainage is 69% of average (92% of last year). SWE in the Greys River drainage is 71% of average (90% of last year). In the Salt River area SWE is 74% of average (86% of last year). SWE in the Snake River Basin above Palisades is 83% of average (103% of last year). See the Basin Summary of Snow Courses at the beginning of this report for a detailed listing of snow course information.

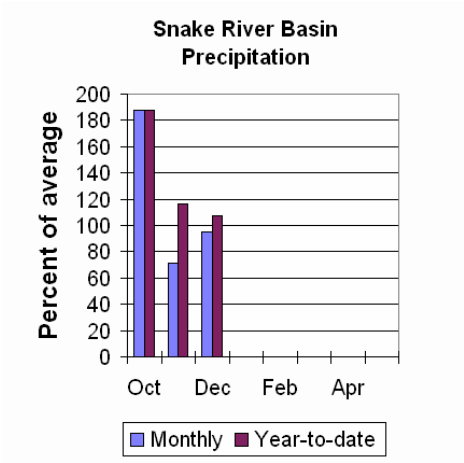


Precipitation

Precipitation across the basin was below average last month. Monthly precipitation for the basin was 95% of average (120% of last year). Last month's percentages range from 41-213% of average. Water-year-to-date precipitation is 107% of average for the Snake River Basin (109% of last year). Year-to-date percentages range from 64-147% of average.

Reservoir

Current reservoir storage is 49% of average for the three storage reservoirs in the basin. Grassy Lake storage is about112% of average (13,000 ac-ft compared to 11,800 last year). Jackson Lake storage is 64% of average (306,300 ac-ft compared to 635,700 ac-ft last year). Palisades Reservoir storage is about 41% of average (428,200 ac-ft compared to 933,700 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 still below average for the basin. The Snake near Moran is 830,000 ac-ft (92% of average). Snake above reservoir near Alpine is 2,600,000 ac-ft (95% of average). The Snake near Irwin is 3,550,000 ac-ft (92% of average). The Snake near Heise is 3,770,000 ac-ft (91% of average). Pacific Creek at Moran is 190,000 ac-ft (107% of average). Greys River above Palisades Reservoir is 335,000 ac-ft (85% of average). Salt River near Etna is 345,000 ac-ft (82% of average). See the following page for detailed runoff volumes.

SNAKE RIVER BASIN
Streamflow Forecasts - January 1, 2008

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions Chance of Exceeding * 50% (1000AF)	50% (% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
Snake R Nr Moran							
APR-JUL	450	645	750	92	815	1010	815
APR-SEP	505	720	830	92	910	1120	905
Snake R Nr Alpine							
APR-JUL	1373	1990	2270	96	2550	3167	2370
APR-SEP	1584	2283	2600	95	2917	3616	2730
Snake R nr Irwin							
APR-JUL	2120	2780	3080	93	3380	4040	3330
APR-SEP	2470	3210	3550	92	3890	4630	3870
Snake R nr Heise							
APR-JUL	2430	2910	3230	91	3550	4030	3560
APR-SEP	2860	3400	3770	91	4140	4680	4160
Pacific Ck At Moran							
APR-JUL	119	155	180	105	205	240	171
APR-SEP	128	165	190	107	215	252	178
Greys R Nr Alpine							
APR-JUL	171	230	285	84	310	370	340
APR-SEP	199	270	335	85	360	430	395
Salt R Nr Etna							
APR-JUL	89	179	280	82	300	390	340
APR-SEP	169	275	345	82	415	520	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 December

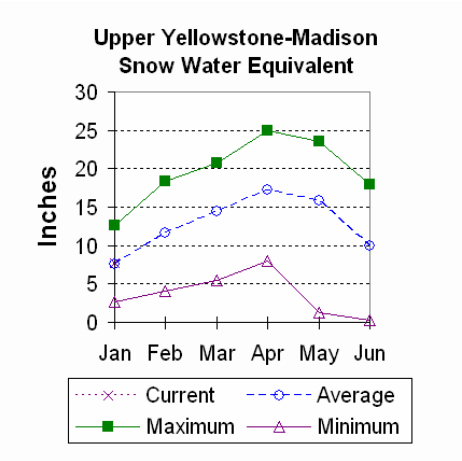
Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
GRASSY LAKE	15.2	13.0	11.8	11.6
JACKSON LAKE	847.0	306.3	635.7	481.7
PALISADES	1400.0	428.2	933.7	1036.5

SNAKE RIVER BASIN
Watershed Snowpack Analysis - January 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SNAKE above Jackson Lake	9	115	92
PACIFIC CREEK	3	126	109
GROS VENTRE RIVER	2	110	106
HOBACK RIVER	5	92	69
GREYS RIVER	4	90	71
SALT RIVER	3	86	74
SNAKE above Palisades	21	104	84

Upper Yellowstone & Madison River Basins

Snow



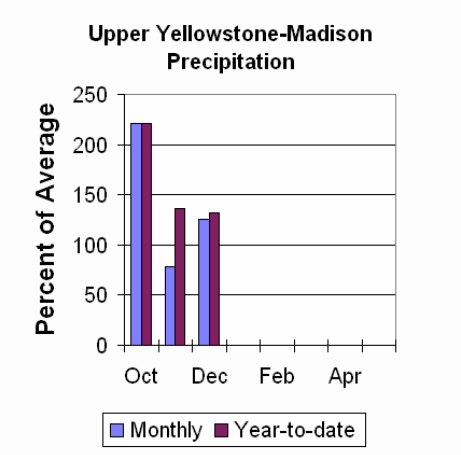
Snowfall in these basins has been good so far this year and the SWE in both basins is slightly above average for this month. Snow water equivalent (SWE) is about 99% of average (122% of last year) in the Madison drainage. SWE in the Yellowstone drainage is about 105% of average (125% of last year at 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 126% of average 144% of last year) for the 8 reporting stations -- percentages range from 81-245% of average. Water-year-to-date precipitation is about 132% of average (126% of last year's amount). Year to date percentage ranges from 109-164%.

Reservoir

Ennis Lake is storing about 27,400 ac-ft of water (67% of capacity, 87% of average or 97% of last year's volume). Hebgen Lake is storing about 282,200 ac-ft of water (75% of capacity, 105% of average or 93% 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 830,000 ac-ft (103% of average). Yellowstone at Corwin Springs will yield around 1,970,000 ac-ft (100% of average). Yellowstone near Livingston will yield around 2,270,000 ac-ft (100% of average). Hebgen Reservoir inflow is 470,000 ac-ft (94% of average). See the following page for detailed runoff volumes.

UPPER YELLOWSTONE & MADISON RIVER BASINS
Streamflow Forecasts - January 1, 2008

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions: Chance of Exceeding * 50% (1000AF)	50% (% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
YELLOWSTONE at Lake Outlet							
APR-JUL	475	560	620	105	680	765	590
APR-SEP	645	755	830	103	905	1010	805
YELLOWSTONE RIVER at Corwin Springs							
APR-JUL	1370	1550	1670	101	1790	1970	1650
APR-SEP	1610	1820	1970	100	2120	2330	1970
YELLOWSTONE RIVER near Livingston							
APR-JUL	1560	1770	1910	101	2050	2260	1900
APR-SEP	1860	2100	2270	100	2440	2680	2280
HEBGEN Reservoir Inflow							
APR-JUL	285	335	370	95	410	465	390
APR-SEP	365	425	470	94	515	590	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 December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
ENNIS LAKE		NO REPORT		
HEBGEN LAKE		NO REPORT		

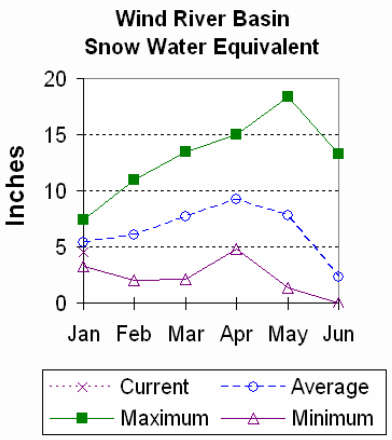
UPPER YELLOWSTONE & MADISON RIVER BASINS
Watershed Snowpack Analysis - January 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
MADISON RIVER in WY	8	122	99
YELLOWSTONE RIVER in WY	11	125	105

Wind River Basin

Snow

The Wind River Basin has below average snow water equivalent (SWE) for this time of the year. SWE in the Wind River above Dubois is 109% of average (119% of last year at this time). The Little Wind SWE is 65% of average water content (119% of last year), and the Popo Agie drainage SWE is about 67% of average (107% of last year). The Wind River Basin, above Boysen Reservoir SWE is about 84% of average (111% of last year). See the Basin Summary of Snow Course Data at the front of this report for details.

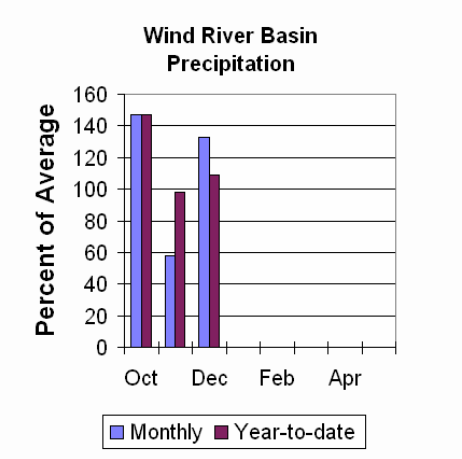


Precipitation

Last months precipitation in the basin varied from 100-500% of average. Precipitation, for the basin, was about 137% of average from the 13 reporting stations; that is about 187% of last year's amount. Water year-to-date precipitation is 109% of average and about 129% of last year at this time. Year-to-date percentages range from 83-174% of average.

Reservoirs

Current storage varies from 61-123% of average. Usable storage in Bull Lake is currently about 55,700 ac-ft (37% of capacity) - last year the reservoir was at 38% of capacity at this time. Boysen Reservoir is storing about 64% of capacity (379,400 ac-ft) – last year the reservoir was at 73% of capacity at this time. Pilot Butte is at 79% of capacity (24,900 ac-ft) – last year the reservoir was at 2% of capacity at this time. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



Streamflow

Water supply is estimated to be below average this year. The following values reflect the 50% exceedance forecasts for the April through September runoff period. Dinwoody Creek near Burris is 101,000 ac-ft (107% of average). The Wind River above Bull Lake Creek is 425,000 ac-ft (79% of average). Bull Lake Creek near Lenore is 142,000 ac-ft (78% of average). Wind River at Riverton will yield around 480,000 ac-ft (75% of average). Little Popo Agie River near Lander is around 35,000 ac-ft (66% of average). South Fork of Little Wind near Fort Washakie will yield around 61,000 ac-ft (73% of average). Little Wind River near Riverton will yield around 183,000 ac-ft (58% of average). Boysen Reservoir inflow will yield around 535,000 ac-ft (66% of average). See the following page for detailed runoff volumes.

WIND RIVER BASIN
Streamflow Forecasts - January 1, 2008

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions — Chance of Exceeding * — 50% (1000AF)	50% (% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
DINWOODY CREEK nr Burris							
APR-JUL	58	67	73	109	79	88	67
APR-SEP	82	93	101	107	109	120	94
WIND RIVER abv Bull Lake Cr (2)							
APR-JUL	185	280	345	79	410	505	435
APR-SEP	250	355	425	79	495	600	535
BULL LAKE CR near Lenore							
APR-JUL	82	102	117	79	133	158	148
APR-SEP	100	124	142	78	161	192	182
WIND RIVER at Riverton (2)							
APR-JUL	210	330	415	76	500	620	545
APR-SEP	240	385	480	75	575	720	640
LT POPO AGIE RIVER nr Lander							
APR-JUL	16.9	24	30	65	36	47	46
APR-SEP	21	29	35	66	42	53	53
SF LT WIND nr Fort Washakie							
APR-JUL	33	45	54	74	63	75	73
APR-SEP	36	51	61	73	71	86	84
LT WIND RIVER nr Riverton							
APR-JUL	66	110	165	59	220	300	280
APR-SEP	73	122	183	58	245	335	315
BOYSEN RESERVOIR Inflow (2)							
APR-JUL	69	310	475	66	640	880	717
APR-SEP	80	350	535	66	715	985	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 December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
BULL LAKE	151.8	55.7	57.8	86.3
BOYSEN	596.0	379.4	434.5	620.4
PILOT BUTTE	31.6	24.9	0.6	20.2

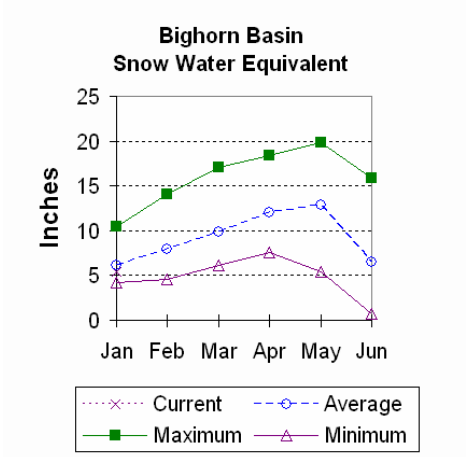
WIND RIVER BASIN
Watershed Snowpack Analysis - January 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
WIND RIVER above Dubios	3	119	109
LITTLE WIND	2	119	65
POPO AGIE	4	107	67
WIND above Boysen Resv	7	111	84

Bighorn River Basin

Snow

Snowpack in this basin is below average for this time of year. The Nowood River is at 90% of average (126% of last year). The Greybull River SWE is at 94% of average (162% of last year). Shell Creek SWE is 87% of average (89% of last year). The Bighorn River Basin SWE, as a whole, is currently 89% of average (106% of last year). For more information see Basin Summary of Snow Courses at beginning of report.

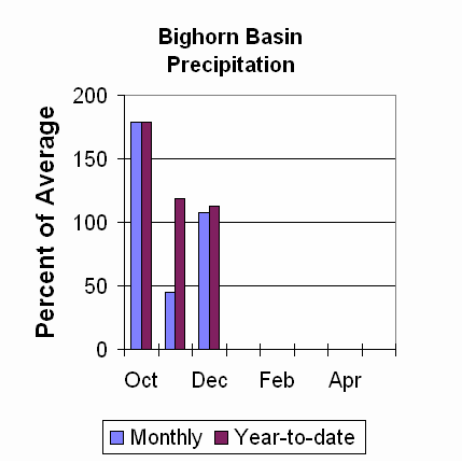


Precipitation

Last month's precipitation was 108% of average (184% of last year). Sites ranged from 50-307% of average for the month. Year-to-date precipitation is 113% of average; that is 137% of last year at this time. Year-to-date percentages, from the 15 reporting stations, range from 74-205%.

Reservoir

Boysen Reservoir is currently storing 379,400 ac-ft (61% of average). Bighorn Lake is now at 100% of average (915,000 ac-ft). Boysen is currently storing 87% of last year volume at this time and Big Horn Lake is storing 116% 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 535,000 ac-ft (66% of average); the Greybull River near Meeteetse should yield around 155,000 ac-ft (78% of average); Shell Creek near Shell should yield around 62,000 ac-ft (86% of average) and the Bighorn River at Kane should yield around 740,000 ac-ft (67% of average). See the following page for detailed runoff volumes.

BIGHORN RIVER BASIN
Streamflow Forecasts - January 1, 2008

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions === Wetter ===> Chance of Exceeding * 50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
BOYSEN RESERVOIR Inflow (2)							
APR-JUL	69	310	475	66	640	880	717
APR-SEP	80	350	535	66	715	985	809
GREYBULL RIVER nr Meeteetse							
APR-JUL	86	103	115	78	128	149	148
APR-SEP	115	138	155	78	173	200	200
SHELL CREEK nr Shell							
APR-JUL	37	46	51	85	56	65	60
APR-SEP	47	56	62	86	68	77	72
BIGHORN RIVER at Kane (2)							
APR-JUL	141	455	670	67	885	1200	1000
APR-SEP	157	505	740	67	975	1320	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 December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
BOYSEN	596.0	379.4	434.5	620.4
BIGHORN LAKE		NO REPORT		

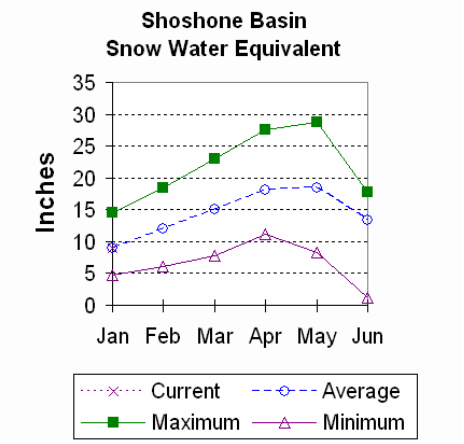
BIGHORN RIVER BASIN
Watershed Snowpack Analysis - January 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
NOWOOD RIVER	2	126	90
GREYBULL RIVER	2	162	94
SHELL CREEK	3	89	87
BIGHORN (Boysen-Bighorn)	7	106	89

Shoshone and Clarks Fork River Basin

Snow

Snowpack in these basins are about average for this time of year. Snow Water Equivalent (SWE) is 91% of average (129% of last year) in the Shoshone River Basin. The Clarks Fork River Basin SWE is 111% of average (130% of last year). For more information see the Basin Summary of Snow Course Data at the beginning of this report.

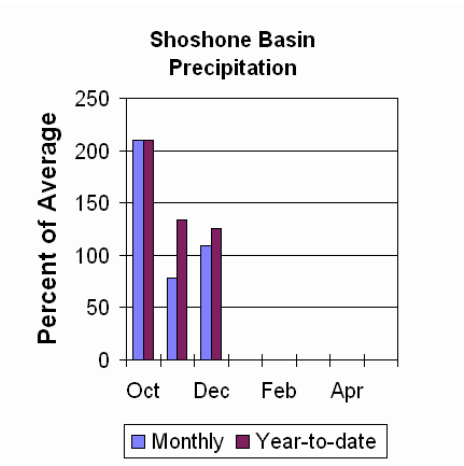


Precipitation

Precipitation for last month was 109% of average (107% of last year). Monthly percentages range from 46-167% of average. The basin year-to-date precipitation is now 126% of average (128% of last year). Year-to-date percentages range from 104-275% of average for the 13 reporting stations.

Reservoir

Current storage in Buffalo Bill Reservoir is about 106% of average (99% of last year's storage) – the reservoir is at about 69% of capacity. Currently, about 443,400 ac-ft are stored in the reservoir compared to 447,200 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 550,000 ac-ft (106% of average). The South Fork of the Shoshone River near Valley is 270,000 ac-ft (102% of average), and the South Fork above Buffalo Bill Reservoir runoff is 235,000 ac-ft (104% of average). The Buffalo Bill Reservoir inflow is expected to yield around 820,000 ac-ft (102% of average). The yield for the Clarks Fork of the Yellowstone near Belfry, Montana is expected to be around 600,000 ac-ft (101% of average). See the following page for detailed runoff volumes.

SHOSHONE & CLARKS FORK RIVER BASINS
Streamflow Forecasts - January 1, 2008

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions — Chance of Exceeding * — 50% (1000AF)	50% (% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
NF SHOSHONE RIVER at Wapiti							
APR-JUL	375	440	485	105	530	595	460
APR-SEP	435	505	550	106	595	665	520
SF SHOSHONE RIVER nr Valley							
APR-JUL	185	215	235	104	255	285	225
APR-SEP	210	245	270	102	295	330	265
SF SHOSHONE RIVER abv Buffalo Bill							
APR-JUL	150	195	225	105	255	300	215
APR-SEP	155	205	235	104	265	315	225
BUFFALO BILL DAM Inflow (2)							
APR-JUL	580	670	735	102	800	890	720
APR-SEP	655	755	820	102	885	985	805
CLARKS FORK RIVER nr Belfry							
APR-JUL	430	500	545	101	590	660	540
APR-SEP	475	550	600	101	650	725	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 December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
BUFFALO BILL	646.6	443.4	447.2	418.4

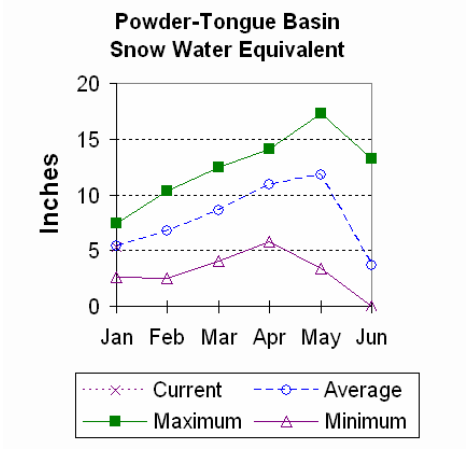
SHOSHONE & CLARKS FORK RIVER BASINS
Watershed Snowpack Analysis - January 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SHOSHONE RIVER	6	129	91
CLARKS FORK in WY	7	130	111

Powder and Tongue River Basins

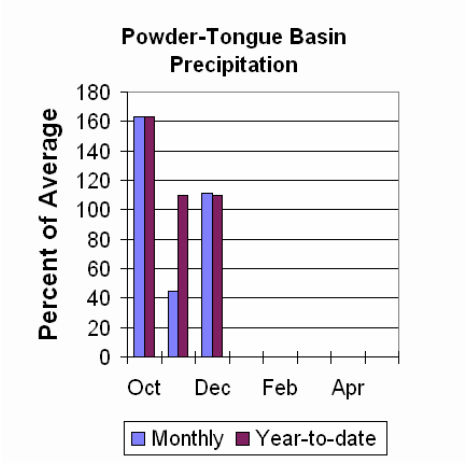
Snow

Snow water equivalent (SWE) in the Upper Tongue River drainage is 91% of average (108% of last year). The Goose Creek drainage is 65% of average and 76% of last year. SWE in the Clear Creek drainage is 107% of average and 168% of last year. Crazy Woman Creek drainage is 100% of average and 139% of last year. Upper Powder River drainage SWE is 104% of average and 140% of last year. Powder River basin SWE, in Wyoming is 105% of average and 150% of last year. For more information see Basin Summary of Snow Courses at beginning of report.



Precipitation

Last month's precipitation was 111% of average for the 12 reporting stations (190% of last year). Monthly percentages range from 25-236% of average. Year-to-date precipitation is 110% of average in the basin; this is 141% of last year at this time. Precipitation for the year ranges from 74-181% of average.



Reservoir

No Report

Streamflow

The following runoff values are the 50% exceedance forecasts for the April through September period. The yield for Tongue River near Dayton is 84,000 ac-ft (77% of average). Big Goose Creek near Sheridan is 54,000 ac-ft (90% of average). Little Goose Creek near Bighorn is 34,000 ac-ft (81% of average). The Tongue River Reservoir Inflow is 182,000 ac-ft (73% of average). The Middle Fork of the Powder River near Barnum is 14,900 ac-ft (80% of average). The North Fork of the Powder River near Hazelton should yield around 9,200 ac-ft (89% of average). Rock Creek near Buffalo will yield about 20,000 ac-ft (83% of average), and Piney Creek at Kearny should yield about 43,000 ac-ft (83% of average). The Powder River at Moorehead is 184,000 ac-ft (80% of average). The Powder River near Locate is 210,000 ac-ft (81% of average). See the following page for detailed runoff volumes.

POWDER & TONGUE RIVER BASINS
Streamflow Forecasts - January 1, 2008

Forecast Pt	<=== Drier ===		Future Conditions		=== Wetter ===>		
	==========		Chance of Exceeding *		==========		
Forecast Period	90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
TONGUE RIVER nr Dayton (2)							
APR-JUL	49	63	74	77	86	105	96
APR-SEP	57	72	84	77	97	116	109
BIG GOOSE CREEK nr Sheridan							
APR-JUL	29	38	46	89	54	67	52
APR-SEP	36	46	54	90	62	75	60
LITTLE GOOSE CREEK nr Big Horn							
APR-JUL	17.5	23	27	79	31	39	34
APR-SEP	24	30	34	81	39	46	42
TONGUE RIVER RESERVOIR Inflow (2)							
APR-JUL	83	126	161	73	200	265	220
APR-SEP	96	144	182	73	225	295	250
MIDDLE FORK POWDER nr Barnum							
APR-JUL	7.5	11.4	14.1	79	16.8	21	17.8
APR-SEP	8.0	12.1	14.9	80	17.7	22	18.7
NORTH FORK POWDER nr Hazelton							
APR-JUL	5.3	7.1	8.4	88	9.8	12.2	9.6
APR-SEP	6.0	7.8	9.2	89	10.7	13.1	10.4
ROCK CREEK nr Buffalo							
APR-JUL	9.7	13.5	16.5	83	19.8	25	19.9
APR-SEP	12.4	16.7	20	83	24	29	24
PINEY CREEK at Kearny							
APR-JUL	19.0	30	39	80	49	66	49
APR-SEP	22	34	43	83	53	71	52
POWDER RIVER at Moorehead							
APR-JUL	70	121	164	80	215	295	205
APR-SEP	86	140	184	80	235	320	230
POWDER RIVER nr Locate							
APR-JUL	54	135	190	81	245	325	235
APR-SEP	59	148	210	81	270	355	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 December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average

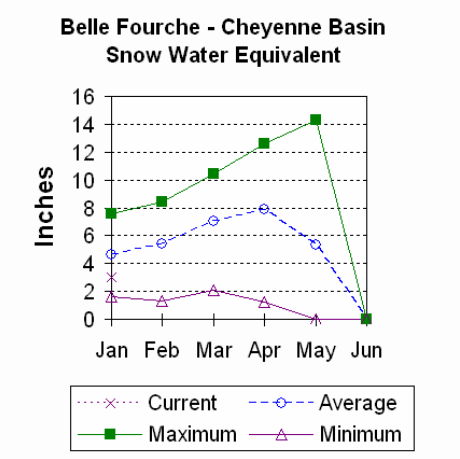
POWDER & TONGUE RIVER BASINS
Watershed Snowpack Analysis - January 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
UPPER TONGUE RIVER	7	108	91
GOOSE CREEK	2	128	83
CLEAR CREEK	2	168	107
CRAZY WOMAN CREEK	1	139	100
UPPER POWDER RIVER	3	140	104
POWDER RIVER in WY	5	150	105

Belle Fourche and Cheyenne River Basins

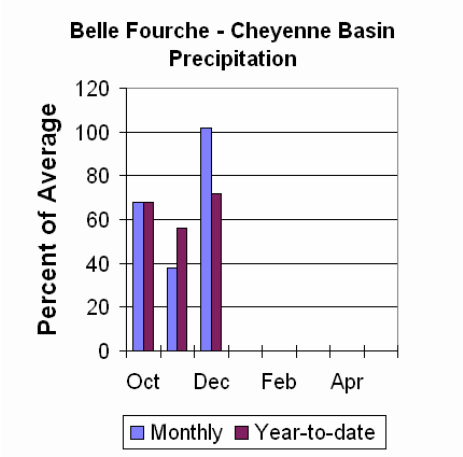
Snow

The Belle Fourche River Basin is currently at 70% of average or 156% 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 102% of average or 308% of last year in the Black Hills. There were 3 reporting stations. Monthly percentages range from 59-119%. Year-to-date precipitation is 72% of average and 112% of last year's amount. Yearly percentages range from 60-90% of average.



Reservoir

Current reservoir storage is around 58% of average in the basin. Angostura is currently storing 45% of average (43,200 ac-ft), about 35% of capacity. Belle Fourche reservoir is storing 77% of average (69,800 ac-ft), about 39% of capacity. Deerfield reservoir is storing 97% of average (11,900 ac-ft), about 78% of capacity. Keyhole reservoir is storing 57% of average (58,200 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 40% of average (20,500 ac-ft), about 25% 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 3,000 ac-ft (59% of average). Pactola Reservoir Inflow is expected to yield around 13,600 ac-ft (59% of average). See the following page for detailed runoff volumes.

BELLE FOURCHE & CHEYENNE RIVER BASINS
Streamflow Forecasts - January 1, 2008

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions === Chance of Exceeding * 50% (1000AF)	50% (% AVG.)	Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
DEERFIELD RESERVOIR Inflow							
MAR-JUL	1.1	2.5	3.8	62	5.3	8.1	6.1
APR-JUL	0.9	2.0	3.0	59	4.2	6.4	5.1
PACTOLA RESERVOIR Inflow							
MAR-JUL	3.6	10.1	16.4	63	24	38	26
APR-JUL	2.5	8.1	13.6	59	21	33	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 December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
ANGOSTURA	122.1	43.2	38.9	96.4
BELLE FOURCHE	178.4	69.8	60.3	90.6
DEERFIELD	15.2	11.9	11.6	12.3
KEYHOLE	193.8	58.2	54.0	101.7
PACTOLA	55.0	27.0	31.1	45.8
SHADEHILL	81.4	20.5	31.3	50.7

BELLE FOURCHE & CHEYENNE RIVER BASINS
Watershed Snowpack Analysis - January 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
BELLE FOURCHE	4	156	70

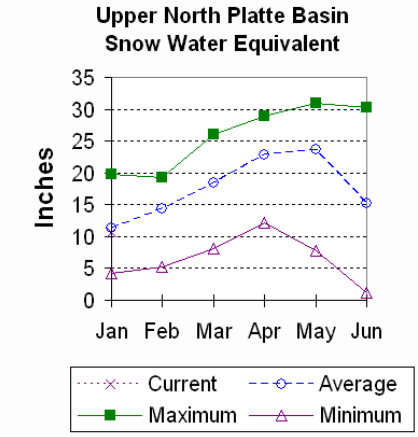
BELLE FOURCHE & CHEYENNE RIVER BASINS
Watershed Snowpack Analysis - January 1, 2007

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
BELLE FOURCHE	4	33	43

Upper North Platte River Basin

Snow

The SNOTELS above Seminoe Reservoir are showing about 93% of average (SWE) for this time of the year (105% of last year). SWE in the drainage area above Northgate is about 91% of average and 99% of last year at this time. SWE in the Encampment River drainage is about 95% of average and 117% of last year. Brush Creek SWE for the year is about 101% of average and 108% of last year's SWE. Medicine Bow and Rock Creek drainages SWE are about 82% of average and 99% of last year at this time. For more information see Basin Summary of Snow Courses at the beginning of this report.

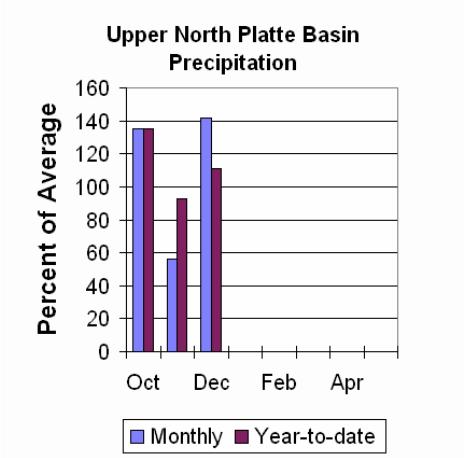


Precipitation

Eleven reporting stations show last month's precipitation at 142% of average or 160% of last year's amount. Precipitation varied from 126-407% of average last month. Total water-year-to-date precipitation is about 111% of average for the basin, which is about 110% of last year's amount. Year to date percentage ranges from 78-159% of average.

Reservoirs

Seminoe Reservoir is estimated to be storing 207,900 ac-ft or 20% of capacity. Seminoe Reservoir is also storing about 33% of average for this time of the year and 75% 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 235,000 ac-ft (87% of average). The Encampment River near Encampment is 154,000 ac-ft (93% of average). Rock Creek near Arlington is 51,000 ac-ft (90% of average). Sweetwater River near Alcova runoff is 40,000 ac-ft (50% of average). Seminoe Reservoir inflow should be around 860,000 ac-ft (100% of average). See the following table for more detailed information on projected runoff.

UPPER NORTH PLATTE RIVER BASIN
Streamflow Forecasts - January 1, 2008

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions — Chance of Exceeding * — 50% (1000AF)	50% (% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
NORTH PLATTE RIVER nr Northgate							
APR-JUL	107	167	215	88	270	360	245
APR-SEP	116	182	235	87	295	395	270
ENCAMPMENT RIVER nr Encampment							
APR-JUL	86	121	145	93	169	205	156
APR-SEP	92	129	154	93	179	215	165
ROCK CREEK nr Arlington							
APR-JUL	31	42	49	93	56	67	53
APR-SEP	31	43	51	90	59	71	57
SWEETWATER RIVER nr Alcova							
APR-JUL	12.8	26	37	50	50	74	74
APR-SEP	14.0	28	40	50	54	79	80
SEMINOE RESERVOIR Inflow-46							
APR-JUL	460	650	800	100	965	1230	800
APR-SEP	505	705	860	100	1030	1310	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 December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
SEMINOE	1016.7	207.9	275.6	631.1

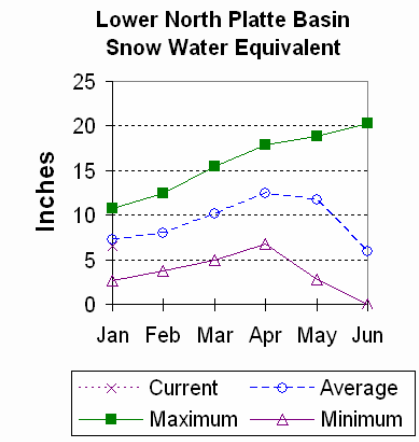
UPPER NORTH PLATTE RIVER BASIN
Watershed Snowpack Analysis - January 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
N PLATTE above Northgate	5	99	91
ENCAMPMENT RIVER	3	117	95
BRUSH CREEK	2	108	101
MEDICINE BOW & ROCK CREEKS	2	99	82
N PLATTE above Seminoe	13	105	93

Lower North Platte River Basin

Snow

SWE for the North Platte River Basin is at 90% of average (102% of last year). The Sweetwater drainage SWE is currently at 68% of average (104% of last year). Deer and LaPrele Creek SWE are at 65% of average (76% of last year). SWE for the North Platte above the Laramie River drainage is 89% of average (103% of last year). SWE for the Laramie River above Laramie is 112% of average (90% of last year). SWE for the Little Laramie River is 101% of average (95% of last year). The Laramie River above mouth, SWE is 105% of average (91% of last year). For more information see Basin Summary of Snow Courses at the beginning of this report.

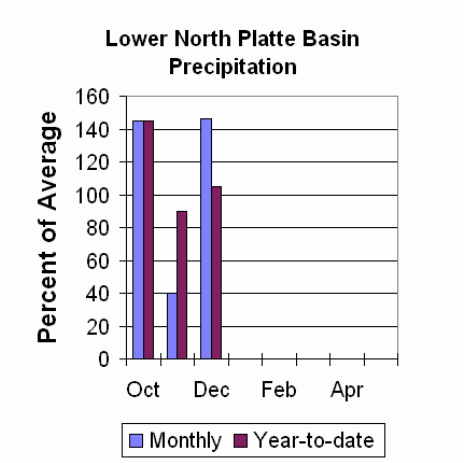


Precipitation

Last month's precipitation was 146% of average or 97% of last year's amount. Of the 16 reporting stations, percentages for the month range from 78-321%. The water year-to-date precipitation for the basin is currently 105% of average (97% of last year). Year-to-date percentages range from 72-144% of average.

Reservoir

The Lower North Platte River basin reservoir storage is below average at 46%. Reservoir storage is as follows: Alcova 156,500 ac-ft (101% of average); Glendo 213,300 ac-ft (75% of average); Guernsey 10,700 ac-ft (149% of average); Pathfinder 200,000 ac-ft (31% of average); Seminoe 207,900 ac-ft (33% of average); and Wheatland #2 25,500 ac-ft (60% 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 40,000 ac-ft (50% of average). Deer Creek at Glenrock is forecast to yield 27,000 ac-ft (73% of average). LaPrele Creek above the reservoir is forecast to yield 15,900 ac-ft (66% of average). North Platte River below Glendo Reservoir is 925,000 ac-ft (93% of average), and below Guernsey Reservoir is anticipated to yield around 950,000 ac-ft (94% of average). Laramie River near Woods Landing should yield around 146,000 ac-ft (108% of average). The Little Laramie near Filmore should produce about 62,000 ac-ft (97% of average). See the following table for more detailed information on projected runoff.

LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS
Streamflow Forecasts - January 1, 2008

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions Chance of Exceeding * 50% (1000AF)	50% (% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
SWEETWATER RIVER nr Alcova							
APR-JUL	35	36	37	50	38	40	74
APR-SEP	37	39	40	50	41	43	80
DEER CREEK at Glenrock							
APR-JUL	6.9	16.8	26	70	37	57	37
APR-SEP	7.4	17.6	27	73	38	59	37
LaPRELE CREEK abv Reservoir							
APR-JUL	2.6	9.1	15.7	65	24	40	24
APR-SEP	2.7	9.2	15.9	66	24	40	24
NORTH PLATTE - Alcova to Orin Gain							
APR-JUL	39	61	104	68	169	265	152
APR-SEP	42	64	110	68	177	275	161
NORTH PLATTE RIVER blw Glendo Res (2)							
APR-JUL	635	795	900	94	1010	1160	960
APR-SEP	645	815	925	93	1040	1200	990
NORTH PLATTE RIVER blw Guernsey Res (2)							
APR-JUL	590	785	920	95	1050	1250	970
APR-SEP	610	810	950	94	1090	1290	1010
LARAMIE RIVER nr Woods							
APR-JUL	77	111	133	108	155	189	123
APR-SEP	85	121	146	108	171	205	135
LITTLE LARAMIE RIVER nr Filmore							
APR-JUL	36	48	57	97	66	78	59
APR-SEP	39	53	62	97	71	85	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 December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
ALCOVA	184.3	156.5	156.2	154.4
GLENDO	506.4	213.3	234.7	282.9
GUERNSEY	45.6	10.7	10.9	7.2
PATHFINDER	1016.5	200.0	234.1	635.7
SEMINOE	1016.7	207.9	275.6	631.1
WHEATLAND #2	98.9	25.5	21.0	42.2

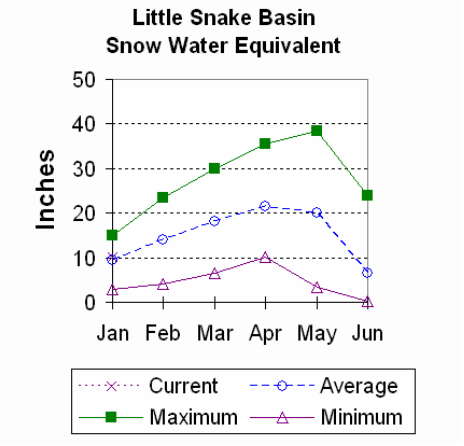
LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS
Watershed Snowpack Analysis - January 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SWEETWATER	2	104	68
DEER & LaPRELE CREEKS	2	76	65
N PLATTE abv Laramie R.	17	103	89
LARAMIE RIVER abv Laramie	5	90	112
LITTLE LARAMIE RIVER	2	95	101
LARAMIE RIVER above mouth	6	91	105
NORTH PLATTE	17	102	90

Little Snake River Basin

Snow

Currently, snow water equivalent (SWE) in the Little Snake River drainage is 107% of average (127% of last year). For more information see Basin Summary of Snow Courses at beginning of this report.

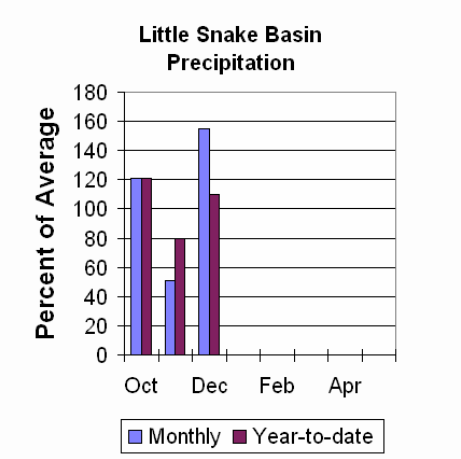


Precipitation

Precipitation across the basin was below average this past month. Last Month's precipitation was 155% of average (224% of last year) for the 5 reporting stations. Last month's precipitation ranged from 134-175% of average. The Little Snake River basin water-year-to-date precipitation is currently 110% of average (120% of last year). Year-to-date percentages range from 104-115% of average.

Reservoir

High Savery Dam - Pending



Streamflow

The 50% exceedance forecast for the Little Snake River drainage is expected to be about 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 159,000 ac-ft (100% of average). The Little Snake River near Dixon is estimated to yield around 335,000 ac-ft (102% of average). See the following table for more detailed information on projected runoff.

LITTLE SNAKE RIVER BASIN
Streamflow Forecasts - January 1, 2008

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions Chance of Exceeding * 50% (1000AF)	50% (% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
Little Snake River nr Slater							
APR-JUL	100	134	159	100	187	231	159
Little Snake River nr Dixon							
APR-JUL	213	282	335	102	392	484	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.

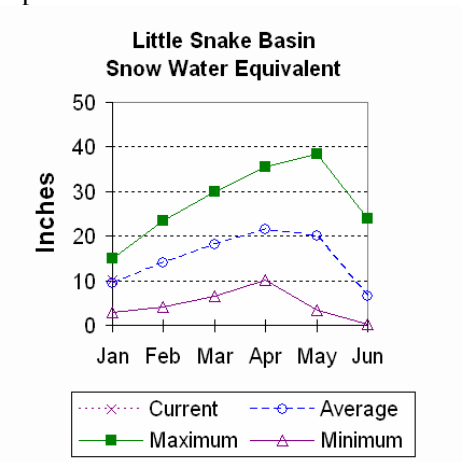
LITTLE SNAKE RIVER BASIN
Watershed Snowpack Analysis - January 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
LITTLE SNAKE RIVER	6	127	107

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 67% (88% of last year). SWE on the west side of the Upper Green River Basin is about 64% of average (84% of last year). Newfork River Basin SWE is now about 65% of average (87% of last year). Big Sandy-Eden Valley Basin is at 70% or 84% of last year. SWE in the Green River Basin above Fontenelle Reservoir is about 65% of average (87% of last year). For more information see the Basin Summary of Snow Courses at the beginning of this report.

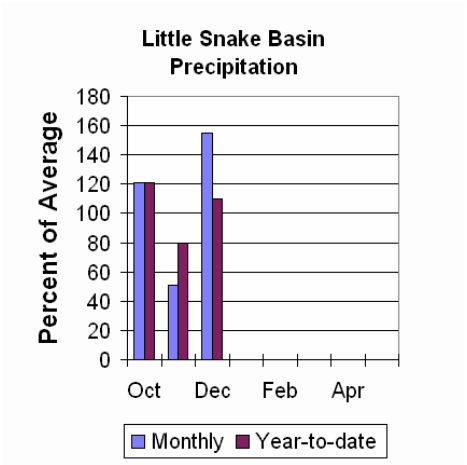


Precipitation

The 14 reporting precipitation sites in the basin were 86% of average last month (117% of last year). Last month's precipitation varied from 68-219% of average. Water year-to-date precipitation is about 85% of average (90% of last year). Year to date percentage of average ranges from 40-124% for the reporting stations.

Reservoir

Storage in Big Sandy Reservoir is 9,300 ac-ft or 24% of capacity. This is 51% of average. Eden Reservoir - No Report. Fontenelle Reservoir is 146,800 ac-ft or 43% of capacity; 70% of average This is 68% 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 695,000 ac-ft (81% of average), and Big Sandy near Farson is expected to be around 45,000 ac-ft (78% of average). See the following table for more detailed information on projected runoff.

UPPER GREEN RIVER BASIN
Streamflow Forecasts - January 1, 2008

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions Chance of Exceeding * 50% (1000AF)	50% (% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
Green River at Warren Bridge							
APR-JUL	153	194	225	85	258	310	265
Pine Creek abv Fremont Lake							
APR-JUL	69	81	90	87	99	114	104
New Fork River nr Big Piney							
APR-JUL	192	262	315	80	373	468	395
Fontenelle Reservoir Inflow							
APR-JUL	379	556	695	81	850	1106	860
Big Sandy River nr Farson							
APR-JUL	29	38	45	78	53	67	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 December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
BIG SANDY	38.3	9.3	13.5	18.3
EDEN		NO REPORT		
FONTENELLE	344.8	146.8	181.3	209.7

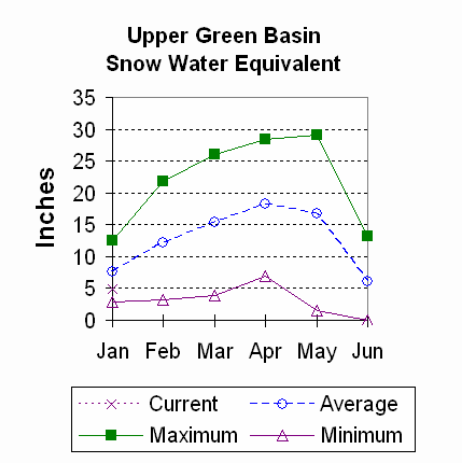
UPPER GREEN RIVER BASIN
Watershed Snowpack Analysis - January 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
GREEN above Warren Bridge	4	88	67
UPPER GREEN (West Side)	5	84	64
NEWFORK RIVER	2	87	65
BIG SANDY/EDEN VALLEY	1	84	70
GREEN above Fontenelle	11	87	65

Lower Green River Basin

Snow

SWE in the Hams Fork Basin is 59% of average (77% of last year). Blacks Fork Basin SWE is currently 65% of average 69% of last year). The Henrys Fork drainage is at 57% of average (45% of last year). SWE in the Green River Basin above Flaming Gorge is 64% of average (81% of last year). For more information see Basin Summary of Snow Courses at beginning of this report.

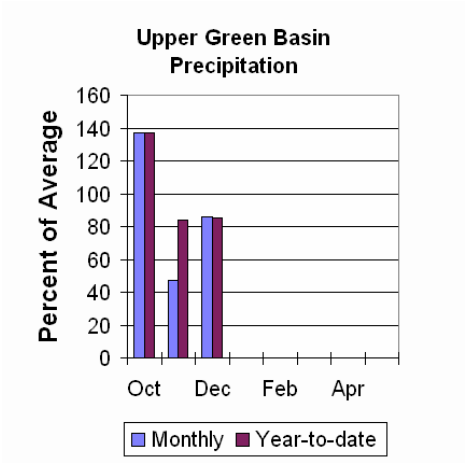


Precipitation

Precipitation was above average for the 4 reporting stations during last month at 76% of average or 129% of last year. Precipitation ranged from 72-134% of average for the month. The basin year-to-date precipitation is currently 67% of average (81% of last year). Year-to-date percentages range from 56-72% of average.

Reservoirs

Fontenelle Reservoir is currently storing 146,800 ac-ft; this is 70% of average (81% of last year). Flaming Gorge is currently storing 3,031,000 ac-ft; this is 100% of average (97% of last year). Viva Naughton is storing 28,500 ac-ft or 67% of capacity: this is 90% 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 700,000 ac-ft (80% of average). The Blacks Fork near Robertson is forecast to yield 80,000 ac-ft (84% of average). East Fork of Smiths Fork near Robertson is forecast to yield 23,000 ac-ft (79% 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 62,000 ac-ft (70% of average). The Flaming Gorge Reservoir inflow will be about 875,000 ac-ft (74% of average). See the following table for more detailed information on projected runoff.

LOWER GREEN RIVER BASIN
Streamflow Forecasts - January 1, 2008

Forecast Pt / Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding *						
	90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
Green River nr Green River, WY (2)							
APR-JUL	393	565	700	80	849	1095	875
Blacks Fork nr Robertson							
APR-JUL	51	67	80	84	94	116	95
EF of Smiths Fork nr Robertson							
APR-JUL	14.0	19.1	23	79	27	34	29
Hams Fk blw Pole Ck nr Frontier							
APR-JUL	22	35	46	71	58	79	65
Hams Fork Inf to Viva Naughton Res							
APR-JUL	29	47	62	70	79	107	89
Flaming Gorge Reservoir Inflow (2)							
APR-JUL	468	695	875	74	1076	1408	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 December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
FONTENELLE	344.8	146.8	181.3	209.7
FLAMING GORGE	3749.0	3124.0	3082.0	3027.0
VIVA NAUGHTON RES	42.4	28.5	33.9	31.6

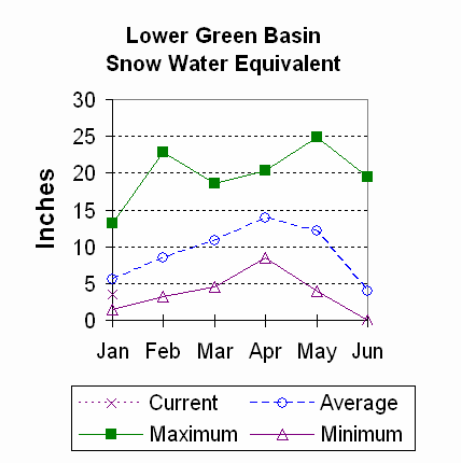
LOWER GREEN RIVER BASIN
Watershed Snowpack Analysis - January 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
HAMS FORK RIVER	3	77	59
BLACKS FORK	2	80	94
HENRYS FORK	2	139	127
GREEN above Flaming Gorge	18	87	69

Upper Bear River Basin

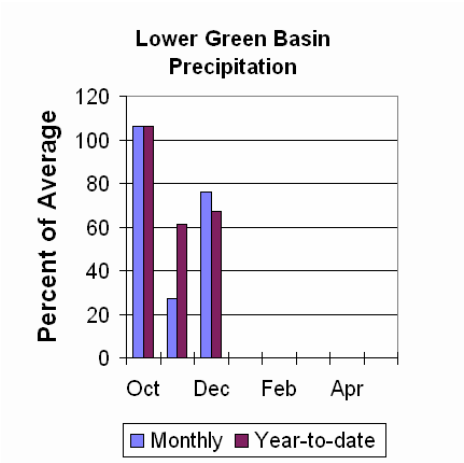
Snow

Snow water equivalent (SWE) in the Upper Bear River Basin in Utah is estimated to be 70% of average; that is about 83% of last year at this time. SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is estimated at 62% of average (76% of last year). Bear River Basin SWE, above the Idaho State line, is 61% of average and 78% 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 70% of average for the 2 reporting stations; this is 120% of the precipitation received last year. The year-to-date precipitation, for the basin, is 68% of average; this is 82% of last year's amount.



Reservoir

Storage, in Woodruff Narrows reservoir, is about 24,000 ac-ft (102% of average). Current reservoir storage is about 42% of capacity. Reservoir storage last year at this time was 45,500 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 105,000 ac-ft (84% of average). The Bear River above Reservoir near Woodruff is 120,000 ac-ft (85% of average). The Smiths Fork River near Border is 94,000 ac-ft (78% of average). See the following table for more detailed information on projected runoff.

UPPER BEAR RIVER BASIN
Streamflow Forecasts - January 1, 2008

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions — Chance of Exceeding * — 50% (1000AF)	50% (% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
Bear River nr UT-WY State Line							
APR-JUL	56	79	95	84	111	134	113
APR-SEP	61	87	105	84	123	149	125
Bear River ab Reservoir nr Woodruff							
APR-JUL	52	89	114	84	139	176	136
APR-SEP	57	95	120	85	145	183	142
Smiths Fork nr Border							
APR-JUL	43	65	80	78	95	117	103
APR-SEP	52	77	94	78	111	136	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 December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
WOODRUFF NARROWS	57.3	45.5	30.0	23.6

UPPER BEAR RIVER BASIN
Watershed Snowpack Analysis - January 1, 2008

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
UPPER BEAR RIVER in Utah	5	63	85
SMITHS & THOMAS FORKS	3	76	62
BEAR RIVER abv ID line	6	63	67
NORTHWEST	57	113	90
NORTHEST	13	118	90
SOUTHEAST	20	106	92
SOUTHWEST	25	90	79

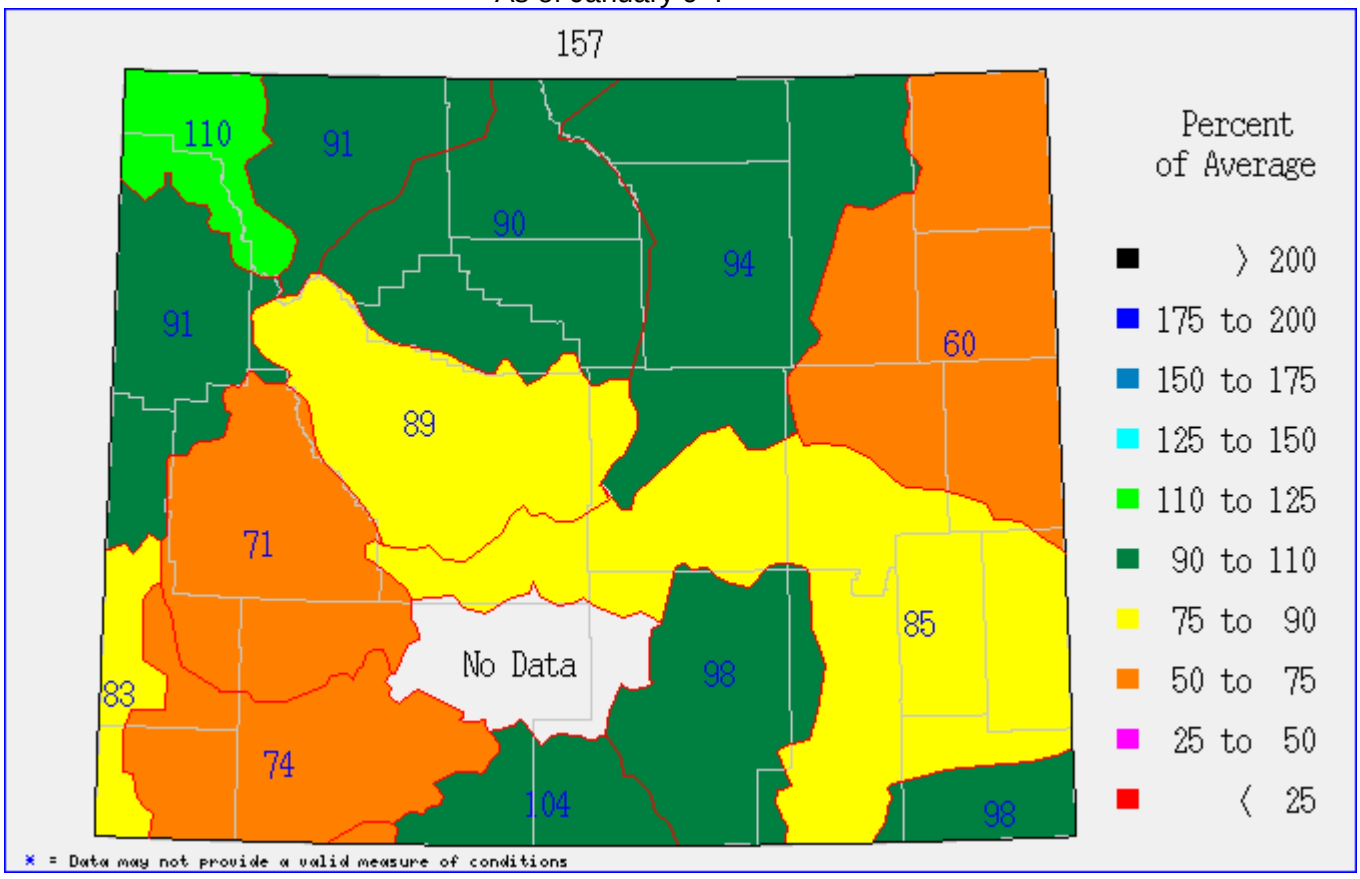
Issued by

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

Released by

J Xavier Montoya
State Conservationist
N R C S
Casper, Wyoming

As of January 9th.



Wyoming
Basin Outlook Report

Natural Resources Conservation Service
Casper, WY

100 East B Street, Room 3124
Casper, WY 82601