

Wyoming Basin Outlook Report

April 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 April 1st at 123%. March precipitation for the basins varied from 96-169% of average. Year-to-date precipitation for Wyoming basins varied from 98-171% of average. Forecasted runoff varies from 100-222% of average across the Wyoming basins for an overall average of 125%. Basin reservoir levels for Wyoming vary from 82-191% of average for an overall average of 109%.

Snowpack

Snow water equivalent (SWE), across Wyoming is above average for this time of year at 123%. SWE in the NW portion of Wyoming is now about 117% of average (197% of last year). NE Wyoming SWE is currently about 117% of average (153% of last year). The SE Wyoming SWE is currently about 133% of average (154% of last year). The SW Wyoming SWE is about 124% of average (187% of last year).

Precipitation

Last month's precipitation was well above average across Wyoming. The Yellowstone & Madison Basins had the highest precipitation for the month at 169% of average. The Wind River Basin had the lowest precipitation amount at 96% 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	+60%	Upper North Platte River	+51%
Yellowstone & Madison	+69%	Lower North Platte	+10%
Wind River	-04%	Little Snake River	+49%
Big Horn	+15%	Upper Green River	+54%
Shoshone & Clarks Fork	+64%	Lower Green River	+11%
Powder & Tongue River	+08%	Upper Bear River	+25%
Belle Fourche & Cheyenne	+37%		

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 125% (varying from 100-222% of average). The Snake River and Upper Yellowstone & Madison River Basins are expected to yield about 130% and 121% of average, respectively; 109-145% of average for the various forecast points in the basins: Yields from the Wind and Bighorn River Basins are expected to be about 106% and 108% of average, respectively; varying from 88-118% of average in the basins: Yields from the Shoshone and Clarks Fork River Basins of Wyoming are expected to yield about 109% and 125% of average, respectively; varying from 108-125% of average: Yields from the Tongue & Powder River Basins are expected to be about 106% and 108% of average, respectively; varying from 95-131% 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 155% and 158% of average, respectively; varying from 86-172% of average: Yields for the Little Snake, Green River, and Little Bear of Wyoming are expected to be 156%, 113%, and 155% of average respectively; yield estimates vary from 107-156% 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 114% of average. Reservoirs in the northeast are above average in storage at 116%. Reservoirs in the Wind River Basin are near average at 99%. Reservoirs on the Big Horn are slightly above average at 104%. The Buffalo Bill Reservoir on the Shoshone is above average at 111%. Reservoirs on the Green River are slightly above average at 102%. See the following table for further information about reservoir storage.

Major Reservoirs in Wyoming April 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	86	87	98	100
ANGOSTURA	87	69	90	97	127
BELLE FOURCHE	92	84	73	125	110
BIG SANDY	48	52	54	88	92
BIGHORN LAKE	64	68	60	107	93
BOYSEN	93	93	93	100	100
BUFFALO BILL	67	66	60	111	102
BULL LAKE	46	53	56	82	87
DEERFIELD	97	94	89	109	103
ENNIS LAKE	72	73	76	95	99
FLAMING GORGE	84	85	78	108	99
FONTENELLE	40	32	41	96	123
GLENDO	75	72	84	89	105
GRASSY LAKE	89	85	81	110	105
GUERNSEY	46	48	45	103	96
HEBGEN LAKE	73	80	69	107	92
JACKSON LAKE	78	75	57	136	105
KEYHOLE	68	54	59	117	126
PACTOLA	96	98	85	113	99
PALISADES	60	89	67	89	67
PATHFINDER	83	72	73	114	115
PILOT BUTTE	78	83	69	113	94
SEMINOE	70	68	49	143	103
SHADEHILL	105	79	78	135	132
TONGUE RIVER	73	73	38	191	100
VIVA NAUGHTON RES	69	61	66	105	113
WHEATLAND #2	58	82	55	106	71
WOODRUFF NARROWS	99	89	57	174	112
TOTAL 28 RESERVOIRS	75	77	69	109	97

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

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
ALBANY	9400	3/31/11	60	19.4	13.8	13.7
ASTER CREEK	7750	3/30/11	95	34.0	12.4	30.5
BALD MOUNTAIN SNOTEL	9380	4/01/11	81	24.0	13.1	19.9
BASE CAMP SNOTEL	7030	4/01/11	---	22.2	9.0	18.1
BATTLE MTN. SNOTEL	7440	4/01/11	44	11.5	9.5	11.0
BEARLODGE DIVIDE	4680	3/31/11	11	3.5	.0	1.3
BEARTOOTH LK. SNOTEL	9280	4/01/11	91	27.2	13.5	23.6
BEAR TRAP SNOTEL	8200	4/01/11	36	8.8	6.6	5.2
BIG GOOSE SNOTEL	7760	4/01/11	35	8.6	7.5	10.7
BIG PARK	8620	3/31/11	74	26.6	12.7	19.4
BIG SANDY SNOTEL	9080	4/01/11	58	15.7	7.9	14.7
BLACKHALL MOUNTAIN	9820	4/01/11	114	39.0	24.7	--
BLACKWATER SNOTEL	9780	4/01/11	82	26.9	15.8	24.8
BLIND BULL SNOTEL	8900	4/01/11	99	33.7	14.5	28.3
BLUE RIDGE	9620	3/30/11	42	13.3	9.2	11.7
BONE SPGS. SNOTEL	9350	4/01/11	74	20.3	11.1	16.4
BROOKLYN LK. SNOTEL	10220	4/01/11	97	32.7	20.0	23.9
BURGESS JCT. SNOTEL	7880	4/01/11	42	10.9	9.3	11.7
BURROUGHS CRK SNOTEL	8750	4/01/11	58	15.8	8.4	14.8
CANYON SNOTEL	8090	4/01/11	60	17.5	8.0	13.9
CASPER MTN. SNOTEL	7850	4/01/11	36	10.9	14.6	14.6
CASTLE CREEK SNOTEL	8400	4/01/11	28	6.8	--	--
CASTLE CREEK	8400	3/29/11	27	5.4	1.0	4.8
CCC CAMP	7000	3/30/11	51	17.0	7.6	12.7
CHALK CK #1 SNOTEL	9100	4/01/11	86	32.5	17.4	24.9
CHALK CK #2 SNOTEL	8200	4/01/11	63	21.0	11.5	16.2
CINNABAR PARK SNOTEL	9690	4/01/11	90	25.7	19.4	17.9
CLOUD PEAK SNOTEL	9850	4/01/11	58	16.0	11.2	13.5
COLE CANYON SNOTEL	5910	4/01/11	27	8.5	5.2	6.9
COLD SPRINGS SNOTEL	9630	4/01/11	31	8.3	6.7	9.0
COTTONWOOD CR SNOTEL	7700	4/01/11	---	28.7	15.6	24.2
CROW CREEK SNOTEL	8830	4/01/11	28	9.6	10.4	9.0
DARBY CANYON	8250	4/01/11	84	28.2	14.6	24.5
DEER PARK SNOTEL	9700	4/01/11	59	19.1	13.8	17.1
DIVIDE PEAK SNOTEL	8860	4/01/11	69	24.8	20.2	20.0
DOMELAKE SNOTEL	8880	4/01/11	51	14.2	8.0	12.6
DU NOIR	8760	3/28/11	34	8.4	2.8	8.3
EAST RIM DIV SNOTEL	7930	4/01/11	---	16.2	4.9	13.3
ELBO RANCH	7100	3/31/11	14	32.0	4.8	11.6
ELKHART PARK SNOTEL	9400	4/01/11	---	14.3	7.6	13.6
EVENING STAR SNOTEL	9200	4/01/11	105	33.2	18.6	30.1
FOUR MILE MEADOWS	7860	3/29/11	48	15.6	6.9	12.8
FOXPARK	9060	3/30/11	38	11.4	9.6	7.6
GEYSER CREEK	8500	3/28/11	28	6.3	2.3	7.1
GLADE CREEK	7040	3/31/11	78	27.1	13.2	24.3
GRAND TARGHEE SNOTEL	9260	4/01/11	136	48.8	34.1	--
GRANITE CRK SNOTEL	6770	4/01/11	---	22.9	8.8	18.6
GRANNIER MEADOWS	8860	3/30/11	49	14.9	8.5	14.1
GRASSY LAKE SNOTEL	7270	4/01/11	111	40.6	20.2	36.1
GRAVE SPRINGS SNOTEL	8550	4/01/11	36	9.2	8.6	9.4
GROS VENTRE SNOTEL	8750	4/01/11	52	14.9	7.5	14.4
GROVER PARK DIVIDE	7000	3/30/11	45	13.6	6.3	11.2

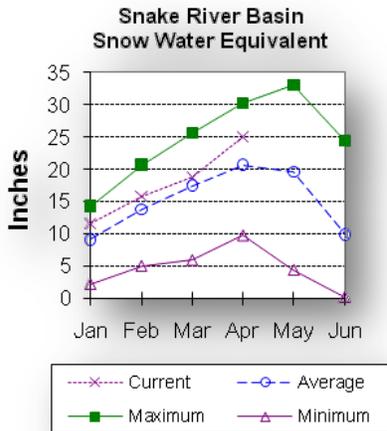
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
HAIRPIN TURN	9480	3/28/11	67	22.7	13.8	16.3
HANSEN S.M. SNOTEL	8360	4/01/11	29	7.2	5.5	6.5
HAMS FORK SNOTEL	7840	4/01/11	49	17.4	7.3	12.0
HASKINS CREEK	8980	3/30/11	123	41.2	26.2	30.0
HOBACK GS	6640	3/29/11	40	11.1	4.6	--
HOBBS PARK SNOTEL	10100	4/01/11	49	14.6	14.3	15.1
HUCKLEBERRY DIVIDE	7300	3/31/11	68	23.9	10.4	21.3
INDIAN CREEK SNOTEL	9430	4/01/11	---	32.3	17.2	28.2
JACKPINE CREEK	7350	4/01/11	72	26.2	14.8	22.2
KELLEY R.S. SNOTEL	8180	4/01/11	---	21.5	9.8	17.1
KENDALL R.S. SNOTEL	7740	4/01/11	46	14.2	5.4	14.6
KIRWIN SNOTEL	9550	4/01/11	46	11.9	8.7	11.5
LAKE CAMP	7780	3/31/11	50	14.9	6.5	10.4
LA PRELE SNOTEL	8380	4/01/11	44	13.1	9.5	11.0
LARSEN CREEK	9020	3/28/11	52	13.5	--	12.7
LARSEN CREEK SNOTEL	9020	4/01/11	48	15.9	--	--
LEWIS LAKE SNOTEL	7850	4/01/11	114	41.8	17.1	35.8
LEWIS LAKE DIVIDE	7850	3/30/11	130	49.0	21.4	42.4
LIBBY LODGE	8750	3/28/11	50	16.1	10.1	10.9
LITTLE BEAR RUN	6240	3/29/11	19	5.1	1.6	2.4
LITTLE GOOSE SNOTEL	8870	4/01/11	41	9.7	--	--
LITTLE WARM SNOTEL	9370	4/01/11	46	12.7	6.8	12.0
LOOMIS PARK SNOTEL	8240	4/01/11	---	21.6	7.4	17.5
LUPINE CREEK	7380	3/30/11	34	10.2	4.8	9.3
MALLO	6420	3/29/11	31	10.0	5.8	6.5
MARQUETTE SNOTEL	8760	4/01/11	12	3.1	6.6	9.0
MEDICINE LODGE LAKES	9340	3/29/11	58	15.1	8.9	11.1
MIDDLE FORK	7420	3/30/11	24	5.4	6.9	6.0
MIDDLE POWDER SNOTEL	7760	4/01/11	38	10.9	9.5	11.8
MORAN	6750	3/31/11	40	12.8	6.1	12.4
MOSS LAKE	9800	0/00/11	105	34.4	22.6	23.6
NEW FORK SNOTEL	8340	4/01/11	46	13.3	5.0	11.3
NORRIS BASIN	7500	3/27/11	41	10.9	5.3	10.8
NORTH BARRETT CREEK	9400	3/31/11	101	33.0	24.2	21.5
NORTH FRENCH SNOTEL	10130	4/01/11	139	46.5	33.4	29.5
NORTH TONGUE	8450	3/30/11	47	13.0	8.3	13.0
OLD BATTLE SNOTEL	9920	4/01/11	133	43.7	30.1	32.4
OLD FAITHFUL	7400	3/31/11	53	18.3	6.0	13.9
ONION GULCH	8780	3/25/11	31	8.1	7.0	8.3
OWL CREEK SNOTEL	8980	4/01/11	25	5.8	5.7	5.6
PARKERS PEAK SNOTEL	9400	4/01/11	107	29.8	17.5	21.9
PHILLIPS BNCH SNOTEL	8200	4/01/11	95	33.6	16.3	29.2
POCKET CREEK	9350	3/28/11	51	13.2	--	13.2
POCKET CREEK SNOTEL	9350	4/01/11	56	12.8	9.6	--
POLE MOUNTAIN	8700	3/30/11	41	11.7	12.1	8.4
POWDER RVR.PASS SNTL	9480	4/01/11	61	15.0	8.7	10.9
PURGATORY GULCH	8970	3/29/11	50	15.6	11.6	11.8
RANGER CREEK	8120	3/29/11	44	10.8	6.3	8.9
RENO HILL SNOTEL	8500	4/01/11	48	14.2	15.9	14.3
REUTER CANYON	6280	3/31/11	36	12.1	6.9	8.6
ROWDY CREEK	8300	3/29/11	75	23.6	9.0	21.6
RYAN PARK	8400	3/31/11	55	17.6	11.4	10.8
SAGE CK BASIN SNTL	7850	4/01/11	58	21.6	15.3	11.6
SALT RIVER SNOTEL	7600	4/01/11	---	18.2	9.1	14.6
SAND LAKE SNOTEL	10050	4/01/11	---	38.1	29.4	32.7
SANDSTONE RS SNOTEL	8150	4/01/11	65	18.3	11.3	14.8
SAWMILL DIVIDE	9260	3/30/11	56	13.8	10.1	13.0

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
SHELL CREEK SNOTEL	9580	4/01/11	80	18.2	11.1	14.9
SHERIDAN R.S.	7750	3/28/11	26	5.8	1.5	5.8
SNAKE RIVER STATION	6920	3/30/11	70	22.2	10.0	20.9
SNAKE RV STA SNOTEL	6920	4/01/11	45	21.5	8.8	19.2
SNIDER BASIN SNOTEL	8060	4/01/11	61	21.4	8.8	14.7
SOLDIER PARK SNOTEL	8780	4/01/11	32	8.2	--	--
SOUR DOUGH	8460	3/28/11	29	6.9	6.5	7.1
SOUTH BRUSH SNOTEL	8440	4/01/11	51	18.9	13.2	13.2
SOUTH PASS SNOTEL	9040	4/01/11	57	17.5	12.4	16.7
SPRING CRK. SNOTEL	9000	4/01/11	103	36.5	16.5	26.9
ST LAWRENCE ALT SNTL	8620	4/01/11	18	4.9	7.3	7.4
SUCKER CREEK SNOTEL	8880	4/01/11	54	13.6	10.9	11.8
SYLVAN LAKE SNOTEL	8420	4/01/11	77	25.2	13.2	22.8
SYLVAN ROAD SNOTEL	7120	4/01/11	51	16.4	7.0	12.9
T CROSS RANCH	7900	3/28/11	30	6.6	1.4	7.2
TETON PASS W.S.	7740	4/01/11	86	29.8	14.0	27.6
THUMB DIVIDE SNOTEL	7980	4/01/11	65	22.6	9.2	19.2
THUMB DIVIDE	7980	3/30/11	62	19.4	7.3	19.1
TIE CREEK SNOTEL	6870	4/01/11	22	6.9	2.0	6.1
TIMBER CREEK SNOTEL	7950	4/01/11	18	4.3	4.1	5.8
TOGWOTEE PASS SNOTEL	9580	4/01/11	94	29.5	16.8	25.2
TOWNSEND CRK SNOTEL	8700	4/01/11	35	8.8	10.6	8.8
TRIPLE PEAK SNOTEL	8500	4/01/11	96	34.2	16.3	25.2
TURPIN MEADOWS	6900	3/29/11	42	13.8	4.9	10.2
TWO OCEAN SNOTEL	9240	4/01/11	---	32.9	19.2	28.4
TYRELL RANGER STA.	8300	3/25/11	34	8.9	4.0	7.6
WEBBER SPRING SNOTEL	9250	4/01/11	90	31.9	21.6	26.4
WHISKEY PARK SNOTEL	8950	4/01/11	106	37.5	25.4	30.4
WILLOW CREEK SNOTEL	8450	4/01/11	104	37.4	20.1	30.6
WINDY PEAK SNOTEL	7900	4/01/11	34	10.6	8.7	8.1
WOLVERINE SNOTEL	7650	4/01/11	45	15.4	7.0	11.6
WOOD ROCK G.S.	8440	3/30/11	40	9.4	7.1	10.2
YOUNTS PEAK SNOTEL	8350	4/01/11	61	18.1	9.9	17.3

Snake River Basin

Snow

The Snake River Basin snow water equivalent (SWE) is above average at 121%. SWE in the Snake River Basin above Jackson Lake is 113% of average. Pacific Creek Basin SWE is 115% of average. Gros Ventre River Basin SWE is 143% of average. SWE in the Hoback River drainage is 119% of average. SWE in the Greys River drainage is 124% of average. In the Salt River area SWE is 123% of average. SWE in the Snake River Basin above Palisades is 121% 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 above average last month. Monthly precipitation for the basin was 160% of average (273% of last year). Last month's percentages range from 85-214% of average for the 16 reporting stations. Water-year-to-date precipitation is 115% of average for the Snake River Basin (191% of last year). Year-to-date percentages range from 99-129% of average.

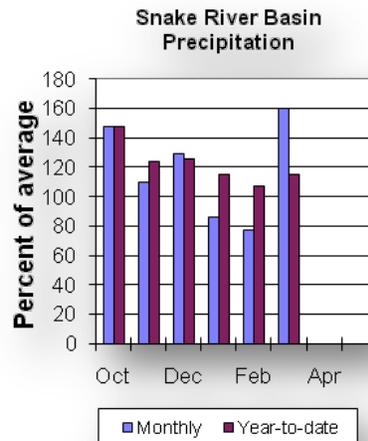
Reservoir

Current reservoir storage is 105% of average for the 3 storage reservoirs in the basin. Grassy Lake storage is about

110% of average (13,500 ac-ft compared to 12,900 last year). Jackson Lake storage is 136% of average (659,500 ac-ft compared to 631,100 ac-ft last year). Palisades Reservoir storage is about 89% of average (833,600 ac-ft compared to 1,248,700 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 above average for the basin. The Snake near Moran is 1,100,000 ac-ft (122% of average). Snake River above reservoir near Alpine is 3,360,000 ac-ft (123% of average). The Snake near Irwin is 4,940,000 ac-ft (128% of average). The Snake near Heise is 5,300,000 ac-ft (127% of average). Pacific Creek near Moran is 230,000 ac-ft (129% of average). Buffalo Fork above Lava near Moran is 390,000 ac-ft (113% of average). Gros Ventre River at Kelly is 295,000 ac-ft (121% of average). Greys River above Palisades Reservoir is 540,000 ac-ft (137% of average). Salt River near Etna is 610,000 ac-ft (145% of average). See the following page for detailed runoff volumes.



Snake River Basin

Streamflow Forecasts - April 1, 2011

Forecast Pt	<=== Drier ===		Future Conditions			=== Wetter ===>	
Forecast	Chance of Exceeding * =====						
Period	90%	70%	50%	30%	10%	30 Yr Avg	
	(1000AF)	(1000AF)	(1000AF) (% AVG.)	(1000AF)	(1000AF)	(1000AF)	
=====							
Snake R nr Moran (1,2)							
APR-JUL	840	935	980	120	1020	1120	815
APR-SEP	895	1010	1060	117	1110	1220	905
Snake R ab Res nr Alpine (1,2)							
APR-JUL	2620	2840	2940	124	3040	3260	2370
APR-SEP	2950	3230	3360	123	3490	3770	2730
Snake R nr Irwin (1,2)							
APR-JUL	3690	4010	4160	125	4310	4630	3330
APR-SEP	4120	4490	4660	120	4830	5200	3870
Snake R nr Heise (2)							
APR-JUL	3980	4220	4380	123	4540	4780	3560
APR-SEP	4560	4840	5030	121	5220	5500	4160
Pacific Ck at Moran							
APR-JUL	179	205	220	129	235	260	171
APR-SEP	188	215	230	129	245	270	178
Buffalo Fork ab Lava nr Moran							
APR-JUL	295	325	345	115	365	395	301
APR-SEP	330	365	390	113	415	450	344
Gros Ventre R at Kelly							
APR-JUL	194	235	260	130	285	325	200
APR-SEP	225	265	295	121	325	365	244
Greys R nr Alpine							
APR-JUL	405	435	455	134	475	505	340
APR-SEP	455	490	515	130	540	575	395
Salt R nr Etna							
APR-JUL	355	415	455	134	495	555	340
APR-SEP	415	490	545	130	600	675	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.

Reservoir Storage (1000AF) End of March

Reservoir	Usable Capacity	***** This Year	***** Usable Storage Last Year	***** Average
GRASSY LAKE	15.2	13.5	12.9	12.3
JACKSON LAKE	847.0	659.5	631.1	486.6
PALISADES	1400.0	833.6	1248.7	941.5

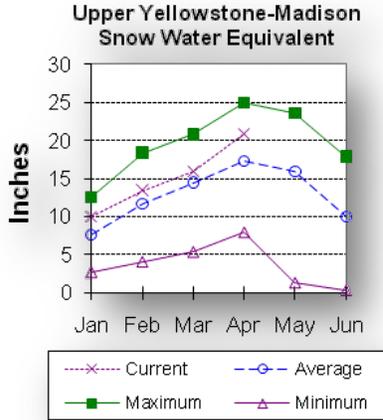
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SNAKE above Jackson Lake	9	221	114
PACIFIC CREEK	3	201	117
GROS VENTRE RIVER	4	211	116
HOBACK RIVER	5	253	119
GREYS RIVER	4	204	124
SALT RIVER	5	196	123
SNAKE above Palisades	28	221	118

Upper Yellowstone & Madison River Basins

Snow

Snowfall in these basins has been above average so far this year. Snow water equivalent (SWE) is at 121% of average in the Madison drainage. SWE in the Yellowstone drainage is at 121% 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 169% of average (254% of last year). The 5 reporting stations percentages range from 105-196% of average. Water-year-to-date precipitation is about 123% of average (188% of last year's amount). Year to date percentage ranges from 106-158%.

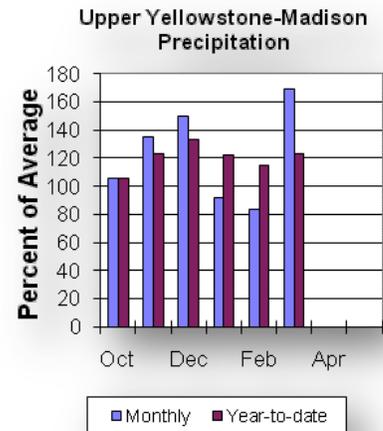
Reservoir

Ennis Lake is storing about 29,600 ac-ft of water (72% of capacity, 95% of average or 99% of

last year's volume). Hebgen Lake is storing about 276,800 ac-ft of water (73% of capacity, 107% of average or 92% 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 930,000 ac-ft (116% of average). Yellowstone at Corwin Springs will yield around 2,420,000 ac-ft (123% of average). Yellowstone near Livingston will yield around 2,760,000 ac-ft (121% of average). Hebgen Reservoir inflow is 550,000 ac-ft (109% of average). See the following page for detailed runoff volumes.



Upper Yellowstone & Madison River Basins

Streamflow Forecasts - April 1, 2011

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>					30 Yr Avg (1000AF)
	Chance of Exceeding * 90% 70% 50% 30% 10%					
	(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)
Yellowstone R at Yellowstone Lake						
APR-JUL	615	670	710	120	750	590
APR-SEP	805	880	930	116	980	805
Yellowstone R at Corwin Springs						
APR-JUL	1790	1960	2070	126	2180	1650
APR-SEP	2070	2280	2420	123	2560	1970
Yellowstone R at Livingston						
APR-JUL	2000	2210	2360	124	2510	1900
APR-SEP	2330	2590	2760	121	2930	2280
Hebgen Reservoir Inflow (2)						
APR-JUL	385	415	435	110	455	395
APR-SEP	490	525	550	109	575	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 March

Reservoir	Usable	***** Usable Storage *****		
	Capacity	This Year	Last Year	Average
ENNIS LAKE	41.0	29.6	29.9	31.2
HEBGEN LAKE	377.5	276.8	301.6	259.6

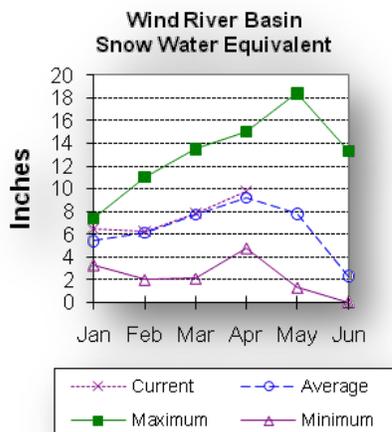
UPPER YELLOWSTONE & MADISON RIVER BASINS
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of	This Year as Percent of	
	Data Sites	Last Year	Average
MADISON RIVER in WY	8	228	121
YELLOWSTONE RIVER in WY	12	208	124

Wind River Basin

Snow

The Wind River Basin above Boysen Reservoir has above average snow water equivalent (SWE 106%) for this time of the year. SWE in the Wind River above Dubois is 109% of average. The Little Wind SWE is 87% of average, and the Popo Agie drainage SWE is about 105% of average. See the "Basin Summary of Snow Course Data" at the front of this report for details.

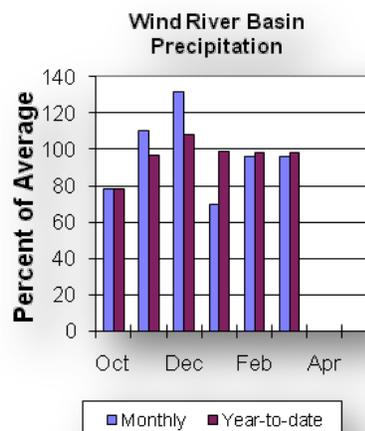


Precipitation

Last month's precipitation in the basin varied from 23-186% of average. Precipitation, for the basin, was about 96% of average from the 8 reporting stations; that is about 86% of last year's amount. Water year-to-date precipitation is 98% of average and about 132% 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 70,200 ac-ft (82% of average) - the reservoir is at 88% of last year. Boysen Reservoir is storing about 100% of average (555,300 ac-ft) - the reservoir is about 100% of last year. Pilot Butte is at 113% of average (24,800 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 94,000 ac-ft (100% of average). The Wind River above Bull Lake Creek is 555,000 ac-ft (104% of average). Bull Lake Creek near Lenore is 160,000 ac-ft (88% of average). Wind River at Riverton will yield around 640,000 ac-ft (100% of average). Little Popo Agie River near Lander is around 51,000 ac-ft (96% 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 290,000 ac-ft (92% of average). Boysen Reservoir inflow will yield around 805,000 ac-ft (100% of average). See the following page for detailed runoff volumes.

Wind River Basin

Streamflow Forecasts - April 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)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
Dinwoody Ck nr Burris							
APR-JUL	57	63	67	100	71	77	67
APR-SEP	81	89	94	100	99	107	94
Wind R ab Bull Lake Ck (2)							
APR-JUL	365	420	460	106	500	555	435
APR-SEP	440	510	555	104	600	670	535
Bull Lake Ck nr Lenore							
APR-JUL	94	115	130	88	145	166	148
APR-SEP	114	141	160	88	179	205	182
Wind R at Riverton (2)							
APR-JUL	420	500	550	101	600	680	545
APR-SEP	480	575	640	100	705	800	640
Little Popo Agie R nr Lander							
APR-JUL	30	38	44	96	50	58	46
APR-SEP	35	45	51	96	57	67	53
SF Little Wind R nr Fort Washakie							
APR-JUL	47	58	66	90	74	85	73
APR-SEP	53	67	76	91	85	99	84
Little Wind R nr Riverton							
APR-JUL	125	200	255	91	310	385	280
APR-SEP	145	230	290	92	350	435	315
Boysen Reservoir Inflow (2)							
APR-JUL	395	595	730	102	865	1070	717
APR-SEP	435	655	805	100	955	1180	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 March

Reservoir	Usable Capacity	***** This Year	***** Usable Storage Last Year	***** Average
BULL LAKE	151.8	70.2	80.5	85.3
BOYSEN	596.0	555.3	554.7	552.8
PILOT BUTTE	31.6	24.8	26.3	21.9

WIND RIVER BASIN

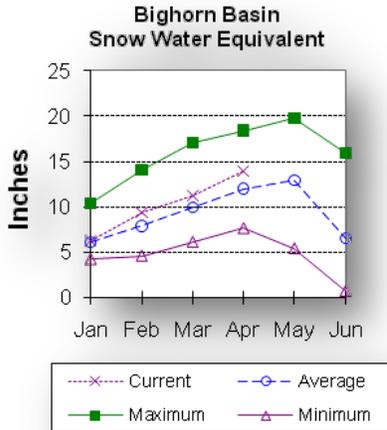
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
WIND RIVER above Dubios	8	220	109
LITTLE WIND	2	90	87
POPO AGIE	7	124	105
WIND above Boysen Resv	15	161	106

Bighorn River Basin

Snow

The Bighorn River Basin SWE above Bighorn Reservoir is above average at 116%. The Nowood River is at 117% of average. The Greybull River SWE is at 94% of average. Shell Creek SWE is 122% of average. See the "Basin Summary of Snow Course Data" at the front of this report for details.



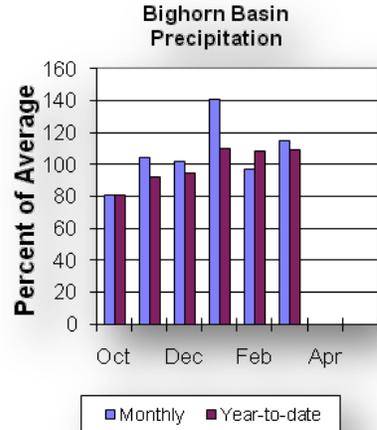
Precipitation

Last month's precipitation was 115% of average (151% of last year). Sites ranged from 13-175% of average for the month. Year-to-date precipitation is 109% of average; that is 153% of last year at this time. Year-to-date percentages, from the 10 reporting stations, range from 73-140%.

Reservoir

Boysen Reservoir is currently storing 555,300 ac-ft (100% of average). Bighorn Lake is now at 107% of average (864,700 ac-ft). Boysen is currently storing 100% of last year volume at this

time and Big Horn Lake is storing 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

The 50% exceedance forecasts for the April through September runoffs are anticipated to be above average. Boysen Reservoir inflow should yield 805,000 ac-ft (100% of average); the Greybull River near Meeteetse should yield around 189,000 ac-ft (95% of average); Shell Creek near Shell should yield around 85,000 ac-ft (118% of average) and the Bighorn River at Kane should yield around 1,180,000 ac-ft (106% of average). See the following page for detailed runoff volumes.

Bighorn River Basin

Streamflow Forecasts - April 1, 2011

Forecast Pt	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg
Forecast Period	Chance of Exceeding * (1000AF) (%)						(1000AF)
	90%	70%	50%	30%	10%		
Boysen Reservoir Inflow (2)							
APR-JUL	395	595	730	102	865	1070	717
APR-SEP	435	655	805	100	955	1180	809
Greybull R nr Meeteetse							
APR-JUL	95	121	139	94	157	183	148
APR-SEP	135	167	189	95	210	245	200
Shell Ck nr Shell							
APR-JUL	58	66	72	120	78	86	60
APR-SEP	69	78	85	118	92	101	72
Bighorn R at Kane (2)							
APR-JUL	550	860	1070	107	1280	1590	1000
APR-SEP	610	950	1180	106	1410	1750	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.
- (3) - Median value used in place of average.

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

Reservoir	Usable Capacity	***** This Year *****	Usable Storage Last Year	***** Average *****
BOYSEN	596.0	555.3	554.7	552.8
BIGHORN LAKE	1356.0	864.7	927.4	809.9

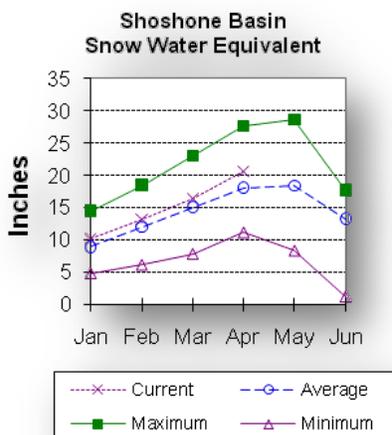
BIGHORN RIVER BASIN Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
NOWOOD RIVER	5	152	117
GREYBULL RIVER	2	127	94
SHELL CREEK	4	176	122
BIGHORN (Boysen-Bighorn)	11	159	116

Shoshone and Clarks Fork River Basin

Snow

Snowpack in these basins is above average for this time of year. Snow Water Equivalent (SWE) is 105% of average in the Shoshone River Basin. The Clarks Fork River Basin SWE is 122% of average. See the "Basin Summary of Snow Course Data" at the front of this report for details.



Precipitation

Precipitation for last month was 164% of average (191% of last year). Monthly percentages range from 52-196% of average. The basin year-to-date precipitation is now 122% of average (179% of last year). Year-to-date percentages range from 65-158% of average for the 8 reporting stations.

Reservoir

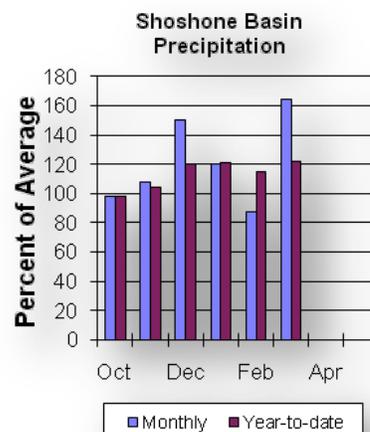
Current storage in Buffalo Bill Reservoir is about 111% of average (102% of last year's storage) - the reservoir is at about 67% of capacity.

Currently, about

433,300 ac-ft are stored in the reservoir compared to 425,900 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 635,000 ac-ft (122% of average). The South Fork of the Shoshone River near Valley is 285,000 ac-ft (108% of average), and the South Fork above Buffalo Bill Reservoir runoff is 245,000 ac-ft (109% of average). The Buffalo Bill Reservoir inflow is expected to yield around 870,000 ac-ft (108% of average). The yield for the Clarks Fork of the Yellowstone near Belfry, Montana is expected to be around 745,000 ac-ft (125% of average). See the following page for detailed runoff volumes.



Shoshone & Clarks Fork River Basins

Streamflow Forecasts - April 1, 2011

Forecast Pt Forecast Period	Future Conditions					30 Yr Avg (1000AF)
	90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)	
NF Shoshone R at Wapiti						
APR-JUL	500	545	575	125	605	460
APR-SEP	545	600	635	122	670	520
SF Shoshone R nr Valley						
APR-JUL	215	235	250	111	265	225
APR-SEP	240	265	285	108	305	265
SF Shoshone R ab Buffalo Bill Res						
APR-JUL	167	205	230	107	255	215
APR-SEP	177	215	245	109	275	225
Buffalo Bill Reservoir Inflow (2)						
APR-JUL	645	725	780	108	835	720
APR-SEP	710	805	870	108	935	805
Clarks Fk Yellowstone R nr Belfry						
APR-JUL	590	640	675	125	710	540
APR-SEP	650	705	745	125	785	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 March

Reservoir	Usable Capacity	***** Usable Storage *****		
		This Year	Last Year	Average
BUFFALO BILL	646.6	433.3	425.9	390.9

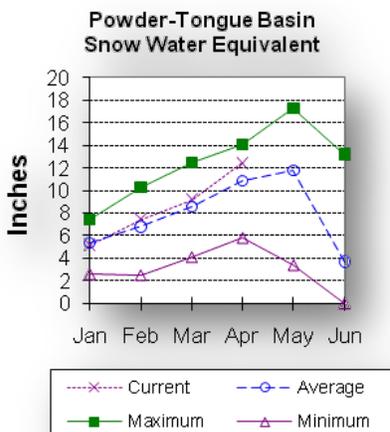
SHOSHONE & CLARKS FORK RIVER BASINS Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	
			Average
SHOSHONE RIVER	6	173	105
CLARKS FORK in WY	7	193	122

Powder and Tongue River Basins

Snow

Snow water equivalent (SWE) in the Upper Tongue River drainage is 107% of average. The Goose Creek drainage is 101% of average. SWE in the Clear Creek drainage is 111% of average. Crazy Woman Creek drainage is 114% of average.



Upper Powder River drainage SWE is 118% of average. Powder River Basin SWE in Wyoming is 115% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.

Precipitation

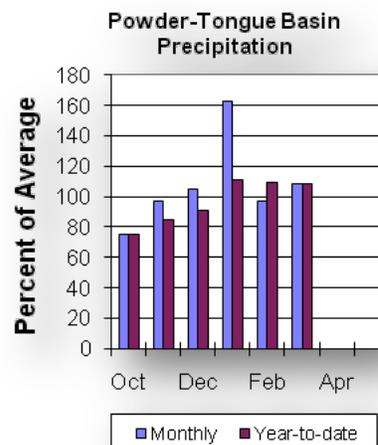
Last month's precipitation was 108% of average for the 9 reporting stations (145% of last year). Monthly percentages range from 75-175% of average. Year-to-date precipitation is 108% of average in the basin; this is 145% of last year at this time. Precipitation for the year ranges from 92-140% of average.

Reservoir

The Tongue River Reservoir currently is storing 191% of average (57,600 ac-ft) compared to 100% at this time last year.

Streamflow

The 50% exceedance forecasts for the June through September period are expected to be above average for the basins. The yield for Tongue River near Dayton is 114,000 ac-ft (105% of average). Big Goose Creek near Sheridan is 63,000 ac-ft (105% of average). Little Goose Creek near Bighorn is 45,000 ac-ft (107% of average). The Tongue River Reservoir Inflow is 265,000 ac-ft (106% of average). The Middle Fork of the Powder River near Barnum is 17,800 ac-ft (95% of average). The North Fork of the Powder River near Hazelton should yield around 13,600 ac-ft (131% of average). Rock Creek near Buffalo will yield about 24,000 ac-ft (100% of average), and Piney Creek at Kearny should yield about 54,000 ac-ft (104% of average). The Powder River at Moorehead is 245,000 ac-ft (107% of average). The Powder River near Locate is 280,000 ac-ft (108% of average). See the following page for detailed runoff volumes.



Powder & Tongue River Basins

Streamflow Forecasts - April 1, 2011

Forecast Pt	<=== Drier ===		Future Conditions			=== Wetter ===>		
Forecast	Chance of Exceeding * =====							
Period	90%	70%	50%	30%	10%	30 Yr Avg		
	(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)	
=====								
Tongue R nr Dayton (2)								
APR-JUL	73	89	100	104	111	127	96	
APR-SEP	84	102	114	105	126	144	109	
Big Goose Ck nr Sheridan								
APR-JUL	38	48	54	104	60	70	52	
APR-SEP	47	56	63	105	70	79	60	
Little Goose Ck nr Bighorn								
APR-JUL	27	33	37	109	41	47	34	
APR-SEP	34	41	45	107	49	56	42	
Tongue River Reservoir Inflow (2)								
APR-JUL	136	195	235	107	275	335	220	
APR-SEP	160	225	265	106	305	370	250	
MF Powder R nr Barnum								
APR-JUL	11.2	14.6	16.9	95	19.2	23	17.8	
APR-SEP	12.0	15.4	17.8	95	20	24	18.7	
NF Powder R nr Hazelton								
APR-JUL	10.3	11.7	12.7	132	13.7	15.1	9.6	
APR-SEP	11.0	12.5	13.6	131	14.7	16.2	10.4	
Rock Ck nr Buffalo								
APR-JUL	12.8	17.1	20	101	23	27	19.9	
APR-SEP	16.4	21	24	100	27	32	24	
Piney Ck at Kearny								
APR-JUL	31	43	51	104	59	71	49	
APR-SEP	33	46	54	104	62	75	52	
Powder R at Moorhead								
APR-JUL	105	173	220	107	265	335	205	
APR-SEP	126	197	245	107	295	365	230	
Powder R nr Locate								
APR-JUL	112	194	250	106	305	390	235	
APR-SEP	132	220	280	108	340	430	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.

Reservoir Storage (1000AF) End of March

Reservoir	Usable Capacity	***** This Year	***** Usable Storage Last Year	***** Average
TONGUE RIVER	79.1	57.6	57.7	30.1

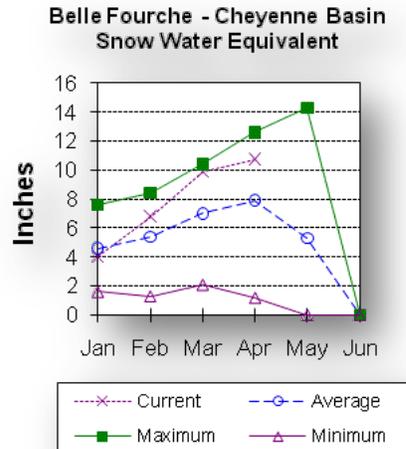
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
UPPER TONGUE RIVER	10	151	107
GOOSE CREEK	3	143	101
CLEAR CREEK	3	130	111
CRAZY WOMAN CREEK	3	135	114
UPPER POWDER RIVER	4	135	118
POWDER RIVER in WY	7	133	115

Belle Fourche and Cheyenne River Basins

Snow

The Belle Fourche River Basin SWE is 136% 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 137% of average or 179% of last year in the Black Hills. There were 3 reporting stations. Monthly percentages range from 108-182%. Year-to-date precipitation is 171% of average and 170% of last year's amount. Yearly percentages range from 166-179% of average.

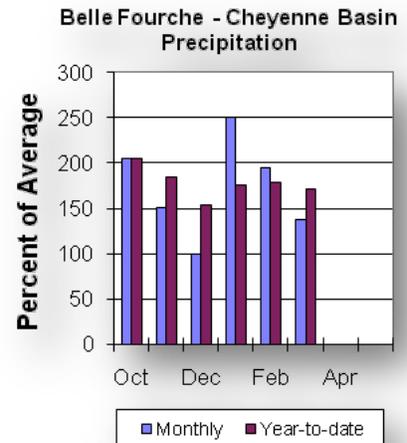
Reservoir

Current reservoir storage is about 116% of average in the basin. Angostura is currently storing 97% of average (106,500 ac-ft), about 87% of capacity. Belle

Fourche reservoir is storing 125% of average (164,000 ac-ft), about 92% of capacity. Deerfield reservoir is storing 109% of average (14,700 ac-ft), about 97% of capacity. Keyhole reservoir is storing 117% of average (132,400 ac-ft), about 68% of capacity. Pactola reservoir is storing 113% of average (52,900 ac-ft), about 96% of capacity. Shadehill reservoir is storing 135% of average (85,500 ac-ft), about 105% 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 - April 1, 2011

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=====
<=== Drier === Future Conditions === Wetter ===>
Forecast Pt | ===== Chance of Exceeding * ===== |
Forecast    | 90%      70%      | 50%      | 30%      10%      | 30 Yr Avg
Period      | (1000AF) (1000AF) | (1000AF) (% AVG.) | (1000AF) (1000AF) | (1000AF)
=====
Deerfield Reservoir Inflow (2)
APR-JUL     7.5      9.3      10.5     206      11.7     13.5     5.1

Pactola Reservoir Inflow (2)
APR-JUL     34       44       51       222      58       68       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 March
    
```

```

=====
Reservoir          Usable          ***** Usable Storage *****
                   Capacity          This Year      Last Year      Average
=====
ANGOSTURA          122.1           106.5         83.9          110.1
BELLE FOURCHE      178.4           164.0         149.7         130.9
DEERFIELD          15.2            14.7          14.3          13.5
KEYHOLE            193.8           132.4         105.2         113.5
PACTOLA            55.0            52.9          53.7          46.8
SHADEHILL          81.4            85.5          64.6          63.1
    
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```

=====
BELLE FOURCHE & CHEYENNE RIVER BASINS
Watershed Snowpack Analysis - April 1, 2011
    
```

```

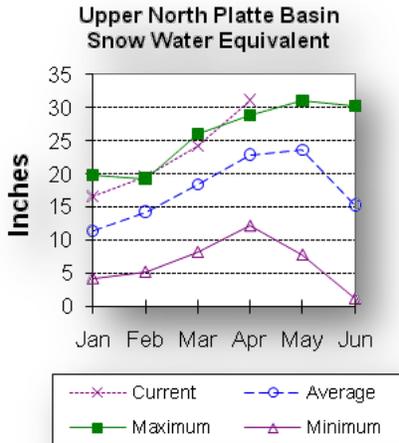
=====
Watershed          Number of          This Year as Percent of
                   Data Sites         Last Year          Average
=====
BELLE FOURCHE      8                  189                136
    
```

Upper North Platte River Basin

Snow

The SNOTELS and snow courses above Seminoe Reservoir are showing about 136% of average (SWE) for this time of the year. SWE in the drainage area above Northgate is 137% of average at this time. SWE in the Encampment River drainage is about 127% of average. Brush Creek SWE for the year is about 153% of average.

Medicine Bow and Rock Creek drainages SWE are about 131% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.



Precipitation

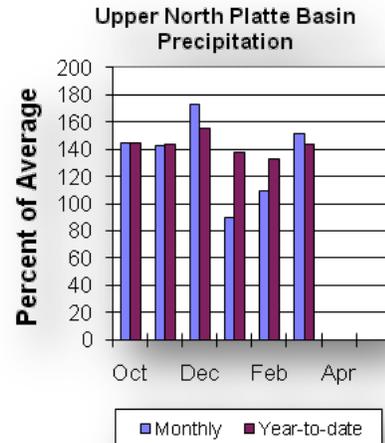
Eight reporting stations show last month's precipitation at 151% of average or 134% of last year's amount. Precipitation varied from 84-261% of average last month. Total water-year-to-date precipitation is about 144% of average for the basin, which is about 139% of last year's amount. Year to date percentage ranges from 113-195% of average.

Reservoirs

Seminoe Reservoir is estimated to be storing 711,100 ac-ft or 70% of capacity. Seminoe Reservoir is also storing about 143% of average for this time of the year and 103% 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 465,000 ac-ft (172% of average). The Encampment River near Encampment is 230,000 ac-ft (139% of average). Rock Creek near Arlington is 75,000 ac-ft (132% of average). The Sweetwater River near Alcova forecast is for 69,000 ac-ft (86% of average). Seminoe Reservoir inflow should be around 1,330,000 ac-ft (150% of average). See the following table for more detailed information on projected runoff.



Upper North Platte River Basin

Streamflow Forecasts - April 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     330    385    425    174    465    520    245
APR-SEP     360    420    465    172    510    570    270
Encampment R nr Encampment
APR-JUL     180    200    215    138    230    250    156
APR-SEP     192    215    230    139    245    270    165
Rock Ck nr Arlington
APR-JUL     57     65     70    132     75     83     53
APR-SEP     61     69     75    132     81     89     57
Sweetwater R nr Alcova
APR-JUL     37     54     65     88     76     93     74
APR-SEP     38     57     69     86     81    100     80
Seminoe Reservoir Inflow (2)
APR-JUL     870   1080   1230   154   1380   1590   800
APR-SEP     930   1170   1330   155   1490   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 March
=====

```

Reservoir	Usable Capacity	***** This Year *****	Usable Storage Last Year	***** Average *****
SEMINOE	1016.7	711.1	689.2	495.9

```

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

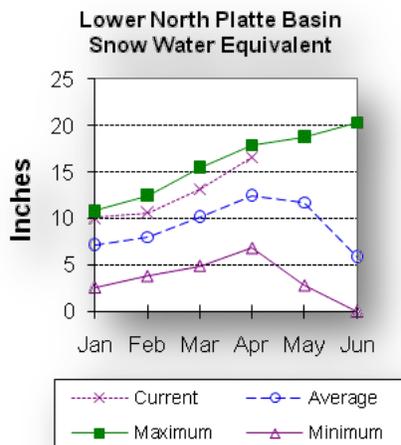
```

Watershed	Number of Data Sites	This Year as Percent of Last Year	Percent of Average
N PLATTE above Northgate	7	188	137
ENCAMPMENT RIVER	4	145	127
BRUSH CREEK	5	145	154
MEDICINE BOW & ROCK CREEKS	3	146	131
N PLATTE above Seminoe	19	157	137

Lower North Platte River Basin

Snow

SWE for the North Platte River Basin is at 133% of average. The Sweetwater drainage SWE is currently at 107% of average. Deer and LaPrele Creek SWE are at 108% of average. SWE for the North Platte above the Laramie River drainage is 131% of average. SWE for the Laramie River above Laramie is 138% of average. SWE for the Little Laramie River is 141% of average. The Laramie River above mouth, SWE is 139% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.



Precipitation

Last month's precipitation was 110% of average or 81% of last year's amount. Of the 8 reporting stations, percentages for the month range from 54-297%. The water year-to-date precipitation for the basin is currently 128% of average (120% of last year). Year-to-date percentages range from 82-223% of average.

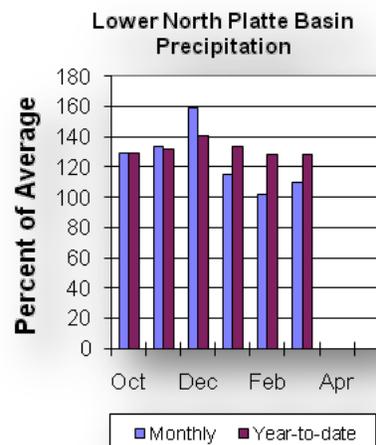
Reservoir

The Lower North Platte River basin reservoir storage is above average at 125%. Reservoir storage is as follows: Alcova 157,400 ac-ft (98% of average); Glendo 382,200 ac-ft (89% of average); Guernsey 21,200 ac-ft (103% of average);

Pathfinder 847,600 ac-ft (114% of average);
 Seminole 711,100 ac-ft (143% of average); and
 Wheatland #2 57,400 ac-ft (106% 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 69,000 ac-ft (86% of average). Deer Creek at Glenrock is forecast to yield 36,000 ac-ft (97% of average). LaPrele Creek above the reservoir is forecast to yield 30,000 ac-ft (125% of average). North Platte - Alcova to Orin Gain is forecast to yield 172,000 ac-ft (107% of average). North Platte River below Glendo Reservoir is 1,540,000 ac-ft (156% of average), and below Guernsey Reservoir is anticipated to yield around 1,600,000 ac-ft (158% of average). Laramie River near Woods Landing should yield around 175,000 ac-ft (130% of average). The Little Laramie near Filmore should produce about 98,000 ac-ft (153% of average). See the following table for more detailed information on projected runoff.



Lower North Platte, Sweetwater & Laramie River Basins

Streamflow Forecasts - April 1, 2011

Forecast Pt	<=== Drier ===		Future Conditions			=== Wetter ===>	
Forecast	Chance of Exceeding * =====						
Period	90%	70%	50%	30%	10%	30 Yr Avg	
	(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
Sweetwater R nr Alcova							
APR-JUL	37	54	65	88	76	93	74
APR-SEP	38	57	69	86	81	100	80
Deer Ck at Glenrock							
APR-JUL	10.3	26	36	97	46	62	37
APR-SEP	10.4	26	36	97	46	62	37
La Prele Ck ab La Prele Reservoir							
APR-JUL	17.2	25	30	125	35	43	24
APR-SEP	17.1	25	30	125	35	43	24
North Platte R-Alcova to Orin Gain							
APR-JUL	73	125	161	106	197	250	152
APR-SEP	84	136	172	107	210	260	161
North Platte R bl Glendo Res (2)							
APR-JUL	1220	1370	1480	154	1590	1740	960
APR-SEP	1260	1430	1540	156	1650	1820	990
North Platte R bl Guernsey Res (2)							
APR-JUL	1200	1400	1530	158	1660	1860	970
APR-SEP	1260	1460	1600	158	1740	1940	1010
Laramie R nr Woods							
APR-JUL	121	144	160	130	176	199	123
APR-SEP	131	157	175	130	193	220	135
Little Laramie R nr Filmore							
APR-JUL	73	82	89	151	96	105	59
APR-SEP	79	90	98	153	106	117	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.

Reservoir Storage (1000AF) End of March

Reservoir	Usable Capacity	***** This Year	***** Usable Storage Last Year	***** Average
ALCOVA	184.3	157.4	157.7	160.1
GLENDO	506.4	382.2	362.6	427.8
GUERNSEY	45.6	21.2	22.0	20.6
PATHFINDER	1016.5	847.6	736.4	743.7
SEMINOE	1016.7	711.1	689.2	495.9
WHEATLAND #2	98.9	57.4	81.4	54.3

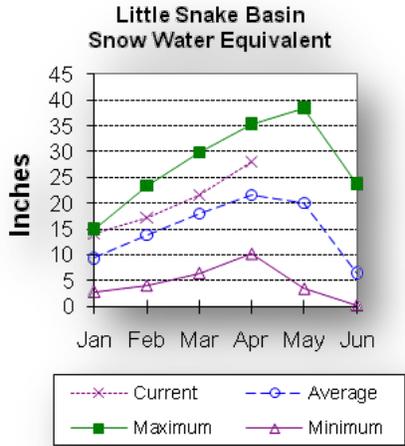
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SWEETWATER	4	148	107
DEER & LaPRELE CREEKS	2	107	108
N PLATTE abv Laramie R.	25	153	132
LARAMIE RIVER abv Laramie	10	147	138
LITTLE LARAMIE RIVER	5	151	141
LARAMIE RIVER above mouth	13	151	139
NORTH PLATTE	31	152	134

Little Snake River Basin

Snow

Currently, snow water equivalent (SWE) in the Little Snake River drainage is 130% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.



Precipitation

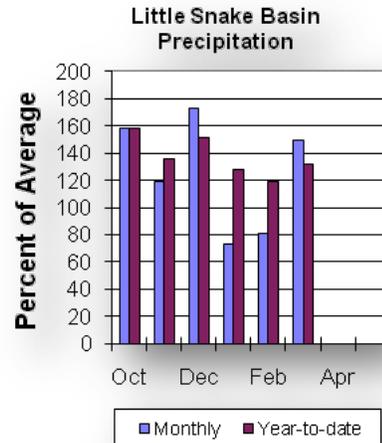
Precipitation across the basin was 149% of average (160% of last year) for the 5 reporting stations. Last month's precipitation ranged from 110-176% of average. The Little Snake River basin water-year-to-date precipitation is currently 132% of average (147% of last year). Year-to-date percentages range from 94-146% 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 235,000 ac-ft (148% of average). The Little Snake River near Dixon is estimated to yield around 515,000 ac-ft (156% of average). See the following table for more detailed information on projected runoff.



Little Snake River Basin

Streamflow Forecasts - April 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     184      215      235      148      255      290      159

Little Snake R nr Dixon
APR-JUL     375      450      515      156      585      630      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.

```

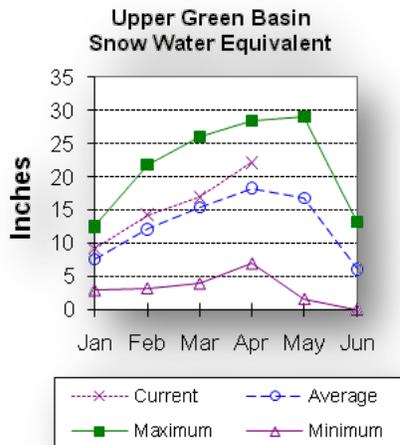
=====
LITTLE SNAKE RIVER BASIN
Watershed Snowpack Analysis - April 1, 2011
=====
    
```

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
LITTLE SNAKE RIVER	8	146	130

Upper Green River Basin

Snow

SWE in the Green River Basin above Warren Bridge is about 114% of average. SWE for the West Side of Upper Green River Basin is about 127% of average. Newfork River Basin SWE is now about 107% of average. Big Sandy-Eden Valley Basin is 107% of average. SWE in the Green River Basin above Fontenelle Reservoir is about 121% 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 154% of average last month (338% of last year). Last month's precipitation varied from 118-202% of average. Water year-to-date precipitation is about 117% of average (208% of last year). Year to date

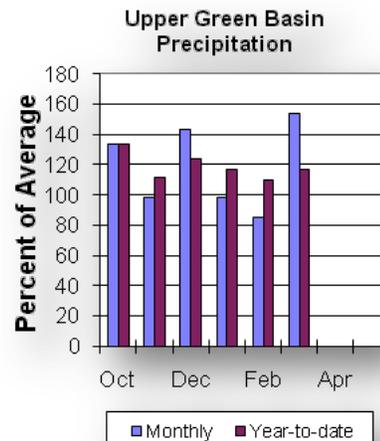
percentage of average ranges from 103-139% for the reporting stations.

Reservoir

Storage in Big Sandy Reservoir is 18,300 ac-ft or 48% of capacity. This is 88% of average. Eden Reservoir - No Report. Fontenelle Reservoir is 137,600 ac-ft or 40% of capacity; 96% of average. This is 95% 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 above average. The yield on the Green River at Warren Bridge is 290,000 ac-ft (109% of average). Pine Creek above Fremont Lake is 111,000 ac-ft (107% of average). New Fork River near Big Piney is 430,000 ac-ft (109% of average). Fontenelle Reservoir Inflow is estimated to be 980,000 ac-ft (114% 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 - April 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	245	270	290	109	310	340	265
Pine Ck ab Fremont Lake							
APR-JUL	95	105	111	107	118	128	104
New Fork R nr Big Piney							
APR-JUL	325	385	430	109	480	550	395
Fontenelle Reservoir Inflow (2)							
APR-JUL	690	855	980	114	1110	1250	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 March

Reservoir	Usable Capacity	***** This Year	Usable Storage Last Year	***** Average
BIG SANDY	38.3	18.3	19.9	20.7
FONTENELLE	344.8	137.6	111.9	143.0

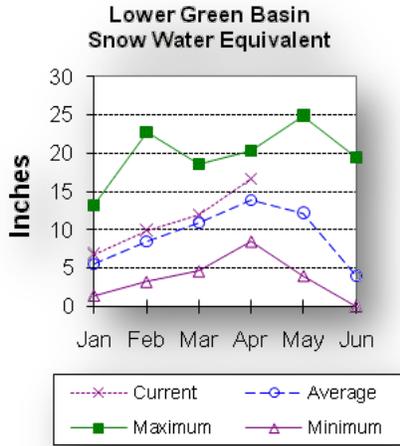
UPPER GREEN RIVER BASIN Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
GREEN above Warren Bridge	5	262	114
UPPER GREEN (West Side)	7	219	127
NEWFORK RIVER	3	182	107
BIG SANDY/EDEN VALLEY	2	199	107
GREEN above Fontenelle	14	222	120

Lower Green River Basin

Snow

SWE in the Green River Basin above Flaming Gorge is 120% of average. SWE in the Hams Fork Basin is 128% of average. Blacks Fork Basin SWE is currently 117% of average. In the Henrys Fork drainage SWE is 117%. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.



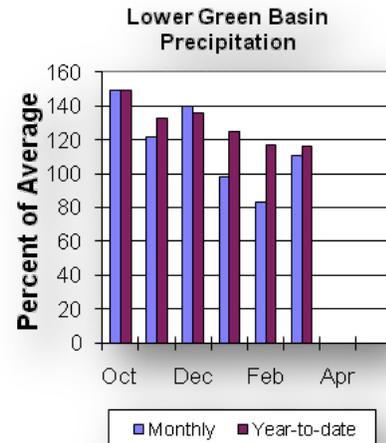
Precipitation

Precipitation for the 3 reporting stations during last month was at 111% of average or 200% of last year. Precipitation ranged from 97-122% of average for the month. The basin year-to-date precipitation is currently 116% of average (191% of last year). Year-to-date percentages range from 109-126% of average.

Reservoirs

Fontenelle Reservoir is currently storing 137,600 ac-ft; this is 96% of average (123% of last year). Flaming Gorge is currently

storing 3,158,000 ac-ft; this is 108% of average (99% of last year). Viva Naughton is currently storing 29,200 ac-ft, 105% of average or 69% 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 1,020,000 ac-ft (117% of average). The Blacks Fork near Robertson is forecast to yield 115,000 ac-ft (121% 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 91,000 ac-ft (140% of average). The Hams Fork Inflow to Viva Naughton Reservoir is forecast to be 125,000 ac-ft (140% of average). The Flaming Gorge Reservoir inflow will be about 1,350,000 ac-ft (113% of average). See the following table for more detailed information on projected runoff.

Lower Green River Basin

Streamflow Forecasts - April 1, 2011

Forecast Pt	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg
Forecast Period	Chance of Exceeding * (1000AF) (% AVG.)						(1000AF)
	90%	70%	50%	30%	10%		
Green R nr Green River, WY (2)							
APR-JUL	770	920	1020	117	1120	1270	875
Blacks Fk nr Robertson							
APR-JUL	86	103	115	121	128	148	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	69	82	91	140	101	116	65
Viva Naughton Reservoir Inflow (2)							
APR-JUL	95	113	125	140	137	155	89
Flaming Gorge Reservoir Inflow (2)							
APR-JUL	975	1170	1350	113	1540	1850	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 March

Reservoir	Usable Capacity	***** This Year	***** Usable Storage Last Year	***** Average
FONTENELLE	344.8	137.6	111.9	143.0
FLAMING GORGE	3749.0	3158.0	3195.0	2920.0
VIVA NAUGHTON RES	42.4	29.2	25.9	27.8

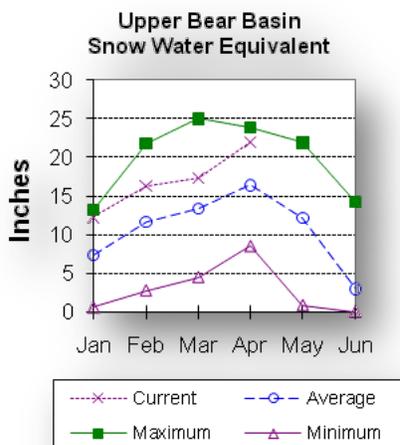
LOWER GREEN RIVER BASIN Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
HAMS FORK RIVER	4	208	128
BLACKS FORK	4	159	117
HENRYS FORK	2	109	117
GREEN above Flaming Gorge	24	203	120

Upper Bear River Basin

Snow

Snow water equivalent (SWE) in the Upper Bear River Basin in Utah is estimated to be 140% of average. SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is at 124% of average. Bear River Basin SWE, above the Idaho State line, is 134% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.



Precipitation

Precipitation for last month was 125% of average for the 2 reporting stations; this is 241% of the precipitation received last year. The year-to-date precipitation, for the basin, is 118% of average; this is 205% of last year's

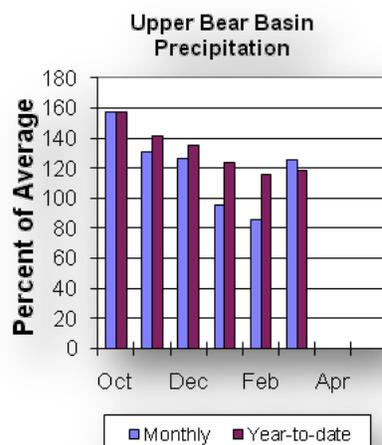
amount.

Reservoir

Storage in Woodruff Narrows reservoir is 57,000 ac-ft (174% of average). Current reservoir storage is about 99% of capacity. Reservoir storage last year at this time was 51,000 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 190,000 ac-ft (152% of average). The Bear River above Reservoir near Woodruff is 220,000 ac-ft (155% of average). The Smiths Fork River near Border is 167,000 ac-ft (138% of average). See the following table for more detailed information on projected runoff.



Upper Bear River Basin

Streamflow Forecasts - April 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     141    158    170    150    182    199    113
APR-SEP     158    177    190    152    205    220    125

Bear R abv Resv nr Woodruff
APR-JUL     163    188    205    151    220    245    136
APR-SEP     177    205    220    155    235    265    142

Smiths Fork nr Border
APR-JUL     120    133    142    138    151    164    103
APR-SEP     142    157    167    138    177    192    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 March
    
```

```

=====
Usable ***** Usable Storage *****
Capacity This Year Last Year Average
=====
WOODRUFF NARROWS      57.3      57.0      51.0      32.7
=====
    
```

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=====
UPPER BEAR RIVER BASIN
Watershed Snowpack Analysis - April 1, 2011
    
```

```

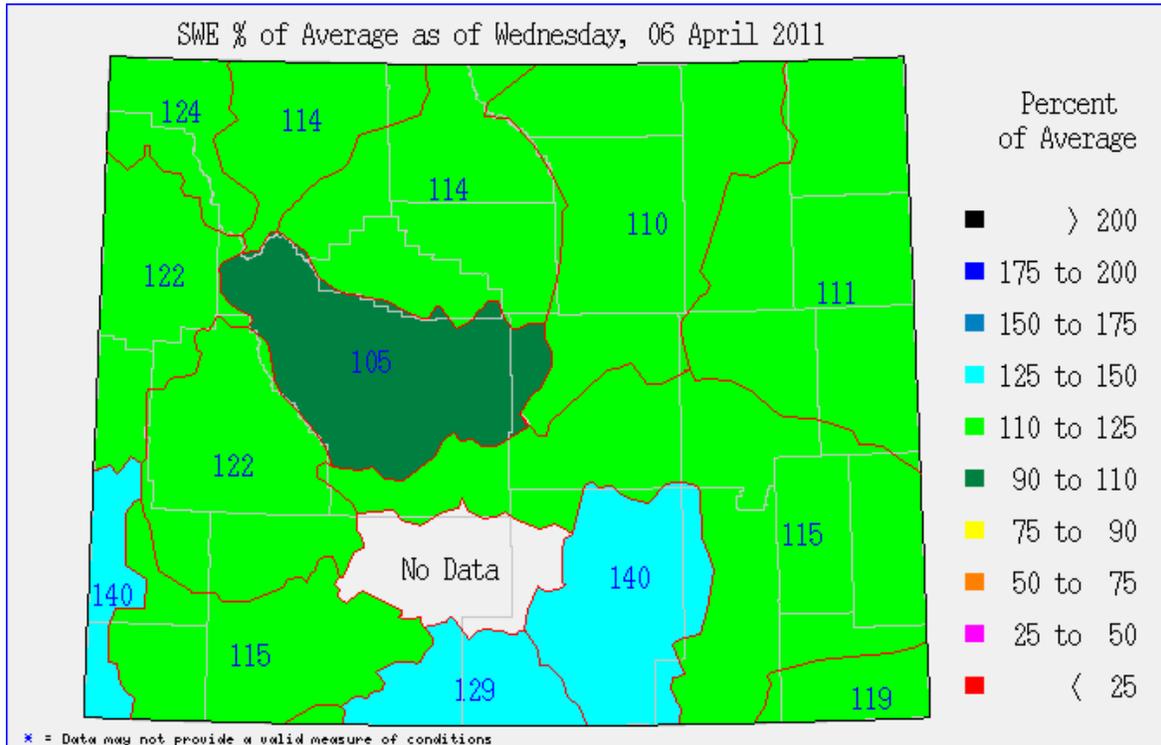
=====
Number of This Year as Percent of
Data Sites Last Year Average
=====
UPPER BEAR RIVER in Utah      7      211      140
SMITHS & THOMAS FORKS        4      202      124
BEAR RIVER abv ID line       8      227      134
NORTHWEST                    75     195      115
NORTHEAST                     22     153      117
SOUTHEAST                     35     154      133
SOUTHWEST                     33     187      124
=====
    
```

Issued by

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U.S. Department of Agriculture
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J Xavier Montoya
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:

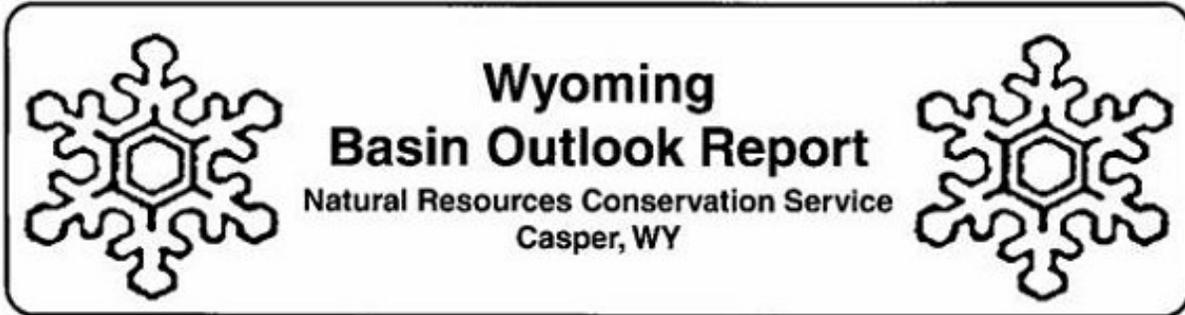
The Wyoming State Engineer's Office

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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