

Natural Resources Conservation Service

# Wyoming Basin Outlook Report April 1, 2007



# **Basin Outlook Reports**

# And Federal - State - Private Cooperative Snow Surveys

For more water supply and resource management information, contact:

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### How forecasts are made

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

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

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

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# **Wyoming Water Supply Outlook Report**

## General

Generally, the snow water equivalent (SWE) across Wyoming is below average for this time of the year. SWE for the State of Wyoming as a whole is 72% of average for early April. Precipitation for last month in the basins varied from 41% to 149% of average for the various basins in the State. Year-to-date precipitation is also below average for the year and varies from 74-101% of average in the basins. Basin reservoir levels across Wyoming vary from 33-206% of average for an overall average of 94%. Forecasted runoff varies from 43-102% of average across Wyoming for an overall average of 69%.

# **Snowpack**

Snow water equivalent (SWE), across Wyoming is below average for this time of year at 72%. SWE in the NW portion of Wyoming is now about 66% of average (68% of last year). The NE Wyoming SWE is currently about 80% of average (94% of last year). The SE portion of Wyoming SWE is currently about 75% of average (68% of last year). The SW portion of Wyoming SWE is about 66% of average (59% of last year).

# **Precipitation**

Last month's precipitation was below average across most of Wyoming. The Snake River Basin had the lowest precipitation for the month at 41% of average. The Powder & Tongue River Basins had the highest precipitation amount at 149% of average. The following table displays the major river basins and their departure from average for this month.

Basin	Departure from average	   Basin fro	Departure om average
Snake River Yellowstone & Madison Wind River Big Horn Shoshone & Clarks Forl Powder & Tongue River	-59% -54% -11% +25% k -45% +49%	Upper North Platte River Lower North Platte Little Snake River Upper Green River Lower Green River Upper Bear River	-20% +01% -39% -47% -29%
Belle Fourche & Cheyer	nne -17%		

# **Streams**

Stream flow yield is expected to be below average across Wyoming. Most probable yield for the entire State of Wyoming is forecast to be at 69% (varying from 43-102% of average). The Snake River and Upper Yellowstone & Madison River Basins are expected to yield about 67 and 81% of average, respectively -- 58-81% of average for the various forecast points in the basins. Yields from the Wind and Bighorn River Basins are expected to be about 54 and 60% of average, respectively -- varying from 54-89% of average in the basins. Yields from the Shoshone and Clarks Fork River Basins of Wyoming are expected to yield about 75 & 80% of average respectively-- varying from 64-84% of average. Yields from the Powder & Tongue River Basins are expected to be about 75 & 102% of average, respectively -- varying from 62-102% of average. Yields for the Belle Fourche & Cheyenne River Basins are expected to be about 71 & 61% of average, respectively. Yields for the Upper and Lower North Platte River of Wyoming are expected to be about 75 and 72% of average, respectively -- varying from 56-93% of average. Yields for the Little Snake, Upper Green River,

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Lower Green River and Little Bear of Wyoming are expected to be 52, 43, 44, and 46% of average respectively -- yield estimates vary from 43-84% of average.

# Reservoirs

Reservoirs on the North Platte River are well below average at 61% of average. Most of the reservoirs in the northeast are below average in storage at 57%. Reservoirs in the Wind River Basin are below average at 65%. Reservoirs on the Big Horn are below average at 83%. The Buffalo Bill Reservoir on the Shoshone is about average at 97%. Reservoirs on the Green River are above average at 107%. Reservoir storage varies across the state at this time; however, reservoir storage is at 94% of average for the entire state. See following table for further information about reservoir storage.

**Major Reservoirs in Wyoming** 

	URRENT AS	LAST YR AS			
RESERVOIR	& CAPACITY	% CAPACITY	% CAPACITY	% AVERAGE	% LAST YR
	WYOMINO	AND SURROUN	DING STATES		
ALCOVA	87	85	87	100	102
ANGOSTURA	37	45	90	41	82
BELLE FOURCHE	54	42	73	73	128
BIG SANDY	41	69	54	76	59
BIGHORN LAKE	58	60	60	97	97
BOYSEN	71	87	110	65	82
BUFFALO BILL	71	73	73	97	97
BULL LAKE	38	48	69	55	80
DEERFIELD	79	76	89	89	104
EDEN			NO REPORT		
ENNIS LAKE	69	72	76	90	95
FLAMING GORGE	84	81	78	108	105
FONTENELLE	34	38	41	83	90
GLENDO	72	66	84	85	109
GRASSY LAKE	84	57	81	103	148
GUERNSEY	37	38	45	82	98
HEBGEN LAKE	73	70	69	106	104
JACKSON LAKE	75	50	57	131	152
KEYHOLE	30	38	59	51	79
PACTOLA	59	66	85	69	89
PALISADES	84	60	67	125	139
PATHFINDER	24	28	73	33	85
PILOT BUTTE	80	78	69	116	103
SEMINOE	34	40	49	69	84
SHADEHILL	37	45	78	48	82
TONGUE RIVER	79	60	38	206	132
VIVA NAUGHTON RES	88	67	66	134	131
WHEATLAND #2	33	57	55	60	58
WOODRUFF NARROWS	100	73	57	175	136
TOTAL OF 28 RESERVO	IRS 66	63	70	94	106

Raw KAF Totals Current = 8777 Last Year = 8313 Average = 9351 Capacity = 13288

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APRIL 2007

SNOW COURSE	ELEVATION		DEPTH	WATER CONTENT	YEAR	71-00
WYOMING Snow Course and	SNOTEL Statio	nc				
ALBANY ASTER CREEK BALD MOUNTAIN SNO' BASE CAMP SNOTEL	9400	3/30/07	43	10.7	14.4	13.7
ASTER CREEK	7750	4/03/07	54	19.1	34.3	30.5
BALD MOUNTAIN SNO	TEL 9380	4/01/07	73	19.3	16.3	19.9
BASE CAMP SNOTEL	7030	4/01/07		10.4	20.8	18.1
BATTLE MTN. SNOTE: BEARLODGE DIVIDE	L 7440	4/01/07	17	5.5	13.4	11.0 1.3
BEARLODGE DIVIDE	4680	3/30/07	11	1.8	.0	1.3
BEARTOOTH LK. SNO	TEL 9280	4/01/07	61	17.9	21.4	23.6
BEARLODGE DIVIDE BEARTOOTH LK. SNO' BEAR TRAP SNOTEL BIG GOOSE SNOTEL BIG PARK BIG SANDY SNOTEL BLACKWATER SNOTEL BLIND BULL SNOTEL	8200	4/01/07	27	4.5	6.1	5.2
BIG GOOSE SNOTEL	7760	4/01/07	47	9.4	6.7	10.7
BIG PARK	8620	3/30/07	55	14.7	21.8	19.4
BIG SANDY SNOTEL	9080	4/01/07	3 /	10.9	15.4	14./
BLACKWATER SNOTEL	9780	4/01/07	60	19.0	22.I	24.8
BLIND BOLL SNOIFL	6900	4/01/07	04	20.4 1 /	40.5 7.0	20.3
BLIND PARK SNOTEL BLUE RIDGE BONE SPGS. SNOTEL BROOKLYN LK. SNOTEL BUCK CREEK	9620	4/01/07		7 00	7.0	0./ 11 7
DONE COCC CNOTEI	9020	4/01/07	61	7.9E	1.7	16 /
BDOOKIVN IK SNOTEL	9330 FT. 10220	4/01/07		17.5	25 8	23 9
BUCK CREEK	7960	3/31/07	3.0	9.0	12 0	10.6
RURGESS JOT SMOT	7500 ET. 7880	4/01/07	59	13 0	9 7	11.7
BURGESS JCT. SNOT BURROUGHS CRK SNO	TEL 8750	4/01/07	36	11.3	13.8	14.8
CANYON SNOTEL	8090	4/01/07	36	11.1	14.8	13.9
CASPER MTN. SNOTE	ь 7850	4/01/07	48	12.9	16.3	14.6
CASTLE CREEK	8400	3/26/07	1	.4	1.6	4.8
BURROUGHS CRK SNO' CANYON SNOTEL CASPER MTN. SNOTE: CASTLE CREEK CCC CAMP CHALK CK #1 SNOTE: CHALK CK #2 SNOTE: CINNABAR PARK SNO' CLOUD PEAK SNOTE:	7000	3/29/07	25	8.1	14.0	12.7
CHALK CK #1 SNOTE	L 9100	4/01/07	50	19.0	29.7	24.9
CHALK CK #2 SNOTE	L 8200	4/01/07	39	13.8	16.7	16.2
CINNABAR PARK SNO	TEL 9690	4/01/07	56	19.0	24.0	14.1
CLOUD PEAK SNOTEL	9850	4/01/07	56	13.9	12.9	13.5
COLE CANYON SNOTE: COLD SPRINGS SNOT	L 5910	4/01/07 4/01/07	9	2.7	5.3	6.9 9.0
COLD SPRINGS SNOT	EL 9630	4/01/07	17	3.5	5.8	9.0
COTTONWOOD CR SNO	TEL 7700	4/01/07		18.0	29.5	24.2
CROW CREEK SNOTEL DARBY CANYON	8830	4/01/07	11	5.5	6.3	9.0
DARBY CANYON	8250	4/03/07	53	16.0	28.0	24.5
DEER PARK SNOTEL DITCH CREEK	9700	4/01/07	42	12.0 .0	17.2	17.1
DITCH CREEK	6870	3/27/07	0	.0	4.2	4.1
DIVIDE PEAK SNOTE: DOME LAKE SNOTEL DU NOIR	L 8860	4/01/07	55	18.0	19.4	20.0
DU NOTE	888U 9760	2/26/07	58 11	12.8	10.2	12.0
ENCT DIM DIV CNOT	0700 ET 7020	3/20/07 4/01/07	11	Z.0	11 1	12.2
FIRO PANCH	7550 7100	4/01/07	27	7 2	12 7	11.5
ELKHART PARK SNOT	ET. 9400	4/01/07		9 5	14 3	13 6
EAST RIM DIV SNOTE ELBO RANCH ELKHART PARK SNOTE EVENING STAR SNOTE	EL 9200	4/01/07	62	20.4	24.6	30.1
FOUR MILE MEADOWS	7860	4/02/07	25	8.3	11.3	12.8
FOXPARK	9060	3/30/07	22	5.8	10.4	7.6
GLADE CREEK	7040	4/03/07	41	14.8	26.8	24.3
GRAND TARGHEE SNO		4/01/07	96	35.8		
GRANITE CRK SNOTE	L 6770	4/01/07		9.9	21.1	18.6
GRANNIER MEADOWS	8860	4/01/07		9.6E	12.3	14.1
GRASSY LAKE SNOTE	L 7270	4/01/07	64	25.8	38.3	36.1
GRAVE SPRINGS SNO	TEL 8550	4/01/07	29	7.7	9.8	9.4
GREYS BOUNDARY	5720	3/29/07	17	5.4	15.2	11.3
GROS VENTRE SNOTE		4/01/07	33	9.5	12.5	14.4
GROVER PARK DIVID		3/29/07	14	4.2	11.4	11.2
HAIRPIN TURN	9480	3/30/07	39	11.5	18.0	16.3
HANSEN S.M. SNOTE		4/01/07	24	3.9	5.1	6.5
HAMS FORK SNOTEL	7840	4/01/07		7.5	16.0	12.0
HASKINS CREEK	8980	3/29/07	71	20.8	32.4	30.0
HOBACK GS	6640	3/27/07	7	4.0	12.5	

HOBBS PARK SNOTEL	10100	4/01/07	61	12.8	11.0	15.1
HUCKLEBERRY DIVIDE	7300	4/03/07	42	14.3	23.1	21.3
INDIAN CREEK SNOTEL	9430	4/01/07		18.8	31.9	28.2
JACKPINE CREEK	7350	3/26/07	44	15.0	27.5	22.2
KELLEY R.S. SNOTEL	8180	4/01/07		13.0	20.5	17.1
KENDALL R.S. SNOTEL	7740	4/01/07	21	8.0	14.8	14.6
KIRWIN SNOTEL	9550	4/01/07	42	9.9	9.7	11.5
		, - , -				
LAKE CAMP	7780	4/03/07	26	7.3	10.7	10.4
LA PRELE SNOTEL	8380	4/01/07	27	7.9	10.1	11.0
LEWIS LAKE SNOTEL	7850	4/01/07	57	22.1	41.1	35.8
LEWIS LAKE DIVIDE				23.3		42.4
· · · · · ·	7850	4/03/07	60		49.8	
LIBBY LODGE	8750	3/30/07	23	5.9	12.9	10.9
LITTLE BEAR RUN	6240	4/01/07	4	.4E	4.4	2.4
	9370			7.5		
LITTLE WARM SNOTEL		4/01/07	25		9.3	12.0
LOOMIS PARK SNOTEL	8240	4/01/07		9.4	19.9	17.5
LUPINE CREEK	7380	3/29/07	4	1.2	8.4	9.9
MALLO	6420	3/30/07	6	.8	8.0	6.5
MARQUETTE SNOTEL	8760	4/01/07	16	2.7	2.5	9.0
MEDICINE LODGE LAKES	9340	3/26/07	30	6.1	9.6	11.1
MIDDLE FORK	7420	4/01/07	0	4.4E	2.6	6.0
MIDDLE POWDER SNOTEL	7760	4/01/07	51	11.9	12.8	11.8
MORAN	6750	4/04/07	16	5.4	11.5	12.4
MOSS LAKE	9800	3/30/07	55	15.4	23.0	23.6
NEW FORK SNOTEL	8340	4/01/07	21	7.9	11.0	11.3
NORRIS BASIN	7500	4/01/07		5.8E	10.2	10.8
NORTH BARRETT CREEK	9400	3/30/07	58	16.6	23.8	21.5
NORTH FRENCH SNOTEL	10130	4/01/07		24.0	33.9	29.5
NORTH RAPID CK SNTL	6130	4/01/07	12	4.3	6.7	8.3
NORTH TONGUE	8450	3/26/07	30	8.2	9.6	13.0
OLD BATTLE SNOTEL	9920	4/01/07	79	23.8	37.6	32.4
OLD FAITHFUL	7400	4/03/07	35	9.7	11.4	13.9
ONION GULCH	8780	3/31/07	28	4.9	5.9	8.3
OWL CREEK SNOTEL	8980	4/01/07	18	4.2	3.3	5.6
PARKERS PEAK SNOTEL	9400	4/01/07	55	18.1	18.7	21.9
PHILLIPS BNCH SNOTEL	8200	4/01/07	49	17.5	34.3	29.2
POLE MOUNTAIN	8700	3/30/07	34	9.4	7.0	8.4
POWDER RVR.PASS SNTL	9480	4/01/07	35	9.5	10.1	10.9
PURGATORY GULCH	8970	3/30/07	37	9.0	11.6	11.8
RANGER CREEK	8120	3/26/07	22	4.9	7.9	8.9
RENO HILL SNOTEL	8500	4/01/07	51	14.2	15.3	14.3
REUTER CANYON	6280	3/28/07	3	1.2	10.8	8.6
ROWDY CREEK	8300	3/28/07	43	13.4	23.9	21.6
RYAN PARK	8400	3/30/07	23	6.4	10.4	10.8
SAGE CK BASIN SNTL	7850	4/01/07	30	7.5	13.2	11.6
SALT RIVER SNOTEL	7600	4/01/07		10.3	16.7	14.6
SAND LAKE SNOTEL	10050	4/01/07	84	24.5	32.4	32.7
SANDSTONE RS SNOTEL	8150	4/01/07	30	8.8	16.4	14.8
SAWMILL DIVIDE	9260	3/31/07	55	11.8	10.4	13.0
SHELL CREEK SNOTEL	9580	4/01/07	66	15.4	14.1	14.9
SHERIDAN R.S.	7750	3/26/07	8	2.2	6.0	5.8
SNAKE RIVER STATION	6920	4/03/07	54	19.1	21.4	20.9
SNAKE RV STA SNOTEL	6920	4/01/07	30	10.7	21.4	19.2
SNIDER BASIN SNOTEL	8060	4/01/07	31	10.0	18.7	14.7
SOLDIER PARK	8780	3/31/07	18	3.1	2.7	5.9
SOUR DOUGH	8460	3/31/07	33	5.8	4.3	7.1
SOUTH BRUSH SNOTEL	8440	4/01/07	31	10.2	13.0	13.2
SOUTH PASS SNOTEL	9040	4/01/07	46	12.4	16.2	16.7
SPRING CRK. SNOTEL	9000	4/01/07	66	19.0	31.4	26.9
ST LAWRENCE ALT SNTL	8620	4/01/07	22	4.1	4.0	7.4
SUCKER CREEK SNOTEL	8880	4/01/07	60	14.0	10.5	11.8
SYLVAN LAKE SNOTEL	8420	4/01/07	40	14.1	18.2	22.8
SYLVAN ROAD SNOTEL	7120	4/01/07	16	6.3	10.7	12.9
T CROSS RANCH	7900	3/26/07	6	1.8	5.7	7.2
TETON PASS W.S.	7740	4/02/07	52	15.8	34.0	27.6
THUMB DIVIDE SNOTEL	7980	4/01/07	30	11.8	19.3	19.2
THUMB DIVIDE	7980	4/03/07	38	11.2	16.4	19.1
TIE CREEK SNOTEL	6870	4/01/07	22	2.9	5.0	6.1
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TIMBER CREEK SNOTEL	7950	4/01/07	23	3.1	2.6	5.8
TOGWOTEE PASS SNOTEL	9580	4/01/07	53	16.7	24.7	25.2
TOWNSEND CRK SNOTEL	8700	4/01/07	37	7.8	6.7	8.8
TRIPLE PEAK SNOTEL	8500	4/01/07	49	17.4	30.5	25.2
TURPIN MEADOWS	6900	4/02/07	20	6.9	10.4	10.2
TWO OCEAN SNOTEL	9240	4/01/07		23.4	35.0	28.4
TYRELL RANGER STA.	8300	3/31/07	23	4.2	5.8	7.6
UPPER SPEARFISH	6500	4/02/07	6	1.5	6.7	6.7
WEBBER SPRING SNOTEL	9250	4/01/07	54	17.4	28.7	26.4
WHISKEY PARK SNOTEL	8950	4/01/07	56	20.6	40.9	30.4
WILLOW CREEK SNOTEL	8450	4/01/07		20.5	36.1	30.6
WINDY PEAK SNOTEL	7900	4/01/07	20	6.6	7.8	8.1
WOLVERINE SNOTEL	7650	4/01/07	8	4.1	8.5	11.6
WOOD ROCK G.S.	8440	3/31/07	41	9.3	6.6	10.2
YOUNTS PEAK SNOTEL	8350	4/01/07	31	10.2	14.1	17.3

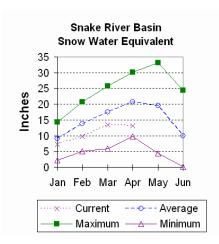
<sup>(</sup>d) denotes discontinued site.

# **Snake River Basin**

# **Snow**

The Snake River Basin snow water equivalent (SWE) is below average. SWE in the Snake River Basin above Jackson Lake is 65% of average (59% of last year). Pacific Creek Basin SWE is 67% of average (58% of last year). Gros Ventre River Basin SWE is 65% of average (67% of last year). SWE in the Hoback River drainage is 59% of average (59% of last year). SWE in the Greys River drainage is 68% of average (58% of last year). In the Salt River area SWE is 65% of average (57% of last year). SWE in the Snake River Basin above Palisades is 63% of average (57% of last year). See the Basin Summary of Snow Courses at the beginning of this report for a detailed listing of snow

course information.



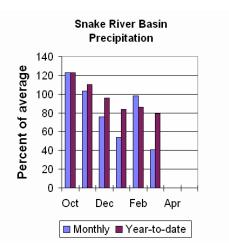
# **Precipitation**

Precipitation across the basin was below average last month. Monthly precipitation for the basin was 41% of average (48% of last year) for the 16 reporting stations. Last month's percentages range from 23-66% of average. Water-year-to-date precipitation is 79% of average for the Snake River Basin (72% of last year). Year-to-date percentages range from 72-95% of average.

# Reservoir

Currently, reservoir

storage is 127% of average for the three storage reservoirs in the basin. Grassy Lake storage is about 103% of average (12,700 acft compared to 8,600 last year). Jackson Lake storage is 131% of average (636,400 ac-ft compared to 419,800 ac-ft last year). Palisades Reservoir storage is about 125% of average (1,178,600 ac-ft compared to 845,400 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 below average for the basin. The Snake near Moran is 665,000

ac-ft (74% of average). Snake above reservoir near Alpine is 1,980,000 ac-ft (73% of average). The Snake near Irwin is 2,590,000 ac-ft (67% of average). The Snake near Heise is 2,780,000 ac-ft (67% of average). Pacific Creek at Moran is 122,000 ac-ft (69% of average). Greys River above Palisades Reservoir is 265,000 ac-ft (67% of average). Salt River near Etna is 245,000 ac-ft (58% of average). See the following page for detailed runoff volumes.

### SNAKE RIVER BASIN Streamflow Forecasts - April 1, 2007

=========		======		=======	=======	=======	========
	<=== Dr	ier ===	Future C	onditions	=== Wett	er ===>	
Forecast Pt	======	======	Chance of	Exceeding	* =====	======	
Forecast	90%	70%	5	0%	30%	10%	30 Yr Avg
Period	(1000AF)	(1000AF	) (1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
=========		======	=======	=======	======	=======	========
SNAKE nr Mora							
APR-JUL	485	555	600	74	645	715	815
APR-SEP	530	610	665	74	720	800	905
SNAKE ab resv	v nr Alpin	e(1,2)					
APR-JUL	1420	1620	1710	72	1800	2000	2370
APR-SEP	1630	1870	1980	73	2090	2330	2730
SNAKE nr Irwi	in (1,2)						
APR-JUL	1760	2080	2230	67	2380	2700	3330
APR-SEP	2050	2420	2590	67	2760	3130	3870
SNAKE near He	eise (2)						
APR-JUL	1890	2210	2380	67	2530	2880	3560
APR-SEP	2200	2620	2780	67	2970	3370	4160
PACIFIC CREEK	K at Moran						
APR-JUL	80	100	114	67	128	148	171
APR-SEP	87	108	122	69	136	157	178
GREYS above I	Palisades						
APR-JUL	166	200	225	66	250	285	340
APR-SEP	198	240	265	67	290	330	395
SALT near Etr	na						
APR-JUL	108	161	197	58	235	285	340
APR-SEP	142	205	245	58	285	350	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. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

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### SNAKE RIVER BASIN Reservoir Storage (1000AF) End of March

 Usable
 \*\*\*\*\*\*\*\*\*\* Usable Storage \*\*\*\*\*\*\*\*\*

 Reservoir
 Capacity
 This Year
 Last Year
 Average

 GRASSY LAKE
 15.2
 12.7
 8.6
 12.3

 JACKSON LAKE
 847.0
 636.4
 419.8
 486.6

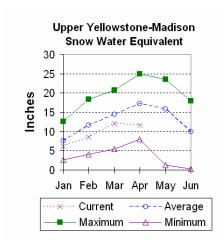
 PALISADES
 1400.0
 1178.6
 845.4
 941.5

### SNAKE RIVER BASIN

	Number of	This Year as Pe	ercent of
Watershed	Data Sites	Last Year	Average
=======================================	===========	==============	
SNAKE above Jackson Lake	9	59	65
PACIFIC CREEK	3	58	67
GROS VENTRE RIVER	3	65	65
HOBACK RIVER	5	59	59
GREYS RIVER	5	59	69
SALT RIVER	5	57	65
SNAKE above Palisades	28	57	63

# **Upper Yellowstone & Madison River Basins**

# **Snow**



Snowfall in these basins has been low so far this year and the SWE in both basins is below average for this month. Snow water equivalent (SWE) is about 65% of average (62% of last year) in the Madison drainage. SWE in the Yellowstone drainage is about 68% of average (69% of last year at this time). See the "Snow Course Basin Summary" at the beginning of this document for more details on specific sites.

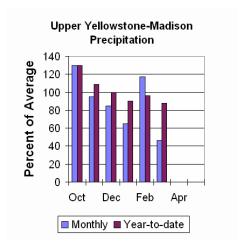
# **Precipitation**

Last month precipitation in the Upper Yellowstone and Madison drainages were about 46% of average (57% of last year) for the 5 reporting stations -- percentages range from 30-63% of average. Water-year-to-date precipitation is

about 88% of average (85% of last year's amount). Year to date percentage ranges from 76-101%.

# Reservoir

Ennis Lake is storing about 28,200 ac-ft of water (69% of capacity, 90% of average or 95% of last year's volume). Hebgen Lake is storing about 275,400 ac-ft of water (73% of capacity, 106% of average or 104% of last year's volume. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



# **Streamflow**

All the following yields are the 50% exceedance forecasts from April through September. Yellowstone at Lake Outlet

is 600,000 ac-ft (75% of average). Yellowstone at Corwin Springs will yield around 1,600,000 ac-ft (81% of average). Yellowstone near Livingston will yield around 1,840,000 ac-ft (81% of average). Hebgen Reservoir inflow is 395,000 ac-ft (79% of average). See the following page for detailed runoff volumes.

# TIDDED VELLOUGEMENT C MADICON DIVER DAGING

### UPPER YELLOWSTONE & MADISON RIVER BASINS Streamflow Forecasts - April 1, 2007

	<=== Dr	ier ===	Future Co	nditions	=== Wett	er ===>		
Forecast Pt Forecast Period		70%	Chance of   50   50   (1000AF)	%	30%	10%	30 Yr Avg (1000AF)	
YELLOWSTONE a		tlet						
APR-JUL	350 475	410	450 600	76 75	490 650	550 725	590 805	
YELLOWSTONE H	RIVER at C	orwin Sp	rings					
APR-JUL	1100	1240	1340	81	1440	1580	1650	
APR-SEP	1320	1480	1600	81	1720	1880	1970	
YELLOWSTONE H	RIVER near	Livings	ton					
APR-JUL	1340	1460	1540	81	1620	1740	1900	
APR-SEP	1600	1740	1840	81	1940	2080	2280	
HEBGEN Reserv	oir Inflo	W						
APR-JUL	245	285	310	80	335	375	390	
APR-SEP	320	365	395	79	425	470	500	

<sup>\* 90%, 70%, 50%, 30%,</sup> 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. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

UPPER YELLOWSTONE & MADISON RIVER BASINS

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

=======================================		:=======		========
	Usable	*******	Usable Storage	*****
Reservoir	Capacity	This Year	Last Year	Average
ENNIS LAKE HEBGEN LAKE	41.0 377.5	28.2 275.4	29.6 264.2	31.2 259.6

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# UPPER YELLOWSTONE & MADISON RIVER BASINS Watershed Snowpack Analysis - April 1, 2007

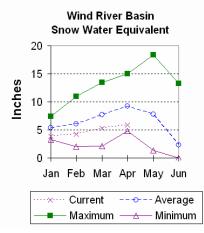
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Watershed	Number of Data Sites	This Year as Last Year	Percent of Average
MADISON RIVER in WY YELLOWSTONE RIVER in WY	.=====================================	======================================	65 68
	:===========	=========	:========

# Wind River Basin

# **Snow**

The Wind River Basin has below average snow water equivalent (SWE) for this time of the year. SWE in the Wind River above Dubois is 56% of average (66% of last year at this time). The Little Wind SWE is 75% of average water content (113% of last year), and the Popo Agie drainage SWE is about 75% of average (91% of last year). The Wind River Basin, above Boysen Reservoir SWE is about 64% of average (80% of last year). See the Basin Summary of Snow Course Data at the front of this report for details.



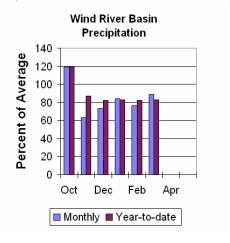
# **Precipitation**

Last months precipitation in the basin varied from 30-195% of average. Precipitation, for the basin, was about 89% of average from the 8 reporting stations; that is about 142% of last year's amount. Water year-to-date precipitation is 83% of average and about 92% of last year at this time. Year-to-date percentages range from 74-102% of average.

# Reservoirs

Current storage varies from 68-93% of average. Usable storage

in Bull Lake is currently about 57,900 ac-ft (38% of capacity) - last year the reservoir was at 48% of capacity at this time. Boysen Reservoir is storing about 71% of capacity (425,700 ac-ft) – last year the reservoir was at 87% of capacity at this time. Pilot Butte is at 80% of capacity (25,400 ac-ft) – last year the reservoir was at 78% of capacity at this time. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



# **Streamflow**

Water supply is estimated to be below average this year. The following values reflect the 50% exceedance forecasts for the April through September runoff period. Dinwoody Creek near Burris is 77,000 ac-ft (82% of average). The Wind River above Bull Lake Creek is 375,000 ac-ft (70% of average). Bull Lake Creek near Lenore is 127,000 ac-ft (70% of average). Wind River at Riverton will yield around 395,000 ac-ft (62% of average). Little Popo Agie River near Lander is around 33,000 ac-ft (62% of average). South Fork of Little Wind near Fort Washakie will yield around 60,000 ac-ft (71% of average). Little Wind River near Riverton will yield around 180,000 ac-ft (57% of average). Boysen Reservoir inflow will yield around 435,000 ac-ft (54% of average). See the following page for detailed runoff volumes.

### WIND RIVER BASIN Streamflow Forecasts - April 1, 2007

<pre></pre>							
Forecast Pt	======	:===== (	Chance of			======	
Forecast	90%	70%	5	0%	30%	10%	30 Yr Avg
Period	(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
=========				=======		=======	:=======
DINWOODY CRE							
APR-JUL	35	45	52	78	59	69	67
APR-SEP	56	68	77	82	86	98	94
WIND RIVER al							
APR-JUL	200	260	300	69	340	400	435
APR-SEP	265	330	375	70	420	485	535
BULL LAKE CR		, ,					
APR-JUL	61	86	102	69	118	143	148
APR-SEP	75	106	127	70	148	179	182
WIND RIVER at	t Riverton	(2)					
APR-JUL	135	250	330	61	410	525	545
APR-SEP	190	310	395	62	480	600	640
LT POPO AGIE	RIVER nr	Lander					
APR-JUL	11.8	21	28	61	35	44	46
APR-SEP	15.8	26	33	62	40	50	53
SF LT WIND n	r Fort Was	hakie					
APR-JUL	29	43	52	71	61	75	73
APR-SEP	34	49	60	71	71	86	84
LT WIND RIVE	R nr River	ton					
APR-JUL	20	104	160	57	215	300	280
APR-SEP	32	120	180	57	240	330	315
BOYSEN RESERV	JOIR Inflo	w (2)					
APR-JUL	115	275	385	54	495	655	717
APR-SEP	140	315	435	54	555	730	809
========		=======		=======	======	=======	========

<sup>\* 90%, 70%, 50%, 30%,</sup> 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. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

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## WIND RIVER BASIN

Reservoir Storage (1000AF) End of March

Reservoir	Usable	********	Usable Storage	******
	Capacity	This Year	Last Year	Average
BULL LAKE	151.8	57.9	72.3	104.8
BOYSEN	596.0	425.7	517.5	653.5
PILOT BUTTE	31.6	25.4	24.7	21.9

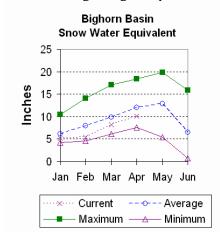
### WIND RIVER BASIN

Watershed	Number of	This Year as F	Percent of
	Data Sites	Last Year	Average
WIND RIVER above Dubios LITTLE WIND	======================================	64 113	53 75
POPO AGIE	7	91	75
WIND above Boysen Resv	14	77	63

# **Bighorn River Basin**

# **Snow**

Snowpack in this basin is below average for this time of year. The Nowood River is at 74% of average (83% of last year). The Greybull River SWE is at 75% of average (106% of last year). Shell Creek SWE is 95% of average (109% of last year). The Bighorn River Basin SWE, as a whole, is currently 84% of average (98% of last year). For more information see Basin Summary of Snow Courses at beginning of report.



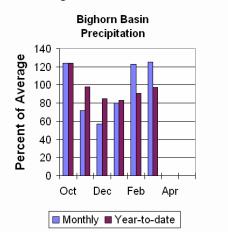
# **Precipitation**

Last month's precipitation was 125% of average (170% of last year). Sites ranged from 80-200% of average for the month. Year-to-date precipitation is 97% of average; that is 107% of last year at this time. Year-to-date percentages, from the 9 reporting stations, range from 76-111%.

# Reservoir

Boysen Reservoir is currently storing 425,700 ac-ft (65% of average).

Bighorn Lake is now at 97% of average (782,200 ac-ft). Boysen is currently storing 82% of last year volume at this time and Big Horn Lake is storing 97% of last year's volume. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



# **Streamflow**

The 50% exceedance forecasts for the April through September runoffs are anticipated to be below average. Boysen Reservoir inflow is 435,000 ac-ft (54% of average); the Greybull River near Meeteetse should yield around 135,000 ac-ft (68% of average); Shell Creek near Shell should yield around 64,000 ac-ft (89% of average) and the Bighorn River at Kane should yield around 670,000 ac-ft (60% of average). See the following page for detailed runoff volumes.

# \_\_\_\_\_\_

### BIGHORN RIVER BASIN Streamflow Forecasts - April 1, 2007

=========									
	<=== Dr	ier ===	Future Co	onditions	=== Wett	er ===>			
Forecast Pt	======	======	Chance of	Exceeding	* =====	======			
Forecast	90%	70%	1	)%	30%	10%	30 Yr Avg		
Period	(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)		
DOVCEN DECED	70TD Trflo	====== w (2)			======	=======	:=======		
BOYSEN RESERV	-	. ,	205	Ε 4	405	655	717		
APR-JUL	115	275	385	54	495	655	717		
APR-SEP	140	315	435	54	555	730	809		
GREYBULL RIVE	ID nr Meet	eetse							
APR-JUL	65 65	83	95	64	107	125	148		
				0 2					
APR-SEP	94	119	135	68	151	176	200		
SHELL CREEK r	nr Shell								
APR-JUL	44	50	54	90	58	64	60		
APR-SEP	53	60	64	89	68	75	72		
BIGHORN RIVER	R at Kane	(2)							
APR-JUL	340	495	600	60	705	860	1000		
APR-SEP	380	550	670	60	790	960	1110		

<sup>\* 90%, 70%, 50%, 30%,</sup> 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. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

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# BIGHORN RIVER BASIN Peccaryoir Storage (1000AF) End of Mar

Reservoir Storage (1000AF) End of March

Reservoir	Usable	********	Usable Storage	*******
	Capacity	This Year	Last Year	Average
BOYSEN	596.0	425.7	517.5	653.5
BIGHORN LAKE	1356.0	782.2	807.8	809.9

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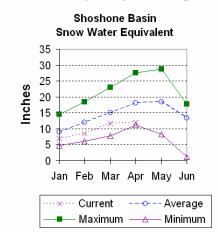
### BIGHORN RIVER BASIN

Watershed	Number of Data Sites	This Year as P Last Year	ercent of Average
NOWOOD RIVER	 5	83	74
GREYBULL RIVER	2	106	74 75
SHELL CREEK	4	109	95
BIGHORN (Boysen-Bighorn)	11	98	84

# Shoshone and Clarks Fork River Basin

# **Snow**

Snowpack in these basins are below average for this time of year. Snow Water Equivalent (SWE) is 62% of average (79% of last year) in the Shoshone River Basin. The Clarks Fork River Basin SWE is 70% of average (75% of last year). For more information see the Basin Summary of Snow Course Data at the beginning of this report.



# **Precipitation**

Precipitation for last month was 55% of average (79% of last year) for the 8 reporting stations. Monthly percentages range from 30-126% of average. The basin year-to-date precipitation is now 90% of average (95% of last year). Year-to-date percentages range from 81-101% of average.

# Reservoir

Current storage in Buffalo Bill Reservoir is about 97% of average

(97% of last year's storage) – the reservoir is at about 71% of capacity. Currently, about 460,000 ac-ft are stored in the reservoir compared to 474,800 ac-ft last year. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



# **Streamflow**

The following values are the 50% exceedance forecasts for the April through September period. The North Fork Shoshone River at Wapiti is 435,000 ac-ft (84% of average). The South Fork of the Shoshone River near Valley is 167,000 ac-ft (63% of average), and the South Fork above Buffalo Bill Reservoir runoff is 145,000 ac-ft (64% of average). The Buffalo Bill Reservoir inflow is expected to yield around 605,000 ac-ft (75% of average). The yield for the Clarks Fork of the Yellowstone near Belfry, Montana is expected to be around 475,000 ac-ft (80% of average). See the following page for detailed runoff volumes.

# SHOSHONE & CLARKS FORK RIVER BASINS

SHOSHONE 8	×	CLARKS	F.OF	КK	RIVER	BAS	SINS
Streamflow	N	Forecas	sts	-	April	1,	2007

==:									
		<=== Dri 	er ===	Future Co	onditions	=== Wett	er ===>		
For	recast Pt Forecast Period	=======   90%  (1000AF)	70%	50		30%	10%	30 Yr Avg (1000AF)	
NF	SHOSHONE I	RIVER at Wa	npiti						
	APR-JUL APR-SEP	325 370	360 410	385 435	84 84	410 460	445 500	460 520	
SF	SHOSHONE I	RIVER nr Va	alley						
	APR-JUL	109	132	147	65	162		225	
	APR-SEP	121	148	167	63	186	215	265	
SF	SHOSHONE I	RIVER abv E	Buffalo E	Bill					
	APR-JUL	69	111	140	65	169	211	215	
	APR-SEP	68	114	145	64	176	222	225	
BUI	FFALO BILL	DAM Inflow	ı (2)						
	APR-JUL	400	485	540	75	595	680	720	
	APR-SEP	455	545	605	75	665	755	805	
CL	ARKS FORK I	RIVER nr Be	elfrv						
	APR-JUL	355	405	440	82	475	525	540	
	APR-SEP	385	440	475	80	510	565	595	

<sup>\* 90%, 70%, 50%, 30%,</sup> 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. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

SHOSHONE & CLARKS FORK RIVER BASINS

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

Reservoir	Usable Capacity	********* This Year	Usable Storage Last Year	******* Average
BUFFALO BILL	646.6 	460.0	474.8 ========	475.1 ========

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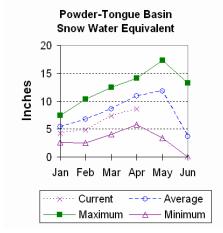
SHOSHONE & CLARKS FORK RIVER BASINS

=======================================		=======================================	
	Number of	This Year as Pe	ercent of
Watershed	Data Sites	Last Year	Average
		===============	
SHOSHONE RIVER	6	79	62
CLARKS FORK in WY	7	75	70

# **Powder and Tongue River Basins**

# **Snow**

Snow water equivalent (SWE) in the Upper Tongue River drainage is 95% of average (118% of last year). The Goose Creek drainage is 94% of average and 125% of last year. SWE in the Clear Creek drainage is 81% of average and 107% of last year. Crazy Woman Creek drainage is 77% of average and 100% of last year. Upper Powder River drainage SWE is 85% of average and 88% of last year. Powder River basin SWE, in Wyoming is 83% of average and 96% of last year. For more information see Basin Summary of Snow Courses at beginning of report.



# **Precipitation**

Last month's precipitation was 149% of average for the 9 reporting stations (213% of last year). Monthly percentages range from 104-200% of average. Year-to-date precipitation is 101% of average in the basin; this is 111% of last year at this time. Precipitation for the year ranges from 76-113% of average at the reporting stations.

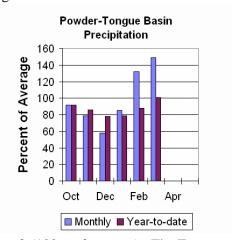
# Reservoir

Tongue River Reservoir current

storage is 62,100 ac-ft compared to 47,100 ac-ft last year, which is 79% of capacity or 206% of average.

# **Streamflow**

The following runoff values are the 50% probability forecasts for the April through September period. The yield for Tongue River near Dayton is 111,000 ac-ft (102% of average). Big Goose Creek near Sheridan is 60,000 ac-ft



(100% of average). Little Goose Creek near Bighorn is 43,000 ac-ft (102% of average). The Tongue River Inflow is 240,000 ac-ft (96% of average). The Middle Fork of the Powder River near Barnum is 13,600 ac-ft (73% of average). The North Fork of the Powder River near Hazelton should yield around 7,800 ac-ft (75% of average). Rock Creek near Buffalo will yield about 14,900 ac-ft (62% of average), and Piney Creek at Kearny should yield about 39,000 ac-ft (72% of average). The Powder River at Moorehead is 145,000 ac-ft (63% of average). The Powder River near Locate is 160,000 ac-ft (62% of average). See the following page for detailed runoff volumes.

# POWDER & TONGUE RIVER BASINS Streamflow Forecasts - April 1, 2007

=========		======	========		=======	=======	:=======
	<=== Dr	ier ===	Future Co	onditions	=== Wett	er ===>	
Forecast Pt	======	======	Chance of		, * =====		
Forecast	90%	70%	50		30%	10%	30 Yr Avg
Period	(1000AF)		) (1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
TONGUE RIVER	-						
APR-JUL	70	87	98	102	109	126	96
APR-SEP	80	98	111	102	124	142	109
BIG GOOSE CR							
APR-JUL	31	44	53	102	62	75	52
APR-SEP	37	51	60	100	69	83	60
LITTLE GOOSE							
APR-JUL	23	30	35	103	40	47	34
APR-SEP	30	38	43	102	48	56	42
TONGUE RIVER			. ,				
APR-JUL	121	177	215	98	255	310	220
APR-SEP	138	200	240	96	280	340	250
MIDDLE FORK							
APR-JUL	6.2	10.1	12.8	72	15.5	19.4	17.8
APR-SEP	6.7	10.8	13.6	73	16.5	20	18.7
NORTH FORK PO							
APR-JUL	4.8	6.2	7.2	75	8.2	9.6	9.6
APR-SEP	5.2	6.7	7.8	75	8.9	10.4	10.4
ROCK CREEK n							
APR-JUL	5.3	9.3	12.0	60	14.7	18.7	19.9
APR-SEP	8.1	12.1	14.9	62	17.7	22	24
PINEY CREEK							
APR-JUL	11.1	26	36	74	46	61	49
APR-SEP	12.3	28	38	73	48	64	52
POWDER RIVER							
APR-JUL	29	89	130	63	171	231	205
APR-SEP	42	103	145	63	187	250	230
POWDER RIVER							
APR-JUL	84	121	146	62	171	208	235
APR-SEP	92	132	160	62	188	229	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.
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- (2) The value is natural volume actual volume may be affected by upstream water management.
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POWDER & TONGUE RIVER BASINS Reservoir Storage (1000AF) End of March

Usable \*\*\*\*\*\*\*\*\* Usable Storage \*\*\*\*\*\*\*\*

Reservoir Capacity This Year Last Year Average

TONGUE RIVER 79.1 62.1 47.1 30.1

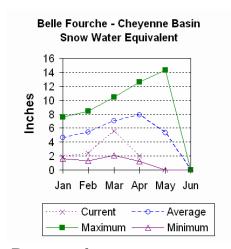
POWDER & TONGUE RIVER BASINS

=======================================			:========
	Number of	This Year as	Percent of
Watershed	Data Sites	Last Year	Average_
UPPER TONGUE RIVER	10	118	95
GOOSE CREEK	3	125	94
CLEAR CREEK	4	107	81
CRAZY WOMAN CREEK	3	100	77
UPPER POWDER RIVER	4	88	85
POWDER RIVER in WY	8	96	83

# **Belle Fourche and Cheyenne River Basins**

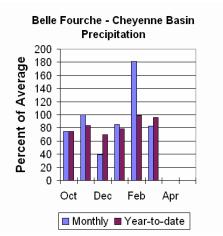
# **Snow**

The Belle Fourche River Basin is currently at 25% of average or 27% of last year at this time. See the Basin summary of Snow Course Data at the beginning of this report for a detailed listing.



# **Precipitation**

Precipitation for last month was 83% of average or 104% of last year in the Black Hills. There were 2 reporting stations. Monthly percentages range from 62-127%. Year-to-date precipitation is 96% of average and 92% of last year's amount.



# Reservoir

Current reservoir storage is around 57% of average in the basin. Angostura is currently storing 41% of average (45,300 ac-ft), about 37% of capacity. Belle Fourche reservoir is storing 73% of average (96,000 ac-ft), about 54% of capacity. Deerfield reservoir is

storing 89% of average (12,000 ac-ft), about 79% of capacity. Keyhole reservoir is storing 51% of average (57,800 ac-ft), 30% of capacity. Pactola reservoir is storing 69% of average (32,300 ac-ft), 59% of capacity. Shadehill reservoir is storing 48% of average (30,100 ac-ft), 37% 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% probability forecasts for the April through July period. The Deerfield Reservoir Inflow is 3,600 ac-ft (71% of average). Pactola Reservoir Inflow is expected to yield around 14,000 ac-ft (61% of average). See the following page for detailed runoff volumes.

# BELLE FOURCHE & CHEYENNE RIVER BASINS

### BELLE FOURCHE & CHEYENNE RIVER BASINS Streamflow Forecasts - April 1, 2007

	Deleamilow Tolecabeb Inpili 1, 2007							
=========		=======		=======	======	=======	========	
	<=== Dr	ier === 1	Future Co	nditions	=== Wett	er ===>		
Forecast Pt Forecast Period	   =======   90%  (1000AF)	70%	Chance of   50  (1000AF)	%	30%	!	30 Yr Avg (1000AF)	
=========	=======	=======	=======	=======	=======	=======	========	
DEERFIELD RES	SERVOIR In	flow						
APR-JUL	0.8	2.4	3.6	71	4.7	6.4	5.1	
PACTOLA RESE	RVOIR Infl	OW						
APR-JUL	0.9	7.6	14.0	61	20	30	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. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

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

=======================================	========	========		========
	Usable	******	Usable Storage	*****
Reservoir	Capacity	This Year	Last Year	Average
=======================================	=========	========		
ANGOSTURA	122.1	45.3	55.2	110.1
BELLE FOURCHE	178.4	96.0	75.1	130.9
DEERFIELD	15.2	12.0	11.5	13.5
KEYHOLE	193.8	57.8	73.5	113.5
PACTOLA	55.0	32.3	36.4	46.8
SHADEHILL	81.4	30.1	36.6	63.1
=======================================	========	========		========

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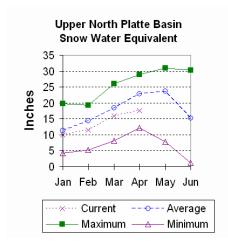
### BELLE FOURCHE & CHEYENNE RIVER BASINS Watershed Snowpack Analysis - April 1, 2007

Watershed	Number of	This Year as Pe	ercent of
	Data Sites	Last Year	Average
BELLE FOURCHE	8	24	23

# **Upper North Platte River Basin**

### **Snow**

SWE above Seminoe Reservoir is showing about 77% of average for this time of the year (72% of last year). SWE in the drainage area above Northgate is about 82% of average and 77% of last year at this time. SWE in the Encampment River drainage is about 70% of average and 60% of last year. Brush Creek SWE for the year is about 74% of average and 70% of last year's SWE. Medicine Bow and Rock Creek drainages SWE are about 74% of average and 73% of last year at this time. For more information see Basin Summary of Snow Courses at the beginning of this report.



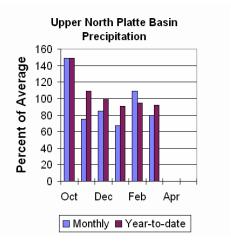
# **Precipitation**

Eight reporting stations indicate last month's precipitation at 80% of average or 79% of last year's amount. Precipitation varied from 54-139% of average last month. Total water-year-to-date precipitation is about 92% of average for the basin, which is about 78% of last year's amount. Year to date percentage ranges from 80-108% of average for the 8 reporting stations.

# Reservoirs

Seminoe Reservoir is estimated to be

storing 342,100 ac-ft or 34% of capacity. Seminoe Reservoir is also storing about 69% of average for this time of the year and 84% of last year. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



# **Streamflow**

The following yields are the 50% exceedance forecasts for the April through September period. Yield for the North Platte

River near Northgate will be around 200,000 ac-ft (74% of average). The Encampment River near Encampment is 127,000 ac-ft (77% of average). Rock Creek near Arlington is 41,000 ac-ft (72% of average). Sweetwater River near Alcova runoff is 55,000 ac-ft (69% of average). Seminoe Reservoir inflow should be around 645,000 ac-ft (75% of average). See the following table for more detailed information on projected runoff.

# UPPER NORTH PLATTE RIVER BASIN

# Streamflow Forecasts - April 1, 2007

	<=== Dr	ier === F	Tuture Co	onditions	=== Wett	er ===>	
Forecast Pt	======	======	Chance of	Exceeding	* =====	======	
Forecast	90%	70%	50	0%	30%	10%	30 Yr Avg
Period	(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
=========		=======		========		=======	========
NORTH PLATTE	RIVER nr	Northgate					
APR-JUL	81	142	182	74	225	285	245
APR-SEP	89	157	200	74	250	315	270
ENCAMPMENT RI	IVER nr En	campment					
APR-JUL	75	101	120	77	139	165	156
APR-SEP	79	107	127	77	147	177	165
ROCK CREEK nr	Arlingto	n					
APR-JUL	25	32	38	72	44	54	53
APR-SEP	27	35	41	72	47	58	57
SWEETWATER RI	[VER nr Al	cova					
APR-JUL	8.9	33	50	68	66	90	74
APR-SEP	12.0	37	55	69	72	97	80
SEMINOE RESER	RVOIR Infl	OW					
APR-JUL	305	470	590	74	710	880	800
APR-SEP	335	525	645	75	765	955	860
==========		=======		=======		=======	=======

<sup>\* 90%, 70%, 50%, 30%,</sup> 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. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

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# UPPER NORTH PLATTE RIVER BASIN Reservoir Storage (1000AF) End of March

			==========	========
	Usable	******	Usable Storage	*****
Reservoir	Capacity	This Year	Last Year	Average
			==========	========
SEMINOE	1016 7	342 1	409 4	495 9

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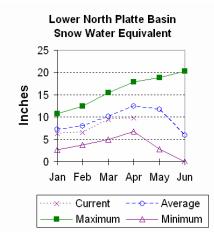
### UPPER NORTH PLATTE RIVER BASIN

Watershed	Number of Data Sites	This Year as P	ercent of Average
N PLATTE above Northgate ENCAMPMENT RIVER BRUSH CREEK MEDICINE BOW & ROCK CREEKS N PLATTE above Seminoe	7	77	82
	4	60	70
	5	70	74
	3	73	74
	19	72	77

# **Lower North Platte River Basin**

# **Snow**

SWE for the North Platte River Basin is at 78% of average (73% of last year). The Sweetwater drainage SWE is currently at 71% of average (74% of last year). Deer and LaPrele Creeks SWE are at 87% of average (83% of last year). SWE for the North Platte above the Laramie River drainage is 77% of average (73% of last year). SWE for the Laramie River above Laramie is 91% of average (85% of last year). SWE for the Little Laramie River is 84% of average (70% of last year). The Laramie River above mouth, SWE is 87% of average (80% of last year). For more information see Basin Summary of Snow Courses at the beginning of this report.

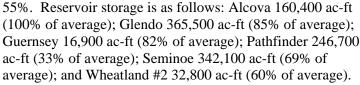


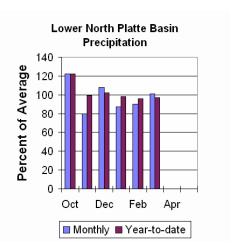
# **Precipitation**

Last month's precipitation was 101% of average or 119% of last year's amount. Of the 8 reporting stations, percentages for the month range from 69-129%. The water year-to-date precipitation for the basin is currently 97% of average (90% of last year). Year-to-date percentages range from 74-142%.

# Reservoir

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





# **Streamflow**

The following yields are based on the 50% exceedance forecasts for the April through September period. The

Sweetwater near Alcova is forecast to yield about 55,000 ac-ft (69% of average). Deer Creek at Glenrock is forecast to yield 24,000 ac-ft (59% of average). LaPrele Creek above the reservoir is forecast to yield 13,400 ac-ft (56% of average). Alcova to Orin Gain is forecast to yield 107,000 ac-ft (67% of average). North Platte River below Guernsey Reservoir is 685,000 ac-ft (69% of average), and below Glendo Reservoir is anticipated to yield around 725,000 ac-ft (72% of average). Laramie River near Woods Landing should yield around 125,000 ac-ft (93% of average). The Little Laramie near Filmore should produce about 48,000 ac-ft (75% of average). See the following table for more detailed information on projected runoff.

# LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS Streamflow Forecasts - April 1, 2007\_\_\_\_\_

			W I OI CCGD				
	<=== Dr	ler ===	Future Co	onaltions	=== wett	er ===>	
Barrage Dt			Cl	P			
Forecast Pt							20
Forecast							30 Yr Avg
			(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
SWEETWATER R							
APR-JUL	8.9		50				74
APR-SEP	12.0	37	55	69	72	97	80
DEER CREEK at							
APR-JUL	10.6	18.0	23	61	28	35	38
APR-SEP	11.3	18.9	24	59	29	37	41
Laprele Cree							
APR-JUL	3.4	8.4	13.2	55	19.0	30	24
APR-SEP	3.4	8.6	13.4	56			24
NORTH PLATTE	- Alcova	to Orin G	ain				
APR-JUL	21		100		149	240	152
APR-SEP	27	68	107	67	155	250	161
NORTH PLATTE	RIVER blw						
APR-JUL	395	555	660	69	765	925	960
APR-SEP	405	575	685	69	795	960	990
NORTH PLATTE	RIVER blw	Guernsey	7 Res				
APR-JUL	365		695		830	1025	970
APR-SEP	385	585	725	72	865	1065	1010
LARAMIE RIVE	R nr Woods						
APR-JUL	68	95	114	93	133	161	123
APR-SEP	73	104	125	93	146	178	135
LITTLE LARAM	IE RIVER n	r Filmore	2				
APR-JUL	28	38	44	75	51	61	59
APR-SEP	30		48			67	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. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS

Reservoir Storage (1000AF) End of March

	Usable	******	USADIC SCOLAGE	
Reservoir	Capacity	This Year	Last Year	Average
ALCOVA	184.3	160.4	157.1	160.1
				427.8
GLENDO	506.4	365.5	334.2	
GUERNSEY	45.6	16.9	17.3	20.6
PATHFINDER	1016.5	246.7	289.1	743.7
SEMINOE	1016.7	342.1	409.4	495.9
WHEATLAND #2	98.9	32.8	56.5	54.3

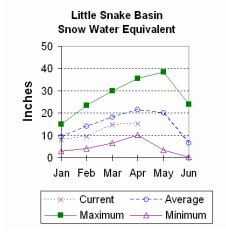
LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS
Watershed Snowpack Analysis - April 1, 2007

	Number of	This Year as	Percent of
Watershed	Data Sites	Last Year	Average
SWEETWATER	3	74	71
DEER & Laprele Creeks	3	83	87
N PLATTE abv Laramie R.	25	73	77
LARAMIE RIVER abv Laramie	11	85	91
LITTLE LARAMIE RIVER	5	70	84
LARAMIE RIVER above mouth	14	80	87
NORTH PLATTE	32	73	78

# Little Snake River Basin

# **Snow**

Currently, snow water equivalent (SWE) in the Little Snake River drainage is 71% of average (61% of last year). For more information see Basin Summary of Snow Courses at beginning of this report.



# **Precipitation**

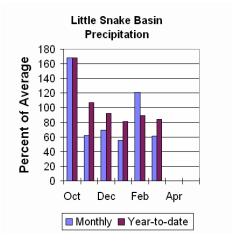
Precipitation across the basin was below average this past month. Last Month's precipitation was 61% of average (56% of last year) for the 5 reporting stations. Last month's precipitation ranged from 48-98% of average. The Little Snake River basin water-year-to-date precipitation is currently 84% of average (70% of last year). Year-to-date percentages range from 80-95 of average.

# Reservoir

High Savery Dam -Pending

# **Streamflow**

The 50% exceedance forecast for the Little Snake River drainage is expected to be below average this year. Stream yields are based on the 50% exceedance forecast for the April through July period. The Little Snake River near Slater should yield around 84,000 ac-ft (53% of average). The Little Snake River near Dixon is estimated to yield around 170,000 ac-ft (52% of average). See the following table for more detailed information on projected runoff.



### \_\_\_\_\_\_

# LITTLE SNAKE RIVER BASIN Streamflow Forecasts - April 1, 2007

=========	=======		========		=======	========	=========
	<=== D1	rier ===	Future Co	onditions	=== Wett	er ===>	
Forecast Pt Forecast Period	=======   90%  (1000AF)	70%	!	)% [	30%	!	30 Yr Avg (1000AF)
Little Snake APR-JUL	River nr 55	Slater 72	84	53	97	119	159
Little Snake APR-JUL	River nr 90	Dixon 134	170	52	210	276	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. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

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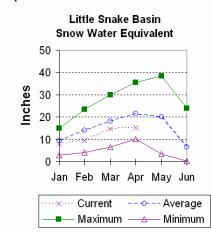
### LITTLE SNAKE RIVER BASIN

=======================================		_	========
Watershed	Number of Data Sites	This Year as P	ercent of Average
LITTLE SNAKE RIVER	8 =============	61	71 ======

# **Upper Green River Basin**

# **Snow**

Snow water equivalent (SWE) is below average in the Upper Green River drainage this year. The Green River Basin SWE above Warren Bridge is at 54% (55% of last year). SWE on the west side of the Upper Green River Basin is about 69% of average (61% of last year). Newfork River Basin SWE is now about 70% of average (69% of last year). Big Sandy-Eden Valley Basin is at 74% or 71% of last year. SWE in the Green River Basin above Fontenelle Reservoir is about 66% of average (60% of last year). For more information see the Basin Summary of Snow Courses at the beginning of this report.



# **Precipitation**

The 11 reporting precipitation sites in the basin were 53% of average last month (63% of last year). Last month's precipitation varied from 28-68% of average. Water year-to-date precipitation is about 77% of average (71% of last year). Year to date percentage of average ranges from 71-85% for the 11 reporting stations.

# Reservoir

Storage in Big Sandy Reservoir is 15,800 ac-ft or

41% of capacity. This is 76% of average. Eden Reservoir - No Report. Fontenelle Reservoir is 118,000 ac-ft or 34% of capacity This is 82% of average. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



# **Streamflow**

The 50% exceedance forecasts for the April through July runoff period in the Upper Green River Basin are forecast below average. The yield on the Green River at Warren

Bridge is around 170,000 ac-ft (64% of average). Pine Creek above Fremont Lake is 70,000 ac-ft (67% of average). New Fork River near Big Piney is 210,000 ac-ft (53% of average). Fontenelle Reservoir Inflow is estimated to be 370,000 ac-ft (43% of average), and Big Sandy near Farson is expected to be around 35,000 ac-ft (60% of average). See the following table for more detailed information on projected runoff.

### \_\_\_\_\_\_

### UPPER GREEN RIVER BASIN Streamflow Forecasts - April 1, 2007

	<=== Dr	ier ===	Future Co	onditions	=== Wette	er ===>	
Forecast Pt Forecast Period		70%	50	Exceeding )%   (% AVG.) (	30%	10%	30 Yr Avg (1000AF)
Green River a	at Warren 135	Bridge 155	170	64	185	209	265
Pine Creek ak APR-JUL	ov Fremont 58	Lake 65	70	67	75	83	104
New Fork Rive APR-JUL	er nr Big 138	Piney 179	210	53	244	298	395
Fontenelle Re APR-JUL	eservoir I 210	nflow 300	370	43	447	574	860
Big Sandy Riv APR-JUL	ver nr Far 24	son 30	35	60	40	49	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. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

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# UPPER GREEN RIVER BASIN

# Reservoir Storage (1000AF) End of March

Reservoir	Usable Capacity	******** This Year	Usable Storage Last Year	******* Average
BIG SANDY EDEN	38.3	15.8 NO RE	26.6 PORT	20.7
FONTENELLE	344.8	118.0	130.7	143.0

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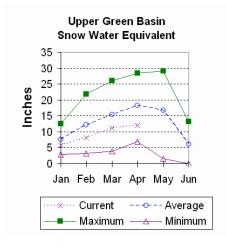
### UPPER GREEN RIVER BASIN

watershed Data Sites Last Year Average	Watershed	Number of Data Sites	This Year as F Last Year	
UPPER GREEN (West Side)       7       61       6         NEWFORK RIVER       2       69       7         BIG SANDY/EDEN VALLEY       1       71       7	UPPER GREEN (West Side) NEWFORK RIVER BIG SANDY/EDEN VALLEY	1	61 69 71	54 69 70 74 66

# **Lower Green River Basin**

# **Snow**

SWE in the Hams Fork Basin is 70% of average (60% of last year). Blacks Fork Basin SWE is currently 62% of average (57% of last year). The Henrys Fork drainage is at 85% of average (80% of last year). SWE in the Green River Basin above Flaming Gorge is 67% of average (61% of last year). For more information see Basin Summary of Snow Courses at beginning of this report.



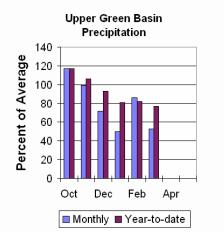
# **Precipitation**

Precipitation was below average for the 3 reporting stations during last month at 71% of average or 74% of last year. Precipitation ranged from 61-97% of average for the month. The basin year-to-date precipitation is currently 75% of average (67% of last year). Year-to-date percentages range from 70-82%.

# Reservoirs

Fontenelle Reservoir is currently storing 118,000 ac-ft; this is 83% of average (90% of

last year). Flaming Gorge is currently storing 3,166,000 acft; this is 108% of average (105% of last year). Viva Naughton is storing 37,300 ac-ft or 88% of capacity: this is 134% of average.



# **Streamflow**

The 50% exceedance forecasts for the April through July runoff period in the Lower Green River Basin are forecast below average. The Green River near Green River is forecast to yield about 375,000 ac-ft (43% of average). The Blacks Fork near Robertson is forecast to yield 65,000 ac-ft (68% of average). East Fork of Smiths Fork near Robertson is forecast to yield 20,000 ac-ft (69% of average). Hams Fork below Pole Creek near Frontier is 34,000 ac-ft (52% of average). The Hams Fork Inflow to Viva Naughton Reservoir is 45,000 ac-ft (51% of average). The Flaming Gorge Reservoir inflow will be about 525,000 ac-ft (44% of average). See the following table for more detailed information on projected runoff.

# \_\_\_\_\_\_

### LOWER GREEN RIVER BASIN Streamflow Forecasts - April 1, 2007

=========			========	=======	=========	=======	
	<=== Dri	ler ===	Future Cor	ditions	=== Wette	er ===>	
Forecast Pt Forecast Period	======= 90% (1000AF)	70%	Chance of E   50%  (1000AF) (	Ĭ	30%	10%	30 Yr Avg (1000AF)
Green River n	r Green Ri	ver WY	(2)				
APR-JUL	220	307	375	43	449	571	875
Blacks Fork r							
APR-JUL	44	56	65	68	75	90	95
EF of Smiths	Fork nr Ro	bertson					
APR-JUL	11.9	16.5	20	69	24	30	29
Hams Fk blw Pole Ck nr Frontier							
APR-JUL	21	28	34	52	40	50	65
Hams Fork Inf	E to Viva N	Naughton :					
APR-JUL	27	37	45	51	54	68	89
Flaming Gorge	e Reservoir	r Inflow	(2)				
APR-JUL	256	405	525	44	661	889	1190

<sup>\* 90%, 70%, 50%, 30%,</sup> 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. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

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# LOWER GREEN RIVER BASIN

Reservoir Storage (1000AF) End of March

	Usable	******	Usable Storage	*****
Reservoir	Capacity	This Year	Last Year	Average
=======================================	========		==========	
FONTENELLE	344.8	118.0	130.7	143.0
FLAMING GORGE	3749.0	3166.0	3022.0	2920.0
VIVA NAUGHTON RES	42.4	37.3	28.4	27.8
=======================================	========	=========	==========	========

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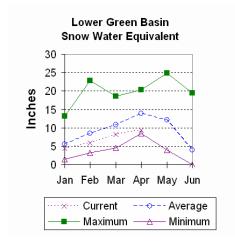
# LOWER GREEN RIVER BASIN

=======================================		_	=========
	Number of	This Year as P	ercent of
Watershed	Data Sites	Last Year	Average
=======================================			=========
HAMS FORK RIVER	4	60	70
BLACKS FORK	5	57	62
HENRYS FORK	3	80	85
GREEN above Flaming Gorge	24	61	67
=======================================		==========	=========

# **Upper Bear River Basin**

# **Snow**

Snow water equivalent (SWE) in the Upper Bear River Basin in Utah is estimated to be 63% of average; that is about 54% of last year at this time. SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is estimated at 72% of average (62% of last year). Bear River Basin SWE, above the Idaho State line, is 66% of average and 57% of last year. See the Basin Summary of Snow Course Data at the beginning of this report for more detailed information.



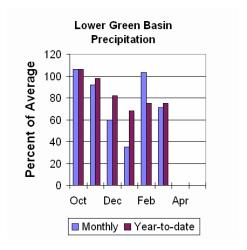
# **Precipitation**

Precipitation for last month was 63% of average for the 2 reporting stations; this is 79% of the precipitation received last year. The year-to-date precipitation, for the basin, is 74% of average; this is 71% of last year's amount.

# Reservoir

Storage, in Woodruff Narrows reservoir, is about 57,300 ac-ft (175% of average). Current reservoir

storage is about 100% of capacity. Reservoir storage last year at this time was 42,000 ac-ft at this time.



# **Streamflow**

The following 50% exceedance forecasts are for the April through September period. The Bear River near the Utah-Wyoming State Line is 84,000 ac-ft (67% of average). The

Bear River above Reservoir near Woodruff is 65,000 ac-ft (46% of average). The Smiths Fork River near Border is 76,000 ac-ft (63% of average). See the following table for more detailed information on projected runoff.

### 

# UPPER BEAR RIVER BASIN Streamflow Forecasts - April 1, 2007

	<=== Dr:	ier === F	uture Cor	nditions	=== Wett	er ===>	
Forecast Pt Forecast Period	======= 90% (1000AF)	70%	Chance of E 508 (1000AF)	š Ĭ	30%	10%	30 Yr Avg (1000AF)
=========					=======	=======	========
Bear River ni	r UT-WY Sta	ate Line					
APR-JUL	56	68	77	68	86	101	113
APR-SEP	60	74	84	67	95	112	125
Bear River ab Reservoir nr Woodruff							
APR-JUL	28	48	64	47	82	114	136
APR-SEP	27	48	65	46	85	120	142
Smiths Fork nr Border							
APR-JUL	44	55	64	62	73	88	103
APR-SEP	53	66	76	63	86	103	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. The value listed under 30% is actually a 25% exceedance level. The value listed under 70% is actually a 75% exceedance level. Forecast issued in cooperation with Alberta Environment.

# UPPER BEAR RIVER BASIN

Reservoir Storage (1000AF) End of March

Reservoir	Usable	********	Usable Storage	*******
	Capacity	This Year	Last Year	Average
WOODRUFF NARROWS	57.3	57.3	42.0	32.7

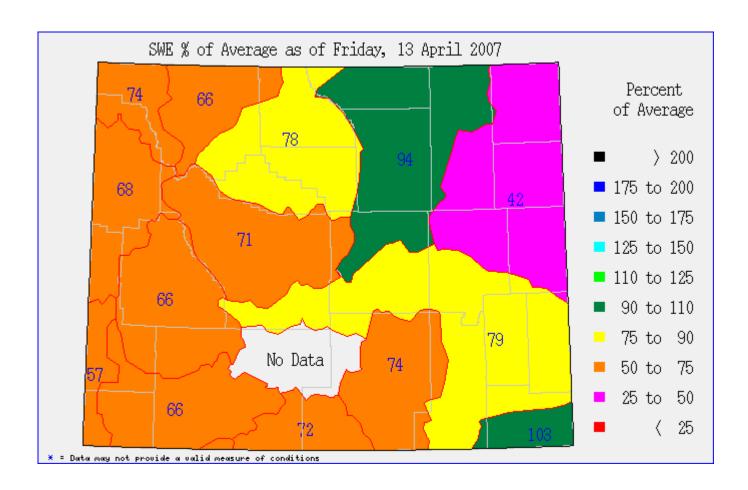
### UPPER BEAR RIVER BASIN

Watershed	Number of Data Sites	This Year as F Last Year	ercent of Average	
UPPER BEAR RIVER in Utah	 7	54	63	
SMITHS & THOMAS FORKS	4	62	72	
BEAR RIVER abv ID line	9	57	66	
NORTHWEST	75	68	66	
NORTHEST	23	94	80	
SOUTHEAST	35	68	75	
SOUTHWEST	33	59	66	

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Casper, Wyoming





# Wyoming Basin Outlook Report Natural Resources Conservation Service Casper, WY





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