

United States
Department of
Agriculture

Natural
Resources
Conservation
Service

Wyoming

Basin Outlook Report

April 1, 2005



Basin Outlook Reports

And Federal - State - Private Cooperative Snow Surveys

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How forecasts are made

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

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

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

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Wyoming Water Supply Outlook Report

General

Generally, the snow water equivalent (SWE) across Wyoming is well below average for this time of the year. Early storms covered Wyoming with snow, but very little snow has fallen since late November. Snow in March raised the overall SWE slightly. SWE for the State of Wyoming as a whole is about 82% of average for this time of the year.

Precipitation for last month varied from 43% below average to 11% above average for the State. Year-to-date precipitation is also well below average for the year and varies from 67-96% of average per basin. Basin reservoir levels for Wyoming vary from 33-147% of average for an overall average of 81%. Reservoirs on the North Platte River are well below average at 55% of average. Most of the reservoirs in the northeast are below average in storage at 71%, except the Tongue River, which is at 147% of average. Reservoirs in the Wind River Basin are average or above. Reservoirs on the Big Horn are slightly below average at 89%. Reservoirs on the Green River are slightly below average. Forecast runoff varies from 37-119% of average across Wyoming.

Snowpack

Snow water equivalent (SWE), across Wyoming is below average for this time of year. SWE in the NW portion of Wyoming is now about 72% of average (98% of last year). NE Wyoming SWE is currently about 72% of average (112% of last year). The SE portion of Wyoming SWE is currently about 87% of average (130% of last year). The SW portion of Wyoming SWE is about 95% of average (137% of last year).

Precipitation

Last month's precipitation was below average across most of Wyoming. The Little Snake River Basin had the lowest percentage for the month at 57% of average. The Belle Fourche River was 111% of average for the highest percentage basin for the month, which has helped the Northeast portion slightly. 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	-18%	Upper North Platte River	-29%
Yellowstone & Madison	-20%	Lower North Platte	-22%
Wind River	-34%	Little Snake River	-43%
Big Horn	-06%	Upper Green River	-06%
Shoshone & Clarks Fork	-19%	Lower Green River	-03%
Powder & Tongue River	+08%	Upper Bear River	+04%
Belle Fourche & Cheyenne	+11%		

Streams

Stream flow yield is expected to be well below average across Wyoming. Most probable yield for the entire State of Wyoming is forecast to be well below average around 69% (varying from 37-119% of average). The Powder & Tongue River Basins of Wyoming are expected to yield about 81% of average -- yield estimates vary from 58-100% of average. Yield from the northwest portion of Wyoming is expected to yield about 66% of average -- yield estimates vary from 59-80% of average for the various forecast points. Yield for the North Platte in the southeast portion of Wyoming will be about 75% of average -- yield estimates range from 37-108% of average. Yield in the southwest portion of Wyoming varies from 83-119% of average -- mean estimated yield for the forecast points in southwest Wyoming is about 90% of average.

Reservoirs

All reservoirs are now reporting. Reservoir storage varies widely across the state for this time of the year; however, reservoir storage is improved from last year. See following table for further information about reservoir storage.

Major Reservoirs in Wyoming

WYOMING AND SURROUNDING STATES

BASIN AREA RESERVOIR	CURRENT AS % CAPACITY	LAST YR AS % CAPACITY	AVERAGE AS % CAPACITY	CURRENT AS % AVERAGE	CURRENT AS % LAST YR
ALCOVA	85	85	87	98	100
ANGOSTURA	48	72	90	53	67
BELLE FOURCHE	48	66	73	65	73
BIG SANDY	73	19	54	135	378
BIGHORN LAKE	48	49	60	80	97
BOYSEN	110	64	110	100	171
BUFFALO BILL	73	68	73	100	108
BULL LAKE	69	38	69	100	183
DEERFIELD	86	100	89	96	86
EDEN	23	0	36	64	0
ENNIS LAKE	76	69	76	99	110
FLAMING GORGE	76	70	78	98	108
FONTENELLE	40	48	41	96	83
GLENDO	67	58	84	79	116
GRASSY LAKE	59	66	81	73	90
GUERNSEY	46	44	45	102	105
HEBGEN LAKE	77	68	69	112	112
JACKSON LAKE	18	22	57	32	84
KEYHOLE	49	59	59	84	83
PACTOLA	75	88	85	88	85
PALISADES	51	43	67	75	117
PATHFINDER	24	30	73	33	81
PILOT BUTTE	85	75	69	123	113
SEMINOE	27	26	49	55	105
SHADEHILL	58	83	78	75	70
TONGUE RIVER	56	62	38	147	89
VIVA NAUGHTON RES	76	73	66	116	104
WHEATLAND #2	34	28	55	63	124
WOODRUFF NARROWS	48	33	57	84	145
TOTAL OF 29 RESERVOIRS	57	53	70	82	108

Raw KAF Totals Current= 7641 Last Year= 7083 Average= 9355 Capacity= 13300

Basin Summary of Snow Course Data

APRIL 2005

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

WYOMING Snow Course and SNOTEL Stations						
ALBANY	9400	3/30/05	38	10.3	6.2	13.7
ASTER CREEK	7750	3/30/05	68	19.1	24.2	30.5
BALD MOUNTAIN SNOTEL	9380	4/01/05	60	15.5	17.1	19.9
BASE CAMP SNOTEL	7030	4/01/05	---	12.0	14.3	18.1
BATTLE MTN. SNOTEL	7440	4/01/05	30	12.1	6.0	11.0
BEARLODGE DIVIDE	4680	3/30/05	0	.0	.0	1.3
BEARTOOTH LK. SNOTEL	9280	4/01/05	58	14.9	18.7	23.6
BEAR TRAP SNOTEL	8200	4/01/05	19	4.9	2.5	5.2
BIG GOOSE	7760	3/27/05	14	1.9	1.6	7.1
BIG GOOSE SNOTEL	7760	4/01/05	30	7.9	7.0	10.7
BIG PARK	8620	3/25/05	68	19.1	15.2	19.4
BIG SANDY SNOTEL	9080	4/01/05	58	15.4	12.0	14.7
BLACKWATER SNOTEL	9780	4/01/05	---	14.3	17.4	24.8
BLIND BULL SNOTEL	8900	4/01/05	71	19.1	20.1	28.3
BLIND PARK SNOTEL	6870	4/01/05	20	5.3	3.3	8.7
BLUE RIDGE	9620	3/29/05	40	11.7	9.3	11.7
BONE SPGS. SNOTEL	9350	4/01/05	54	14.1	14.4	16.4
BROOKLYN LK. SNOTEL	10220	4/01/05	168	17.3	14.4	23.9
BUCK CREEK	7960	3/29/05	30	7.6	6.8	10.6
BURGESS JCT. SNOTEL	7880	4/01/05	38	9.3	9.4	11.7
BURROUGHS CRK SNOTEL	8750	4/01/05	40	9.7	10.7	14.8
CANYON SNOTEL	8090	4/01/05	38	9.2	10.8	13.9
CARTER MOUNTAIN	7950	3/30/05	8	1.3	1.5	4.9
CASPER MTN. SNOTEL	7850	4/01/05	42	11.3	10.1	14.6
CASTLE CREEK	8400	3/29/05	8	1.4	.3	4.8
CCC CAMP	7000	3/30/05	44	12.0	10.0	12.7
CHALK CK #1 SNOTEL	9100	4/01/05	86	27.5	16.1	24.9
CHALK CK #2 SNOTEL	8200	4/01/05	59	17.4	11.3	16.2
CINNABAR PARK SNOTEL	9690	4/01/05	52	16.4	13.4	14.1
CLOUD PEAK SNOTEL	9850	4/01/05	50	14.0	12.1	13.5
COLE CANYON SNOTEL	5910	4/01/05	9	3.4	1.9	6.2
COLD SPRINGS SNOTEL	9630	4/01/05	26	7.2	1.8	9.0
COTTONWOOD CR SNOTEL	7700	4/01/05	---	20.0	17.6	24.2
CROW CREEK SNOTEL	8830	4/01/05	24	8.0	.1	9.0
DARBY CANYON	8250	3/31/05	61	17.4	22.4	24.5
DEER PARK SNOTEL	9700	4/01/05	70	21.8	14.1	17.1
DITCH CREEK	6870	3/29/05	2	.7	.8	4.1
DIVIDE PEAK SNOTEL	8860	4/01/05	64	19.8	16.6	20.0
DOMELAKE SNOTEL	8880	4/01/05	43	10.7	9.7	12.6
DU NOIR	8760	3/30/05	27	5.9	3.0	8.3
EAST RIM DIV SNOTEL	7930	4/01/05	---	9.4	9.7	13.3
ELBO RANCH	7100	4/03/05	28	7.0	8.8	11.6
ELKHART PARK SNOTEL	9400	4/01/05	---	12.3	10.9	13.6

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
EVENING STAR SNOTEL	9200	4/01/05	63	17.4	19.3	30.1
FOUR MILE MEADOWS	7860	3/29/05	28	6.5	7.5	12.8
FOX PARK	9060	3/30/05	22	5.9	1.5	7.6
GEYSER CREEK	8500	3/30/05	18	3.8	2.7	7.1
GLADE CREEK	7040	3/30/05	50	14.6	19.4	24.3
GRANITE CRK SNOTEL	6770	4/01/05	---	13.1	13.9	18.6
GRANNIER MEADOWS	8860	3/29/05	53	14.9	11.1	14.1
GRASSY LAKE SNOTEL.	7270	4/01/05	78	24.7	34.3	36.1
GRAVE SPRINGS SNOTEL	8550	4/01/05	28	6.8	8.7	9.4
GREYS BOUNDARY	5720	3/30/05	27	8.3	9.3	11.3
GROS VENTRE SNOTEL	8750	4/01/05	48	10.5	9.8	14.4
GROVER PARK DIVIDE	7000	3/30/05	37	9.6	5.9	11.2
HAIRPIN TURN	9480	3/30/05	42	11.2	8.1	16.3
HANSEN S.M. SNOTEL	8360	4/01/05	25	6.6	3.8	6.5
HAMS FORK SNOTEL	7840	4/01/05	---	12.5	6.2	12.0
HASKINS CREEK	8980	3/28/05	86	29.1	26.4	30.0
HOBACK GS	6640	3/29/05	24	7.8	5.7	--
HOBBS PARK SNOTEL	10100	4/01/05	50	14.1	10.8	15.1
HUCKLEBERRY DIVIDE	7300	3/30/05	48	13.3	17.1	21.3
INDIAN CREEK SNOTEL	9430	4/01/05	---	28.3	21.3	28.2
JACKPINE CREEK	7350	3/31/05	53	15.2	18.8	22.2
KELLEY R.S. SNOTEL	8180	4/01/05	---	17.5	12.7	17.1
KENDALL R.S. SNOTEL	7740	4/01/05	---	10.6	10.1	14.6
KIRWIN SNOTEL	9550	4/01/05	30	6.6	5.8	11.5
LAKE CAMP	7780	4/01/05	---	8.2E	5.9	10.4
LA PRELE SNOTEL	8380	4/01/05	28	6.8	5.5	11.0
LARSEN CREEK	9020	3/26/05	48	12.4	9.4	12.7
LEWIS LAKE SNOTEL	7850	4/01/05	77	23.4	29.0	35.8
LEWIS LAKE DIVIDE	7850	3/30/05	92	27.4	37.4	42.4
LIBBY LODGE	8750	3/30/05	31	8.4	3.7	10.9
LITTLE BEAR RUN	6240	3/29/05	3	.8	.0	2.4
LITTLE WARM SNOTEL	9370	4/01/05	34	8.1	6.5	12.0
LOOMIS PARK SNOTEL	8240	4/01/05	---	15.1	12.9	17.5
LUPINE CREEK	7380	3/28/05	20	5.5	5.5	9.9
MALLO	6420	3/30/05	14	4.0	3.5	6.5
MARQUETTE SNOTEL	8760	4/01/05	14	4.3	7.2	9.0
MEDICINE LODGE LAKES	9340	3/27/05	42	8.8	10.0	11.1
MIDDLE FORK	7420	3/29/05	19	5.1	5.0	6.0
MIDDLE POWDER SNOTEL	7760	4/01/05	31	7.8	9.5	11.8
MORAN	6750	3/29/05	25	7.1	7.0	12.4
MOSS LAKE	9800	3/29/05	56	16.6	12.8	23.6
NEW FORK SNOTEL	8340	4/01/05	---	11.2	9.0	11.3
NORRIS BASIN	7500	3/27/05	25	6.0	5.3	10.8
NORTH BARRETT CREEK	9400	4/29/05	62	17.7	15.0	21.5
NORTH FRENCH SNOTEL	10130	4/01/05	83	24.2	20.4	29.5
NORTH RAPID CK SNTL	6130	4/01/05	10	3.9	3.1	8.3
NORTH TONGUE	8450	3/27/05	37	8.3	6.4	13.0
OLD BATTLE SNOTEL	9920	4/01/05	99	33.0	27.2	32.4
OLD FAITHFUL	7400	3/31/05	43	11.2	11.4	13.9
ONION GULCH	8780	3/26/05	24	4.9	4.4	8.3

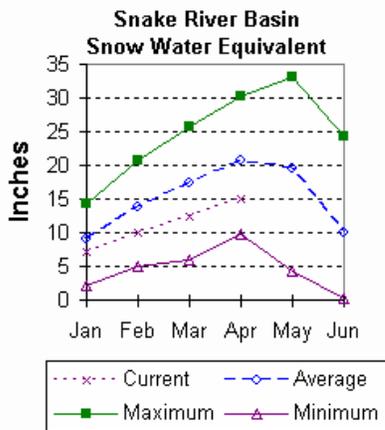
SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
OWL CREEK SNOTEL	8980	4/01/05	17	4.2	3.5	5.6
PARKERS PEAK SNOTEL	9400	4/01/05	51	15.1	16.0	21.9
PHILLIPS BENCH SNTL	8200	4/01/05	72	22.6	23.6	29.2
POCKET CREEK	9350	3/28/05	55	13.1	10.6	13.2
POLE MOUNTAIN	8700	4/31/05	36	9.0	3.9	8.4
POWDER RVR. PASS SNTL	9480	4/01/05	41	10.7	8.4	10.9
PURGATORY GULCH	8970	4/28/05	38	10.5	10.5	11.8
RANGER CREEK	8120	3/27/05	27	6.1	6.1	8.9
RENO HILL SNOTEL	8500	4/01/05	44	10.2	11.2	14.3
REUTER CANYON	6280	3/28/05	0	0	0	8.6
ROWDY CREEK	8300	3/29/05	56	15.4	16.9	21.6
RYAN PARK	8400	4/29/05	35	9.3	3.8	10.8
SAGE CK BASIN SNTL	7850	4/01/05	46	15.3	6.9	11.6
SALT RIVER SNOTEL	7600	4/01/05	---	13.5	11.3	14.6
SAND LAKE SNOTEL	10050	4/01/05	80	22.4	20.7	32.7
SANDSTONE RS SNOTEL	8150	4/01/05	48	14.0	9.2	14.8
SAWMILL DIVIDE	9260	3/27/05	43	10.1	7.3	13.0
SHELL CREEK SNOTEL	9580	4/01/05	57	13.8	13.4	14.9
SHERIDAN R.S.	7750	3/28/05	16	3.5	2.8	5.8
SNAKE RIVER STATION	6920	3/31/05	41	11.8	16.3	20.9
SNAKE RV STA SNOTEL	6920	4/01/05	40	11.8	15.6	19.2
SNIDER BASIN SNOTEL	8060	4/01/05	49	13.8	11.2	14.7
SOLDIER PARK	8780	3/27/05	21	3.2	3.6	5.9
SOUR DOUGH	8460	3/27/05	29	4.5	4.3	7.1
SOUTH BRUSH SNOTEL	8440	4/01/05	42	12.1	6.4	13.2
SOUTH PASS SNOTEL	9040	4/01/05	66	19.6	15.0	16.7
SPRING CRK. SNOTEL	9000	4/01/05	80	24.2	21.2	26.9
ST LAWRENCE ALT SNTL	8620	4/01/05	26	7.0	3.7	7.4
SUCKER CREEK SNOTEL	8880	4/01/05	42	11.4	10.6	11.8
SYLVAN LAKE SNOTEL	8420	4/01/05	54	14.8	14.3	22.8
SYLVAN ROAD SNOTEL	7120	4/01/05	34	9.1	7.9	12.9
T CROSS RANCH	7900	3/30/05	12	2.6	---	7.2
TETON PASS W.S.	7740	4/01/05	64	20.9	21.4	27.6
THUMB DIVIDE SNOTEL	7980	4/01/05	50	13.8	14.5	19.2
THUMB DIVIDE	7980	3/30/05	48	11.8	13.6	19.1
TIE CREEK SNOTEL	6870	4/01/05	7	2.4	4.8	6.1
TIMBER CREEK SNOTEL	7950	4/01/05	9	2.7	3.1	5.8
TOGWOTEE PASS SNOTEL	9580	4/01/05	63	16.5	18.1	25.2
TOWNSEND CRK SNOTEL	8700	4/01/05	42	10.0	8.7	8.8
TRIPLE PEAK SNOTEL	8500	4/01/05	---	20.0	17.3	25.2
TURPIN MEADOWS	6900	3/29/05	18	4.9	6.2	10.2
TWO OCEAN SNOTEL	9240	4/01/05	---	22.9	24.6	28.4
TYRELL RANGER STA.	8300	3/26/05	24	4.4	3.2	7.6
UPPER SPEARFISH	6500	3/29/05	7	2.5	4.6	6.7
WEBBER SPRING SNOTEL	9250	4/01/05	69	23.6	18.7	26.4
WHISKEY PARK SNOTEL	8950	4/01/05	72	27.2	23.3	30.4
WILLOW CREEK SNOTEL	8450	4/01/05	---	26.9	23.3	30.6
WINDY PEAK SNOTEL	7900	4/01/05	---	6.6	3.4	8.1
WOLVERINE SNOTEL	7650	4/01/05	24	7.6	2.1	11.6
WOOD ROCK G.S.	8440	3/27/05	33	6.3	5.0	10.2
YOUNTS PEAK SNOTEL	8350	4/01/05	39	10.2	8.2	17.3

(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 66% of average (81% of last year at this time). Pacific Creek Basin SWE is 71% of average (92% of last year). Gros Ventre River Basin SWE is 66% of average (93% of last year). SWE in the Hoback River drainage is 73% of average (101% of last year). SWE in the Greys River drainage is 81% of average (108% of last year). In the Salt River area SWE is 88% of average (120% of last year). SWE in the Snake River Basin above Palisades is 72% of average (94% of last year). See the Basin Summary of Snow Courses at the beginning of this report for a detailed listing of snow course information.

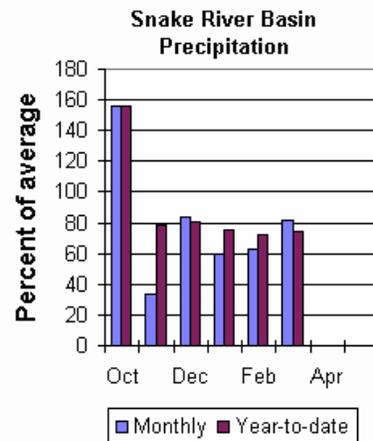


Precipitation

Precipitation across the basin was below average last month. Monthly precipitation for the basin was 82% of average (209% of last year). Last month's percentages range from 49-130% of average. Water-year-to-date precipitation is 74% of average for the Snake River Basin (92% of last year). Year-to-date percentages range from 62-91% of average.

Reservoir

Currently, usable reservoir storage, compared to normal for the three storage reservoirs in the basin, is below average at 61%. Grassy Lake storage is about 73% of average (9,000 ac-ft compared to 10,000 last year). Jackson Lake storage is 32% of average (154,800 ac-ft compared to 185,300 ac-ft last year). Palisades Reservoir storage is about 75% of average (710,000 ac-ft compared to 608,000 ac-ft last year). Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



Streamflow

The most probable, a 50% chance, April through September runoff yield forecast is below average for the basin. The Snake near Moran is expected to yield 550,000 ac-ft (61% of average). Snake above reservoir near Alpine is estimated to yield about 1,670,000 ac-ft (61% of average). The Snake near Irwin is expected to yield about 2,400,000 ac-ft (62% of average). The Snake near Heise is expected to yield 2,550,000 ac-ft (61% of average). Pacific Creek at Moran is expected to yield about 104,000 ac-ft (58% of average). Greys River above Palisades Reservoir is estimated to yield 240,000 ac-ft (61% of average). Salt River near Etna is estimated to yield 250,000 ac-ft (60% of average). See the following page for detailed runoff volumes.

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SNAKE RIVER BASIN
Streamflow Forecasts - April 1, 2005

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Forecast Pt Period	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg (1000AF)
	90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)	Chance of Exceeding *	
SNAKE nr Moran (1,2)							
APR-JUL	375	455	495	61	535	615	815
APR-SEP	410	505	550	61	595	690	905
SNAKE ab resv nr Alpine (1,2)							
APR-JUL	1160	1360	1450	61	1540	1740	2370
APR-SEP	1320	1560	1670	61	1780	2020	2730
SNAKE nr Irwin (1,2)							
APR-JUL	1600	1920	2070	62	2220	2540	3330
APR-SEP	1860	2230	2400	62	2570	2940	3870
SNAKE near Heise (2)							
APR-JUL	1780	2020	2180	61	2340	2580	3560
APR-SEP	2080	2360	2550	61	2740	3020	4160
PACIFIC CREEK at Moran							
APR-JUL	71	88	100	59	112	129	171
APR-SEP	74	92	104	58	116	134	178
GREYS above Palisades							
APR-JUL	160	190	210	62	230	260	340
APR-SEP	185	220	240	61	260	295	395
SALT near Etna							
APR-JUL	138	178	205	60	232	272	340
APR-SEP	172	220	250	60	280	330	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

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Reservoir	Usable Capacity	***** Usable Storage *****		
		This Year	Last Year	Average
GRASSY LAKE	15.2	9.0	10.0	12.3
JACKSON LAKE	847.0	154.8	185.3	486.6
PALISADES	1400.0	710.2	608.0	941.5

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SNAKE RIVER BASIN
Watershed Snowpack Analysis - April 1, 2005

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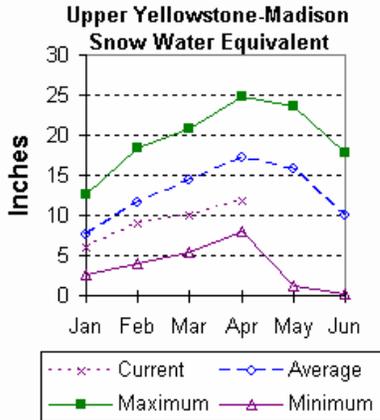
Watershed	Number of Data Sites	This Year as Percent of	
		Last Year	Average
SNAKE above Jackson Lake	9	81	66
PACIFIC CREEK	3	92	71
GROS VENTRE RIVER	3	94	66
HOBACK RIVER	5	101	73
GREYS RIVER	5	108	81
SALT RIVER	5	120	88
SNAKE above Palisades	28	94	72

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Yellowstone and Madison River Basins

Snow

Snowfall in these basins has been mixed this year; however SWE in both basins is below average this month. Snow water equivalent (SWE) is about 75% of average (88% of last year) in the Madison drainage. SWE in the Yellowstone drainage is about 68% of average (101% of last year at this time). See the "Snow Course Basin Summary" at the beginning of this document for more details on specific sites.



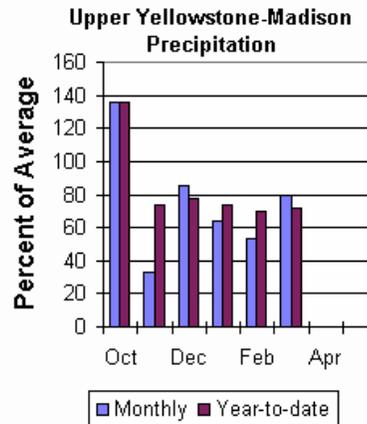
Precipitation

Last month precipitation in the Madison and Yellowstone drainage was about 80% of average (211% of last year) for the 5 reporting stations -- percentage range was from 67-94% of average. Water-year-to-date precipitation is about 72% of average (87% of last year's amount). Year to date percentage ranges from 66-79%.

Reservoir

Ennis Lake is storing about 31,000 ac-ft of water (76% of

capacity, 99% of average or 110% of last year's volume). Hebgen Lake is storing about 290,200 ac-ft of water (77% of capacity, 110% of average or 112% 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 forecasts are the 50% chance runoff for the April through September runoff period. Yellowstone at Lake Outlet is expected to yield about 510,000 ac-ft (63% of average). Yellowstone at Corwin Springs will yield about 1,390,000 ac-ft (71% of average). Yellowstone near Livingston will yield about 1,600,000 ac-ft (70% of average). Hebgen reservoir inflow is estimated to be 400,000 ac-ft (80% of average). See the following page for detailed runoff volumes.

UPPER YELLOWSTONE & MADISON RIVER BASINS
Streamflow Forecasts - April 1, 2005

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg (1000AF)
	90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)	Chance of Exceeding *	
YELLOWSTONE at Lake Outlet							
APR-JUL	285	345	385	65	425	485	590
APR-SEP	385	460	510	63	560	635	805
YELLOWSTONE RIVER at Corwin Springs							
APR-JUL	915	1060	1160	70	1260	1400	1650
APR-SEP	1110	1270	1390	71	1510	1670	1970
YELLOWSTONE RIVER near Livingston							
APR-JUL	1120	1240	1320	70	1400	1520	1900
APR-SEP	1360	1500	1600	70	1700	1840	2280
HEBGEN Reservoir Inflow							
APR-JUL	250	290	315	81	340	380	390
APR-SEP	325	370	400	80	430	475	500

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

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

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (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
Reservoir Storage (1000AF) End of March

Reservoir	Usable Capacity	***** Usable Storage *****		
		This Year	Last Year	Average
ENNIS LAKE	41.0	31.0	28.2	31.2
HEBGEN LAKE	377.5	290.2	258.3	259.6

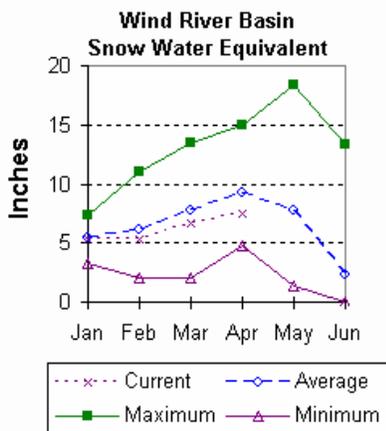
UPPER YELLOWSTONE & MADISON RIVER BASINS
Watershed Snowpack Analysis - April 1, 2005

Watershed	Number of Data Sites	This Year as Percent of	
		Last Year	Average
MADISON RIVER in WY	8	87	75
YELLOWSTONE RIVER in WY	12	101	68

Wind River Basin

Snow

The Wind River Basin has slightly below average snow water equivalent (SWE) for this time of the year. SWE in the Wind River above Dubois is 63% of average (110% of last year at this time). The Little Wind SWE is 94% of average water content (146% of last year), and the Popo Agie drainage SWE is about 109% of average (131% of last year). The Wind River Basin, above Boysen Reservoir SWE is about 83% of average (about 124% of last year). See the Basin Summary of Snow Course Data at the front of this report for details.



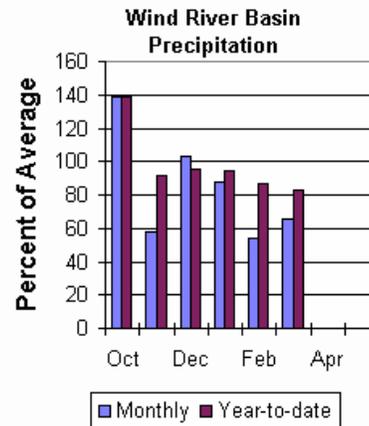
Precipitation

Last months precipitation in the basin varied from 54-81% of average. Precipitation, for the basin, was about 66% of average from the 8 reporting stations; that is about 255% of last year's amount. Water year-to-date precipitation is 83% of average and about 109% of last year at this time. Year-to-date percentages range from 62-111% of average.

Reservoirs

Current storage varies from 69-110% of average. Usable

storage in Bull Lake is currently about 104,800 ac-ft (69% of capacity) - last year the reservoir was at 38% of capacity at this time. Boysen Reservoir is storing about 110% of capacity (653,500 ac-ft) – last year the reservoir was at 64% of capacity at this time. Pilot Butte is at 85% of capacity (26,900 ac-ft) – last year the reservoir was at 75% 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% chance yields for the April through September runoff period. Dinwoody Creek near Burris is estimated to yield 82,000 ac-ft (88% of average). The Wind River above Bull Lake Creek is expected to yield 360,000 ac-ft (67% of average). Bull Lake Creek near Lenore is expected to yield about 167,000 ac-ft (92% of average). Wind River at Riverton will yield about 480,000 ac-ft (75% of average). Little Popo Agie River near Lander is expected to yield about 59,000 ac-ft (111% of average). South Fork of Little Wind near Fort Washakie will yield about 72,000 ac-ft (86% of average). Little Wind River near Riverton will yield about 330,000 ac-ft (105% of average). Boysen Reservoir inflow will yield about 665,000 ac-ft (82% of average). See the following page for detailed runoff volumes.

WIND RIVER BASIN
Streamflow Forecasts - April 1, 2005

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg (1000AF)
	90% (1000AF)	70% (1000AF)	50% (1000AF)	30% (1000AF)	10% (1000AF)	Chance of Exceeding * (% AVG.)	
DINWOODY CREEK nr Burris							
APR-JUL	40	50	57	86	64	74	67
APR-SEP	61	73	82	88	91	103	94
WIND RIVER abv Bull Lake Cr (2)							
APR-JUL	185	245	285	66	325	385	435
APR-SEP	250	315	360	67	405	470	535
BULL LAKE CR near Lenore (2)							
APR-JUL	95	120	136	92	152	177	148
APR-SEP	115	146	167	92	188	217	182
WIND RIVER at Riverton (2)							
APR-JUL	215	330	410	75	490	605	545
APR-SEP	275	395	480	75	565	685	640
LT POPO AGIE RIVER nr Lander							
APR-JUL	35	44	51	111	58	67	46
APR-SEP	42	52	59	111	66	76	53
SF LT WIND nr Fort Washakie							
APR-JUL	40	54	63	86	72	86	73
APR-SEP	46	61	72	86	83	98	84
LT WIND RIVER nr Riverton							
APR-JUL	155	240	295	105	350	435	280
APR-SEP	180	270	330	105	390	480	315
BOYSEN RESERVOIR Inflow (2)							
APR-JUL	330	490	600	84	710	870	717
APR-SEP	370	545	665	82	785	1010	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. 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.

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

Reservoir	Usable Capacity	***** Usable Storage *****		
		This Year	Last Year	Average
BULL LAKE	151.8	104.8	57.4	104.8
BOYSEN	596.0	653.5	382.2	653.5
PILOT BUTTE	31.6	26.9	23.8	21.9

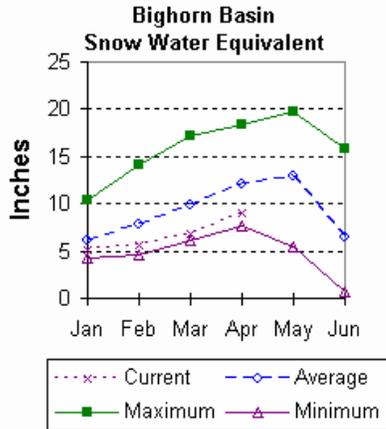
WIND RIVER BASIN
Watershed Snowpack Analysis - April 1, 2005

Watershed	Number of Data Sites	This Year as Percent of	
		Last Year	Average
WIND RIVER above Dubios	7	107	60
LITTLE WIND	2	146	94
POPO AGIE	7	131	109
WIND above Boysen Resv	14	122	81

Bighorn River Basin

Snow

Snowpack in this basin is well below average for this time of year. Nowood drainage SWE is 74% of average (103% of last year). Greybull River SWE is 54% of average (104% of last year). Shell Creek SWE is 82% of average (97% of last year). The Bighorn River Basin SWE, as a whole, is currently 75% of average (100% of last year). For more information see Basin Summary of Snow Courses at beginning of report.



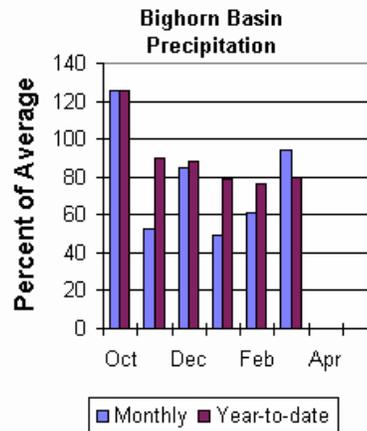
Precipitation

Last month's precipitation was 94% of average (177% of last year). Sites ranged from 58-119% of average for the month. Year-to-date precipitation is 80% of average; that is 100% of last year at this time. Year-to-date percentages, from the 10 reporting stations, range from 47-98%.

Reservoir

Boysen Reservoir is

currently storing 653,500 ac-ft (100% of average). Bighorn Lake is now at 80% of average (647,100 ac-ft). Boysen is currently storing 171% 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% chance April through September runoff is anticipated to be well below average. The Boysen Reservoir inflow is forecast to yield 665,000 ac-ft (82% of average); the Greybull River near Meeteetse should yield 109,000 ac-ft (55% of average); Shell Creek near Shell should yield 66,000 ac-ft (92% of average) and the Bighorn River at Kane should yield 820,000 ac-ft (74% of average). See the following page for detailed runoff volumes.

BIGHORN RIVER BASIN
Streamflow Forecasts - April 1, 2005

Forecast Pt Forecast Period	Future Conditions						30 Yr Avg (1000AF)
	90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)	10% (1000AF)	
BOYSEN RESERVOIR Inflow (2)							
APR-JUL	330	490	600	84	710	870	717
APR-SEP	370	545	665	82	785	1010	809
GREYBULL RIVER nr Meeteetse							
APR-JUL	45	63	75	51	87	105	148
APR-SEP	68	93	109	55	125	150	200
SHELL CREEK nr Shell							
APR-JUL	45	51	55	92	59	65	60
APR-SEP	55	62	66	92	70	77	72
BIGHORN RIVER at Kane (2)							
APR-JUL	560	715	820	82	925	1080	1000
APR-SEP	620	790	910	82	1025	1205	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. 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.

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

Reservoir	Usable Capacity	***** Usable Storage *****		
		This Year	Last Year	Average
BOYSEN	596.0	653.5	382.2	653.5
BIGHORN LAKE	1356.0	647.1	666.3	809.9

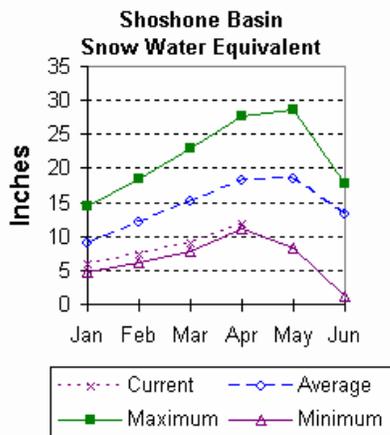
BIGHORN RIVER BASIN
Watershed Snowpack Analysis - April 1, 2005

Watershed	Number of Data Sites	This Year as Percent of	
		Last Year	Average
NOWOOD RIVER	5	103	74
GREYBULL RIVER	2	104	54
SHELL CREEK	4	97	82
BIGHORN (Boysen-Bighorn)	11	100	75

Shoshone and Clarks Fork River Basin

Snow

Snow Water Equivalent (SWE) is 59% of average (94% of last year) in the Shoshone River Basin. The Clarks Fork River Basin SWE is 65% of average (97% of last year). For more information see the Basin Summary of Snow Course Data at the beginning of this report.



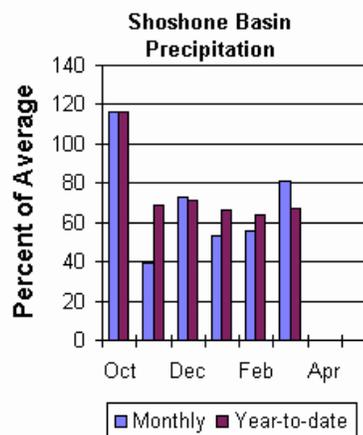
Precipitation

Precipitation for last month was 81% of average (162% of last year). Monthly percentages range from 59-105% of average. The basin year-to-date precipitation is now 67% of average (84% of last year). Year-to-date percentages range from 57-75% of average.

Reservoir

Current storage in Buffalo Bill Reservoir is about 100% of

average (108% of last year's storage) – the reservoir is at about 73% of capacity. Currently, about 475,100 ac-ft are stored in the reservoir compared to 441,800 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 50% yield for the April through September period for the North Fork Shoshone River at Wapiti is expected to be 385,000 ac-ft (74% of average). South Fork of the Shoshone River near Valley is estimated to yield about 154,000 ac-ft (58% of average), and South Fork above Buffalo Bill Reservoir is expected to be 103,000 ac-ft (46% of average). The Buffalo Bill Reservoir inflow is expected to be about 495,000 ac-ft (62% of average). The 50% chance yield for the Clarks Fork of the Yellowstone near Belfry, Montana is expected to be about 385,000 ac-ft (65% of average). See the following page for detailed runoff volumes.

SHOSHONE & CLARKS FORK RIVER BASINS
Streamflow Forecasts - April 1, 2005

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg (1000AF)
	90% (1000AF)	70% (1000AF)	Chance of Exceeding * (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
NF SHOSHONE RIVER at Wapiti							
APR-JUL	290	325	350	76	375	410	460
APR-SEP	320	360	385	74	410	450	520
SF SHOSHONE RIVER nr Valley							
APR-JUL	98	121	136	60	151	174	225
APR-SEP	108	135	154	58	173	200	265
SF SHOSHONE RIVER abv Buffalo Bill							
APR-JUL	28	70	99	46	128	170	215
APR-SEP	26	72	103	46	134	180	225
BUFFALO BILL DAM Inflow (2)							
APR-JUL	320	405	460	64	515	600	720
APR-SEP	345	435	495	62	555	645	805
CLARKS FORK RIVER nr Belfry							
APR-JUL	275	325	360	67	395	445	540
APR-SEP	295	350	385	65	420	475	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. 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
Reservoir Storage (1000AF) End of March

Reservoir	Usable Capacity	***** Usable Storage *****		
		This Year	Last Year	Average
BUFFALO BILL	646.6	475.1	441.8	475.1

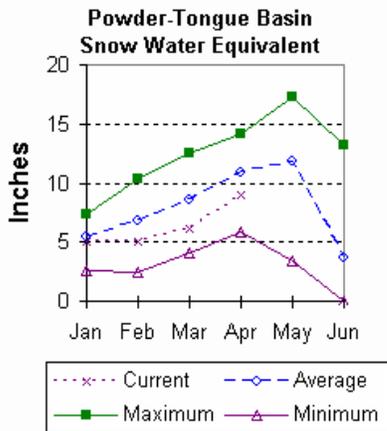
SHOSHONE & CLARKS FORK RIVER BASINS
Watershed Snowpack Analysis - April 1, 2005

Watershed	Number of Data Sites	This Year as Percent of	
		Last Year	Average
SHOSHONE RIVER	7	94	59
CLARKS FORK in WY	7	97	65

Powder and Tongue River Basins

Snow

Snow water equivalent (SWE) in the Upper Tongue River drainage is 78% of average (107% of last year). The Goose Creek drainage SWE is 79% of average (120% of last year). SWE in the Clear Creek drainage is 75% of average (76% of last year). Crazy Woman Creek drainage SWE is 86% of average (119% of last year). Upper Powder River drainage SWE is 78% of average (114% of last year). Powder River basin SWE, in Wyoming, is about 82% of average (116% of last year). For more information see Basin Summary of Snow Courses at beginning of report.



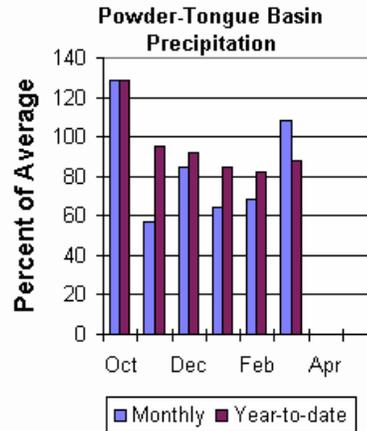
Precipitation

Last month's precipitation was 108% of average for the 9 reporting stations (211% of last year). Monthly percentages range from 64-126% of average. Year-to-date precipitation is 88% of average in the basin; this is 106% of last year at this time. Precipitation for the year ranges from 59-98% of average at the reporting stations.

Reservoir

Tongue River Reservoir is currently at

147% of average (89% of last year and 56% of capacity). Current storage is 44,200 ac-ft. Last year at this time the reservoir was storing about 49,400 ac-ft (average storage is about 30,100 ac-ft 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

The following runoff values are for the 50% probability during the April through September forecast period. The estimated yield for Tongue River near Dayton is 90,000 ac-ft (83% of average). Little Goose Creek near Bighorn is expected to yield about 37,000 ac-ft (88% of average). The Tongue River Inflow is expected to be 200,000 ac-ft (80% of average). Middle Fork of the Powder River near Barnum is estimated to yield 11,200 ac-ft (60% of average). The North Fork of the Powder near Hazelton should yield about 9,800 ac-ft (94% of average). The estimated yield for Clear Creek near Buffalo is 39,000 ac-ft (100% of average). Rock Creek near Buffalo will yield about 21,000 ac-ft (88% of average), and Piney Creek at Kearny should yield about 36,000 ac-ft (69% of average). The Powder River at Moorehead is expected to yield 215,000 ac-ft (81% of average). The Powder River near Locate is expected to yield 265,000 ac-ft (79% of average). See the following page for detailed runoff volumes.

POWDER & TONGUE RIVER BASINS
Streamflow Forecasts - April 1, 2005

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg (1000AF)
	90% (1000AF)	70% (1000AF)	50% (1000AF)	30% (1000AF)	10% (1000AF)	Chance of Exceeding * (% AVG.)	
TONGUE RIVER nr Dayton (2)							
APR-JUL	51	68	79	82	90	107	96
APR-SEP	59	77	90	83	103	121	109
LITTLE GOOSE CREEK nr Big Horn							
APR-JUL	18.0	25	30	88	35	42	34
APR-SEP	24	32	37	88	42	50	42
TONGUE RIVER RESERVOIR Inflow (2)							
APR-JUL	90	138	176	80	216	260	220
APR-SEP	98	110	200	80	240	290	250
MIDDLE FORK POWDER nr Barnum							
APR-JUL	3.5	7.6	10.4	58	13.2	17.3	17.8
APR-SEP	4.1	8.3	11.2	60	14.1	18.3	18.7
NORTH FORK POWDER nr Hazelton							
APR-JUL	6.7	8.1	9.1	95	10.1	11.5	9.6
APR-SEP	7.2	8.7	9.8	94	10.9	12.4	10.4
CLEAR CREEK nr Buffalo							
APR-JUL	26	31	34	100	37	42	34
APR-SEP	30	35	39	100	43	48	39
ROCK CREEK nr Buffalo							
APR-JUL	11.0	15.0	17.7	89	20	24	19.9
APR-SEP	14.2	18.2	21	88	24	28	24
PINEY CREEK at Kearny							
APR-JUL	9.1	24	34	69	44	59	49
APR-SEP	10.3	26	36	69	46	62	52

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

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- (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.

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

Reservoir	Usable Capacity	***** This Year	Usable Storage Last Year	***** Average
TONGUE RIVER	79.1	44.2	49.4	30.1

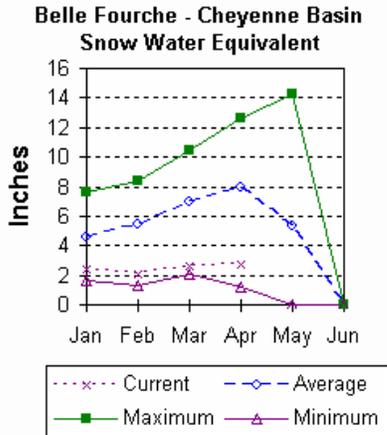
POWDER & TONGUE RIVER BASINS
Watershed Snowpack Analysis - April 1, 2005

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
UPPER TONGUE RIVER	10	107	78
GOOSE CREEK	3	120	79
CLEAR CREEK	4	119	86
CRAZY WOMAN CREEK	3	118	76
UPPER POWDER RIVER	4	114	78
POWDER RIVER in WY	8	116	82

Belle Fourche and Cheyenne River Basins

Snow

The Belle Fourche River Basin is currently at 37% of average. This is 115% of what the Snowpack was last year at this time. See the Basin summary of Snow Course Data at the beginning of this report for a detailed listing.



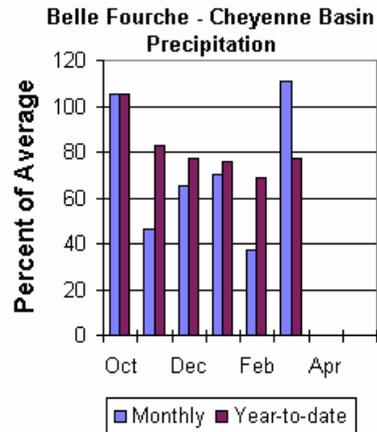
Precipitation

Precipitation for last month was 111% of average in the Black Hills. There were 2 reporting stations. Monthly percentages range from 79-182%. Year-to-date precipitation is 77% of average and 84% of last year's amount.

Reservoir

Current reservoir storage is around 71% of

average in the basin. Angostura is currently storing 53% of average (58,400 ac-ft), about 48% of capacity. Belle Fourche reservoir is storing 65% of average (85,500 ac-ft), about 48% of capacity. Deerfield reservoir is storing 96% of average (13,000 ac-ft), about 86% of capacity. Keyhole reservoir is storing 84% of average (95,200 ac-ft), 49% of capacity. Pactola reservoir is storing 88% of average (41,200 ac-ft), 75% of capacity. Shadehill reservoir is storing 75% of average (47,200 ac-ft), 58% 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 for the 50% probability during the April through July forecast period. The estimated yield for Deerfield Reservoir Inflow 2,800 ac-ft (55% of average). Pactola Reservoir Inflow is expected to yield about 9,600 ac-ft (42% of average). See the following page for detailed runoff volumes.

BELLE FOURCHE & CHEYENNE RIVER BASINS
Streamflow Forecasts - April 1, 2005

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>						
	90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)	
DEERFIELD RESERVOIR Inflow							
APR-JUL	1.6	2.2	2.8	55	3.5	4.7	5.1
PACTOLA RESERVOIR Inflow							
APR-JUL	4.4	6.9	9.6	42	13.3	21	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.

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

Reservoir	Usable Capacity	***** Usable Storage *****		
		This Year	Last Year	Average
ANGOSTURA	122.1	58.4	87.7	110.1
BELLE FOURCHE	178.4	85.5	117.6	130.9
DEERFIELD	15.2	13.0	15.2	13.5
KEYHOLE	193.8	95.2	114.7	113.5
PACTOLA	55.0	41.2	48.6	46.8
SHADEHILL	81.4	47.2	67.7	63.1

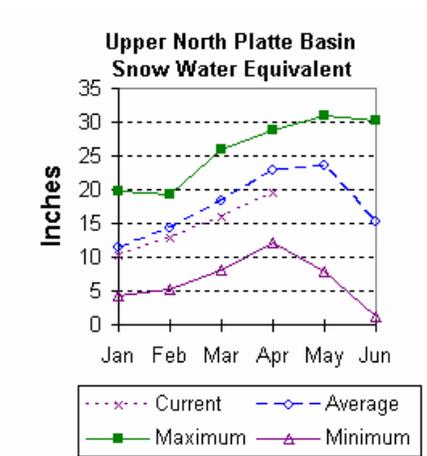
BELLE FOURCHE & CHEYENNE RIVER BASINS
Watershed Snowpack Analysis - April 1, 2005

Watershed	Number of Data Sites	This Year as Percent of	
		Last Year	Average
BELLE FOURCHE	8	107	34

Upper North Platte River Basin

Snow

The snow courses above Seminoe Reservoir have about 85% of average snow water equivalent (SWE) recorded for this time of the year (124% of last year). SWE in the drainage area above Northgate is about 85% of average and 126% of last year at this time. SWE in the Encampment River drainage is about 93% of average and 118% of last year. Brush Creek SWE for the year is about 81% of average and 137% of last year's SWE. Medicine Bow and Rock Creek drainage SWE is about 70% of average and 118% of last year at this time. For more information see Basin Summary of Snow Courses at the beginning of this report.



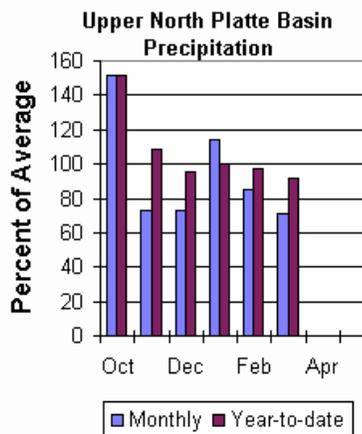
Precipitation

Eight reporting stations indicate last month's precipitation was 71% of average and 136% of last year's amount. Precipitation varied from 55-104% of average last month. Total water-year-to-date precipitation is about 92% of average for the basin, which is about 112% of last year's amount. Year to date percentage ranges from 72-106% of average.

Reservoirs

Seminoe Reservoir is estimated to be

storing 274,500 ac-ft or 27% of capacity. Seminoe Reservoir is also storing about 55% of average for this time of the year and 105% 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

All the following yields are based on the 50% chance April through September yield. Yield for the North Platte River near Northgate is expected to be about 173,000 ac-ft (64% of average). Encampment River near Encampment is estimated to yield 162,000 ac-ft (98% of average). Rock Creek near Arlington is estimated to yield 41,000 ac-ft (72% of average). Sweetwater River near Alcova is estimated to yield 86,000 ac-ft (108% of average). Seminoe Reservoir inflow should be about 645,000 ac-ft (75% of average). See the following table for more detailed information on projected runoff.

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UPPER NORTH PLATTE RIVER BASIN
Streamflow Forecasts - April 1, 2005

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Forecast Pt Forecast	<=== Drier === Future Conditions === Wetter ===>					30 Yr Avg
	90%	70%	50%	30%	10%	
Period	(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)
NORTH PLATTE RIVER nr Northgate						
APR-JUL	89	126	154	63	185	245
APR-SEP	75	133	173	64	213	270
ENCAMPMENT RIVER nr Encampment						
APR-JUL	118	139	153	98	167	156
APR-SEP	124	147	162	98	177	165
ROCK CREEK nr Arlington						
APR-JUL	27	33	38	72	43	53
APR-SEP	30	36	41	72	46	57
SWEETWATER RIVER nr Alcova						
APR-JUL	41	64	80	108	96	74
APR-SEP	45	69	86	108	103	80
SEMINOE RESERVOIR Inflow						
APR-JUL	335	490	595	74	700	800
APR-SEP	395	545	645	75	745	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. 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

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Reservoir	Usable Capacity	***** Usable Storage *****		
		This Year	Last Year	Average
SEMINOE	1016.7	274.5	261.5	495.9

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UPPER NORTH PLATTE RIVER BASIN
Watershed Snowpack Analysis - April 1, 2005

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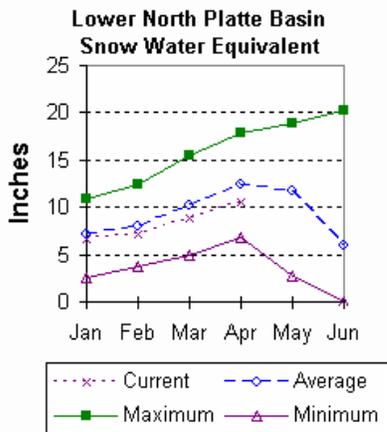
Watershed	Number of Data Sites	This Year as Percent of	
		Last Year	Average
N PLATTE above Northgate	7	126	85
ENCAMPMENT RIVER	4	118	93
BRUSH CREEK	5	137	81
MEDICINE BOW & ROCK CREEKS	3	118	70
N PLATTE above Seminoe	19	124	85

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Lower North Platte River Basin

Snow

SWE for the North Platte River Basin above Seminoe is at 85% of average (124% of last year). The Sweetwater drainage SWE is currently at 113% of average (139% of last year). Deer and LaPrele Creek SWE is 69% of average (105% of last year). SWE for the North Platte above the Laramie River drainage is 87% of average (125% of last year). SWE for the Laramie River above Laramie is 87% of average (156% of last year). SWE for the Little Laramie River is 81% of average (139% of last year). The Laramie River above mouth, SWE is 84% of average (152% of last year). For more information see Basin Summary of Snow Courses at beginning of report.



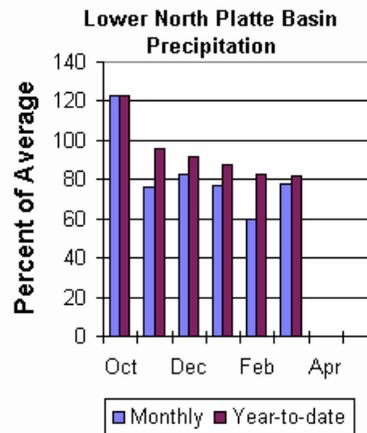
Precipitation

Last month's precipitation was 78% of average and 200% of last year's amount. Of the 7 reporting stations, percentages for the month range from 61-114%. The water year-to-date precipitation for the basin is currently 82% of average (114% of last year). Year-to-date percentages range from 72-115%.

Reservoir

The Lower North Platte River basin

reservoir storage is well below average, except for Alcova and Guernsey reservoirs. Reservoir storage is as follows: Alcova 156,100 ac-ft (98% of average); Glendo 339,900 ac-ft (79% of average); Guernsey 21,100 ac-ft (102% of average); Pathfinder 247,100 ac-ft (33% of average); Seminoe 274,500 ac-ft (55% of average); and Wheatland #2 34,000 ac-ft (63% of average).



Streamflow

The following yields are based on the 50% chance probability runoff for the April through September forecast period. The Sweetwater near Alcova is forecast to yield about 86,000 ac-ft (108% of average). Deer Creek at Glenrock is expected to yield about 17,200 ac-ft (42% of average). LaPrele Creek above the reservoir is estimated to yield 9,000 ac-ft (38% of average). North Platte River below Guernsey Reservoir is expected to yield about 765,000 ac-ft (76% of average), and below Glendo Reservoir is anticipated to yield about 740,000 ac-ft (75% of average). Laramie River near Woods Landing should yield about 103,000 ac-ft (76% of average). The Little Laramie near Filmore should produce about 39,000 ac-ft (61% of average). See the following table for more detailed information on projected runoff.

LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS

Streamflow Forecasts - April 1, 2005

Forecast Pt Forecast Period	Future Conditions						30 Yr Avg (1000AF)
	90% (1000AF)	70% (1000AF)	50% (1000AF)	30% (1000AF)	10% (1000AF)	Chance of Exceeding * (% AVG.)	
SWEETWATER RIVER nr Alcova							
APR-JUL	41	64	80	108	96	119	74
APR-SEP	45	69	86	108	103	127	80
DEER CREEK at Glenrock							
APR-JUL	4.3	11.7	16.7	45	22	29	38
APR-SEP	4.5	12.1	17.2	42	22	30	41
LaPRELE CREEK abv Reservoir							
APR-JUL	0.2	3.1	8.9	37	14.7	23	24
APR-SEP	0.2	3.2	9.0	38	14.8	23	24
NORTH PLATTE - Alcova to Orin Gain							
APR-JUL	8.0	24	56	37	88	134	152
APR-SEP	8.0	28	60	37	92	139	161
NORTH PLATTE RIVER blw Glendo Res							
APR-JUL	450	610	715	75	820	975	960
APR-SEP	460	630	740	75	850	1020	990
NORTH PLATTE RIVER blw Guernsey Res							
APR-JUL	395	590	725	75	860	1050	970
APR-SEP	425	625	765	76	905	1105	1010
LARAMIE RIVER nr Woods							
APR-JUL	37	71	94	76	117	151	123
APR-SEP	40	77	103	76	129	166	135
LITTLE LARAMIE RIVER nr Filmore							
APR-JUL	22	31	37	63	43	52	59
APR-SEP	22	32	39	61	46	56	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

Reservoir	Usable Capacity	***** This Year	***** Usable Storage Last Year	***** Average
ALCOVA	184.3	156.1	156.5	160.1
GLEND0	506.4	339.9	293.5	427.8
GUERNSEY	45.6	21.1	20.1	20.6
PATHFINDER	1016.5	247.1	306.9	743.7
SEMINOE	1016.7	274.5	261.5	495.9
WHEATLAND #2	98.9	34.0	27.4	54.3

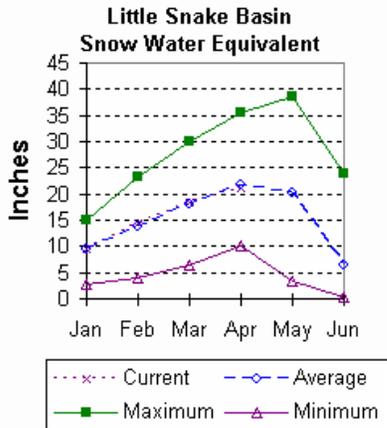
LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS
 Watershed Snowpack Analysis - April 1, 2005

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SWEETWATER	4	139	113
DEER & LaPRELE CREEKS	3	105	69
N PLATTE abv Laramie R.	26	125	87
LARAMIE RIVER abv Laramie	11	156	87
LITTLE LARAMIE RIVER	5	139	81
LARAMIE RIVER above mouth	14	152	84
NORTH PLATTE	33	129	85

Little Snake River Basin

Snow

Currently, snow water equivalent (SWE) in the Little Snake River drainage is 98% of average (130% of last year at this time). For more information see Basin Summary of Snow Courses at beginning of this report.

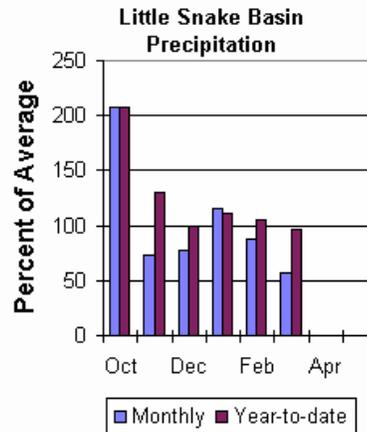


Runoff yield in the Little Snake River drainage is expected to be just below average this year. Stream yield is based on the 50% probability for the April through July forecast period. The Little Snake River near Slater should yield about 145,000 ac-ft (91% of average). Little Snake River near Dixon is estimated to yield 300,000 ac-ft (91% of average). See the following table for more detailed information on projected runoff.

Precipitation

Precipitation across the basin was well below average this past month. Last Month's precipitation was 57% of average (117% of last year) for the 5 reporting stations. Last month's precipitation ranged from 48-72% of average. The Little Snake River basin water-year-to-date precipitation is currently 96% of average (110% of last year). Year-to-date percentages range from 87-106% of average.

Streamflow



LITTLE SNAKE RIVER BASIN
Streamflow Forecasts - April 1, 2005

Forecast Pt Period	<=== Drier === Future Conditions === Wetter ===>					
	90% (1000AF)	70% (1000AF)	50% (1000AF)	30% (% AVG.)	10% (1000AF)	30 Yr Avg (1000AF)
Little Snake River nr Slater						
APR-JUL	101	126	145	91	165	197
LITTLE SNAKE R nr Dixon						
APR-JUL	190	255	300	91	345	410

* 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.

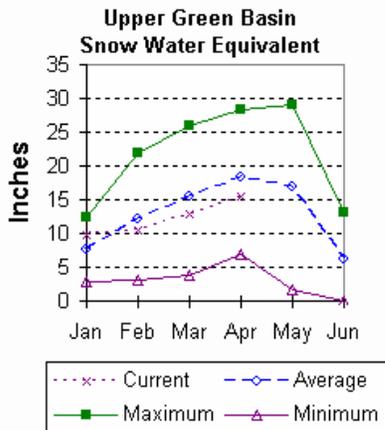
LITTLE SNAKE RIVER BASIN
Watershed Snowpack Analysis - April 1, 2005

Watershed	Number of Data Sites	This Year as Percent of Last Year	Percent of Average
LITTLE SNAKE RIVER	8	130	98

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 76% of average (107% of last year). SWE on the west side of the Upper Green River Basin is about 85% of average (114% of last year). Newfork River Basin SWE is now about 96% of average (120% of last year). Big Sandy-Eden Valley Basin SWE is about 101% of average (130% of last year). SWE in the Green River Basin above Fontenelle Reservoir is about 85% of average (113% of last year). For more information see the Basin Summary of Snow Courses at the beginning of this report.



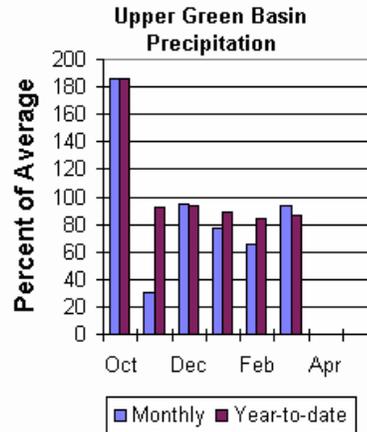
Precipitation

The 11 reporting precipitation sites in the basin were 94% of average last month (232% of last year). Last month's precipitation varied from 61-150% of average. Water year-to-date precipitation is about 86% of average (107% of last year). Year to date percentage of average ranges from 71-109% for the reporting stations.

Reservoir

Storage in Big Sandy Reservoir is 28,000 ac-ft

or 73% of capacity. This is 135% of average. Eden Reservoir is currently storing 2,700 ac-ft or 23% of capacity. This is 64% of average. Fontenelle Reservoir did not report this month. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



Streamflow

The 50% chance April through July runoff in the Upper Green River basin is forecast slightly below average. Green River at Warren Bridge is expected to yield about 220,000 ac-ft (83% of average). Pine Creek above Fremont Lake is expected to yield 95,000 ac-ft (91% of average). New Fork River near Big Piney is expected to yield about 345,000 ac-ft (87% of average). Fontenelle Reservoir Inflow is estimated to be 730,000 ac-ft (85% of average), and Big Sandy near Farson is expected to be about 60,000 ac-ft (103% of average). See the following table for more detailed information on projected runoff.

UPPER GREEN RIVER BASIN
Streamflow Forecasts - April 1, 2005

Forecast Pt Period	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg (1000AF)
	90% (1000AF)	70% (1000AF)	Chance of Exceeding * (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
Green River at Warren Bridge APR-JUL	177	203	220	83	235	265	265
Pine Creek abv Fremont Lake APR-JUL	80	89	95	91	101	110	104
New Fork River nr Big Piney APR-JUL	240	300	345	87	390	450	395
Fontenelle Reservoir Inflow APR-JUL	581	668	730	85	795	896	860
Big Sandy River nr Farson APR-JUL	43	53	60	103	67	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. 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 GREEN RIVER BASIN
Reservoir Storage (1000AF) End of March

Reservoir	Usable Capacity	***** Usable Storage *****		
		This Year	Last Year	Average
BIG SANDY	38.3	28.0	7.4	20.7
EDEN	11.8	2.7	----	4.2
FONTENELLE	344.8	137.7	166.8	143.0

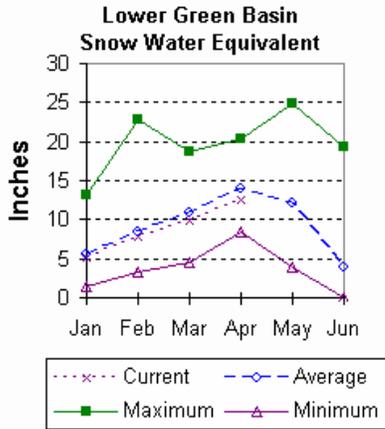
UPPER GREEN RIVER BASIN
Watershed Snowpack Analysis - April 1, 2005

Watershed	Number of Data Sites	This Year as Percent of	
		Last Year	Average
GREEN above Warren Bridge	4	105	76
UPPER GREEN (West Side)	7	114	85
NEWFORK RIVER	3	120	96
BIG SANDY/EDEN VALLEY	2	130	101
GREEN above Fontenelle	14	113	85

Lower Green River Basin

Snow

SWE in the Hams Fork Basin is 101% of average (140% of last year). Blacks Fork Basin SWE is currently 97% of average (150% of last year). The Henrys Fork drainage SWE is currently 101% of average (275% of last year). SWE in the Green River Basin above Flaming Gorge is 90% of average (129% of last year). For more information see Basin Summary of Snow Courses at beginning of this report.



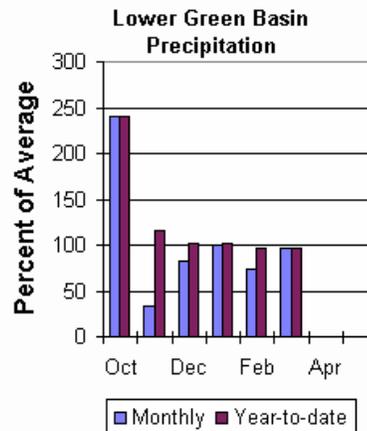
Precipitation

Precipitation was above average for the 3 reporting stations during last month (97% of average). Precipitation ranged from 89-107% of average for the month. The basin year-to-date precipitation is currently 96% of average (134% of last year). Year-to-date percentages range from 93-105%.

Reservoir

Fontenelle Reservoir is

currently storing 137,700 ac-ft; this is 96% of average (83% of last year). Flaming Gorge is currently storing 2,853,000 ac-ft; this is 98% of average (108% of last year). Viva Naughton is storing 32,800 ac-ft or 76% of capacity: this is 98% of average (108% of last year).



Streamflow

Expected yields vary from 86-111% of average across the basin. The following forecast values are based on a 50% chance probability for the April through July forecast period. The Green River near Green River is forecast to yield about 750,000 ac-ft (86% of average). The Blacks Fork near Robertson is forecast to yield 105,000 ac-ft (111% of average). East Fork of Smiths Fork near Robertson is estimated to yield 32,000 ac-ft (103% of average). The estimated yield for Hams Fork near Frontier is 64,000 ac-ft (99% of average). The Hams Fork Inflow to Viva Naughton Reservoir is estimated to yield 86,000 ac-ft (97% of average). The Flaming Gorge Reservoir inflow will be about 1,050,000 ac-ft (88% of average). See the following table for more detailed information on projected runoff.

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LOWER GREEN RIVER BASIN
Streamflow Forecasts - April 1, 2005

=====

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg (1000AF)
	90% (1000AF)	70% (1000AF)	50% (1000AF)	30% (1000AF)	10% (1000AF)	Chance of Exceeding * (% AVG.)	
Green River nr Green River, WY							
APR-JUL	535	665	750	86	835	965	875
Blacks Fork nr Robertson							
APR-JUL	82	96	105	111	114	128	95
EF of Smiths Fork nr Robertson							
APR-JUL	25	29	32	103	35	40	31
Hams Fk blw Pole Ck nr Frontier							
APR-JUL	46	56	64	99	72	85	65
Hams Fk Inflow to Viva Naughton Res							
APR-JUL	60	75	86	97	97	112	89
Flaming Gorge Reservoir Inflow							
APR-JUL	750	930	1050	88	1170	1350	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. 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

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Reservoir	Usable	***** Usable Storage *****		*****
	Capacity	This Year	Last Year	Average
FONTENELLE	344.8	137.7	166.8	143.0
FLAMING GORGE	3749.0	2853.0	2631.0	2920.0
VIVA NAUGHTON RES	42.4	32.3	31.1	27.8

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LOWER GREEN RIVER BASIN
Watershed Snowpack Analysis - April 1, 2005

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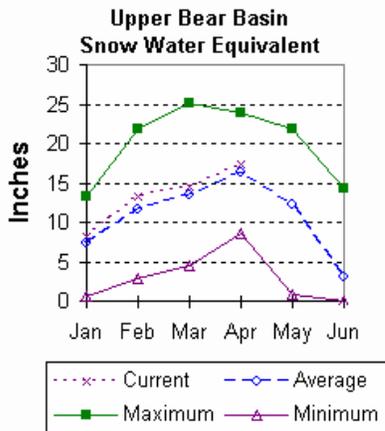
Watershed	Number of Data Sites	This Year as Percent of Last Year	Percent of Average
HAMS FORK RIVER	4	140	101
BLACKS FORK	5	150	97
HENRYS FORK	3	275	101
GREEN above Flaming Gorge	26	129	90

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Upper Bear River Basin

Snow

Snow water equivalent (SWE) in the upper Bear River Basin in Utah is estimated to be 115% of average; that is about 216% of last year at this time. SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is estimated at 99% of average (130% of last year). Bear River Basin SWE, above the Idaho State line, is 106% of average (161% of last year). See the Basin Summary of Snow Course Data at the beginning of this report for more detailed information.



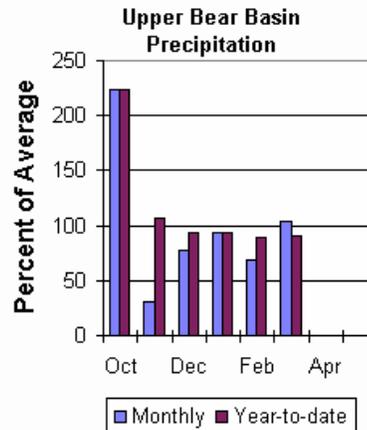
Precipitation

Precipitation for last month was 104% of average for the 2 reporting stations; this is 234% of the precipitation received last year. The year-to-date precipitation, for the basin, is 91% of average; this is 125% of last year's amount.

Reservoir

Usable storage, in Woodruff Narrows reservoir, is

about 27,500 ac-ft (84% of average). Current reservoir storage is about 48% of capacity. Reservoir storage last year at this time was 19,000 ac-ft at this time.



Streamflow

The following 50% chance stream flow yields are for the April through September period. The Bear River above the Utah-Wyoming State Line is expected to yield about 144,000 ac-ft (115% of average). The Bear River above Reservoir near Woodruff is estimated to yield 169,000 ac-ft (119% of average). The Smiths Fork River near Border is estimated to yield 105,000 ac-ft (87% of average). See the following table for more detailed information on projected runoff.

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UPPER BEAR RIVER BASIN
Streamflow Forecasts - April 1, 2005

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Forecast Pt Period	<=== Drier === Future Conditions === Wetter ===>						30 Yr Avg (1000AF)
	90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)	30% (1000AF)	10% (1000AF)	Chance of Exceeding *	
Bear River nr UT-WY State Line							
APR-JUL	107	121	130	115	139	153	113
APR-SEP	117	133	144	115	155	171	125
Bear River ab Reservoir nr Woodruff							
APR-JUL	120	145	162	119	179	204	136
APR-SEP	126	152	169	119	186	212	142
Smiths Fork nr Border							
APR-JUL	72	83	91	88	99	110	103
APR-SEP	83	96	105	87	114	127	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.

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UPPER BEAR RIVER BASIN
Reservoir Storage (1000AF) End of March

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Reservoir	Usable Capacity	***** Usable Storage *****		
		This Year	Last Year	Average
WOODRUFF NARROWS	57.3	27.5	19.0	32.7

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UPPER BEAR RIVER BASIN
Watershed Snowpack Analysis - April 1, 2005

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Watershed	Number of Data Sites	This Year as Percent of	
		Last Year	Average
UPPER BEAR RIVER in Utah	7	216	115
SMITHS & THOMAS FORKS	4	130	99
BEAR RIVER abv ID line	9	161	106
SUMMARY			
NORTHWEST BASINS	76	98	72
NORTHEAST BASINS	23	112	72
SOUTHEAST BASINS	36	130	87
SOUTHWEST BASINS	35	137	95

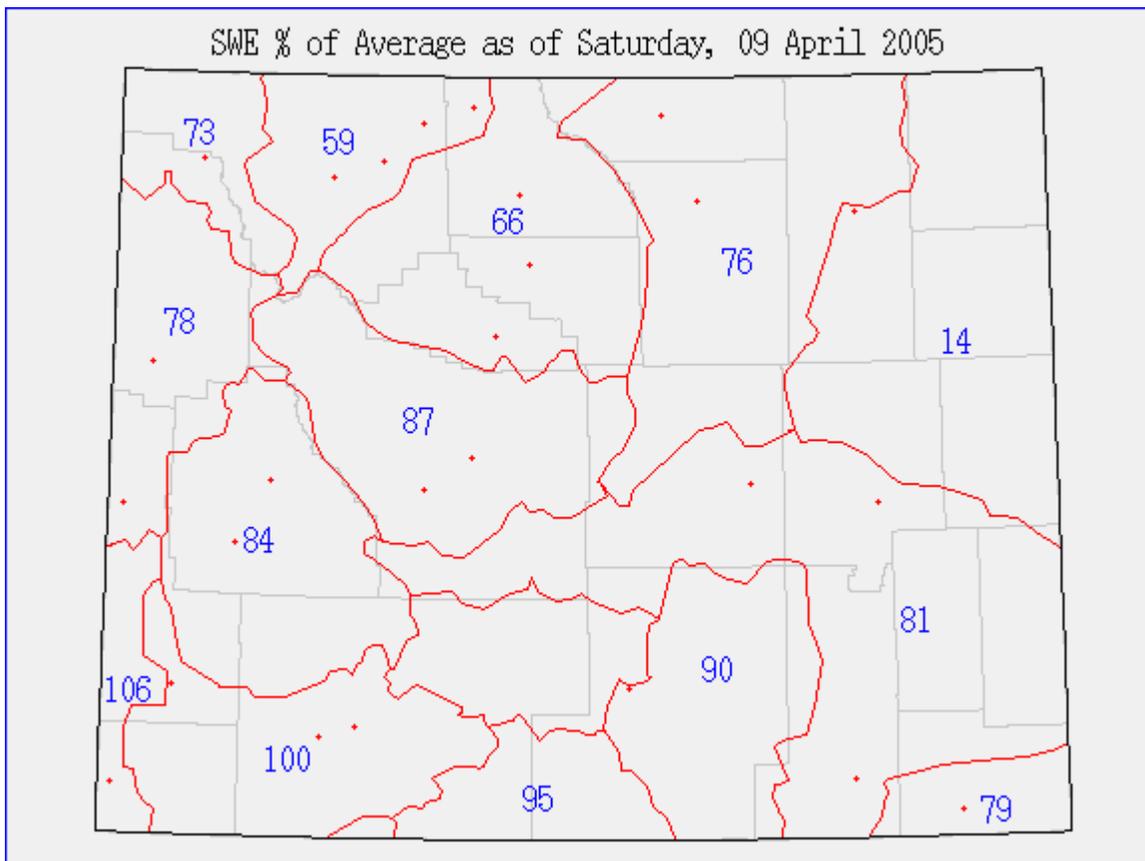
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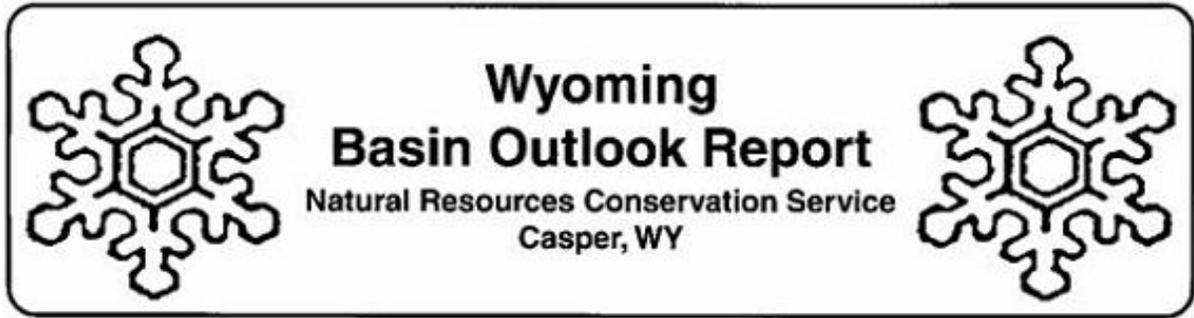
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