

Wyoming Basin Outlook Report

March 1, 2011



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

The snow water equivalent (SWE) across Wyoming is above average for March 1st at 116%. Feb. precipitation for the basins varied from 77-195% of average. Year-to-date precipitation for Wyoming basins varied from 98-179% of average. Forecasted runoff varies from 88-222% of average across the Wyoming basins for an overall average of 111%. Basin reservoir levels for Wyoming vary from 83-163% of average for an overall average of 110%.

Snowpack

Snow water equivalent (SWE), across Wyoming is above average for this time of year at 116%. SWE in the NW portion of Wyoming is now about 106% of average (184% of last year). NE Wyoming SWE is currently about 117% of average (150% of last year). The SE Wyoming SWE is currently about 127% of average (154% of last year). The SW Wyoming SWE is about 114% of average (178% of last year).

Precipitation

Last month's precipitation was below average across Wyoming. The Belle Fourche & Cheyenne River Basins had the highest precipitation for the month at 195% of average. The Snake River Basin had the lowest precipitation amount at 77% 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	-23%	Upper North Platte River	+09%
Yellowstone & Madison	-16%	Lower North Platte	+02%
Wind River	-04%	Little Snake River	-19%
Big Horn	-03%	Upper Green River	-15%
Shoshone & Clarks Fork	-13%	Lower Green River	-17%
Powder & Tongue River	-03%	Upper Bear River	-14%
Belle Fourche & Cheyenne	+95%		

Streams

Stream flow yield for April to September is expected to be above average across Wyoming. Most probable yield for the entire State of Wyoming is forecast to be about 111% (varying from 88-222% of average). The Snake River and Upper Yellowstone & Madison River Basins are expected to yield about 108 and 110% of average, respectively; 97-125% of average for the various forecast points in the basins: Yields from the Wind and Bighorn River Basins are expected to be about 93% and 97% of average, respectively; varying from 91-111% of average in the basins: Yields from the Shoshone and Clarks Fork River Basins of Wyoming are expected to yield about 103% and 105% of average, respectively; varying from 102-117% of average: Yields from the Powder & Tongue River Basins are expected to be about 98% and 88% of average, respectively; varying from 88-119% of average: Yields for the Belle Fourche & Cheyenne River Basins are expected to be about 206% and 222% of average, respectively. Yields for the Upper and Lower North Platte River of Wyoming are expected to be about 140% and 145% of average, respectively; varying from 101-146% of average: Yields for the Little Snake, Green River, and Little Bear of Wyoming are expected to be 127%, 102%, and 144% of average respectively; yield estimates vary from 99-144% of average.

Reservoirs

Reservoir storage varies widely across the state however reservoir storage is at 109% of average for the entire state. Reservoirs on the North Platte River are above average at 125% of average. Reservoirs in the northeast are above average in storage at 117%. Reservoirs in the Wind River Basin are below average at 97%. Reservoirs on the Big Horn are slightly above average at 101%. The Buffalo Bill Reservoir on the Shoshone is above average at 108%. Reservoirs on the Green River are above average at 102%. See the following table for further information about reservoir storage.

Major Reservoirs in Wyoming March 1, 2011

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	89	62	83	107	144
BELLE FOURCHE	88	77	63	140	115
BIG SANDY	48	50	50	97	96
BIGHORN LAKE	63	67	61	103	94
BOYSEN	94	92	96	98	101
BUFFALO BILL	68	67	63	108	101
BULL LAKE	46	53	56	83	88
DEERFIELD	97	93	87	111	104
ENNIS LAKE	68	69	77	89	99
FLAMING GORGE	83	85	78	106	98
FONTENELLE	46	36	45	101	126
GLENDO	84	61	75	111	137
GRASSY LAKE	87	84	79	110	103
GUERNSEY	47	41	31	151	113
HEBGEN LAKE	77	77	70	110	101
JACKSON LAKE	78	74	58	133	104
KEYHOLE	58	52	55	107	112
PACTOLA	96	97	84	115	99
PALISADES	63	84	74	85	75
PATHFINDER	83	72	70	119	115
PILOT BUTTE	79	84	63	125	94
SEMINOE	78	67	52	150	117
SHADEHILL	65	59	61	107	110
TONGUE RIVER			NO REPORT		
VIVA NAUGHTON RES	71	0	69	103	0
WHEATLAND #2	57	70	48	119	82
WOODRUFF NARROWS	79	84	48	163	94
TOTAL 27 RESERVOIRS	75	75	69	109	101

**BASIN SUMMARY OF
SNOTEL and SNOW COURSE DATA
March 2011**

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

WYOMING Snow Course and SNOTEL Stations						
ALBANY	9400	2/23/11	49	13.5	10.9	11.8
ASTER CREEK	7750	3/01/11	72	25.4	10.3	25.2
BALD MOUNTAIN SNOTEL	9380	3/01/11	65	19.3	11.7	16.0
BASE CAMP SNOTEL	7030	3/01/11	---	16.3	7.3	16.0
BATTLE MTN. SNOTEL	7440	3/01/11	44	7.7	8.6	9.7
BEARLODGE DIVIDE	4680	2/23/11	22	5.7	4.4	1.8
BEARTOOTH LK. SNOTEL	9280	3/01/11	69	20.7	11.5	19.7
BEAR TRAP SNOTEL	8200	3/01/11	29	6.3	4.1	4.3
BIG GOOSE SNOTEL	7760	3/01/11	26	6.0	5.6	7.7
BIG PARK	8620	2/25/11	67	19.6	11.0	16.2
BIG SANDY SNOTEL	9080	3/01/11	56	12.4	7.2	12.1
BLACKWATER SNOTEL	9780	3/01/11	65	20.8	12.3	20.4
BLIND BULL SNOTEL	8900	3/01/11	77	23.4	11.9	23.1
BLIND PARK SNOTEL	6870	3/01/11	37	8.6	5.2	7.1
BLUE RIDGE	9620	2/28/11	39	9.5	5.7	9.8
BONE SPGS. SNOTEL	9350	3/01/11	56	15.7	9.1	13.2
BROOKLYN LK. SNOTEL	10220	3/01/11	81	25.1	16.4	19.0
BURGESS JCT. SNOTEL	7880	3/01/11	36	8.7	7.7	9.0
BURROUGHS CRK SNOTEL	8750	3/01/11	49	12.1	6.4	12.6
CANYON SNOTEL	8090	3/01/11	50	13.5	7.0	11.3
CASPER MTN. SNOTEL	7850	3/01/11	37	9.3	7.7	11.3
CASTLE CREEK	8400	2/24/11	22	4.1	1.2	4.0
CASTLE CREEK SNOTEL	8400	3/01/11	27	5.4	--	--
CCC CAMP	7000	2/24/11	49	13.2	6.4	11.0
CHALK CK #1 SNOTEL	9100	3/01/11	80	26.0	13.1	19.9
CHALK CK #2 SNOTEL	8200	3/01/11	57	17.2	7.1	12.9
CINNABAR PARK SNOTEL	9690	3/01/11	74	20.9	16.7	15.9
CLOUD PEAK SNOTEL	9850	3/01/11	47	12.7	8.4	10.0
COLE CANYON SNOTEL	5910	3/01/11	29	6.9	4.4	5.7
COLD SPRINGS SNOTEL	9630	3/01/11	30	7.0	4.0	7.2
COTTONWOOD CR SNOTEL	7700	3/01/11	---	21.5	13.3	18.5
CROW CREEK SNOTEL	8830	3/01/11	31	9.3	7.8	7.3
DARBY CANYON	8250	2/23/11	67	19.4	10.4	20.3
DEER PARK SNOTEL	9700	3/01/11	53	16.1	10.2	14.4
DITCH CREEK	6870	2/22/11	22	3.8	2.1	3.6
DIVIDE PEAK SNOTEL	8860	3/01/11	61	18.5	14.1	15.6
DOMELAKE SNOTEL	8880	3/01/11	35	9.9	5.8	9.5
DU NOIR	8760	2/23/11	28	5.8	2.1	6.8
EAST RIM DIV SNOTEL	7930	3/01/11	---	12.4	4.2	11.0
ELBO RANCH	7100	2/28/11	40	11.7	5.0	10.3
ELKHART PARK SNOTEL	9400	3/01/11	---	10.6	6.4	11.1
EVENING STAR SNOTEL	9200	3/01/11	80	25.6	15.0	25.0
FOUR MILE MEADOWS	7860	2/28/11	42	12.9	4.9	10.8
FOXPARK	9060	2/22/11	32	9.7	7.3	6.3
GEYSER CREEK	8500	2/23/11	22	5.0	2.1	6.0
GLADE CREEK	7040	3/01/11	64	21.4	10.7	20.9
GRAND TARGHEE SNOTEL	9260	3/01/11	112	38.8	28.0	--
GRANITE CRK SNOTEL	6770	3/01/11	---	16.7	7.5	16.1
GRANNIER MEADOWS	8860	2/28/11	48	11.3	7.4	11.7
GRASSY LAKE SNOTEL	7270	3/01/11	94	29.8	17.4	29.5
GRAVE SPRINGS SNOTEL	8550	3/01/11	29	6.6	6.9	7.3
GROS VENTRE SNOTEL	8750	3/01/11	49	12.4	5.9	11.5

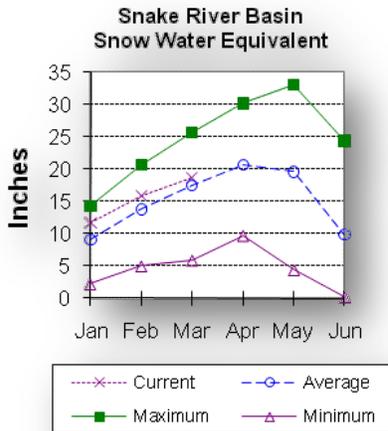
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
GROVER PARK DIVIDE	7000	2/24/11	44	9.7	6.7	10.0
HAIRPIN TURN	9480	2/23/11	60	17.9	11.7	13.9
HANSEN S.M. SNOTEL	8360	3/01/11	26	5.3	3.8	5.2
HAMS FORK SNOTEL	7840	3/01/11	53	14.0	5.8	11.0
HASKINS CREEK	8980	2/23/11	99	31.0	21.8	25.9
HOBACK GS	6640	2/23/11	34	7.4	5.3	--
HOBBS PARK SNOTEL	10100	3/01/11	46	12.2	8.6	11.9
HUCKLEBERRY DIVIDE	7300	3/01/11	58	18.7	9.0	18.5
INDIAN CREEK SNOTEL	9430	3/01/11	---	26.0	14.1	22.3
JACKPINE CREEK	7350	2/23/11	73	19.2	12.0	19.4
KELLEY R.S. SNOTEL	8180	3/01/11	---	17.3	8.0	14.0
KENDALL R.S. SNOTEL	7740	3/01/11	44	10.8	4.6	12.4
KIRWIN SNOTEL	9550	3/01/11	36	9.1	5.5	9.1
LAKE CAMP	7780	2/27/11	44	11.7	5.3	8.7
LA PRELE SNOTEL	8380	3/01/11	46	10.6	6.0	8.9
LARSEN CREEK	9020	2/23/11	39	8.7	3.7	11.0
LARSEN CREEK SNOTEL	9020	3/01/11	50	12.3	--	--
LEWIS LAKE SNOTEL	7850	3/01/11	88	28.6	13.5	29.7
LIBBY LODGE	8750	2/23/11	45	14.1	8.3	9.6
LITTLE BEAR RUN	6240	3/01/11	25	5.5	2.7	3.4
LITTLE GOOSE SNOTEL	8870	3/01/11	29	6.8	--	--
LITTLE WARM SNOTEL	9370	3/01/11	42	9.8	5.0	9.5
LOOMIS PARK SNOTEL	8240	3/01/11	---	16.1	6.4	14.5
LUPINE CREEK	7380	2/24/11	29	7.2	2.9	7.9
MALLO	6420	3/01/11	38	9.0	5.0	6.6
MARQUETTE SNOTEL	8760	3/01/11	9	1.9	4.3	6.9
MEDICINE LODGE LAKES	9340	2/28/11	47	12.6	7.4	9.2
MIDDLE FORK	7420	2/28/11	26	4.9	4.1	4.8
MIDDLE POWDER SNOTEL	7760	3/01/11	30	7.6	7.8	9.0
MORAN	6750	3/02/11	38	11.2	5.7	11.8
MOSS LAKE	9800	2/24/11	82	26.2	19.6	19.9
NEW FORK SNOTEL	8340	3/01/11	41	10.3	4.1	9.6
NORRIS BASIN	7500	2/25/11	36	9.3	6.0	9.6
NORTH BARRETT CREEK	9400	2/24/11	86	26.8	20.2	17.5
NORTH FRENCH SNOTEL	10130	3/01/11	117	36.0	28.1	22.7
NORTH RAPID CK SNTL	6130	3/01/11	33	8.0	7.2	6.8
NORTH TONGUE	8450	2/28/11	41	10.6	6.7	10.3
OLD BATTLE SNOTEL	9920	3/01/11	111	34.4	23.6	26.3
OLD FAITHFUL	7400	2/28/11	47	13.2	4.8	12.9
ONION GULCH	8780	2/23/11	29	6.8	4.1	6.7
OWL CREEK SNOTEL	8980	3/01/11	22	4.5	4.5	4.1
PARKERS PEAK SNOTEL	9400	3/01/11	95	23.2	14.7	18.2
PHILLIPS BNCH SNOTEL	8200	3/01/11	74	24.6	13.4	23.9
POCKET CREEK	9350	2/22/11	40	8.7	5.5	10.9
POCKET CREEK SNOTEL	9350	3/01/11	53	9.7	8.9	--
POLE MOUNTAIN	8700	2/22/11	36	10.4	8.1	6.8
POWDER RVR.PASS SNTL	9480	3/01/11	44	11.4	6.6	8.7
PURGATORY GULCH	8970	2/23/11	48	13.2	8.4	9.5
RANGER CREEK	8120	2/28/11	35	8.4	5.1	7.3
RENO HILL SNOTEL	8500	3/01/11	48	12.0	9.6	10.4
REUTER CANYON	6280	2/28/11	45	12.5	7.5	8.4
ROWDY CREEK	8300	2/23/11	61	17.2	9.2	18.5
RYAN PARK	8400	2/24/11	48	13.6	9.0	9.7
SAGE CK BASIN SNTL	7850	3/01/11	61	17.1	9.1	9.0
SALT RIVER SNOTEL	7600	3/01/11	---	14.2	7.4	12.2
SAND LAKE SNOTEL	10050	3/01/11	---	30.2	23.3	25.2
SANDSTONE RS SNOTEL	8150	3/01/11	55	12.2	8.0	12.5

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
SAWMILL DIVIDE	9260	2/24/11	43	10.2	7.6	10.2
SHELL CREEK SNOTEL	9580	3/01/11	56	13.5	9.5	11.8
SHERIDAN R.S.	7750	2/23/11	20	4.3	1.7	5.2
SNAKE RIVER STATION	6920	3/01/11	55	17.9	8.9	18.3
SNAKE RV STA SNOTEL	6920	3/01/11	---	15.8	7.3	16.6
SNIDER BASIN SNOTEL	8060	3/01/11	58	16.8	7.2	12.4
SOLDIER PARK	8780	2/23/11	22	4.0	2.2	4.4
SOUR DOUGH	8460	2/23/11	25	5.0	3.9	5.4
SOUTH BRUSH SNOTEL	8440	3/01/11	51	15.2	10.1	10.0
SOUTH PASS SNOTEL	9040	3/01/11	61	15.0	8.8	14.0
SPRING CRK. SNOTEL	9000	3/01/11	88	28.3	14.0	22.2
ST LAWRENCE ALT SNTL	8620	3/01/11	21	4.2	3.8	5.9
SUCKER CREEK SNOTEL	8880	3/01/11	40	10.1	8.9	9.1
SYLVAN LAKE SNOTEL	8420	3/01/11	63	19.5	10.8	18.8
SYLVAN ROAD SNOTEL	7120	3/01/11	48	13.4	5.7	11.4
T CROSS RANCH	7900	2/24/11	28	5.7	1.5	6.8
TETON PASS W.S.	7740	2/28/11	72	23.6	12.7	23.4
THUMB DIVIDE SNOTEL	7980	3/01/11	57	16.5	6.8	15.4
THUMB DIVIDE	7980	3/01/11	50	14.9	5.5	15.8
TIE CREEK SNOTEL	6870	3/01/11	22	5.6	1.8	4.9
TIMBER CREEK SNOTEL	7950	3/01/11	17	3.1	2.2	4.2
TOGWOTEE PASS SNOTEL	9580	3/01/11	73	23.2	13.4	20.7
TOWNSEND CRK SNOTEL	8700	3/01/11	35	7.5	6.3	6.9
TRIPLE PEAK SNOTEL	8500	3/01/11	78	24.6	14.0	20.9
TURPIN MEADOWS	6900	2/28/11	38	11.0	3.5	9.4
TWO OCEAN SNOTEL	9240	3/01/11	---	26.1	15.7	23.3
TYRELL RANGER STA.	8300	2/23/11	33	7.3	3.0	6.2
UPPER SPEARFISH	6500	3/01/11	33	9.2	4.3	5.6
WEBBER SPRING SNOTEL	9250	3/01/11	81	25.4	15.8	21.3
WHISKEY PARK SNOTEL	8950	3/01/11	89	28.9	20.5	23.8
WILLOW CREEK SNOTEL	8450	3/01/11	82	27.4	17.5	25.4
WINDY PEAK SNOTEL	7900	3/01/11	36	8.8	5.1	6.0
WOLVERINE SNOTEL	7650	3/01/11	39	12.4	6.0	10.6
WOOD ROCK G.S.	8440	2/24/11	31	7.1	5.5	7.8
YOUNTS PEAK SNOTEL	8350	3/01/11	47	13.7	7.6	14.6

Snake River Basin

Snow

The Snake River Basin snow water equivalent (SWE) is above average at 107%. SWE in the Snake River Basin above Jackson Lake is 101% of average. Pacific Creek Basin SWE is 105% of average. Gros Ventre River Basin SWE is 113% of average. SWE in the Hoback River drainage is 106% of average. SWE in the Greys River drainage is 113% of average. In the Salt River area SWE is 112% of average. SWE in the Snake River Basin above Palisades is 107% of average. See the "Basin Summary of Snow Course Data" 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 77% of average (192% of last year). Last month's percentages range from 59-97% of average for the 16 reporting stations. Water-year-to-date precipitation is 107% of average for the Snake River Basin (177% of last year). Year-to-date percentages range from 88-126% of average.

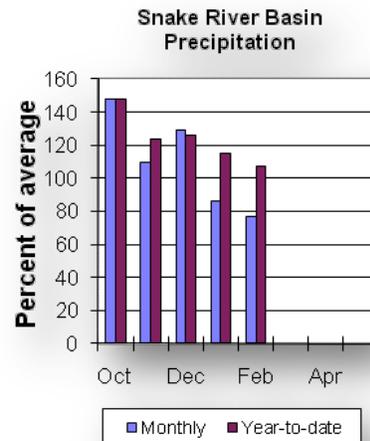
Reservoir

Current reservoir storage is 100% of average for the 3 storage reservoirs in the basin. Grassy Lake storage is about

110% of average (13,200 ac-ft compared to 12,800 last year). Jackson Lake storage is 133% of average (656,600 ac-ft compared to 628,700 ac-ft last year). Palisades Reservoir storage is about 85% of average (875,700 ac-ft compared to 1,174,000 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 above average for the basin. The Snake near Moran is 955,000 ac-ft (106% of average). Snake River above reservoir near Alpine is 2,820,000 ac-ft (103% of average). The Snake near Irwin is 4,150,000 ac-ft (107% of average). The Snake near Heise is 4,490,000 ac-ft (108% of average). Pacific Creek near Moran is 195,000 ac-ft (110% of average). Buffalo Fork above Lava near Moran is 360,000 ac-ft (105% of average). Gros Ventre River at Kelly is 280,000 ac-ft (115% of average). Greys River above Palisades Reservoir is 485,000 ac-ft (123% of average). Salt River near Etna is 525,000 ac-ft (125% of average). See the following page for detailed runoff volumes.



Snake River Basin

Streamflow Forecasts - March 1, 2011

Forecast Pt	<=== Drier ===		Future Conditions		=== Wetter ===>		
Forecast	90%		Chance of Exceeding *		30%		30 Yr Avg
Period	(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
Snake R nr Moran (1,2)							
APR-JUL	690	815	870	107	925	1050	815
APR-SEP	745	890	955	106	1020	1160	905
Snake R ab Res nr Alpine (1,2)							
APR-JUL	1970	2310	2470	104	2630	2970	2370
APR-SEP	2230	2640	2820	103	3000	3410	2730
Snake R nr Irwin (1,2)							
APR-JUL	2960	3400	3600	108	3800	4240	3330
APR-SEP	3440	3930	4150	107	4370	4860	3870
Snake R nr Heise (2)							
APR-JUL	3300	3630	3850	108	4070	4400	3560
APR-SEP	3870	4240	4490	108	4740	5110	4160
Pacific Ck at Moran							
APR-JUL	145	172	190	111	210	235	171
APR-SEP	148	176	195	110	215	240	178
Buffalo Fork ab Lava nr Moran							
APR-JUL	260	290	315	105	340	370	301
APR-SEP	295	335	360	105	385	425	344
Gros Ventre R at Kelly							
APR-JUL	182	215	240	120	265	300	200
APR-SEP	210	250	280	115	310	350	244
Greys R nr Alpine							
APR-JUL	345	385	410	121	435	475	340
APR-SEP	410	455	485	123	515	560	395
Salt R nr Etna							
APR-JUL	315	385	430	127	475	545	340
APR-SEP	385	470	525	125	580	665	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.

(3) - Median value used in place of average.

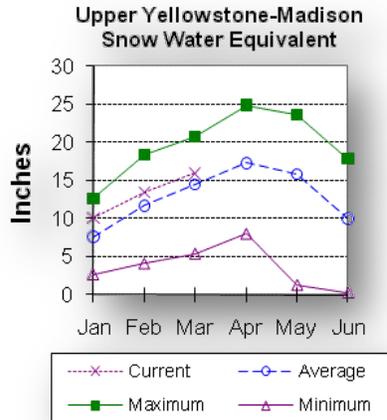
SNAKE RIVER BASIN				
Reservoir Storage (1000AF) End of February				
Reservoir	Usable Capacity	***** This Year	***** Usable Storage Last Year	***** Average
GRASSY LAKE	15.2	13.2	12.8	12.0
JACKSON LAKE	847.0	656.6	628.7	494.0
PALISADES	1400.0	875.7	1174.0	1033.1

SNAKE RIVER BASIN			
Watershed Snowpack Analysis - March 1, 2011			
Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SNAKE above Jackson Lake	9	201	101
PACIFIC CREEK	3	187	105
GROS VENTRE RIVER	4	202	113
HOBACK RIVER	5	226	106
GREYS RIVER	4	177	113
SALT RIVER	5	165	109
SNAKE above Palisades	28	199	106

Upper Yellowstone & Madison River Basins

Snow

Snowfall in these basins has been above average so far this year. Snow water equivalent (SWE) is at 107% of average in the Madison drainage. SWE in the Yellowstone drainage is at 112% of average. See the "Basin Summary of Snow Course Data" at the front of this report for details.



Precipitation

Last month precipitation in the Madison and Yellowstone drainage was about 84% of average (214% of last year). The 5 reporting stations percentages range from 59-110% of average. Water-year-to-date precipitation is about 115% of average (176% of last year's amount). Year to date percentage ranges from 94-150%.

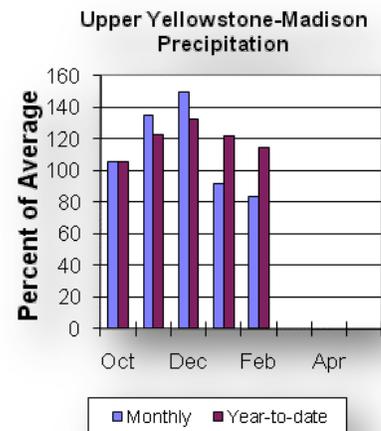
Reservoir

Ennis Lake is storing about 27,800 ac-ft of water (68% of capacity, 89% of average or 99% of

last year's volume). Hebgen Lake is storing about 291,000 ac-ft of water (77% of capacity, 110% of average or 101% 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 April through September are above average for the basins. Yellowstone at Lake Outlet is 845,000 ac-ft (105% of average). Yellowstone at Corwin Springs will yield around 2,200,000 ac-ft (112% of average). Yellowstone near Livingston will yield around 2,510,000 ac-ft (110% of average). Hebgen Reservoir inflow is 490,000 ac-ft (97% of average). See the following page for detailed runoff volumes.



Upper Yellowstone & Madison River Basins

Streamflow Forecasts - March 1, 2011

Forecast Pt	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg
Forecast Period	Chance of Exceeding *						(1000AF)
	90%	70%	50%	30%	10%		
	(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
Yellowstone R at Yellowstone Lake							
APR-JUL	530	600	645	109	690	760	590
APR-SEP	695	785	845	105	905	995	805
Yellowstone R at Corwin Springs							
APR-JUL	1570	1760	1880	114	2000	2190	1650
APR-SEP	1830	2050	2200	112	2350	2570	1970
Yellowstone R at Livingston							
APR-JUL	1750	1980	2140	113	2300	2530	1900
APR-SEP	2050	2320	2510	110	2700	2970	2280
Hebgen Reservoir Inflow (2)							
APR-JUL	320	360	385	98	410	450	395
APR-SEP	410	460	490	97	520	570	505

* 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.
- (3) - Median value used in place of average.

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

Reservoir	Usable Capacity	***** This Year	***** Usable Storage Last Year	***** Average
ENNIS LAKE	41.0	27.8	28.2	31.4
HEBGEN LAKE	377.5	291.0	288.8	265.2

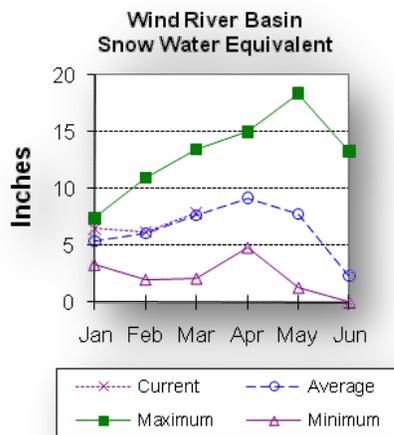
UPPER YELLOWSTONE & MADISON RIVER BASINS Watershed Snowpack Analysis - March 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	Percent of Average
MADISON RIVER in WY	8	194	107
YELLOWSTONE RIVER in WY	12	194	112

Wind River Basin

Snow

The Wind River Basin above Boysen Reservoir has above average snow water equivalent (SWE 102%) for this time of the year. SWE in the Wind River above Dubois is 102% of average. The Little Wind SWE is 92% of average, and the Popo Agie drainage SWE is about 104% of average. See the "Basin Summary of Snow Course Data" at the front of this report for details.



Precipitation

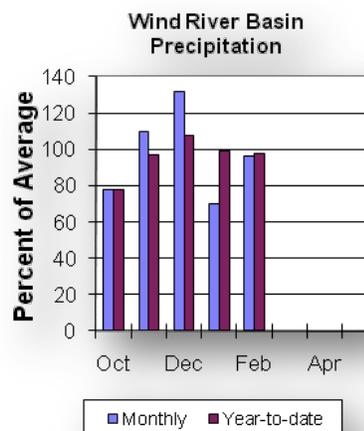
Last month's precipitation in the basin varied from 77-125% of average. Precipitation, for the basin, was about 96% of average from the 8 reporting stations; that is about 212% of last year's amount. Water year-to-date precipitation is 98% of average and about 152% of last year at this time. Year-to-date percentages range from 80-119% of average.

Reservoirs

Current storage varies from 83-125% of average. Current storage in Bull Lake is about 70,500 ac-ft (83% of average) - the reservoir is at 88% of last year. Boysen Reservoir is storing about 98% of average (557,800 ac-ft) - the reservoir is about 101% of last year. Pilot Butte is at 125% of average (24,900 ac-ft) - the reservoir is at 94% 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 50% exceedance forecasts for the April through September runoff period for the basin are slightly below average. Dinwoody Creek near Burris is 97,000 ac-ft (103% of average). The Wind River above Bull Lake Creek is 525,000 ac-ft (98% of average). Bull Lake Creek near Lenore is 172,000 ac-ft (95% of average). Wind River at Riverton will yield around 600,000 ac-ft (94% of average). Little Popo Agie River near Lander is around 53,000 ac-ft (100% of average). South Fork of Little Wind near Fort Washakie will yield around 76,000 ac-ft (91% of average). Little Wind River near Riverton will yield around 295,000 ac-ft (94% of average). Boysen Reservoir inflow will yield around 755,000 ac-ft (93% of average). See the following page for detailed runoff volumes.



Wind River Basin

Streamflow Forecasts - March 1, 2011

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>					30 Yr Avg (1000AF)	
	Chance of Exceeding * (1000AF) (1000AF) (1000AF) (% AVG.) (1000AF) (1000AF)						
Dinwoody Ck nr Burris							
APR-JUL	57	65	70	105	75	83	67
APR-SEP	80	90	97	103	104	114	94
Wind R ab Bull Lake Ck (2)							
APR-JUL	320	385	430	99	475	540	435
APR-SEP	395	475	525	98	575	655	535
Bull Lake Ck nr Lenore							
APR-JUL	109	128	140	95	152	171	148
APR-SEP	134	156	172	95	188	210	182
Wind R at Riverton (2)							
APR-JUL	350	445	510	94	575	670	545
APR-SEP	410	525	600	94	675	790	640
Little Popo Agie R nr Lander							
APR-JUL	31	40	46	100	52	61	46
APR-SEP	37	46	53	100	60	69	53
SF Little Wind R nr Fort Washakie							
APR-JUL	46	58	66	90	74	86	73
APR-SEP	53	67	76	91	85	99	84
Little Wind R nr Riverton							
APR-JUL	136	215	265	95	315	395	280
APR-SEP	154	240	295	94	350	435	315
Boysen Reservoir Inflow (2)							
APR-JUL	295	525	680	95	835	1070	717
APR-SEP	325	580	755	93	930	1190	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.
- (3) - Median value used in place of average.

WIND RIVER BASIN Reservoir Storage (1000AF) End of February

Reservoir	Usable Capacity	***** This Year	Usable Storage Last Year	***** Average
BULL LAKE	151.8	70.5	80.3	85.4
BOYSEN	596.0	557.8	550.6	571.4
PILOT BUTTE	31.6	24.9	26.4	19.9

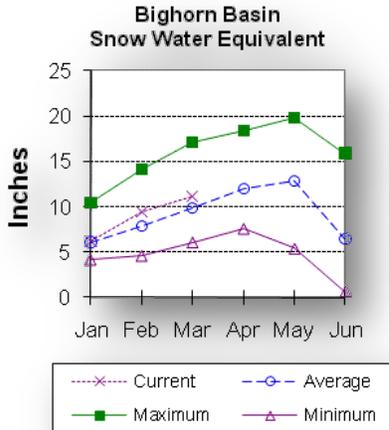
WIND RIVER BASIN Watershed Snowpack Analysis - March 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	Percent of Average
WIND RIVER above Dubios	8	211	102
LITTLE WIND	2	132	92
POPO AGIE	7	150	104
WIND above Boysen Resv	15	178	102

Bighorn River Basin

Snow

The Bighorn River Basin SWE above Bighorn Reservoir is above average at 113%. The Nowood River is at 115% of average. The Greybull River SWE is at 92% of average. Shell Creek SWE is 118% of average. See the "Basin Summary of Snow Course Data" at the front of this report for details.



Precipitation

Last month's precipitation was 97% of average (124% of last year). Sites ranged from 56-171% of average for the month. Year-to-date precipitation is 108% of average; that is 154% of last year at this time. Year-to-date percentages, from the 10 reporting stations, range from 73-132%.

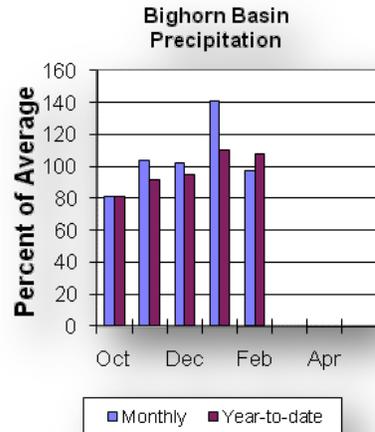
Reservoir

Boysen Reservoir is currently storing 557,800 ac-ft (98% of average). Bighorn Lake is now at 103% of average (853,400 ac-ft). Boysen is currently storing 101% of last year volume at this

time and Big Horn Lake is storing 94% 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 slightly below average. Boysen Reservoir inflow should yield 755,000 ac-ft (93% of average); the Greybull River near Meeteetse should yield around 181,000 ac-ft (91% of average); Shell Creek near Shell should yield around 80,000 ac-ft (111% of average) and the Bighorn River at Kane should yield around 1,080,000 ac-ft (97% of average). See the following page for detailed runoff volumes.



Bighorn River Basin

Streamflow Forecasts - March 1, 2011

Forecast Pt	<=== Drier === Future Conditions === Wetter ===>					30 Yr Avg
Forecast Period	Chance of Exceeding *					(1000AF)
	90%	70%	50%	30%	10%	
	(1000AF)	(1000AF)	(1000AF) (% AVG.)	(1000AF)	(1000AF)	(1000AF)
Boysen Reservoir Inflow (2)						
APR-JUL	295	525	680	95	835	1070
APR-SEP	325	580	755	93	930	1190
Greybull R nr Meeteetse						
APR-JUL	96	118	133	90	148	170
APR-SEP	133	162	181	91	200	230
Shell Ck nr Shell						
APR-JUL	52	61	67	112	73	82
APR-SEP	63	73	80	111	87	97
Bighorn R at Kane (2)						
APR-JUL	465	775	985	99	1200	1510
APR-SEP	515	850	1080	97	1310	1650

* 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.
- (3) - Median value used in place of average.

BIGHORN RIVER BASIN Reservoir Storage (1000AF) End of February

Reservoir	Usable Capacity	***** This Year	***** Usable Storage Last Year	***** Average
BOYSEN	596.0	557.8	550.6	571.4
BIGHORN LAKE	1356.0	853.4	908.4	826.3

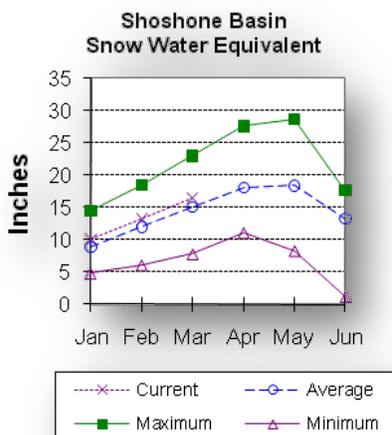
BIGHORN RIVER BASIN Watershed Snowpack Analysis - March 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
NOWOOD RIVER	5	158	115
GREYBULL RIVER	2	158	92
SHELL CREEK	4	161	118
BIGHORN (Boysen-Bighorn)	11	159	113

Shoshone and Clarks Fork River Basin

Snow

Snowpack in these basins is near average for this time of year. Snow Water Equivalent (SWE) is 98% of average in the Shoshone River Basin. The Clarks Fork River Basin SWE is 111% of average. See the "Basin Summary of Snow Course Data" at the front of this report for details.



Precipitation

Precipitation for last month was 87% of average (188% of last year). Monthly percentages range from 46-122% of average. The basin year-to-date precipitation is now 115% of average (176% of last year). Year-to-date percentages range from 69-150% of average for the 8 reporting stations.

Reservoir

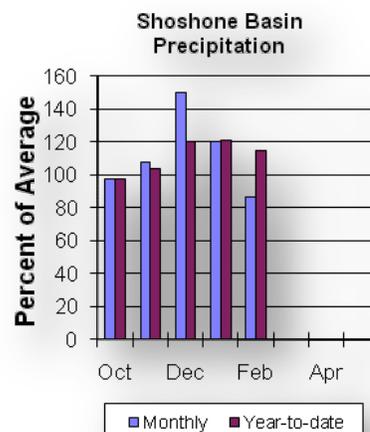
Current storage in Buffalo Bill Reservoir is about 108% of average (101% of last year's storage) - the reservoir is at about 68% of capacity.

Currently, about

438,100 ac-ft are stored in the reservoir compared to 432,300 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 the April through September period are expected to be above average for the basin. The North Fork Shoshone River at Wapiti is 610,000 ac-ft (117% of average). The South Fork of the Shoshone River near Valley is 265,000 ac-ft (100% of average), and the South Fork above Buffalo Bill Reservoir runoff is 230,000 ac-ft (102% of average). The Buffalo Bill Reservoir inflow is expected to yield around 825,000 ac-ft (103% of average). The yield for the Clarks Fork of the Yellowstone near Belfry, Montana is expected to be around 625,000 ac-ft (105% of average). See the following page for detailed runoff volumes.



Shoshone & Clarks Fork River Basins

Streamflow Forecasts - March 1, 2011

Forecast Pt	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg
Forecast Period	Chance of Exceeding *						(1000AF)
(1000AF)	90%	70%	50%	30%	10%	1000AF	(1000AF)
(1000AF)	(% AVG.)						(1000AF)
NF Shoshone R at Wapiti							
APR-JUL	450	510	550	120	590	650	460
APR-SEP	500	565	610	117	655	720	520
SF Shoshone R nr Valley							
APR-JUL	184	210	230	102	250	275	225
APR-SEP	215	245	265	100	285	315	265
SF Shoshone R ab Buffalo Bill Res							
APR-JUL	151	195	225	105	255	300	215
APR-SEP	152	198	230	102	260	310	225
Buffalo Bill Reservoir Inflow (2)							
APR-JUL	595	690	755	105	820	915	720
APR-SEP	650	755	825	103	895	1000	805
Clarks Fk Yellowstone R nr Belfry							
APR-JUL	470	530	570	106	610	670	540
APR-SEP	515	580	625	105	670	735	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.
- (3) - Median value used in place of average.

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

Reservoir	Usable Capacity	***** This Year	***** Usable Storage Last Year	***** Average
BUFFALO BILL	646.6	438.1	432.3	405.8

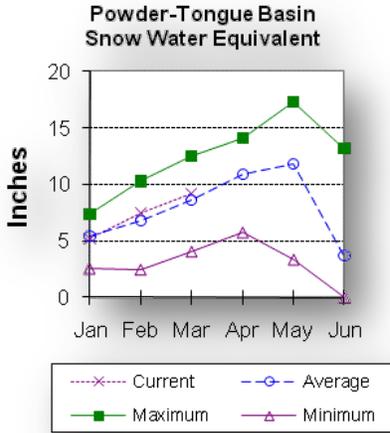
SHOSHONE & CLARKS FORK RIVER BASINS Watershed Snowpack Analysis - March 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SHOSHONE RIVER	6	170	98
CLARKS FORK in WY	7	174	111

Powder and Tongue River Basins

Snow

Snow water equivalent (SWE) in the Upper Tongue River drainage is 104% of average. The Goose Creek drainage is 95% of average. SWE in the Clear Creek drainage is 108% of average. Crazy Woman Creek drainage is 112% of average.



Upper Powder River drainage SWE is 112% of average. Powder River Basin SWE in Wyoming is 110% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.

Precipitation

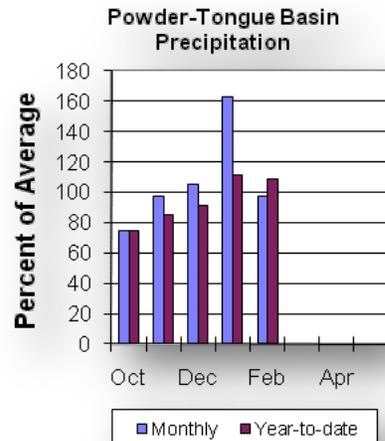
Last month's precipitation was 97% of average for the 9 reporting stations (113% of last year). Monthly percentages range from 67-119% of average. Year-to-date precipitation is 109% of average in the basin; this is 145% of last year at this time. Precipitation for the year ranges from 94-132% of average.

Reservoir

The Tongue River Reservoir has no report.

Streamflow

The 50% exceedance forecasts for the June through September period are expected to be slightly below average for the basins. The yield for Tongue River near Dayton is 99,000 ac-ft (91% of average). Big Goose Creek near Sheridan is 55,000 ac-ft (92% of average). Little Goose Creek near Bighorn is 40,000 ac-ft (95% of average). The Tongue River Reservoir Inflow is 220,000 ac-ft (88% of average). The Middle Fork of the Powder River near Barnum is 16,600 ac-ft (89% of average). The North Fork of the Powder River near Hazelton should yield around 12,400 ac-ft (119% of average). Rock Creek near Buffalo will yield about 24,000 ac-ft (100% of average), and Piney Creek at Kearny should yield about 51,000 ac-ft (98% of average). The Powder River at Moorehead is 225,000 ac-ft (98% of average). The Powder River near Locate is 255,000 ac-ft (98% of average). See the following page for detailed runoff volumes.



Powder & Tongue River Basins

Streamflow Forecasts - March 1, 2011

Forecast Pt Forecast Period	<=== Drier ===		Future Conditions Chance of Exceeding *			=== Wetter ===>	
	90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)	
Tongue R nr Dayton (2)							
APR-JUL	56	74	87	91	100	118	96
APR-SEP	65	85	99	91	113	133	109
Big Goose Ck nr Sheridan							
APR-JUL	28	39	47	90	55	66	52
APR-SEP	35	47	55	92	63	75	60
Little Goose Ck nr Bighorn							
APR-JUL	20	27	32	94	37	44	34
APR-SEP	27	35	40	95	45	53	42
Tongue River Reservoir Inflow (2)							
APR-JUL	87	153	197	90	240	305	220
APR-SEP	104	173	220	88	265	335	250
MF Powder R nr Barnum							
APR-JUL	9.8	13.2	15.6	88	18.0	21	17.8
APR-SEP	10.6	14.2	16.6	89	19.0	23	18.7
NF Powder R nr Hazelton							
APR-JUL	8.2	10.1	11.4	119	12.7	14.6	9.6
APR-SEP	9.0	11.0	12.4	119	13.8	15.8	10.4
Rock Ck nr Buffalo							
APR-JUL	12.1	16.6	19.7	99	23	27	19.9
APR-SEP	15.8	21	24	100	27	32	24
Piney Ck at Kearny							
APR-JUL	24	39	49	100	59	74	49
APR-SEP	26	41	51	98	61	76	52
Powder R at Moorhead							
APR-JUL	86	154	200	98	245	315	205
APR-SEP	107	177	225	98	275	345	230
Powder R nr Locate							
APR-JUL	90	170	225	96	280	360	235
APR-SEP	110	196	255	98	315	400	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.

(3) - Median value used in place of average.

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

Reservoir	Usable	***** Usable Storage *****		
	Capacity	This Year	Last Year	Average
TONGUE RIVER		NO REPORT		

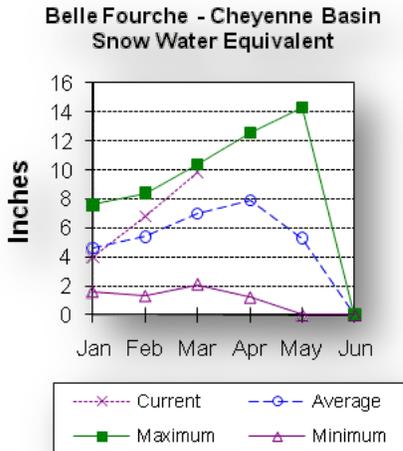
POWDER & TONGUE RIVER BASINS Watershed Snowpack Analysis - March 1, 2011

Watershed	Number of	This Year as Percent of	
	Data Sites	Last Year	Average
UPPER TONGUE RIVER	10	143	104
GOOSE CREEK	3	137	95
CLEAR CREEK	4	148	108
CRAZY WOMAN CREEK	3	159	112
UPPER POWDER RIVER	4	142	112
POWDER RIVER in WY	8	144	110

Belle Fourche and Cheyenne River Basins

Snow

The Belle Fourche River Basin SWE is 144% of average at this time of year. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.



Precipitation

Precipitation for last month was 195% of average or 264% of last year in the Black Hills. There were 3 reporting stations. Monthly percentages range from 173-236%. Year-to-date precipitation is 179% of average and 168% of last year's amount. Yearly percentages range from 164-189% of average.

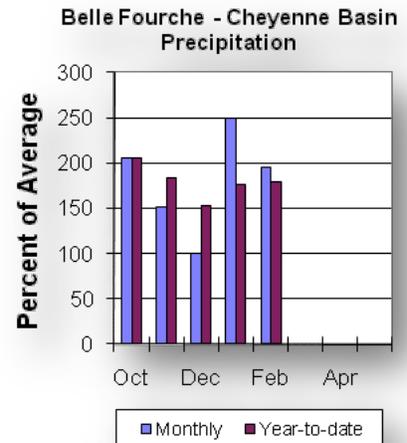
Reservoir

Current reservoir storage is about 117% of average in the basin. Angostura is currently storing 107% of average (108,900 ac-ft), about 89% of capacity.

Belle Fourche reservoir is storing 140% of average (157,800 ac-ft), about 88% of capacity. Deerfield reservoir is storing 111% of average (14,700 ac-ft), about 97% of capacity. Keyhole reservoir is storing 107% of average (113,300 ac-ft), about 58% of capacity. Pactola reservoir is storing 115% of average (52,900 ac-ft), about 96% of capacity. Shadehill reservoir is storing 107% of average (53,300 ac-ft), about 65% 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 expected to be 10,500 ac-ft (206% of average). Pactola Reservoir Inflow is expected to yield around 51,000 ac-ft (222% of average). See the following page for detailed runoff volumes.



Belle Fourche & Cheyenne River Basins

Streamflow Forecasts - March 1, 2011

=====							
<=== 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)	(1000AF)
=====							
Deerfield Reservoir Inflow (2)							
MAR-JUL	9.4	11.6	13.2	216	14.8	17.0	6.1
APR-JUL	6.9	9.0	10.5	206	12.2	14.8	5.1
Pactola Reservoir Inflow (2)							
MAR-JUL	42	53	60	231	67	78	26
APR-JUL	31	42	51	222	60	76	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.
- (3) - Median value used in place of average.

=====				
BELLE FOURCHE & CHEYENNE RIVER BASINS				
Reservoir Storage (1000AF) End of February				
=====				
Reservoir	Usable Capacity	***** This Year	Usable Storage Last Year	***** Average
=====				
ANGOSTURA	122.1	108.9	75.8	101.7
BELLE FOURCHE	178.4	157.8	137.3	113.0
DEERFIELD	15.2	14.7	14.1	13.2
KEYHOLE	193.8	113.3	101.6	105.9
PACTOLA	55.0	52.9	53.4	46.0
SHADEHILL	81.4	53.3	48.4	50.0

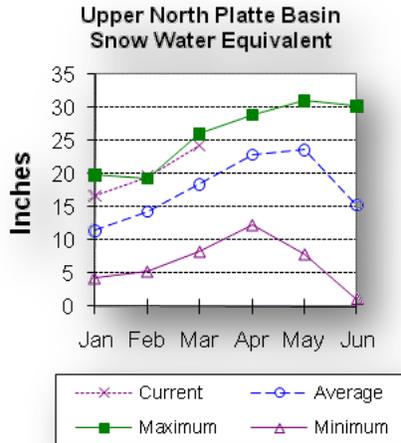
=====			
BELLE FOURCHE & CHEYENNE RIVER BASINS			
Watershed Snowpack Analysis - March 1, 2011			
=====			
Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
=====			
BELLE FOURCHE	8	157	144

Upper North Platte River Basin

Snow

The SNOTELS and snow courses above Seminoe Reservoir are showing about 132% of average (SWE) for this time of the year. SWE in the drainage area above Northgate is 130% of average at this time. SWE in the Encampment River drainage is about 126% of average. Brush Creek SWE for the year is about 148% of average.

Medicine Bow and Rock Creek drainages SWE are about 127% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.



Precipitation

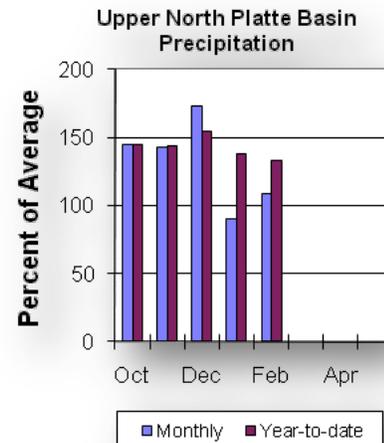
Eight reporting stations show last month's precipitation at 109% of average or 115% of last year's amount. Precipitation varied from 98-171% of average last month. Total water-year-to-date precipitation is about 133% of average for the basin, which is about 131% of last year's amount. Year to date percentage ranges from 98-159% of average.

Reservoirs

Seminoe Reservoir is estimated to be storing 793,400 ac-ft or 78% of capacity. Seminoe Reservoir is also storing about 150% of average for this time of the year and 117% 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 and are expected to be above average for the Upper North Platte River Basin. Yield for the North Platte River near Northgate will be around 395,000 ac-ft (146% of average). The Encampment River near Encampment is 220,000 ac-ft (133% of average). Rock Creek near Arlington is 73,000 ac-ft (128% of average). The Sweetwater River near Alcova forecast is for 81,000 ac-ft (101% of average). Seminoe Reservoir inflow should be around 1,200,000 ac-ft (140% of average). See the following table for more detailed information on projected runoff.



Upper North Platte River Basin

Streamflow Forecasts - March 1, 2011

```

=====
<=== 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)
=====
North Platte R nr Northgate
APR-JUL     250    315    360    147    405    470    245
APR-SEP     270    345    395    146    445    520    270

Encampment R nr Encampment
APR-JUL     168    193    210    135    225    250    156
APR-SEP     175    200    220    133    240    265    165

Rock Ck nr Arlington
APR-JUL     52     62     68    128     74     84     53
APR-SEP     56     66     73    128     80     90     57

Sweetwater R nr Alcova
APR-JUL     47     64     76    103     88    105     74
APR-SEP     49     68     81    101     94    113     80

Seminoe Reservoir Inflow (2)
APR-JUL     755    1010    1120    140    1350    1600    800
APR-SEP     805    1080    1200    140    1460    1730    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.
- (3) - Median value used in place of average.

```

=====
UPPER NORTH PLATTE RIVER BASIN
Reservoir Storage (1000AF) End of February
=====

```

```

Reservoir          Usable          ***** Usable Storage *****
                   Capacity          This Year    Last Year    Average
=====
SEMINOE            1016.7          793.4        676.2        527.4
=====

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=====
UPPER NORTH PLATTE RIVER BASIN
Watershed Snowpack Analysis - March 1, 2011
=====

```

```

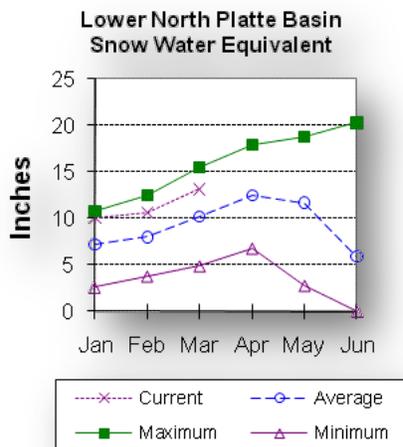
Watershed          Number of          This Year as Percent of
                   Data Sites          Last Year    Average
=====
N PLATTE above Northgate      7          176          130
ENCAMPMENT RIVER              4          149          126
BRUSH CREEK                   5          135          148
MEDICINE BOW & ROCK CREEKS    3          137          127
N PLATTE above Seminoe       19          152          132
=====

```

Lower North Platte River Basin

Snow

SWE for the North Platte River Basin is at 129% of average. The Sweetwater drainage SWE is currently at 100% of average. Deer and LaPrele Creek SWE are at 117% of average. SWE for the North Platte above the Laramie River drainage is 128% of average. SWE for the Laramie River above Laramie is 135% of average. SWE for the Little Laramie River is 130% of average. The Laramie River above mouth, SWE is 135% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.



Precipitation

Last month's precipitation was 102% of average or 127% of last year's amount. Of the 8 reporting stations, percentages for the month range from 24-143%. The water year-to-date precipitation for the basin is currently 128% of average (130% of last year). Year-to-date percentages range from 87-178% of average.

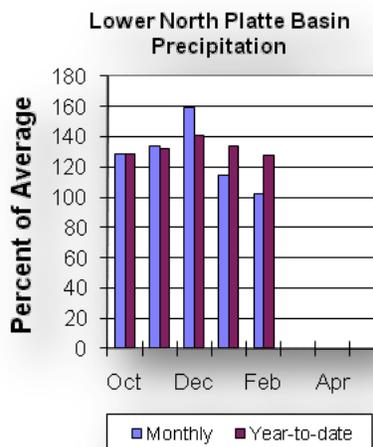
Reservoir

The Lower North Platte River basin reservoir storage is above average at 125%. Reservoir storage is as follows: Alcova 156,700 ac-ft (101% of average); Glendo 423,300 ac-ft (111% of average); Guernsey 21,400 ac-ft (151% of average);

Pathfinder 845,900 ac-ft (119% of average); Seminole 793,400 ac-ft (150% of average); and Wheatland #2 56,800 ac-ft (119% of average):

Streamflow

The following yields are based on the 50% exceedance forecasts for the April through September period. The Sweetwater River near Alcova is forecast to yield about 81,000 ac-ft (101% of average). Deer Creek at Glenrock is forecast to yield 49,000 ac-ft (132% of average). LaPrele Creek above the reservoir is forecast to yield 32,000 ac-ft (133% of average). North Platte - Alcova to Orin Gain is forecast to yield 191,000 ac-ft (119% of average). North Platte River below Glendo Reservoir is 1,400,000 ac-ft (141% of average), and below Guernsey Reservoir is anticipated to yield around 1,460,000 ac-ft (145% of average). Laramie River near Woods Landing should yield around 174,000 ac-ft (129% of average). The Little Laramie near Filmore should produce about 91,000 ac-ft (142% of average). See the following table for more detailed information on projected runoff.



Lower North Platte, Sweetwater & Laramie River Basins

Streamflow Forecasts - March 1, 2011

Forecast Pt	<=== Drier ===		Future Conditions		=== Wetter ===>		30 Yr Avg
	Chance of Exceeding *		Chance of Exceeding *		Chance of Exceeding *		
Forecast Period	90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)	(1000AF)	(1000AF)
Sweetwater R nr Alcova							
APR-JUL	47	64	76	103	88	105	74
APR-SEP	49	68	81	101	94	113	80
Deer Ck at Glenrock							
APR-JUL	19.0	33	48	130	63	86	37
APR-SEP	20	34	49	132	64	87	37
La Prele Ck ab La Prele Reservoir							
APR-JUL	12.1	23	31	129	39	50	24
APR-SEP	13.0	24	32	133	40	51	24
North Platte R-Alcova to Orin Gain							
APR-JUL	71	137	182	120	225	295	152
APR-SEP	75	144	191	119	240	305	161
North Platte R bl Glendo Res (2)							
APR-JUL	1170	1320	1360	142	1540	1690	960
APR-SEP	1210	1380	1400	141	1600	1770	990
North Platte R bl Guernsey Res (2)							
APR-JUL	1150	1350	1410	145	1610	1810	970
APR-SEP	1210	1410	1460	145	1690	1890	1010
Laramie R nr Woods							
APR-JUL	123	144	158	129	172	193	123
APR-SEP	135	158	174	129	190	215	135
Little Laramie R nr Filmore							
APR-JUL	63	75	83	141	91	103	59
APR-SEP	69	82	91	142	100	113	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.

(3) - Median value used in place of average.

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	156.7	156.2	155.6
GLENDO	506.4	423.3	308.4	381.4
GUERNSEY	45.6	21.4	18.9	14.2
PATHFINDER	1016.5	845.9	735.9	712.4
SEMINOE	1016.7	793.4	676.2	527.4
WHEATLAND #2	98.9	56.8	69.5	47.7

LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS

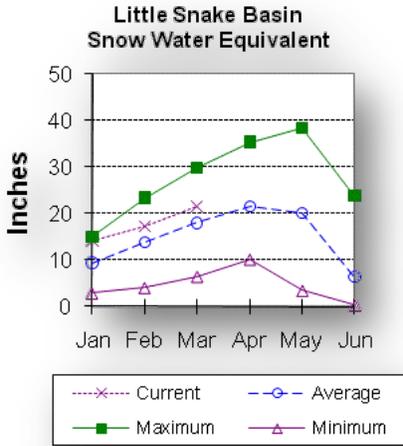
Watershed Snowpack Analysis - March 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SWEETWATER	4	170	100
DEER & LaPRELE CREEKS	2	145	117
N PLATTE abv Laramie R.	25	153	128
LARAMIE RIVER abv Laramie	10	149	135
LITTLE LARAMIE RIVER	5	143	130
LARAMIE RIVER above mouth	13	151	135
NORTH PLATTE	31	152	129

Little Snake River Basin

Snow

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



Precipitation

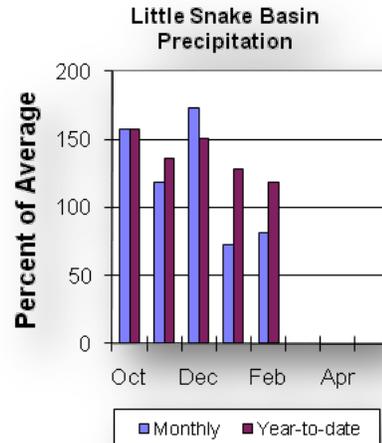
Precipitation across the basin was 81% of average (99% of last year) for the 5 reporting stations. Last month's precipitation ranged from 18-151% of average. The Little Snake River basin water-year-to-date precipitation is currently 119% of average (133% of last year). Year-to-date percentages range from 90-141% of average.

Reservoir

High Savery Dam -Pending

Streamflow

The 50% exceedance forecast for the April through July time frame on the Little Snake River drainage is expected to be above average this year. The Little Snake River near Slater should yield around 200,000 ac-ft (126% of average). The Little Snake River near Dixon is estimated to yield around 420,000 ac-ft (127% of average). See the following table for more detailed information on projected runoff.



Little Snake River Basin

Streamflow Forecasts - March 1, 2011

```

=====
<=== 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 R nr Slater
APR-JUL     149      178      200      126      225      260      159

Little Snake R nr Dixon
APR-JUL     295      365      420      127      480      560      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.
- (3) - Median value used in place of average.

```

=====
LITTLE SNAKE RIVER BASIN
Watershed Snowpack Analysis - March 1, 2011
    
```

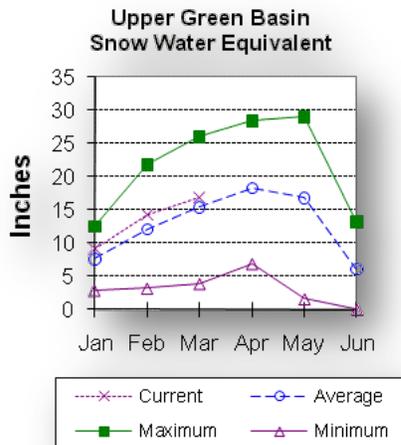
```

=====
Watershed          Number of          This Year as Percent of
                   Data Sites          Last Year          Average
=====
LITTLE SNAKE RIVER          8          140          120
=====
    
```

Upper Green River Basin

Snow

SWE in the Green River Basin above Warren Bridge is about 108% of average. SWE for the West Side of Upper Green River Basin is about 115% of average. Newfork River Basin SWE is now about 94% of average. Big Sandy-Eden Valley Basin is 91% of average. SWE in the Green River Basin above Fontenelle Reservoir is about 110% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.



Precipitation

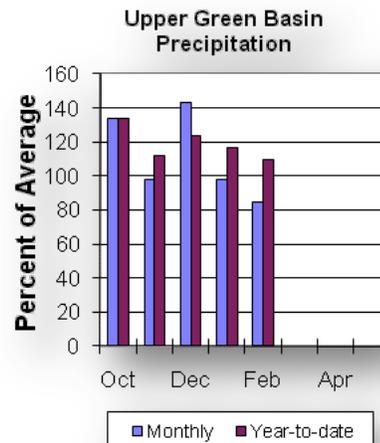
The 11 reporting precipitation sites in the basin were 85% of average last month (204% of last year). Last month's precipitation varied from 52-103% of average. Water year-to-date precipitation is about 110% of average (189% of last year). Year to date percentage of average ranges from 88-129% for the reporting stations.

Reservoir

Storage in Big Sandy Reservoir is 18,500 ac-ft or 48% of capacity. This is 97% of average. Eden Reservoir - No Report. Fontenelle Reservoir is 157,600 ac-ft or 46% of capacity; 101% of average. This is 101% 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 to be about average. The yield on the Green River at Warren Bridge is 270,000 ac-ft (102% of average). Pine Creek above Fremont Lake is 105,000 ac-ft (101% of average). New Fork River near Big Piney is 390,000 ac-ft (99% of average). Fontenelle Reservoir Inflow is estimated to be 870,000 ac-ft (101% of average), and Big Sandy near Farson is expected to be around 58,000 ac-ft (100% of average). See the following table for more detailed information on projected runoff.



Upper Green River Basin

Streamflow Forecasts - March 1, 2011

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>					30 Yr Avg (1000AF)	
	Chance of Exceeding * (1000AF) (1000AF) (1000AF) (% AVG.) (1000AF) (1000AF)						
Green R at Warren Bridge							
APR-JUL	215	250	270	102	295	330	265
Pine Ck ab Fremont Lake							
APR-JUL	89	98	105	101	112	122	104
New Fork R nr Big Piney							
APR-JUL	285	345	390	99	440	515	395
Fontenelle Reservoir Inflow (2)							
APR-JUL	590	750	870	101	995	1200	860
Big Sandy R nr Farson							
APR-JUL	42	51	58	100	65	77	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.
- (3) - Median value used in place of average.

UPPER GREEN RIVER BASIN Reservoir Storage (1000AF) End of February

Reservoir	Usable Capacity	***** This Year	Usable Storage Last Year	***** Average
BIG SANDY	38.3	18.5	19.3	19.1
FONTENELLE	344.8	157.6	124.6	156.1

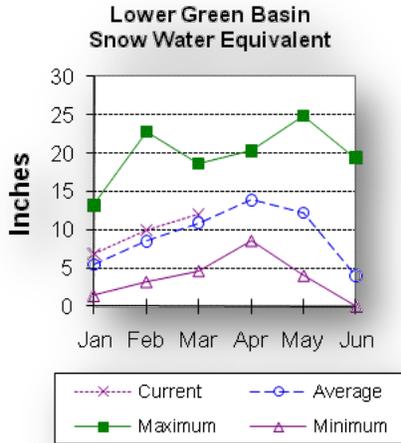
UPPER GREEN RIVER BASIN Watershed Snowpack Analysis - March 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
GREEN above Warren Bridge	5	243	108
UPPER GREEN (West Side)	7	192	115
NEWFORK RIVER	3	158	94
BIG SANDY/EDEN VALLEY	2	194	91
GREEN above Fontenelle	14	194	110

Lower Green River Basin

Snow

SWE in the Green River Basin above Flaming Gorge is 110% of average. SWE in the Hams Fork Basin is 121% of average. Blacks Fork Basin SWE is currently 110% of average. In the Henrys Fork drainage SWE is 115%. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.



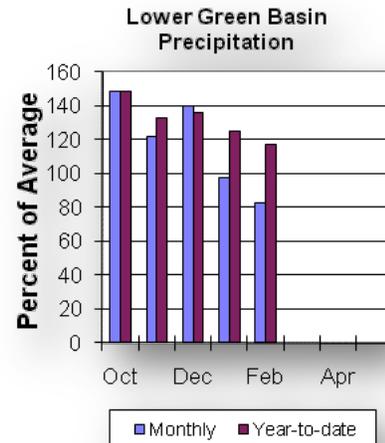
Precipitation

Precipitation was below average for the 3 reporting stations during last month at 83% of average or 160% of last year. Precipitation ranged from 75-95% of average for the month. The basin year-to-date precipitation is currently 117% of average (190% of last year). Year-to-date percentages range from 117-127% of average.

Reservoirs

Fontenelle Reservoir is currently storing 157,600 ac-ft; this is 101% of average (126% of last year). Flaming Gorge is

currently storing 3,104,000 ac-ft; this is 106% of average (98% of last year). Viva Naughton is currently storing 29,900 ac-ft, 103% of average or 71% 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 50% exceedance forecasts for the April through July runoff period in the Lower Green River Basin are forecast to be above average. The Green River near Green River is forecast to yield about 890,000 ac-ft (102% of average). The Blacks Fork near Robertson is forecast to yield 110,000 ac-ft (116% of average). East Fork of Smiths Fork near Robertson is forecast to yield 36,000 ac-ft (124% of average). Hams Fork below Pole Creek near Frontier is forecast to be 80,000 ac-ft (123% of average). The Hams Fork Inflow to Viva Naughton Reservoir is forecast to be 110,000 ac-ft (124% of average). The Flaming Gorge Reservoir inflow will be about 1,210,000 ac-ft (102% of average). See the following table for more detailed information on projected runoff.

Lower Green River Basin

Streamflow Forecasts - March 1, 2011

Forecast Pt	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg
Forecast Period	90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)	10% (1000AF)	(1000AF)
Green R nr Green River, WY (2)							
APR-JUL	625	785	890	102	995	1150	875
Blacks Fk nr Robertson							
APR-JUL	79	97	110	116	124	146	95
EF of Smiths Fork nr Robertson (2)							
APR-JUL	25	31	36	124	41	49	29
Hams Fk bl Pole Ck nr Frontier							
APR-JUL	57	70	80	123	90	107	65
Viva Naughton Reservoir Inflow (2)							
APR-JUL	75	96	110	124	124	145	89
Flaming Gorge Reservoir Inflow (2)							
APR-JUL	795	1030	1210	102	1400	1710	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.
- (3) - Median value used in place of average.

LOWER GREEN RIVER BASIN Reservoir Storage (1000AF) End of February

Reservoir	Usable Capacity	***** This Year	***** Usable Storage Last Year	***** Average
FONTENELLE	344.8	157.6	124.6	156.1
FLAMING GORGE	3749.0	3104.0	3181.0	2919.0
VIVA NAUGHTON RES	42.4	29.9	----	29.1

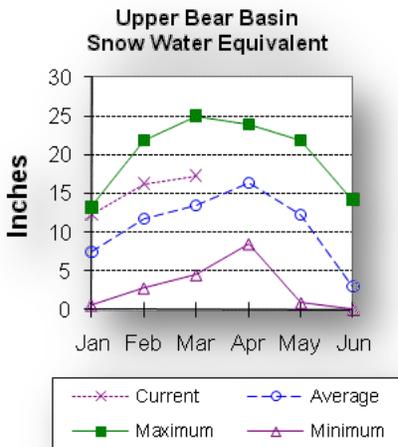
LOWER GREEN RIVER BASIN Watershed Snowpack Analysis - March 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
HAMS FORK RIVER	4	198	121
BLACKS FORK	4	181	110
HENRYS FORK	2	140	115
GREEN above Flaming Gorge	24	192	110

Upper Bear River Basin

Snow

Snow water equivalent (SWE) in the Upper Bear River Basin in Utah is estimated to be 138% of average. SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is at 119% of average. Bear River Basin SWE, above the Idaho State line, is 129% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.



Precipitation

Precipitation for last month was 86% of average for the 2 reporting stations; this is 160% of the precipitation received last year. The year-to-date precipitation, for the basin, is 116% of average; this is 199% of last year's

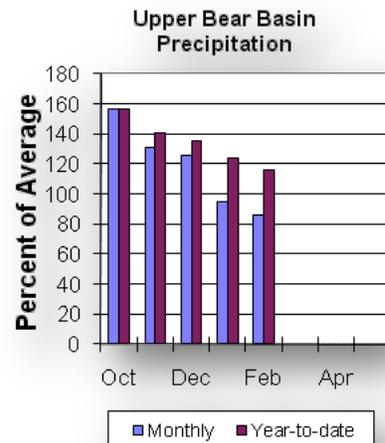
amount.

Reservoir

Storage in Woodruff Narrows reservoir is 45,000 ac-ft (163% of average). Current reservoir storage is about 79% of capacity. Reservoir storage last year at this time was 48,000 ac-ft.

Streamflow

The following 50% exceedance forecasts are for the April through September period. The Bear River near the Utah-Wyoming State Line is 180,000 ac-ft (144% of average). The Bear River above Reservoir near Woodruff is 205,000 ac-ft (144% of average). The Smiths Fork River near Border is 155,000 ac-ft (128% of average). See the following table for more detailed information on projected runoff.



Upper Bear River Basin

Streamflow Forecasts - March 1, 2011

```

=====
| <=== 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 R nr UT-WY State Line
APR-JUL     128    147    160    142    173    192    113
APR-SEP     143    165    180    144    195    215    125

Bear R abv Resv nr Woodruff
APR-JUL     138    166    185    136    205    230    136
APR-SEP     157    185    205    144    225    255    142

Smiths Fork nr Border
APR-JUL     103    119    130    126    141    157    103
APR-SEP     124    142    155    128    168    186    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.
- (3) - Median value used in place of average.

```

=====
UPPER BEAR RIVER BASIN
Reservoir Storage (1000AF) End of February
=====
Reservoir          Usable          ***** Usable Storage *****
                   Capacity          This Year          Last Year          Average
=====
WOODRUFF NARROWS          57.3          45.0          48.0          27.6
=====

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```

=====
UPPER BEAR RIVER BASIN
Watershed Snowpack Analysis - March 1, 2011
=====
Watershed          Number of          This Year as Percent of
                   Data Sites          Last Year          Average
=====
UPPER BEAR RIVER in Utah          6          230          138
SMITHS & THOMAS FORKS          4          190          119
BEAR RIVER abv ID line          8          222          129
NORTHWEST          75          184          106
NORTHEAST          23          150          117
SOUTHEAST          35          154          127
SOUTHWEST          33          178          114
=====

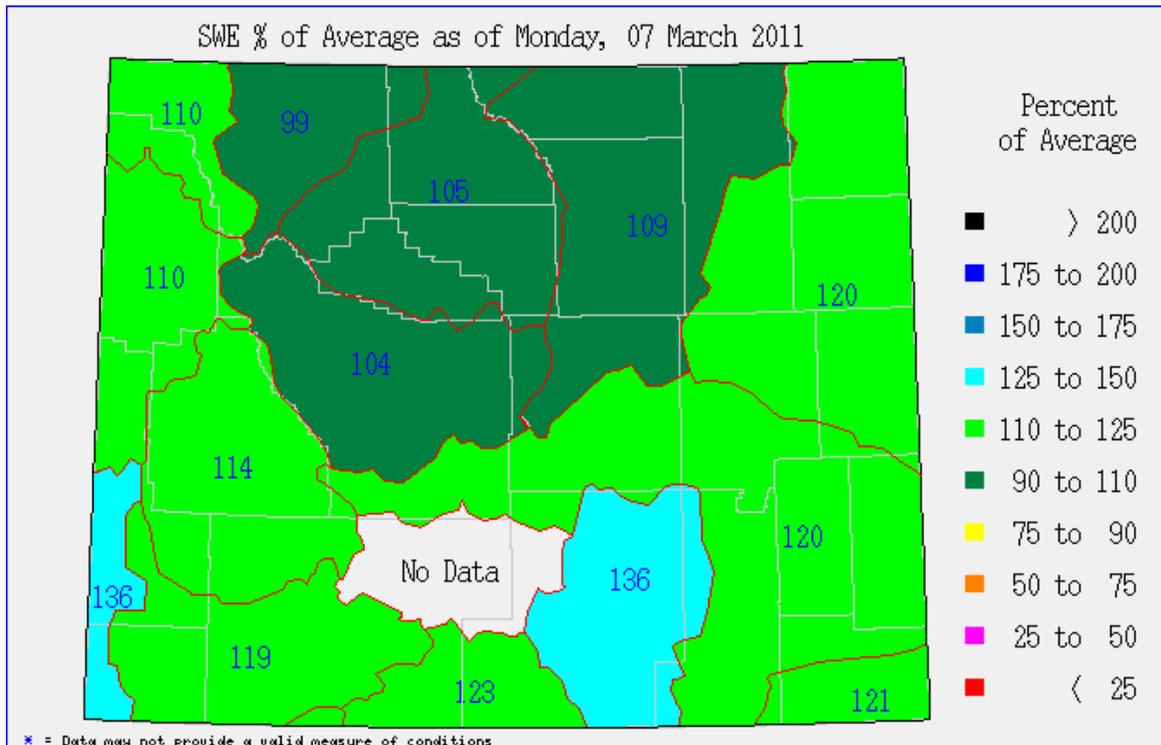
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Issued by

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U.S. Department of Agriculture
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State Conservationist
N R C S
Casper, Wyoming



The Following Agencies and Organizations Cooperate with the Natural Resources Conservation Service on the Snow Survey Work.

FEDERAL:

United States Department of the Interior (National Park Service)

United States Department of Agriculture (Forest Service)

United States Department of the Interior (Bureau of Reclamation)

United States Department of Commerce NOAA (National Weather Service)

State:

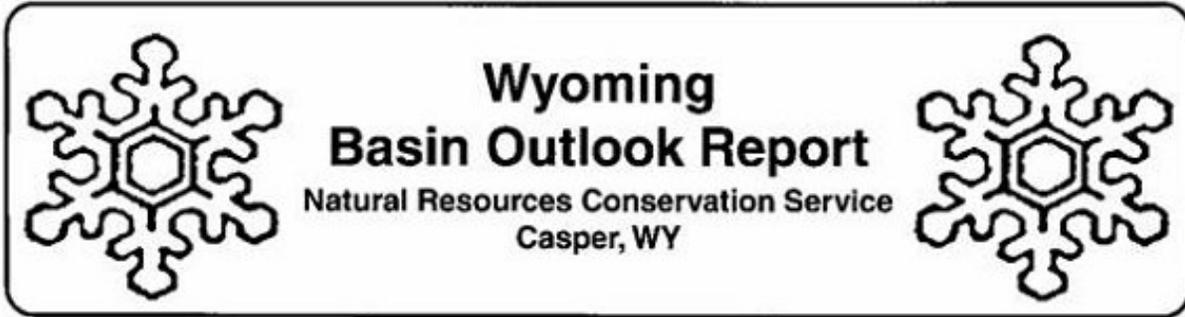
The Wyoming State Engineer's Office

The University of Wyoming

Local:

The City of Cheyenne

The City of Rawlins



Wyoming
Basin Outlook Report
Natural Resources Conservation Service
Casper, WY



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