



United States
Department of
Agriculture

Wyoming Basin Outlook Report

Feb. 1, 2017

Natural Resources Conservation Service



Little Goose SNOTEL #1131 ID 07E40S established 8/04/2010
(In the Bighorn Forest 23 miles above Big Horn, WY)

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. 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 above, and a 50% chance that the actual flow will be below, this 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. 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 operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

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Wyoming Water Supply Outlook Report

General

The snow water equivalent (SWE) across Wyoming is above the median on Feb. 1st at 123%. The year-to-date precipitation average for Wyoming basins is now at 126% varying from 74-178% of average. Monthly precipitation for the basins varied from 83-249% of average for an overall average of 156%. Basin reservoir levels for Wyoming vary from 0-188% of average for an overall average of 124%. Forecasted runoff varies from 91-180% of average across the Wyoming basins for an overall average of 139%.

Snowpack

Snow water equivalent (SWE), across Wyoming is above median for Feb. 1st at 123%. SWE in the Powder River Basin of Wyoming was the lowest at 89%. While SWE in the Sweetwater River Basin is the highest at 195% of median? *See Appendix A for further information.*

Precipitation

Last month's precipitation was above average across the Wyoming Mountains at 156% of average. Year to date precipitation is at 126% of average. The Upper Bear River Basin had the highest precipitation for the month at 249% of average. The Tongue River Basin had the lowest precipitation amount at 83% of average. The following table displays the major river basins and their departure from average for last month.

Basin	Departure from average	Basin	Departure from average
Snake River	+35%	Upper North Platte River	+107%
Madison-Gallatin	-03%	Sweetwater River	+142%
Yellowstone River	+13%	Lower North Platte River	+34%
Wind River	+91%	Laramie River	+101%
Bighorn River	+07%	South Platte River	+106%
Shoshone River	+41%	Little Snake River	+94%
Powder River	-09%	Upper Green River	+84%
Tongue River	-17%	Lower Green River	+141%
Belle Fourche River	+22%	Upper Bear River	+149%
Cheyenne River	-14%		

See Appendix B for further information.

Streams

Stream flow yields for June thru September are forecast to be above average statewide over Wyoming at 139%. The Snake River, Madison, and Upper Yellowstone River Basins should yield about 144%, 99% and 107% of average, respectively. Yields from the Wind and Bighorn River Basins should be about 156% and 157% of average, respectively. Yields from the Shoshone and Clarks Fork River Basins of Wyoming should be about 148% and 126% of average, respectively. Yields from the Powder & Tongue River Basins should be about 99% and 95% of average, respectively. Yield for the Cheyenne River Basin should be about 91% of average. Yields for the Upper North Platte, Sweetwater, Lower North Platte, and Laramie Rivers of Wyoming should be about 136%, 180%, 166%, and 130% of average, respectively. Yields for the Little Snake, Green River, and Smith's Fork of Wyoming should be 116%, 167%, and 156% of average respectively. *See Appendix C for further information.*

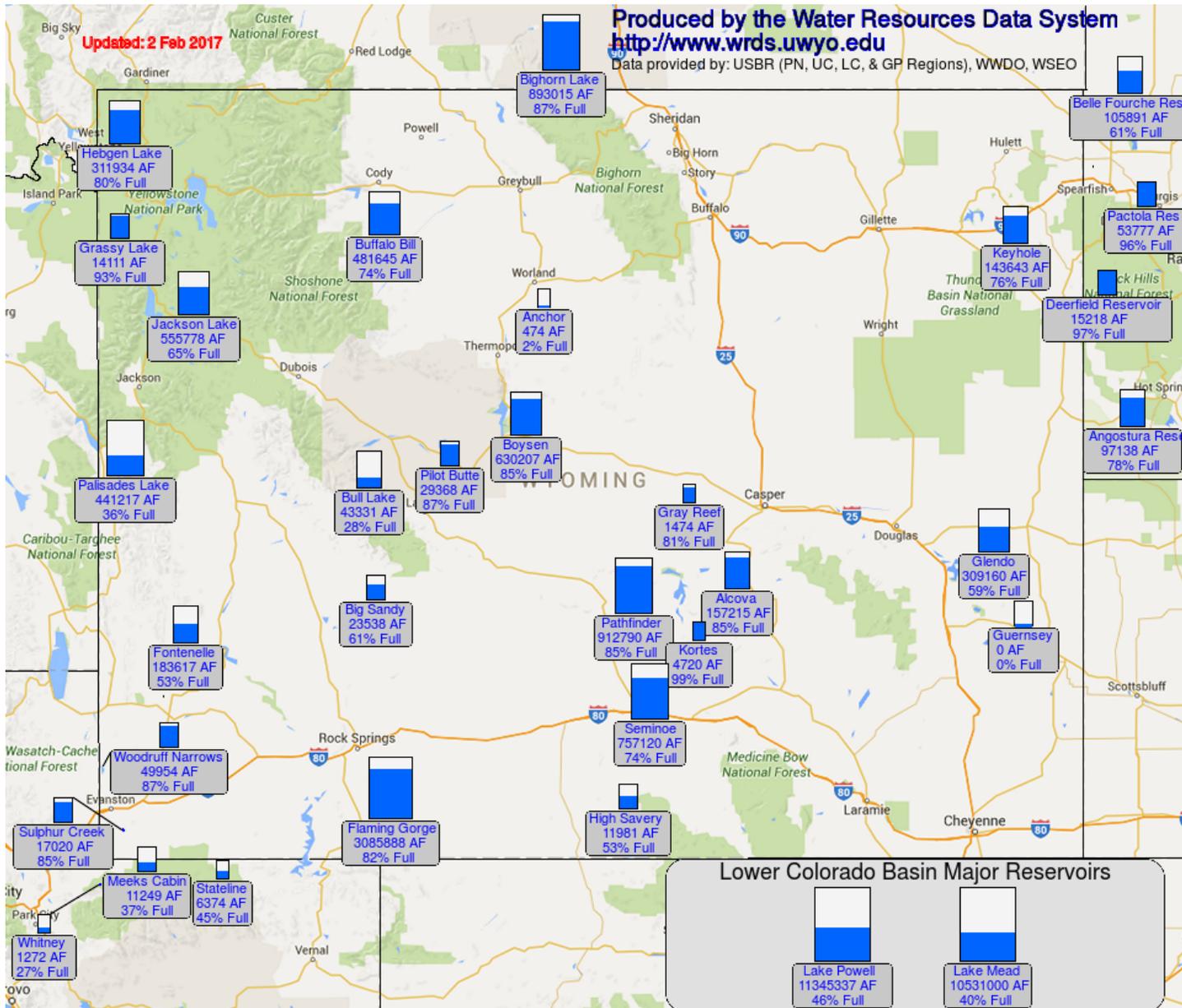
Reservoirs

Reservoir storage is above average at 124% for the entire state. Reservoirs in the Snake River Basin are below average at 89%. Reservoirs in the Madison-Gallatin Basin are above average at 108%. Reservoirs in the Wind River Basin are above average at 109%. Reservoirs on the Big Horn are above average at 110%. The Buffalo Bill Reservoir on the Shoshone is above average at 136%. The Tongue River Basin Reservoir is above average at 188%. Reservoirs in the Belle Fourche and Cheyenne River Basins are above average in storage at 117 & 112% respectively. Reservoirs on the Upper and Lower North Platte River are above average at 145% and 133% respectively. Reservoirs on the Laramie and Little Snake River basins are at 116% and 101% respectively. Reservoirs on the Upper Green River are above average at 124%. Reservoirs on the Lower Green River Basin are above average at 102%. Reservoir on the Upper Bear River Basin is above average at 171%. *See below for further info.*

Wyoming Reservoir Levels for Feb.1st, 2017

WYOMING	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Alcova	157.1	157.3	154.9	184.3	85%	85%	84%	101%	102%
Bighorn Lake	919.1	883.6	871.2	1356.0	68%	65%	64%	105%	101%
Big Sandy	21.2	18.7	16.3	38.3	55%	49%	43%	130%	115%
Boysen	604.6	561.9	521.7	596.0	101%	94%	88%	116%	108%
Buffalo Bill	475.9	424.7	355.5	646.6	74%	66%	55%	134%	119%
Bull Lake	39.8	70.5	75.2	151.8	26%	46%	50%	53%	94%
Fontenelle	202.6	199.0	175.3	344.8	59%	58%	51%	116%	114%
Glendo	258.6	232.8	254.7	506.4	51%	46%	50%	102%	91%
Grassy Lake	13.8	12.8	11.6	15.2	91%	84%	76%	119%	110%
Guernsey	0.0	15.2	9.2	45.6	0%	33%	20%	0%	165%
High Savery Reservoir	11.6	10.8	11.7	22.4	52%	48%	52%	99%	92%
Jackson Lake	533.8	556.0	424.1	847.0	63%	66%	50%	126%	131%
Kendrick Project		940.6		1201.7		78%			
Keyhole	143.3	166.1	87.4	193.8	74%	86%	45%	164%	190%
Meeks Cabin Reservoir	9.8	5.7	9.9	32.5	30%	18%	30%	99%	58%
North Platte Project		705.8		1062.1		66%			
Pathfinder	903.2	818.6	536.1	1016.5	89%	81%	53%	168%	153%
Pilot Butte	25.6	23.8	23.1	31.6	81%	75%	73%	111%	103%
Seminole	762.7	740.1	553.7	1016.7	75%	73%	54%	138%	134%
Viva Naughton Res	31.6	31.5	31.4	42.4	75%	74%	74%	101%	100%
Wheatland #2	44.5	49.4	42.4	98.9	45%	50%	43%	105%	117%
Woodruff Narrows Reservoir	46.4	39.2	27.3	57.3	81%	68%	48%	170%	144%
Basin-wide Total	5205.2	5017.7	4192.7	7244.1	72%	69%	58%	124%	120%
# of reservoirs	20	20	20	20	20	20	20	20	20

Updated: 2 Feb 2017



Snake River Basin

Snow

The Snake River Basin SWE above Palisades is 131% of median (96% last year). SWE in the Snake River Basin above Jackson Lake is 124% of median (99% last year). Pacific Creek Basin SWE is 145% of median (98% last year). Buffalo Fork SWE is 136% of median (87% last year). Gros Ventre River Basin SWE is 126% of median (91% last year). SWE in the Hoback River drainage is 158% of median (89% last year). SWE in the Greys River drainage is 143% of median (99% last year). In the Salt River Basin SWE is 132% of median (92% last year).

See Appendix A at the end of this report for a detailed listing of snow course information.

Precipitation

Last month's precipitation for the Snake River Basin was 135% of average (95% last year). Percentages range from 71-237% of average for the 30 reporting stations. Water-year-to-date precipitation is 152% of average for the Snake River Basin (96% last year). Year-to-date percentages range from 113-213% of average.

Reservoirs

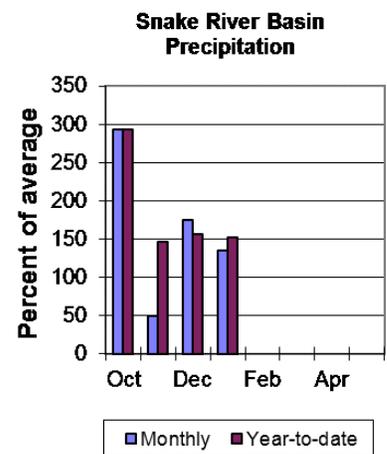
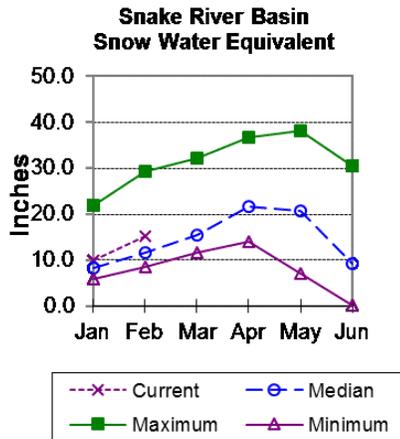
Current reservoir storage is 89% of average for the three storage reservoirs in the basin. Grassy Lake storage is about 118% of average (14,100 ac-ft compared to 13,100 last year). Jackson Lake storage is 129% of

average (555,100 ac-ft compared to 563,600 ac-ft last year). Palisades Reservoir storage is about 70% of average (638,300 ac-ft compared to 793,600 ac-ft last year).

Detailed reservoir data shown on the following page and in Appendix D.

Streamflow

The 50% exceedance forecasts for April through September are above average for this basin. The Snake near Moran yield is 1,040,000 ac-ft (123% of average). Snake River above Reservoir near Alpine will yield about 3,610,000 ac-ft (144% of average). The Snake near Irwin will yield about 4,990,000 ac-ft (143% of average). The Snake near Heise yield will be about 5,380,000 ac-ft (142% of average). Pacific Creek near Moran yield will be around 250,000 ac-ft (145% of average). Buffalo Fork above Lava near Moran yield will be around 430,000 ac-ft (134% of average). Greys River above Palisades Reservoir yield will be around 515,000 ac-ft (143% of average). Salt River near Etna yield will be around 600,000 ac-ft (162% of average). *See the following page for further information.*



Snake River Basin Streamflow Forecasts - February 1, 2017

 Forecast Exceedance Probabilities for Risk Assessment
 Chance that actual volume will exceed forecast

SNAKE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Snake R nr Moran ²	APR-JUL	770	875	950	124%	1020	1120	765
	APR-SEP	845	965	1040	123%	1130	1240	845
Snake R ab Reservoir nr Alpine ²	APR-JUL	2700	2970	3160	146%	3340	3610	2170
	APR-SEP	3080	3400	3610	144%	3830	4140	2500
Snake R nr Irwin ²	APR-JUL	3610	4040	4330	144%	4620	5050	3010
	APR-SEP	4150	4650	4990	143%	5330	5830	3500
Snake R nr Helse ²	APR-JUL	3890	4340	4650	144%	4960	5410	3240
	APR-SEP	4490	5020	5380	142%	5740	6270	3780
Pacific Ck at Moran	APR-JUL	199	225	240	146%	255	280	164
	APR-SEP	210	235	250	145%	270	295	173
Buffalo Fk ab Lava Ck nr Moran	APR-JUL	310	350	380	136%	405	445	280
	APR-SEP	345	395	430	134%	465	510	320
Greys R ab Reservoir nr Alpine	APR-JUL	365	410	445	146%	475	525	305
	APR-SEP	425	480	515	143%	555	610	360
Salt R ab Reservoir nr Etna	APR-JUL	385	455	500	167%	550	620	300
	APR-SEP	465	545	600	162%	655	735	370

1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

3) Median value used in place of average

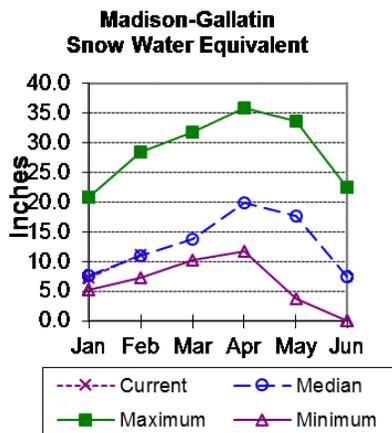
Reservoir Storage End of January, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Grassy Lake	14.1	13.1	11.9	15.2
Jackson Lake	555.1	563.6	431.2	847.0
Palisades Reservoir	638.3	793.6	911.2	1400.0
Basin-wide Total	1207.5	1370.3	1354.3	2262.2
# of reservoirs	3	3	3	3

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
SNAKE above Jackson Lake	9	124%	99%
PACIFIC CREEK	3	145%	98%
BUFFALO FORK	3	136%	87%
GROS VENTRE RIVER	4	126%	91%
HOBACK RIVER	5	158%	89%
GREYS RIVER	5	143%	99%
SALT RIVER	5	132%	92%
SNAKE RIVER BASIN	31	131%	96%

Madison-Gallatin Rivers Basin

Snow

In the Madison-Gallatin drainage, SWE is 102% of median (96% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*



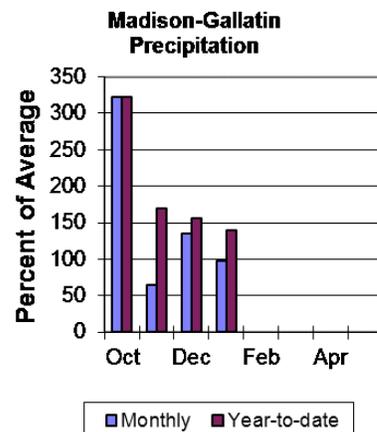
Precipitation

Last month precipitation in the Madison-Gallatin drainage was 97% of average (70% last year). The six reporting stations percentages range from 84-136% of average. Water-year-to-date precipitation is about 140% of average, which was 90% last year. Year to date percentage ranges from 126-178%.

Reservoirs

Ennis Lake is storing about 28,900 ac-ft of water (70% of capacity, 97% of average this year or about 97% last year). Hebgen Lake is storing about 305,200 ac-ft

of water (81% of capacity, 109% of average this year, 111% last year). *Detailed reservoir data shown below & in Appendix D.*



Streamflow

The 50% exceedance forecast for April through September is about average for the basin. Hebgen Reservoir inflow will be about 465,000 ac-ft (99% of average). *See below for detailed runoff volumes.*

Data Current as of: 2/6/2017 10:28:54 AM

Madison-Gallatin River Basins Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

MADISON-GALLATIN RIVER BASINS	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Hebgen Reservoir Inflow								
	APR-JUL	285	335	365	99%	395	445	370
	APR-SEP	365	425	465	99%	505	565	470

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

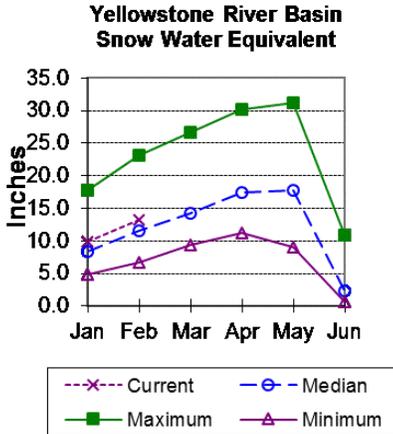
Reservoir Storage End of January, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Ennis Lake	28.9	28.9	29.8	41.0
Hebgen Lake	305.2	310.9	279.0	378.8
Basin-wide Total	334.0	339.8	308.8	419.8
# of reservoirs	2	2	2	2

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
MADISON-GALLATIN RIVER BASINS	8	103%	96%

Yellowstone River Basin

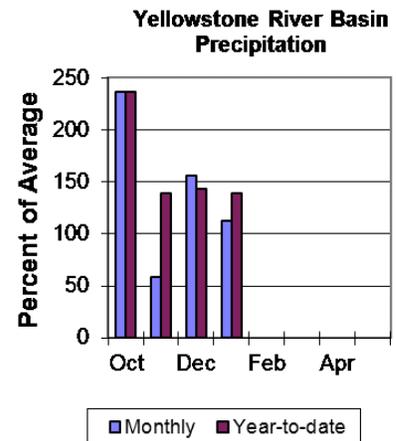
Snow

SWE in the Yellowstone River Basin is 115% of median (89% last year). SWE in the Yellowstone River Drainage in WY is 115% of median (89% last year). SWE in the Clarks Fork Drainage of the Yellowstone River Basin in Wyoming is 114% of median (90% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation in the Yellowstone River Basin was 113% of average (69% last year). The 18 reporting stations percentages range from 58-180% of average. Water-year-to-date precipitation is 139% of average, which was 95% last year. Year to date percentages range from 74-204%.



Reservoirs

No reservoir data

Streamflow

The 50% exceedance forecasts for April through September are above average for the basin. Yellowstone River at Lake Outlet will yield around 895,000 ac-ft (116% of average). Yellowstone at Corwin Springs will yield around 2,010,000 ac-ft (107% of average). Yellowstone near Livingston will yield around 2,300,000 ac-ft (107% of average). Clarks Fork of the Yellowstone near Belfry will yield around 695,000 ac-ft (126% of average). *See the following for further information.*

Data Current as of: 2/6/2017 10:28:55 AM

Yellowstone River Basin Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

YELLOWSTONE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Yellowstone R at Yellowstone Lake Outlet	APR-JUL	535	615	670	117%	725	805	575
	APR-SEP	715	820	895	116%	970	1080	770
Yellowstone R at Corwin Springs	APR-JUL	1400	1590	1710	108%	1830	2020	1590
	APR-SEP	1640	1860	2010	107%	2160	2380	1880
Yellowstone R at Livingston	APR-JUL	1570	1800	1960	109%	2120	2350	1800
	APR-SEP	1850	2120	2300	107%	2480	2750	2140
Clarks Fk Yellowstone R nr Belfry ²	APR-JUL	510	585	635	125%	685	760	510
	APR-SEP	555	635	695	126%	750	830	550

1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

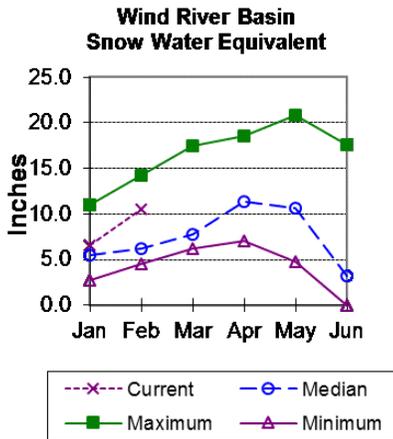
3) Median value used in place of average

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
YELLOWSTONE RIVER in WY	11	116%	89%
CLARKS FORK in WY	8	115%	90%

Wind River Basin

Snow

Wind River Basin above Boysen Reservoir SWE is 168% of median (73% last year). SWE in the Wind River above Dubois is 160% of median (80% last year). Little Wind River SWE above Riverton is 134% of median (62% last year), and Popo Agie drainage SWE is 187% of median (64% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for the basin was 191% of average (60% last year) from the 11 reporting stations. Last month's basin's precipitation varied from 109-328% of average. Water year-to-date precipitation is 154% of average and was 74% last year at this time. Year-to-date percentages range from 140-206% of average.

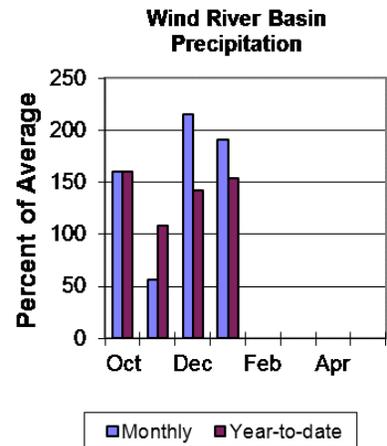
Reservoirs

Current storage in Bull Lake is 42,500 ac-ft (56% of average) (70,600 ac-ft or about 94% last year). Boysen Reservoir is storing (590,600 ac-ft) (117% of average) or (545,700 ac-ft last year at 108% of average). Pilot Butte is at 115% of average (26,700 ac-ft) (23,800 ac-ft or about 102% last year). *Detailed reservoir data shown on the following page and in*

Appendix D.

Streamflow

The 50% exceedance forecasts for the April through September runoff period are above average. Dinwoody Creek near Burris should yield around 105,000 ac-ft (114% of average). The Wind River above Bull Lake Creek will yield around 680,000 ac-ft (139% of average). Bull Lake Creek near Lenore will yield around 225,000 ac-ft (133% of average). Wind River at Riverton will yield around 765,000 ac-ft (139% of average). Little Popo Agie River near Lander should yield around 72,000 ac-ft (147% of average). South Fork of Little Wind near Fort Washakie will yield around ac-ft (% of average). Little Wind River near Riverton will yield around 450,000 ac-ft (153% of average). Boysen Reservoir inflow will yield around 1,040,000 ac-ft (156% of average). *See the following page for detailed runoff volumes.*



Wind River Basin Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

WIND RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Dinwoody Ck nr Burris	APR-JUL	62	71	76	115%	82	90	66
	APR-SEP	89	99	105	114%	112	121	92
Wind R Ab Bull Lake Ck	APR-JUL	470	560	625	137%	690	780	455
	APR-SEP	515	615	680	139%	750	850	490
Bull Lake Ck nr Lenore	APR-JUL	150	170	184	132%	197	215	139
	APR-SEP	183	205	225	133%	240	265	169
Wind R at Riverton	APR-JUL	490	590	660	139%	730	830	475
	APR-SEP	580	690	765	139%	840	955	550
Little Popo Agie R nr Lander	APR-JUL	44	56	64	152%	73	85	42
	APR-SEP	50	63	72	147%	81	94	49
Little Wind R nr Riverton	APR-JUL	235	335	405	150%	475	580	270
	APR-SEP	265	375	450	153%	520	630	295
Boysen Reservoir Inflow	APR-JUL	585	800	950	156%	1090	1310	610
	APR-SEP	660	885	1040	156%	1190	1420	665

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

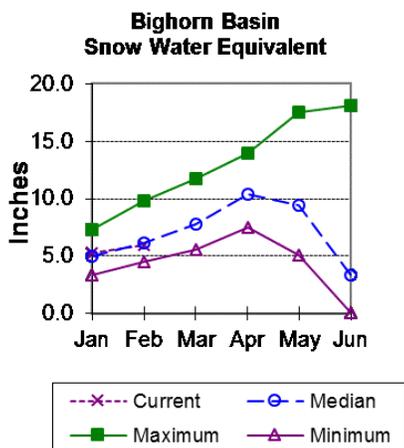
Reservoir Storage End of January, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Bull Lake	42.5	70.6	75.4	151.8
Boysen	590.6	545.7	506.0	596.0
Pilot Butte	25.6	23.8	23.2	31.6
Basin-wide Total	658.7	640.1	604.6	779.4
# of reservoirs	3	3	3	3

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
WIND above Dubois	6	160%	80%
LITTLE WIND	2	134%	62%
POPO AGIE	7	187%	64%
WIND RIVER BASIN	17	168%	73%

Bighorn River Basin

Snow

The Bighorn River Basin SWE above Bighorn Reservoir is 96% of median (64% last year). The Nowood River SWE is 68% of median (60% last year). The Greybull River SWE is 156% of median (81% last year). Shell Creek SWE is at 107% of median (63% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*

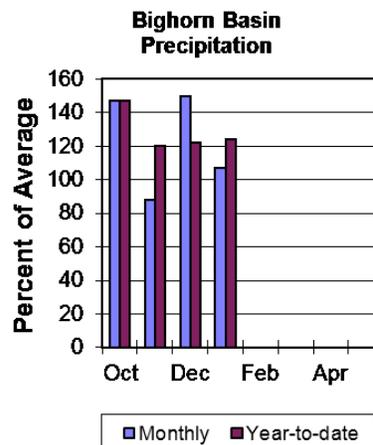


Precipitation

Last month's precipitation was 107% of average (55% last year). Sites ranged from 52-216% of average for the month. Year-to-date precipitation is 124% of average (68% last year). Year-to-date percentages, from the 19 reporting stations, range from 72-249%.

Reservoirs

Boysen Reservoir is currently storing 590,600 ac-ft (117% of average). Bighorn Lake is now at 876,300 ac-ft (106% of average). Boysen was at 545,700 ac-ft or about 108% of average last year and



Big Horn Lake was at 852,700 ac-ft or about 103% last year. *Detailed reservoir data shown below and in Appendix D.*

Streamflow

The 50% exceedance forecasts for the April through September runoffs are above average. Boysen Reservoir inflow should yield 1,040,000 ac-ft (156% of average); the Greybull River near Meeteetse should yield around 240,000 ac-ft (136% of average); Shell Creek near Shell should yield around 66,000 ac-ft (100% of average) and the Bighorn River at Kane should yield around 1,420,000 ac-ft (157% of average). *See the following for detailed runoff.*

Data Current as of: 2/6/2017 10:29:00 AM

Bighorn River Basin Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

BIGHORN RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Boysen Reservoir Inflow	APR-JUL	585	800	950	156%	1090	1310	610
	APR-SEP	660	885	1040	156%	1190	1420	665
Greybull R nr Meeteetse	APR-JUL	121	155	178	136%	200	235	131
	APR-SEP	176	215	240	136%	270	305	177
Shell Ck nr Shell	APR-JUL	40	49	55	100%	61	70	55
	APR-SEP	49	59	66	100%	73	83	66
Bighorn R at Kane	APR-JUL	795	1090	1300	155%	1500	1800	840
	APR-SEP	875	1200	1420	157%	1640	1960	905

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

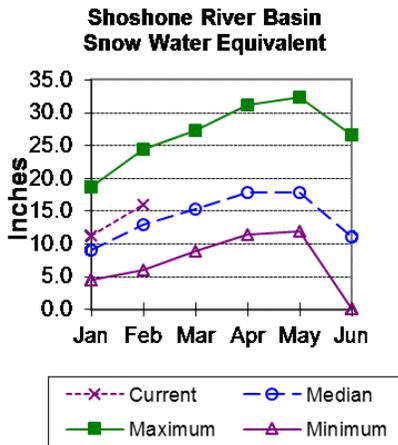
Reservoir Storage	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Boysen	590.6	545.7	506.0	596.0
Bighorn Lake	876.3	852.7	825.9	1356.0
Basin-wide Total	1466.9	1398.4	1331.9	1952.0
# of reservoirs	2	2	2	2

Watershed Snowpack Analysis	# of Sites	% Median	Last Year % Median
February 1, 2017			
NOWOOD RIVER	7	68%	60%
GREYBULL RIVER	2	156%	81%
SHELL CREEK	4	111%	63%
BIGHORN RIVER BASIN	14	98%	64%

Shoshone River Basin

Snow

Snowpack in this basin is above median for this time of year. Snow Water Equivalent (SWE) is 123% of median (86% last year) in the Shoshone River Basin. *See Appendix A at the end of this report for a detailed listing of snow course information.*

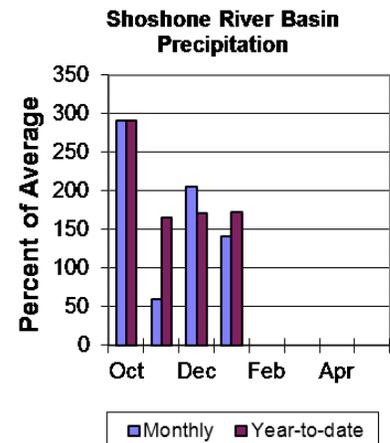


Precipitation

Precipitation for last month was 141% of average (69% last year). Monthly percentages range from 110-575% of average. The basin year-to-date precipitation is now 173% of average (101% last year). Year-to-date percentages range from 145-364% of average for the 10 reporting stations.

Reservoirs

Current storage in Buffalo Bill Reservoir is about 136% of average this year (121% last year) - the reservoir is at 74% of capacity. Currently, about 481,400 ac-ft are stored in the reservoir compared to



426,600 ac-ft last year. *Detailed reservoir data shown on the following page and in Appendix D.*

Streamflow

The 50% exceedance forecasts for the April through September period are above average for the basin. The North Fork Shoshone River at Wapiti will yield around 680,000 ac-ft (132% of average). The South Fork of the Shoshone River near Valley will yield around 325,000 ac-ft (133% of average), and the South Fork above Buffalo Bill Reservoir runoff will yield around 315,000 ac-ft (158% of average). The Buffalo Bill Reservoir inflow will yield around 1,100,000 ac-ft (148% of average). *See the following for detailed runoff volumes.*

Data Current as of: 2/6/2017 10:29:02 AM

Shoshone River Basin Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

SHOSHONE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
NF Shoshone R at Wapiti	APR-JUL	525	575	610	133%	645	695	460
	APR-SEP	590	645	680	132%	715	770	515
SF Shoshone R nr Valley	APR-JUL	235	260	280	130%	295	320	215
	APR-SEP	275	305	325	133%	345	370	245
SF Shoshone R ab Buffalo Bill Reservoir	APR-JUL	230	270	295	153%	325	365	193
	APR-SEP	245	285	315	158%	345	385	200
Buffalo Bill Reservoir Inflow ²	APR-JUL	825	930	1000	148%	1070	1170	675
	APR-SEP	910	1020	1100	148%	1180	1290	745

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

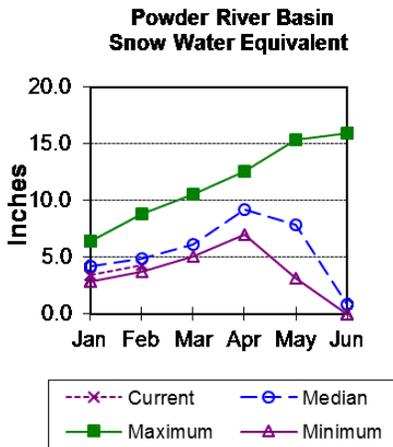
Reservoir Storage End of January, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Buffalo Bill	481.4	426.6	353.8	646.6
Basin-wide Total	481.4	426.6	353.8	646.6
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
SHOSHONE RIVER BASIN	5	123%	86%

Powder River Basin

Snow

Powder River SWE is 89% of median (59% last year). Upper Powder River drainage is 71% of median (64% last year). SWE in the Clear Creek drainage is 115% of median (52% last year). Crazy Woman Creek drainage SWE is 75% of median (50% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*



Precipitation

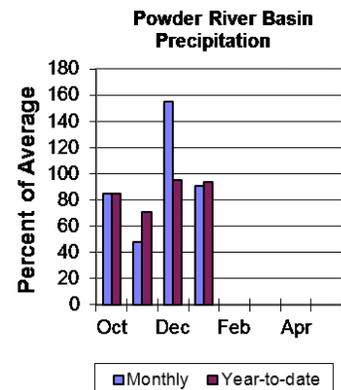
Last month's precipitation was 91% of average (60% last year) for the nine reporting stations. Monthly percentages range from 52-164% of average. Year-to-date precipitation is 94% of average in the basin (56% last year). Precipitation for the year ranges from 61-137% of average.

Reservoirs

No reservoir data for the basin.

Streamflow

The 50% exceedance forecasts for the April through September period are below average for the basin. The Middle Fork of the Powder River near Barnum should yield around 13,100 ac-ft (77% of average). The North Fork of the Powder River near Hazelton should yield around 8,100 ac-ft (82% of average). Rock Creek near Buffalo will yield about 25,000 ac-ft (114% of average), and Piney Creek at Kearny should yield about 53,000 ac-ft (113% of average). The Powder River at Moorhead will yield around 194,000 ac-ft (99% of average). The Powder River near Locate will yield around 220,000 ac-ft (100% of average). *See the following for detailed runoff volumes.*



Data Current as of: 2/6/2017 10:29:04 AM

Powder River Basin Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

POWDER RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
MF Powder R nr Barnum	APR-JUL	6.7	10.1	12.4	77%	14.7	18.1	16.1
	APR-SEP	7.2	10.7	13.1	77%	15.5	19	17
NF Powder R nr Hazelton	APR-JUL	4.9	6.4	7.4	81%	8.4	9.9	9.1
	APR-SEP	5.5	7	8.1	82%	9.2	10.7	9.9
Rock Ck nr Buffalo	APR-JUL	15	18.6	21	113%	23	27	18.6
	APR-SEP	18.5	22	25	114%	28	31	22
Piney Ck at Kearny	APR-JUL	27	40	49	111%	58	71	44
	APR-SEP	31	44	53	113%	62	75	47
Powder R at Moorehead	APR-JUL	43	122	176	99%	230	310	177
	APR-SEP	59	139	194	99%	250	330	196
Powder R nr Locate	APR-JUL	49	138	199	100%	260	350	199
	APR-SEP	60	154	220	100%	280	375	220

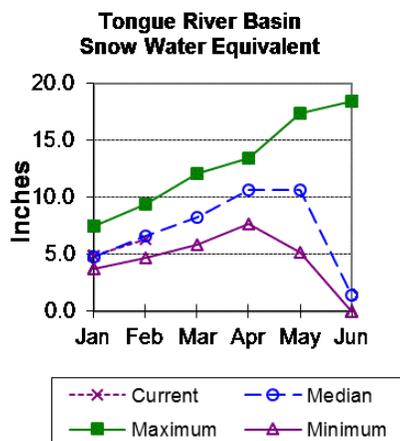
- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
UPPER POWDER RIVER	5	71%	64%
CLEAR CREEK	4	116%	52%
CRAZY WOMAN CREEK	3	75%	50%
POWDER RIVER BASIN	9	90%	59%

Tongue River Basin

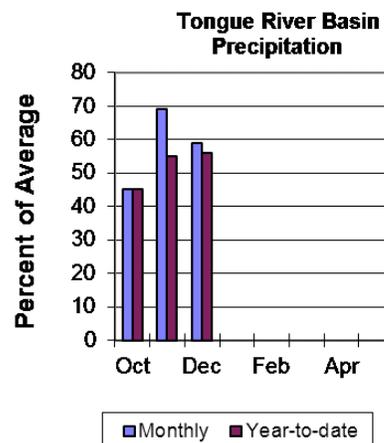
Snow

Upper Tongue River SWE is 96% of median (53% last year). The Goose Creek drainage SWE is 94% of median (48% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 83% of average (66% last year) for 11 reporting stations. Monthly percentages range from 29-186% of average. Year-to-date precipitation is 101% of average in the basin (58% last year). Precipitation for the year ranges from 82-147% of average.



Reservoirs

The Tongue River Reservoir currently is storing 50,200 ac-ft, while last year's storage was 50,200 ac-ft. The Tongue River Reservoir is at 188% of average for this time of year

or 64% of capacity. *Detailed reservoir data shown below and in Appendix D.*

Streamflow

The 50% exceedance forecasts for the April through September period are below average for the basin. The yield for Tongue River near Dayton will be around 85,000 ac-ft (87% of average). Big Goose Creek near Sheridan will yield around 47,000 ac-ft (87% of average). Little Goose Creek near Bighorn will yield around 35,000 ac-ft (90% of average). The Tongue River Reservoir Inflow will be around 205,000 ac-ft (95% of average). *See below for detailed runoff volumes.*

Data Current as of: 2/6/2017 10:29:06 AM

Tongue River Basin Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

TONGUE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Tongue R nr Dayton	APR-JUL	43	62	74	86%	87	105	86
	APR-SEP	52	72	85	87%	99	119	98
Big Goose Ck nr Sheridan	APR-JUL	20	32	39	85%	47	58	46
	APR-SEP	27	39	47	87%	55	67	54
Little Goose Ck nr Bighorn	APR-JUL	15.1	22	28	90%	33	40	31
	APR-SEP	22	30	35	90%	40	48	39
Tongue River Reservoir Inflow	APR-JUL	80	142	184	95%	225	290	193
	APR-SEP	95	160	205	95%	250	315	215

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

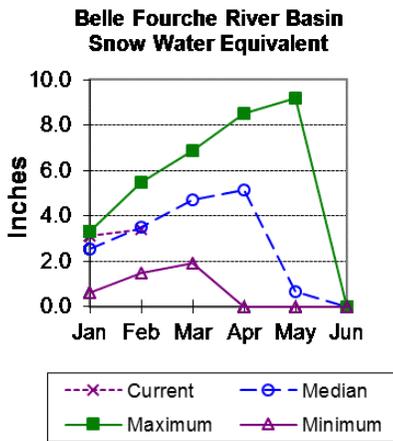
Reservoir Storage End of January, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Tongue River Res	50.2	50.2	26.7	79.1
Basin-wide Total	50.2	50.2	26.7	79.1
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
GOOSE CREEK	3	99%	48%
TONGUE RIVER BASIN	9	100%	53%

Belle Fourche River Basin

Snow

Belle Fourche River Basin SWE is 98% of median (76% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*



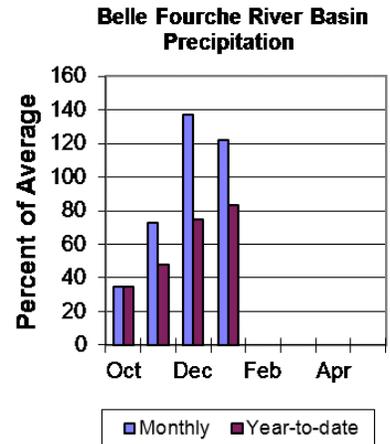
Precipitation

Precipitation for last month was 122% of average (111% last year) in the Black Hills for the 3 reporting stations. Year-to-date precipitation is 83% of average (81% last year).

Reservoirs

Belle Fourche Reservoir is storing 93% of average (102,400 ac-ft), or about 57% of capacity. Keyhole Reservoir is storing 163% of average (143,400 ac-ft), or about 74% of capacity. Shadehill

Reservoir is storing 83% of average (35,700 ac-ft), or about 44% of capacity. *Detailed reservoir data shown below and in Appendix D.*



Streamflow

There are no streamflow forecast points for the basin.

Data Current as of: 2/6/2017 10:29:08 AM

Belle Fourche River Basin - February 1, 2017

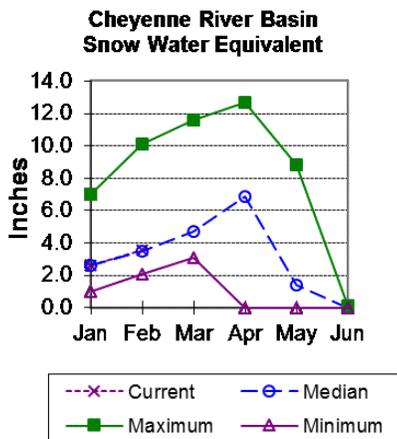
Reservoir Storage End of January, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Belle Fourche	102.4	141.8	110.5	178.4
Keyhole	143.4	166.7	87.9	193.8
Shadehill	35.7	50.9	42.8	81.4
Basin-wide Total	281.5	359.5	241.2	453.6
# of reservoirs	3	3	3	3

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
BELLE FOURCHE RIVER BASIN	6	97%	76%

Cheyenne River Basin

Snow

Cheyenne River Basin SWE is 101% of median (74% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*



Precipitation

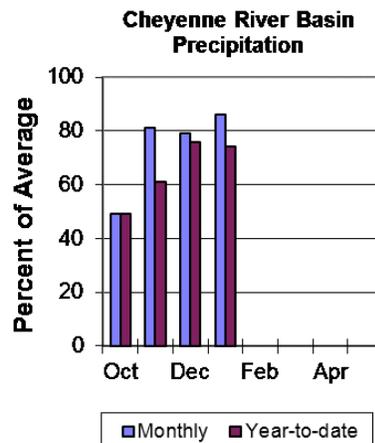
Precipitation for last month was 86% of average (85% last year) in the Black Hills. There were three reporting stations. Year-to-date precipitation is 74% of average (63% last year).

Reservoirs

Angostura is currently storing 110% of average (91,400 ac-ft), or about 75% of capacity.

Deerfield reservoir is storing 110% of average (15,000 ac-ft), or about 99% of capacity.

Pactola Reservoir is storing 116% of average (52,700 ac-ft), or about 96% of capacity. *Detailed reservoir data shown below and in Appendix D.*



storing 116% of average (52,700 ac-ft), or about 96% of capacity. *Detailed reservoir data shown below and in Appendix D.*

Streamflow

The following runoff values are the 50% exceedance forecasts for the April through July period. The Deerfield Reservoir Inflow yield is around 4,900 ac-ft (94% of average). Pactola Reservoir Inflow yield is around 19,600 ac-ft (89% of average). *See the following for detailed runoff volumes.*

Data Current as of: 2/6/2017 10:29:10 AM

Cheyenne River Basin Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

CHEYENNE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Deerfield Reservoir Inflow	MAR-JUL	2	4.4	6.1	98%	7.8	10.2	6.2
	APR-JUL	2.3	3.7	4.9	94%	6.2	8.3	5.2
Pactola Reservoir Inflow	MAR-JUL	4.6	15.8	23	92%	31	42	25
	APR-JUL	7	13.7	19.6	89%	27	39	22

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

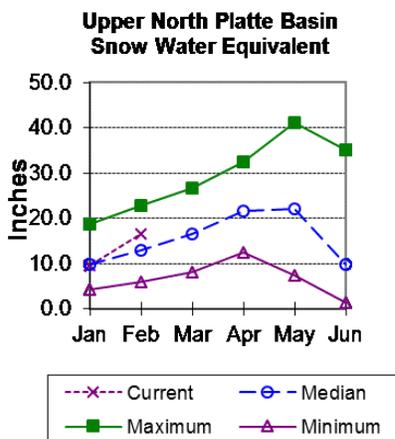
Reservoir Storage End of January, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Angostura	91.4	104.7	83.2	122.1
Deerfield	15.0	14.2	13.7	15.2
Pactola	52.7	51.1	45.5	55.0
Basin-wide Total	159.1	169.9	142.4	192.3
# of reservoirs	3	3	3	3

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
CHEYENNE RIVER BASIN	7	103%	74%

Upper North Platte River Basin

Snow

The Upper North Platte River Basin above Seminoe Reservoir SWE is 129% of median (98% last year). North Platte above Northgate SWE is 134% of median (96% last year). Encampment River SWE is 138% of median (101% last year). Brush Creek SWE is 118% of median (103% last year). Medicine Bow and Rock Creek SWE are 122% of median (95% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*



Precipitation

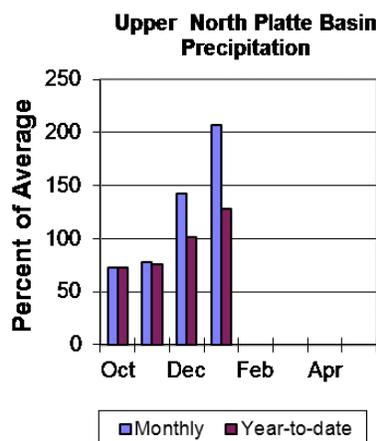
Eighteen reporting stations show last month's precipitation at 207% of average (118% last year). Precipitation varied from 140-403% of average last month. Total water-year-to-date precipitation is 128% of average for the basin (96% last year). Year-to-date percentages range from 54-196% of average.

Reservoirs

Seminoe Reservoir is storing 756,700 ac-ft or 74% of capacity. Seminoe Reservoir is at 145% of average and was at 137% of average last year. *Detailed reservoir data shown on the following page and in Appendix D.*

Streamflow

The 50% exceedance forecasts for the April through September period are above average for the Upper North Platte River Basin. The yield for the North Platte River near Northgate will be around 335,000 ac-ft (134% of average). The Encampment River near Encampment yield will be around 197,000 ac-ft (143% of average). Rock Creek near Arlington yield will be around 60,000 ac-ft (115% of average). Sweetwater River near Pathfinder will yield about 115,000 ac-ft (180% of average). Seminoe Reservoir inflow should be around 1,050,000 ac-ft (136% of average). *See the following page for more detailed information on projected runoff.*



Upper North Platte River Basin Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

UPPER NORTH PLATTE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
<hr/>								
North Platte R nr Northgate	APR-JUL	175	250	305	136%	360	435	225
	APR-SEP	194	280	335	134%	390	475	250
Encampment R nr Encampment ²	APR-JUL	126	161	185	143%	210	245	129
	APR-SEP	135	172	197	143%	220	260	138
Rock Ck nr Arlington	APR-JUL	39	50	57	116%	64	75	49
	APR-SEP	41	52	60	115%	68	79	52
Sweetwater R nr Alcova	APR-JUL	72	94	108	183%	122	144	59
	APR-SEP	78	100	115	180%	131	153	64
Seminole Reservoir Inflow	APR-JUL	585	815	970	136%	1130	1350	715
	APR-SEP	720	960	1050	136%	1280	1520	770

1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

3) Median value used in place of average

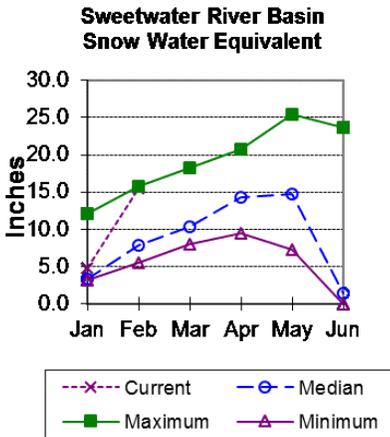
Reservoir Storage End of January, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Seminole	756.7	712.5	520.8	1016.7
Basin-wide Total	756.7	712.5	520.8	1016.7
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
N PLATTE above Northgate	11	134%	96%
ENCAMPMENT RIVER	4	138%	101%
BRUSH CREEK	5	118%	103%
MEDICINE BOW & ROCK CREEKS	3	122%	95%
UPPER NORTH PLATTE RIVER BASIN	24	129%	98%

Sweetwater River Basin

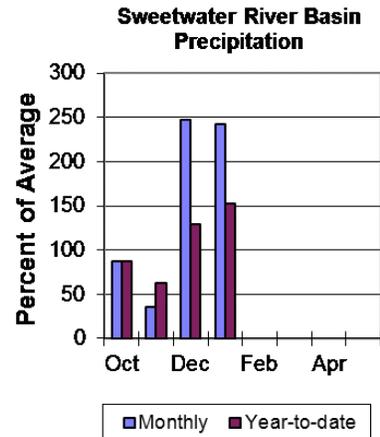
Snow

Sweetwater River Basin SWE is 195% of median (59% last year). See *Appendix A at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 242% of average (53% last year) for the four reporting stations ranging from 130-271%. The water year-to-date precipitation for the basin is currently 152% of average (56% last year). Year-to-date percentages range from 95-175% of average.



Reservoirs

Reservoir storage is as follows: Pathfinder 912,400 ac-ft (90% of capacity, 163% of average, 152% last year).

Streamflow

The 50% exceedance forecast for the April through September period will be above average. The Sweetwater River near Pathfinder will yield about 115,000 ac-ft (180% of average). See below for detailed information on projected runoff.

Data Current as of: 2/6/2017 10:29:15 AM

Sweetwater River Basin Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

SWEETWATER RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Sweetwater R nr Alcova	APR-JUL	72	94	108	183%	122	144	59
	APR-SEP	78	100	115	180%	131	153	64

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

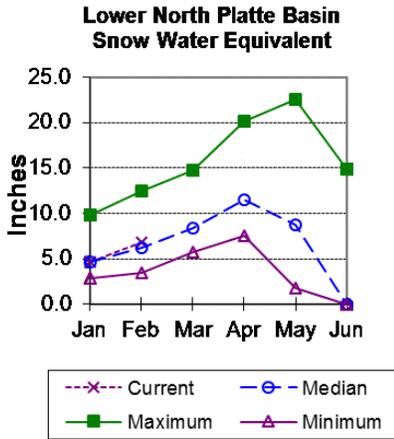
Reservoir Storage End of January, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Pathfinder	912.4	847.5	559.0	1016.5
Basin-wide Total	912.4	847.5	559.0	1016.5
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
SWEETWATER RIVER BASIN	5	195%	59%

Lower North Platte River Basin

Snow

Lower North Platte River Basin SWE is 110% of median (107% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*

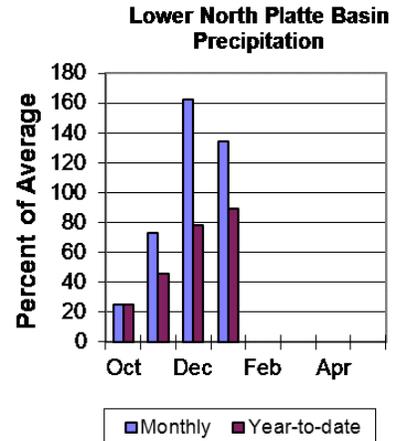


Precipitation

Last month's precipitation was 134% of average (165% last year). The seven reporting stations percentages for the month range from 81-294%. The water year-to-date precipitation for the basin is currently 89% of average (102% last year). Year-to-date percentages range from 77-102% of average.

Reservoirs

Reservoir storage is as follows: Alcova 157,200 ac-ft (101% of average) (85% of capacity); Glendo 300,400 ac-ft (100% of average) (59% of capacity); Guernsey 0 ac-ft (0% of average) (0% of capacity); Pathfinder 912,400 ac-ft (163% of average) (90% of capacity) (152% of average last year). *Detailed reservoir data shown on the following page and in Appendix D.*



Streamflow

The 50% exceedance forecasts for the April through September period will be above average. North Platte - Alcova to Orin Gain will yield - ac-ft. LaPrele Creek above LaPrele Reservoir should yield around 17,500 ac-ft (88% of average). North Platte River below Glendo Reservoir should yield around 1,290,000 ac-ft (152% of average), and below Guernsey Reservoir should yield around 1,410,000 ac-ft (166% of average). *See the following for more detailed information on projected runoff.*

Data Current as of: 2/6/2017 10:29:18 AM

Lower North Platte River Basin Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

LOWER NORTH PLATTE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
La Prele Ck ab La Prele Reservoir	APR-JUL	0.5	10.3	17.5	88%	25	35	19.9
	APR-SEP	0.7	10.2	17.5	88%	25	36	19.9
North Platte R bl Glendo Reservoir	APR-JUL	770	1090	1230	150%	1520	1830	820
	APR-SEP	810	1140	1290	152%	1580	1910	850
North Platte R bl Guernsey Reservoir	APR-JUL	1020	1210	1270	155%	1480	1670	820
	APR-SEP	1070	1280	1410	166%	1550	1750	850

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

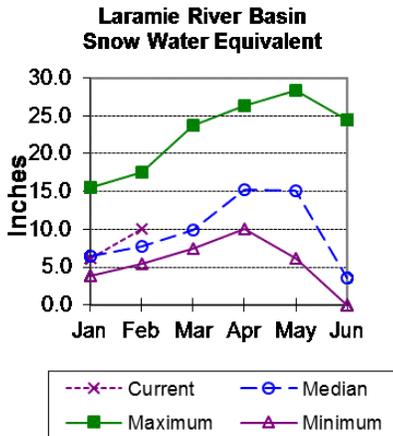
Reservoir Storage	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Alcova	157.2	156.6	155.0	184.3
Glendo	300.4	271.1	301.5	506.4
Guernsey	0.0	18.1	11.4	45.6
Pathfinder	912.4	847.5	559.0	1016.5
Basin-wide Total	1370.0	1293.3	1026.9	1752.8
# of reservoirs	4	4	4	4

Watershed Snowpack Analysis	# of Sites	% Median	Last Year % Median
DEER & LaPRELE CREEKS	2	112%	106%
LOWER NORTH PLATTE RIVER BASIN	4	110%	107%

Laramie River Basin

Snow

SWE for the entire Laramie River Basin (above mouth entering North Platte) is 131% of median (107% last year). SWE for the Laramie River above Laramie is 135% of median (110% last year). SWE for the Little Laramie River is 127% of median (102% last year). **SWE total for the entire North Platte River Basin above Torrington is 134% of median (97% last year).** See Appendix A at the end of this report for a detailed listing of snow course information.



Precipitation

Last month's precipitation was 201% of average (111% last year). For the 12 reporting stations percentages for the month range from 94-370%. The water year-to-date precipitation for the basin is currently 114% of average (113% last year). Year-to-date percentages range from 85-141% of average.

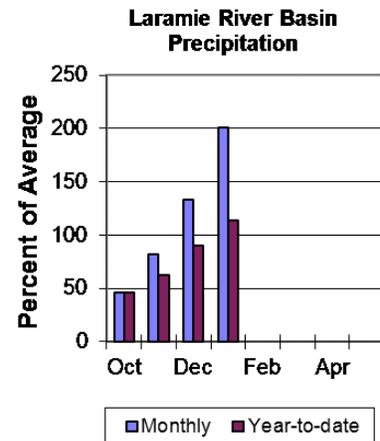
Reservoirs

Reservoir storage is as follows: Wheatland #2 47,500 ac-ft (116% of average) (48% of capacity) was (128% of average last year). Detailed reservoir data shown on the following page and in Appendix D.

Streamflow

The 50% exceedance forecasts for the April through September period will be above average. Laramie River near Woods Landing should yield around 171,000 ac-ft (136% of average). The Little Laramie near Filmore should produce about 67,000 ac-ft (122% of average). See below for detailed information on projected runoff.

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Laramie River Basin Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

LARAMIE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Laramie R nr Woods	APR-JUL	97	132	156	136%	180	215	115
	APR-SEP	108	146	171	136%	197	235	126
Little Laramie R nr Filmore	APR-JUL	40	53	62	122%	70	83	51
	APR-SEP	43	57	67	122%	76	90	55

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

Reservoir Storage End of January, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Wheatland #2	47.5	52.2	40.9	98.9
Basin-wide Total	47.5	52.2	40.9	98.9
# of reservoirs	1	1	1	1

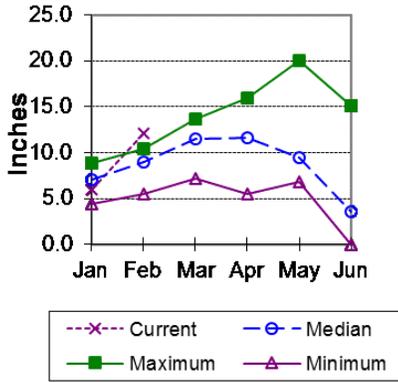
Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
LARAMIE RIVER abv Laramie	7	135%	110%
LITTLE LARAMIE RIVER	5	127%	102%
LARAMIE RIVER BASIN	13	131%	107%
NORTH PLATTE TOTAL RIVER BASIN	40	134%	97%

South Platte River Basin (WY)

Snow

South Platte River Basin SWE in WY is 134% of median (93% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*

**South Platte River Basin
Snow Water Equivalent**



basin.

Precipitation

Last month's precipitation was 206% of average (98% last year) for the 6 reporting stations. The water year-to-date precipitation for the basin is currently 127 of average (108% last year). Year-to-date percentages range from 79-174% of average.

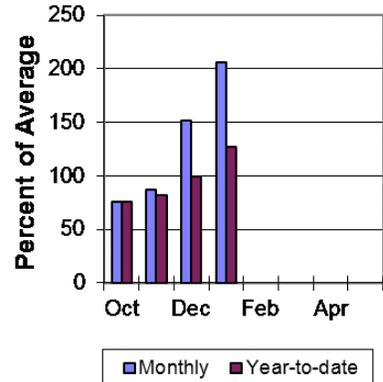
Reservoirs

No reservoir data for the basin.

Streamflow

There are no streamflow forecast points for the

**South Platte River Basin
Precipitation**



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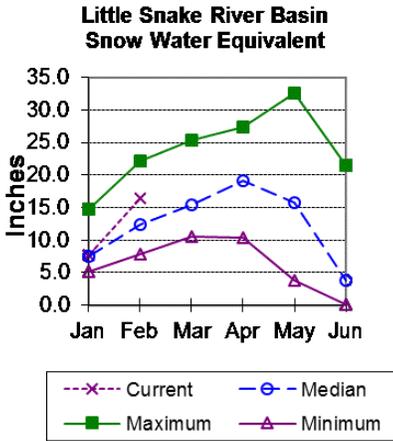
South Platte River Basin - February 1, 2017

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
SOUTH PLATTE RIVER BASIN	8	134%	93%

Little Snake River Basin

Snow

Little Snake River drainage SWE is 132% of median (100% last year). See *Appendix A at the end of this report for a detailed listing of snow course information.*

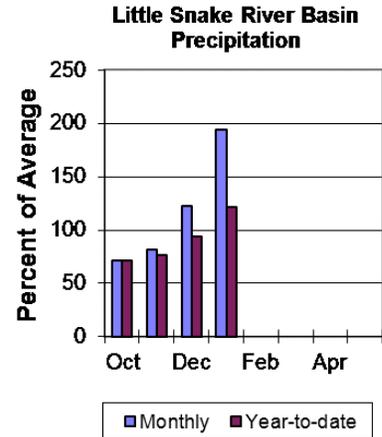


Precipitation

Precipitation across the basin was 194% of average (125% last year) for the eight reporting stations. Last month's precipitation ranged from 160-245% of average. The Little Snake River Basin water-year-to-date precipitation is currently 122% of average (93% last year). Year-to-date percentages range from 99-138% of average.

Reservoirs

High Savery Dam - 12,000 ac-ft (101% of average) (53% of capacity) (91% average last year). See below for detailed information on reservoirs and in *Appendix D.*



Streamflow

The 50% exceedance forecasts for the April through July period will be above average. The Little Snake River near Slater should yield around 181,000 ac-ft (116% of average). The Little Snake River near Dixon should yield around 400,000 ac-ft (116% of average). See below for detailed information on projected runoff.

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Little Snake River Basin Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

LITTLE SNAKE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Little Snake R nr Slater ²	APR-JUL	127	158	181	116%	205	245	156
Little Snake R nr Dixon ²	APR-JUL	250	335	400	116%	475	590	345

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

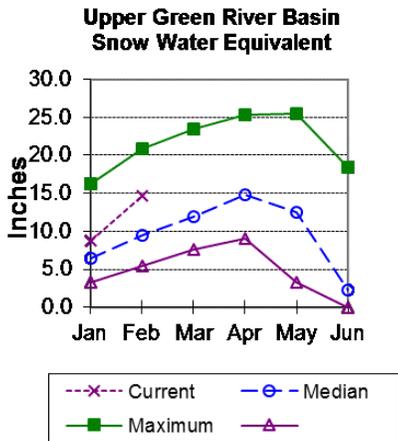
Reservoir Storage End of January, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
High Savery Reservoir	12.0	10.8	11.9	22.4
Basin-wide Total	12.0	10.8	11.9	22.4
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
LITTLE SNAKE RIVER BASIN	10	132%	100%

Upper Green River Basin

Snow

Upper Green River Basin above Fontenelle Reservoir SWE is 155% of median (90% last year). Green River Basin above Warren Bridge SWE is 146% of median (89% last



year). West Side of Upper Green River Basin SWE is 158% of median (99% last year). New Fork River SWE is 153% of median (74% last year). Big Sandy-Eden Valley Basin SWE is 177% of median (59% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*

Precipitation

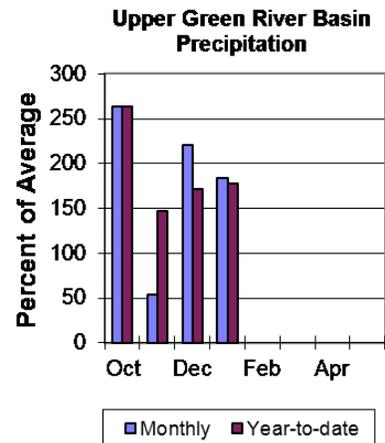
The 16 reporting precipitation sites in the basin were 184% of average last month (81% last year). Last month's precipitation varied from 122-459% of average. Water year-to-date precipitation is 178% of average (90% last year). Year to date percentages of average range from 149-312%.

Reservoir

Storage in Big Sandy Reservoir is 22,800 ac-ft or 60% of capacity (134% of average) (112% last year). Fontenelle Reservoir is 184,300 ac-ft (53% of capacity) (123% of average) (113% last year). *Detailed reservoir data shown on the following page and in Appendix D.*

Streamflow

The 50% exceedance forecasts for the April through July period will be above average. The yield on the Green River at Warren Bridge is about 350,000 ac-ft (143% of average). Pine Creek above Fremont Lake yield will be about 129,000 ac-ft (132% of average). New Fork River near Big Piney yield will be about 575,000 ac-ft (162% of average). Fontenelle Reservoir Inflow is estimated to be around 1,250,000 ac-ft (172% of average), and Big Sandy near Farson yield will be around 81,000 ac-ft (156% of average). *See the following for a more detailed forecast.*



Upper Green River Basin Streamflow Forecasts - February 1, 2017

 Forecast Exceedance Probabilities for Risk Assessment
 Chance that actual volume will exceed forecast

UPPER GREEN RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Green R at Warren Bridge	APR-JUL	275	320	350	143%	385	435	245
Pine Creek ab Fremont Lake	APR-JUL	110	121	129	132%	138	150	98
New Fork R nr Big Piney	APR-JUL	390	495	575	162%	660	795	355
Fontenelle Reservoir Inflow	APR-JUL	840	1070	1250	172%	1440	1740	725
Big Sandy R nr Farson	APR-JUL	57	71	81	156%	92	109	52

1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

3) Median value used in place of average

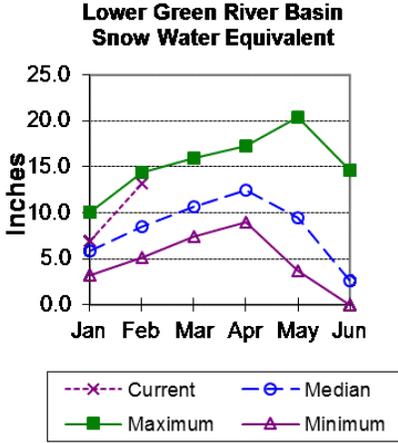
Reservoir Storage End of January, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Big Sandy	22.8	19.0	17.0	38.3
Fontenelle	184.3	170.3	150.1	344.8
Basin-wide Total	207.1	189.3	167.1	383.1
# of reservoirs	2	2	2	2

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
GREEN above Warren Bridge	5	146%	89%
UPPER GREEN - West Side	5	158%	99%
NEWFORK RIVER	3	153%	74%
BIG SANDY-EDEN VALLEY	3	177%	59%
GREEN above Fontenelle	15	155%	90%

Lower Green River Basin

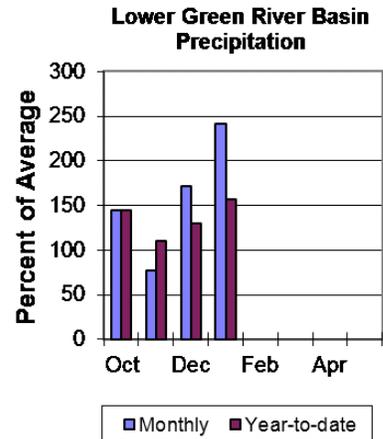
Snow

Lower Green River Basin SWE is 155% of median (106% last year). Hams Fork drainage SWE is 161% of median (92% last year). Blacks Fork drainage SWE is 144% of median (121% last year). Henrys Fork SWE is 144% of median (151% last year). SWE for the entire Green River Basin (above Flaming Gorge) is 154% of median (95% last year). See Appendix A at the end of this report for a detailed listing of snow course information.



Precipitation

Precipitation for the 12 reporting stations during last month was 241% of average (120% last year). Precipitation ranged from 164-818% of average for the month. The basin year-to-date precipitation is currently 157% of average (97% last year). Year-to-date percentages range from 81-287% of average.



Reservoirs

Fontenelle Reservoir is currently storing 184,300 ac-ft; this is 123% of average (113% last year) (53% of capacity). Flaming Gorge is currently storing 3,089,500 ac-ft; this is 101% of average (104% last year) (82% of capacity). Viva Naughton is currently storing 30,300 ac-ft; this is 101% of average (100% last year) (71% of capacity). Detailed reservoir data shown on the following page and in Appendix D.

Streamflow

The 50% exceedance forecasts for the April through July period will be above average. The Green River near Green River will yield about 1,280,000 ac-ft (175% of average). The Blacks Fork near Robertson will yield about 118,000 ac-ft (137% of average). East Fork of Smiths Fork near Robertson will yield around 31,000 ac-ft (115% of average). Hams Fork below Pole Creek near Frontier will yield around 80,000 ac-ft (148% of average). The Hams Fork Inflow to Viva Naughton Reservoir will yield about 114,000 ac-ft (154% of average). The Flaming Gorge Reservoir inflow will be about 1,640,000 ac-ft (167% of average). See the following page for more detailed information on projected runoff.

Lower Green River Basin Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

LOWER GREEN RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Green R nr Green River, WY ²	APR-JUL	855	1100	1280	175%	1480	1800	730
Blacks Fk nr Robertson	APR-JUL	81	102	118	137%	134	161	86
EF of Smiths Fork nr Robertson ²	APR-JUL	20	26	31	115%	36	44	27
Hams Fk bl Pole Ck nr Frontier	APR-JUL	49	66	80	148%	95	119	54
Viva Naughton Reservoir Inflow	APR-JUL	65	93	114	154%	138	176	74
Flaming Gorge Reservoir Inflow ²	APR-JUL	1060	1390	1640	167%	1910	2350	980

1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

3) Median value used in place of average

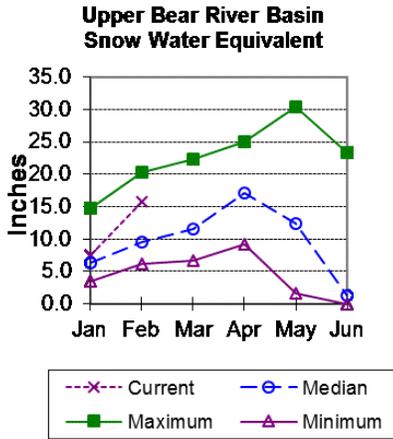
Reservoir Storage End of January, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Fontenelle	184.3	170.3	150.1	344.8
Flaming Gorge Reservoir	3089.5	3165.0	3049.0	3749.0
Viva Naughton Res	30.3	30.2	30.1	42.4
Basin-wide Total	3304.1	3365.5	3229.2	4136.2
# of reservoirs	3	3	3	3

Watershed Snowpack Analysis February 1, 2017	# of Sites	% Median	Last Year % Median
HAMS FORK RIVER	4	161%	92%
BLACKS FORK	2	144%	121%
HENRYS FORK	2	144%	151%
LOWER GREEN RIVER BASIN	8	155%	106%
GREEN above FLAMING GORGE	22	154%	95%

Upper Bear River Basin

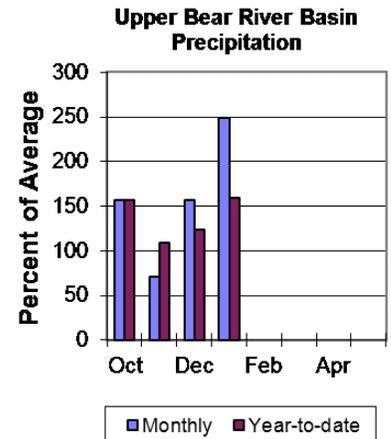
Snow

Upper Bear River Basin above the UT-WY state line SWE is 165% of median (102% last year). SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is 168% of median (92% last year). Upper Bear River Basin SWE above WY-UT state line is 165% of median (102% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for last month was 249% of average for the 9 reporting stations; this was 126% last year. The year-to-date precipitation for the basin is 159% of average; this was 95% last year. Year-to-date percentages range from 122-267% of average.



Reservoirs

Storage in Woodruff Narrows Reservoir is 49,600 ac-ft about 87% of capacity (171%

of average) (142% last year). *Detailed reservoir data shown below and in Appendix D.*

Streamflow

The following 50% exceedance forecasts for the April through September period will be above average. The Bear River near the Utah-Wyoming State Line should yield about 196,000 ac-ft (159% of average). The Bear River above Reservoir near Woodruff should yield around 210,000 ac-ft (164% of average). The Smiths Fork River near Border Jct. will yield around 162,000 ac-ft (156% of average). *See below for detailed information on projected runoff.*

Data Current as of: 2/6/2017 10:29:32 AM

Upper Bear River Basin Streamflow Forecasts - February 1, 2017

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

UPPER BEAR RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Bear R nr UT-WY State Line	APR-JUL	139	163	179	160%	195	220	112
	APR-SEP	151	178	196	159%	215	240	123
Bear R ab Resv nr Woodruff	APR-JUL	112	164	200	165%	235	290	121
	APR-SEP	114	171	210	164%	250	305	128
Smiths Fk nr Border	APR-JUL	111	128	140	157%	152	169	89
	APR-SEP	128	149	162	156%	176	197	104

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

Reservoir Storage	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
End of January, 2017				
Woodruff Narrows Reservoir	49.6	41.1	29.0	57.3
Basin-wide Total	49.6	41.1	29.0	57.3
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis	# of Sites	% Median	Last Year % Median
February 1, 2017			
UPPER BEAR RIVER in Utah	3	165%	105%
SMITHS & THOMAS FORKS	3	168%	92%
UPPER BEAR RIVER BASIN	8	165%	102%

Appendix A

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Basinwide Summary: February 1, 2017
(Averages/Medians based on 1981-2010 reference period)

Snowpack Summary for February 1, 2017
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SNAKE above Jackson Lake	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Aster Creek	SC	7750	48	20.8	17.0	122%	15.9	94%
Glade Creek	SC	7040	59	18.8	14.8	127%	14.9	101%
Grassy Lake	SNOTEL	7265	81	23.8	20.3	117%	21.1	104%
Huckleberry Divide	SC	7300	51	16.5	12.8	129%	13.2	103%
Lewis Lake Divide	SNOTEL	7850	74	20.3	20.0	102%	20.1	101%
Moran	SC	6750	44	12.8	8.0	160%	8.6	108%
Snake River Station	SNOTEL	6920	52	14.3	10.9	131%	11.4	105%
Thumb Divide	SNOTEL	7980	42	10.6	9.6	110%	8.6	90%
Two Ocean Plateau	SNOTEL	9240	84	24.1	17.6	137%	16.3	93%
Basin Index						124%		99%
# of sites						9		9
PACIFIC CREEK	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Base Camp	SNOTEL	7030	44	15.7	10.8	145%	10.8	100%
Moran	SC	6750	44	12.8	8.0	160%	8.6	108%
Two Ocean Plateau	SNOTEL	9240	84	24.1	17.6	137%	16.3	93%
Basin Index						145%		98%
# of sites						3		3
BUFFALO FORK	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Four Mile	SC	6900						
Togwotee Pass	SNOTEL	9580	61	18.5	15.0	123%	13.3	89%
Turpin Meadows	SC	6900	36	11.1	6.6	168%	6.8	103%
Younts Peak	SNOTEL	8350	45	12.9	9.6	134%	7.0	73%
Basin Index						136%		87%
# of sites						3		3
GROS VENTRE RIVER	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Elbo Ranch	SC	7100	37	10.2	7.2	142%	7.4	103%
Gros Ventre Summit	SNOTEL	8750	44	9.7	8.4	115%	6.9	82%
Gunsight Pass	SNOTEL	9820	39	10.5	8.3	127%	7.7	93%
Togwotee Pass	SNOTEL	9580	61	18.5	15.0	123%	13.3	89%
Basin Index						126%		91%
# of sites						4		4
HOBACK RIVER	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Blind Bull Sum	SNOTEL	8650	67	22.6	13.8	164%	14.1	102%
East Rim Divide	SNOTEL	7930	43	11.2	6.8	165%	6.2	91%
Granite Creek	SNOTEL	6770		16.1	10.6	152%	9.7	92%
Hoback GS	SC	6664	47	11.7	6.8	172%	5.4	79%
Snow King Mountain	SC	7660	43	12.5	8.8	142%	6.4	73%
Basin Index						158%		89%
# of sites						5		5
GREYS RIVER	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Blind Bull Sum	SNOTEL	8650	67	22.6	13.8	164%	14.1	102%

Appendix B

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Basinwide Summary: February 1, 2017

(Averages/Medians based on 1981-2010 reference period)

			Monthly Total Precipitation for January 2017					Water Year to Date Precipitation through January 2017				
Basin	Network	Elevation (ft)	Current (in)	Average (in)	% Average	Last Year (in)	Last Year % Avg	Current (in)	Average (in)	% Average	Last Year (in)	Last Year % Avg
SNAKE above Jackson Lake												
Grassy Lake	SNOTEL	7285	8.1	7	116%	7.8	111%	35.2	24.1	146%	25.5	106%
Lewis Lake Divide	SNOTEL	7850	7.7	6.3	122%	5.2	83%	31.9	23.3	137%	23	90%
Snake River Station	SNOTEL	6920	4.6	4.6	100%	4.2	91%	23.3	15.6	149%	18.7	107%
Thumb Divide	SNOTEL	7980	3.4	3.4	100%	1.9	56%	15.9	12.2	130%	10.4	85%
Two Ocean Plateau	SNOTEL	9240	5.1	4.7	100%	3	64%	24.3	17.4	140%	16.3	94%
Basin Index					111%		83%			141%		90%
# of sites					5		5			5		5
PACIFIC CREEK												
Base Camp	SNOTEL	7030	5.4	4.1	132%	3.5	85%	23.5	14.1	167%	14.4	102%
Two Ocean Plateau	SNOTEL	9240	5.1	4.7	100%	3	64%	24.3	17.4	140%	16.3	94%
Basin Index					119%		74%			152%		97%
# of sites					2		2			2		2
BUFFALO FORK												
Togwolee Pass	SNOTEL	9580	4.7	4.3	100%	4.2	98%	22.3	15.9	140%	15.7	90%
Younts Peak	SNOTEL	8350	4.2	2.7	156%	1.2	44%	17	10.5	162%	7.8	72%
Basin Index					127%		77%			149%		88%
# of sites					2		2			2		2
GROS VENTRE RIVER												
Gros Ventre Summit	SNOTEL	8750	3.5	2.1	167%	1.4	67%	14.1	8.3	170%	7.1	86%
Gunsight Pass	SNOTEL	9820	3.1	2.4	129%	1.5	63%	14.5	8.9	163%	8.8	90%
Togwolee Pass	SNOTEL	9580	4.7	4.3	100%	4.2	98%	22.3	15.9	140%	15.7	90%
Basin Index					126%		81%			154%		95%
# of sites					3		3			3		3
HOBACK RIVER												
Blind Bull Sum	SNOTEL	8650	8.3	3.5	237%	2.7	77%	23.3	12.9	181%	9.7	75%
East Rim Divide	SNOTEL	7950	3.8	2.2	173%	1.8	82%	13.4	7.7	174%	7	91%
Granite Creek	SNOTEL	8770	5.1	4.2	121%	3	71%	21	13.7	153%	11.9	87%
Basin Index					174%		76%			168%		83%
# of sites					3		3			3		3
GREYS RIVER												
Blind Bull Sum	SNOTEL	8650	8.3	3.5	237%	2.7	77%	23.3	12.9	181%	9.7	75%
Cottonwood Creek	SNOTEL	7870	6	4.7	128%	6	128%	22.7	15.9	143%	15.3	96%
Spring Creek Divide	SNOTEL	9000	5.5	4.5	122%	4.9	109%	23.2	15.4	151%	13.9	90%
Triple Peak	SNOTEL	8500	7.2	5.1	141%	4.5	88%	26.2	16.1	163%	15.1	94%
Willow Creek	SNOTEL	8380	8.8	6	147%	7.5	125%	31.1	21.7	143%	19.8	91%
Basin Index					150%		108%			154%		90%
# of sites					5		5			5		5
SALT RIVER												
Cottonwood Creek	SNOTEL	7870	6	4.7	128%	6	128%	22.7	15.9	143%	15.3	96%
Salt River Summit	SNOTEL	7760	6.6	3.1	213%	3	97%	17.9	10.7	167%	8.9	83%
Willow Creek	SNOTEL	8380	8.8	6	147%	7.5	125%	31.1	21.7	143%	19.8	91%
Basin Index					155%		120%			148%		91%
# of sites					3		3			3		3
SNAKE RIVER BASIN												
Alfon	COOP	6210	3.07	1.4	219%	1.57	112%	9.81	5.76	170%	4.54	79%
Alta 1 NW	COOP	6430	1.91	2.47	77%	3.12	126%	12.1	8.98	135%	9.38	105%
Base Camp	SNOTEL	7030	5.4	4.1	132%	3.5	85%	23.5	14.1	167%	14.4	102%
Bedford 3 SE	COOP	6430	4.82	2.1	230%	3.75	179%	15.04	7.75	194%	9.22	119%
Black Bear	SNOTEL	8170	6.5	7	93%	5.5	79%	31.8	25	127%	23.7	95%
Blind Bull Sum	SNOTEL	8650	8.3	3.5	237%	2.7	77%	23.3	12.9	181%	9.7	75%
Bondurant	COOP	6820	4.42	2.12	208%	1.82	86%	8.71	7.74	113%	7.06	91%
Cottonwood Creek	SNOTEL	7870	6	4.7	128%	6	128%	22.7	15.9	143%	15.3	96%
Danesh Ranch	COOP	6160	2.28	1.01	226%	0.6	59%	9.63	4.75	203%	4.48	94%
East Rim Divide	SNOTEL	7950	3.8	2.2	173%	1.8	82%	13.4	7.7	174%	7	91%
Grand Targhee	SNOTEL	9260	4.2	5.9	71%	6.9	117%	26.5	20.7	128%	21.4	103%
Granite Creek	SNOTEL	8770	5.1	4.2	121%	3	71%	21	13.7	153%	11.9	87%
Grassy Lake	SNOTEL	7285	8.1	7	116%	7.8	111%	35.2	24.1	146%	25.5	106%
Gros Ventre Summit	SNOTEL	8750	3.5	2.1	167%	1.4	67%	14.1	8.3	170%	7.1	86%
Gunsight Pass	SNOTEL	9820	3.1	2.4	129%	1.5	63%	14.5	8.9	163%	8.8	90%
Jackson	COOP	6230	2.88	1.23	234%	1.01	82%	12.04	5.66	213%	5.37	95%
Lewis Lake Divide	SNOTEL	7850	7.7	6.3	122%	5.2	83%	31.9	23.3	137%	23	90%
Loomis Park	SNOTEL	8240	5.4	3.1	174%	2.9	94%	20.3	11.3	180%	10.5	93%
Moose	COOP	6470	3.39	2.58	131%	3.02	117%	15.65	9.36	167%	11	118%
Moran 5 WNW	COOP	6790	3.87	2.86	135%	2.56	90%	16.81	10.43	161%	10.11	97%

Appendix C
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Report Created: 2/6/2017 5:40:06 AM

Basinwide Summary: February 1, 2017
(averages based on 1981-2010 reference period)

Reservoir Storage Summary for the end of January 2017

SNAKE RIVER BASIN										
	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average	
Grassy Lake	14.1	13.1	11.9	15.2	93%	86%	78%	118%	110%	
Jackson Lake	555.1	563.6	431.2	847.0	66%	67%	51%	129%	131%	
Pallsades Reservoir	638.3	793.6	911.2	1400.0	46%	57%	65%	70%	87%	
Basin-wide Total	1207.5	1370.3	1354.3	2262.2	53%	61%	60%	89%	101%	
# of reservoirs	3	3	3	3	3	3	3	3	3	
MADISON-GALLATIN RIVER BASINS										
	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average	
Ennis Lake	28.9	28.9	29.8	41.0	70%	70%	73%	97%	97%	
Hebgen Lake	305.2	310.9	279.0	378.8	81%	82%	74%	109%	111%	
Basin-wide Total	334.0	339.8	308.8	419.8	80%	81%	74%	108%	110%	
# of reservoirs	2	2	2	2	2	2	2	2	2	
WIND RIVER BASIN										
	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average	
Bull Lake	42.5	70.6	75.4	151.8	28%	47%	50%	56%	94%	
Boysen	590.6	545.7	506.0	596.0	99%	92%	85%	117%	108%	
Pilot Butte	26.7	23.8	23.2	31.6	84%	75%	73%	115%	102%	
Basin-wide Total	659.8	640.1	604.6	779.4	85%	82%	78%	109%	106%	
# of reservoirs	3	3	3	3	3	3	3	3	3	
BIGHORN RIVER BASIN										
	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average	
Boysen	590.6	545.7	506.0	596.0	99%	92%	85%	117%	108%	
Bighorn Lake	876.3	852.7	825.9	1356.0	65%	63%	61%	106%	103%	
Basin-wide Total	1466.9	1398.4	1331.9	1952.0	75%	72%	68%	110%	105%	
# of reservoirs	2	2	2	2	2	2	2	2	2	
SHOSHONE RIVER BASIN										
	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average	
Buffalo Bill	481.4	426.6	353.8	646.6	74%	66%	55%	136%	121%	
Basin-wide Total	481.4	426.6	353.8	646.6	74%	66%	55%	136%	121%	
# of reservoirs	1	1	1	1	1	1	1	1	1	
TONGUE RIVER BASIN										
	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average	
Tongue River Res	50.2	50.2	26.7	79.1	64%	63%	34%	188%	188%	
Basin-wide Total	50.2	50.2	26.7	79.1	64%	63%	34%	188%	188%	
# of reservoirs	1	1	1	1	1	1	1	1	1	
BELLE FOURCHE RIVER BASIN										
	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average	
Belle Fourche	102.4	141.8	110.5	178.4	57%	80%	62%	93%	128%	
Keyhole	143.4	166.7	87.9	193.8	74%	86%	45%	163%	190%	
Shadehill	35.7	50.9	42.8	81.4	44%	63%	53%	83%	119%	
Basin-wide Total	281.5	359.5	241.2	453.6	62%	79%	53%	117%	149%	
# of reservoirs	3	3	3	3	3	3	3	3	3	
CHEYENNE RIVER BASIN										
	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average	
Angostura	91.4	104.7	83.2	122.1	75%	86%	68%	110%	126%	
Deerfield	15.0	14.2	13.7	15.2	99%	93%	90%	110%	103%	
PackLa	52.7	51.1	45.5	55.0	96%	93%	83%	116%	112%	
Basin-wide Total	159.1	169.9	142.4	192.3	83%	88%	74%	112%	119%	
# of reservoirs	3	3	3	3	3	3	3	3	3	
UPPER NORTH PLATTE RIVER BASIN										
	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average	
Seminole	756.7	712.5	520.8	1016.7	74%	70%	51%	145%	137%	
Basin-wide Total	756.7	712.5	520.8	1016.7	74%	70%	51%	145%	137%	
# of reservoirs	1	1	1	1	1	1	1	1	1	
SWEETWATER RIVER BASIN										
	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average	
Pathfinder	912.4	847.5	559.0	1016.5	90%	83%	55%	163%	152%	
Basin-wide Total	912.4	847.5	559.0	1016.5	90%	83%	55%	163%	152%	
# of reservoirs	1	1	1	1	1	1	1	1	1	

Appendix D

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Report Created:
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Streamflow Forecast Summary: February 1, 2017 (averages based on 1981-2010 reference period)

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

SNAKE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Snake R nr Moran ²	APR-JUL	770	875	950	124%	1020	1120	765
	APR-SEP	845	965	1040	123%	1130	1240	845
Snake R ab Reservoir nr Alpine ²	APR-JUL	2700	2970	3160	146%	3340	3610	2170
	APR-SEP	3080	3400	3610	144%	3830	4140	2500
Snake R nr Irwin ²	APR-JUL	3610	4040	4330	144%	4620	5050	3010
	APR-SEP	4150	4650	4990	143%	5330	5830	3500
Snake R nr Heise ²	APR-JUL	3890	4340	4650	144%	4960	5410	3240
	APR-SEP	4490	5020	5380	142%	5740	6270	3780
Pacific Ck at Moran	APR-JUL	199	225	240	146%	255	280	164
	APR-SEP	210	235	250	145%	270	295	173
Buffalo Fk ab Lava Ck nr Moran	APR-JUL	310	350	380	136%	405	445	280
	APR-SEP	345	395	430	134%	465	510	320
Greys R ab Reservoir nr Alpine	APR-JUL	365	410	445	146%	475	525	305
	APR-SEP	425	480	515	143%	555	610	360
Salt R ab Reservoir nr Etna	APR-JUL	385	455	500	167%	550	620	300
	APR-SEP	465	545	600	162%	655	735	370

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

MADISON-GALLATIN RIVER BASINS	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Hebgen Reservoir Inflow	APR-JUL	285	335	365	99%	395	445	370
	APR-SEP	365	425	465	99%	505	565	470

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

YELLOWSTONE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Yellowstone R at Yellowstone Lake Outlet	APR-JUL	535	615	670	117%	725	805	575
	APR-SEP	715	820	895	116%	970	1080	770
Yellowstone R at Corwin Springs	APR-JUL	1400	1590	1710	108%	1830	2020	1590
	APR-SEP	1640	1860	2010	107%	2160	2380	1880
Yellowstone R at Livingston	APR-JUL	1570	1800	1960	109%	2120	2350	1800
	APR-SEP	1850	2120	2300	107%	2480	2750	2140

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

FEDERAL:

United States Department of the Interior (National Park Service) United States Department of Agriculture
(Forest Service)

United States Department of the Interior (Bureau of Reclamation)

United States Department of Commerce NOAA (National Weather Service)

State:

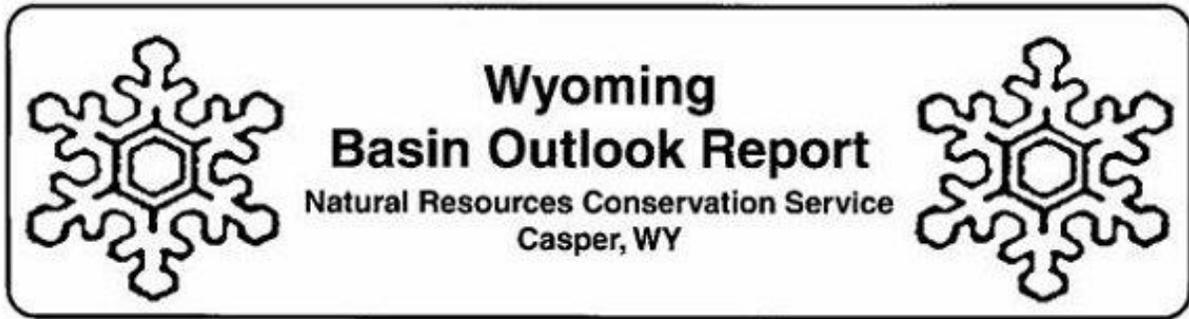
The Wyoming State Engineer's Office

The University of Wyoming

Local:

The City of Cheyenne

The City of Rawlins



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