



United States
Department of
Agriculture

Wyoming Basin Outlook Report

Mar. 1, 2017

Natural Resources Conservation Service



Gunsite Pass SNOTEL #944 ID 09F28S established 9/03/1998
(In the Teton Forest 37 miles SW of Dubois, 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 Mar. 1st at 133%. The year-to-date precipitation average for Wyoming basins is now at 135% varying from 72-199% of average. Monthly precipitation for the basins varied from 51-309% of average for an overall average of 171%. Basin reservoir levels for Wyoming vary from 0-188% of average for an overall average of 126%. Forecasted runoff varies from 50-226% of average across the Wyoming basins for an overall average of 167%.

Snowpack

Snow water equivalent (SWE), across Wyoming is above median for Mar. 1st at 133%. SWE in the Belle Fourche River Basin of Wyoming was the lowest at 64%. While SWE in the Sweetwater River Basin is the highest at 229% of median? *See Appendix A for further information.*

Precipitation

Last month's precipitation was above average across the Wyoming Mountains at 171% of average. Year to date precipitation is at 135% of average. The Wind River Basin had the highest precipitation for the month at 309% of average. The Cheyenne River Basin had the lowest precipitation amount at 51% 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	+165%	Upper North Platte River	+21%
Madison-Gallatin	+105%	Sweetwater River	+151%
Yellowstone River	+146%	Lower North Platte River	+47%
Wind River	+209%	Laramie River	+30%
Bighorn River	+36%	South Platte River	+20%
Shoshone River	+185%	Little Snake River	+20%
Powder River	-03%	Upper Green River	+190%
Tongue River	-04%	Lower Green River	+103%
Belle Fourche River	-24%	Upper Bear River	+99%
Cheyenne River	-49%		

See Appendix B for further information.

Streams

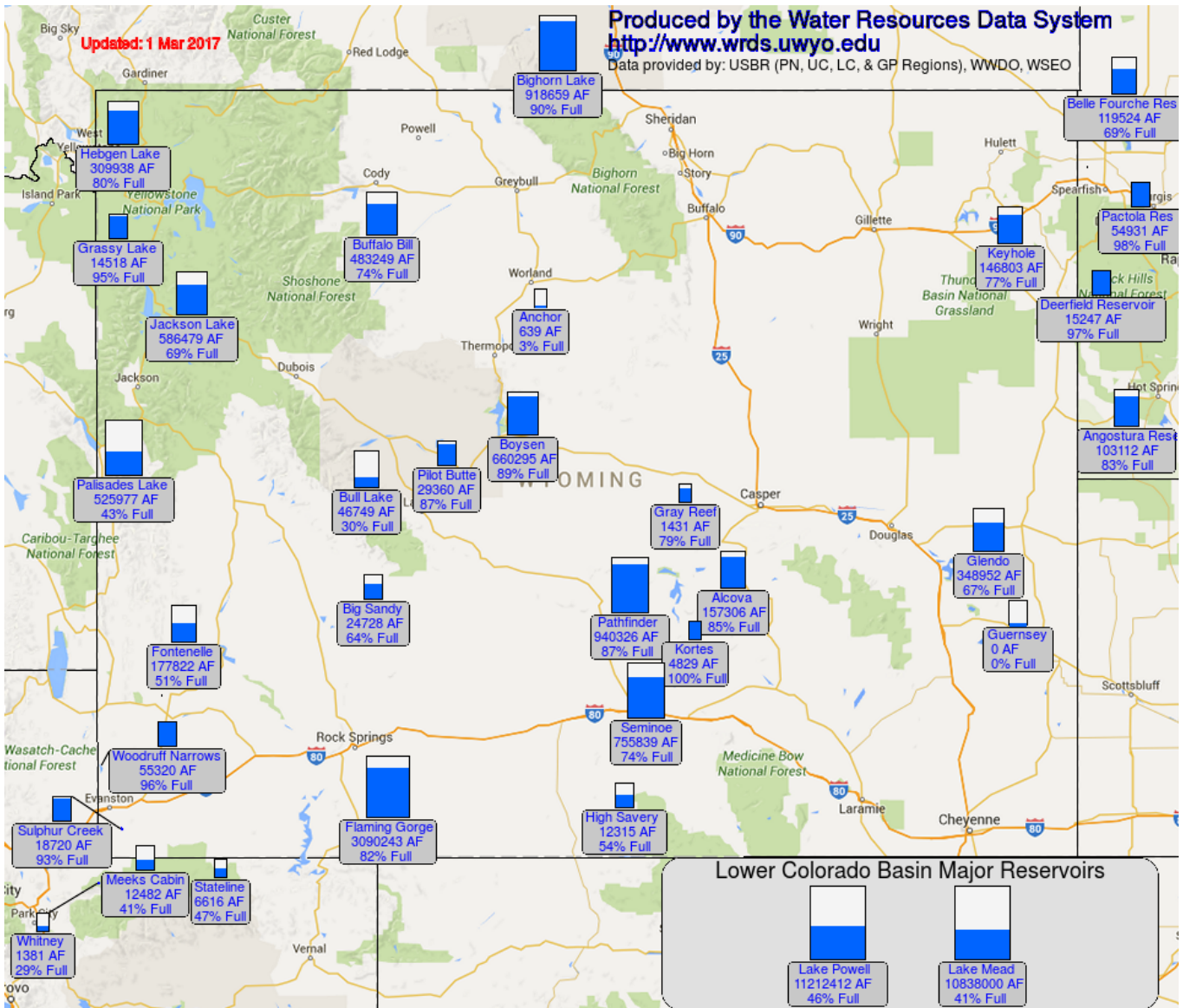
Stream flow yields for June thru September are forecast to be above average statewide over Wyoming at 167%. The Snake River, Madison, and Upper Yellowstone River Basins should yield about 172%, 121% and 135% of average, respectively. Yields from the Wind and Bighorn River Basins should be about 211% and 206% of average, respectively. Yields from the Shoshone and Clarks Fork River Basins of Wyoming should be about 176% and 151% of average, respectively. Yields from the Powder & Tongue River Basins should be about 107% and 95% of average, respectively. Yield for the Cheyenne River Basin should be about 50% of average. Yields for the Upper North Platte, Sweetwater, Lower North Platte, and Laramie Rivers of Wyoming should be about 136%, 220%, 162%, and 130% of average, respectively. Yields for the Little Snake, Green River, and Smith's Fork of Wyoming should be 116%, 226%, and 192% of average respectively. *See Appendix C for further information.*

Reservoirs

Reservoir storage is above average at 126% 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 Mar.1st, 2017

	Current (KAF)	Last Year	Average (KAF)	Capacity (KAF)	Current %	Last Year %	Average %	Current %	Last Year %
Alcova	157.2	156.6	155.0	184.3	85%	85%	84%	101%	101%
Bighorn Lake	876.3	852.7	825.9	1356.0	65%	63%	61%	106%	103%
Big Sandy	22.8	19.0	17.0	38.3	60%	50%	44%	134%	112%
Boysen	590.6	545.7	506.0	596.0	99%	92%	85%	117%	108%
Buffalo Bill	481.4	426.6	353.8	646.6	74%	66%	55%	136%	121%
Bull Lake	42.5	70.6	75.4	151.8	28%	47%	50%	56%	94%
Fontenelle	184.3	170.3	150.1	344.8	53%	49%	44%	123%	113%
Glendo	300.4	271.1	301.5	506.4	59%	54%	60%	100%	90%
Grassy Lake	14.1	13.1	11.9	15.2	93%	86%	78%	118%	110%
Guernsey	0.0	18.1	11.4	45.6	0%	40%	25%	0%	159%
High Savery	12.0	10.8	11.9	22.4	53%	48%	53%	101%	91%
Jackson Lake	555.1	563.6	431.2	847.0	66%	67%	51%	129%	131%
Kendrick Project		937.6		1201.7		78%			
Keyhole	143.4	166.7	87.9	193.8	74%	86%	45%	163%	190%
Meeks Cabin	11.2	6.9	11.9	32.5	34%	21%	37%	94%	58%
North Platte Project		751.0		1062.1		71%			
Pathfinder	912.4	847.5	559.0	1016.5	90%	83%	55%	163%	152%
Pilot Butte	25.6	23.8	23.2	31.6	81%	75%	73%	110%	102%
Seminole	756.7	712.5	520.8	1016.7	74%	70%	51%	145%	137%
Viva Naughton Res	30.3	30.2	30.1	42.4	71%	71%	71%	101%	100%
Wheatland #2	47.5	52.2	40.9	98.9	48%	53%	41%	116%	128%
Woodruff Narrows	49.6	41.1	29.0	57.3	87%	72%	51%	171%	142%
Basin-wide Total	5213.3	4999.0	4153.9	7244.1	72%	69%	57%	126%	120%
# of reservoirs	20	20	20	20	20	20	20	20	20



Snake River Basin

Snow

The Snake River Basin SWE above Palisades is 157% of median (93% last year). SWE in the Snake River Basin above Jackson Lake is 146% of median (91% last year). Pacific Creek Basin SWE is 174% of median (98% last year). Buffalo Fork SWE is 163% of median (99% last year). Gros Ventre River Basin SWE is 164% of median (92% last year). SWE in the Hoback River drainage is 197% of median (91% last year). SWE in the Greys river drainage is 169% of median (104% last year). In the Salt River Basin SWE is 148% of median (95% 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 265% of average (77% last year). Percentages range from 173-587% of average for the 29 reporting stations. Water-year-to-date precipitation is 173% of average for the Snake River Basin (93% last year). Year-to-date percentages range from 136-268% of average.

Reservoirs

Current reservoir storage is 97% of average for the three storage reservoirs in the basin. Grassy Lake storage is about 120% of average (14,500 ac-ft compared to 13,300 last year). Jackson Lake storage

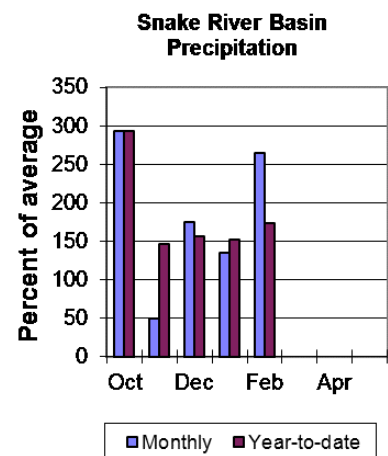
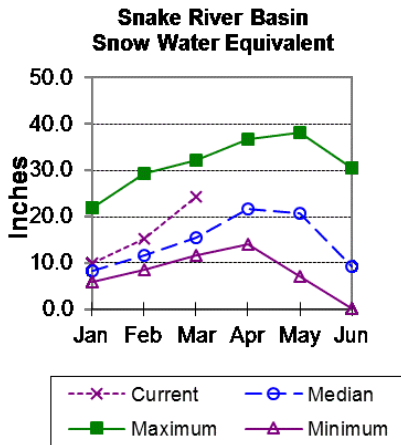
is 135% of average (586,500 ac-ft compared to 564,700 ac-ft last year). Palisades Reservoir storage is about 78% of average (726,000 ac-ft compared to 874,500 ac-ft last year).

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 1,240,000 ac-ft (147% of average). Snake River above Reservoir near Alpine will yield about 4,500,000 ac-ft (180% of average). The Snake near Irwin will yield about 6,040,000 ac-ft (173% of average). The Snake near Heise yield will be about 6,510,000 ac-ft (172% of average). Pacific Creek near Moran yield will be around 305,000 ac-ft (176% of average). Buffalo Fork above Lava near Moran yield will be around 510,000 ac-ft (159% of average). Greys River above Palisades Reservoir yield will be around 620,000 ac-ft (172% of average). Salt River near Etna yield will be around 705,000 ac-ft (191% of average).

See the following page for further information.



Snake River Basin Streamflow Forecasts - March 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	965	1060	1120	146%	1190	1280	765
	APR-SEP	1070	1170	1240	147%	1320	1420	845
Snake R ab Reservoir nr Alpine ²	APR-JUL	3520	3780	3950	182%	4120	4370	2170
	APR-SEP	4010	4300	4500	180%	4700	5000	2500
Snake R nr Irwin ²	APR-JUL	4600	4980	5240	174%	5510	5890	3010
	APR-SEP	5270	5730	6040	173%	6350	6800	3500
Snake R nr Helse ²	APR-JUL	4930	5340	5620	173%	5900	6310	3240
	APR-SEP	5690	6170	6510	172%	6840	7320	3780
Pacific Ck at Moran	APR-JUL	245	270	290	177%	310	340	164
	APR-SEP	255	285	305	176%	325	350	173
Buffalo Fk ab Lava Ck nr Moran	APR-JUL	380	420	445	159%	475	515	280
	APR-SEP	430	475	510	159%	540	590	320
Greys R ab Reservoir nr Alpine	APR-JUL	470	510	535	175%	565	605	305
	APR-SEP	540	590	620	172%	650	700	360
Salt R ab Reservoir nr Etna	APR-JUL	480	545	590	197%	635	700	300
	APR-SEP	575	650	705	191%	755	830	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

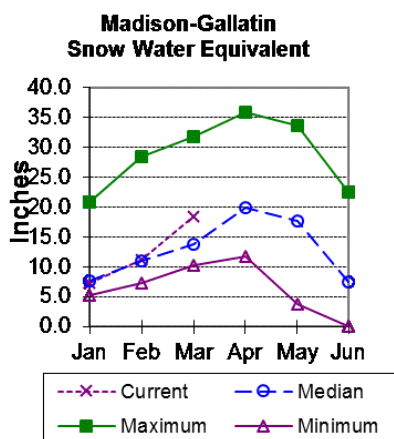
Reservoir Storage End of February, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Grassy Lake	14.5	13.3	12.1	15.2
Jackson Lake	586.5	564.7	434.7	847.0
Palisades Reservoir	726.0	874.5	925.7	1400.0
Basin-wide Total	1327.0	1452.5	1372.5	2262.2
# of reservoirs	3	3	3	3

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
SNAKE above Jackson Lake	9	146%	91%
PACIFIC CREEK	3	174%	98%
BUFFALO FORK	4	163%	99%
GROS VENTRE RIVER	4	164%	92%
HOBACK RIVER	5	197%	91%
GREYS RIVER	5	169%	104%
SALT RIVER	5	148%	95%
SNAKE RIVER BASIN	32	157%	93%

Madison-Gallatin Rivers Basin

Snow

In the Madison-Gallatin drainage, SWE is 133% of median (86% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*



Precipitation

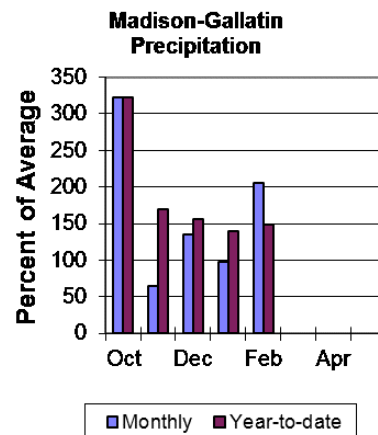
Last month precipitation in the Madison-Gallatin drainage was 205% of average (55% last year). The 5 reporting stations percentages range from 184-230% of average. Water-year-to-date precipitation is about 148% of average, which was 84% last year. Year to date percentage ranges from 138-170%.

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 302,600 ac-ft of water (80% of

capacity, 110% of average this year, 110% last year).

Detailed reservoir data shown below & in Appendix D.



Streamflow

The 50% exceedance forecast for April through September is above average for the basin. Hebgen Reservoir inflow will be about 570,000 ac-ft (121% of average). *See below for detailed runoff volumes.*

Data Current as of: 3/6/2017 11:55:55 AM

Madison-Gallatin River Basins Streamflow Forecasts - March 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	375	420	450	122%	480	525	370
	APR-SEP	480	535	570	121%	605	660	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

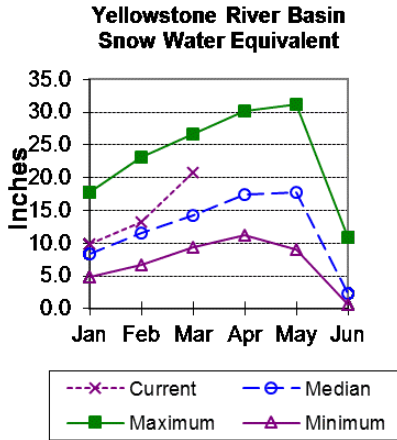
Reservoir Storage End of February, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Ennis Lake	28.9	28.9	29.8	41.0
Hebgen Lake	302.6	302.3	274.6	378.8
Basin-wide Total	331.5	331.1	304.4	419.8
# of reservoirs	2	2	2	2

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
MADISON-GALLATIN RIVER BASINS	7	132%	86%

Yellowstone River Basin

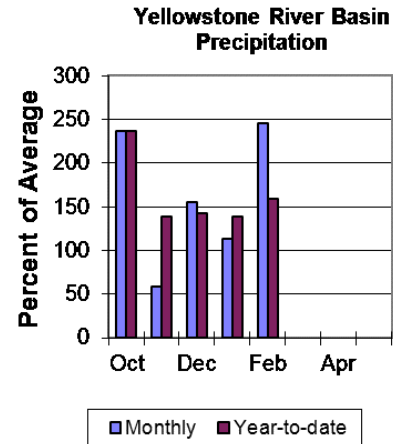
Snow

SWE in the Yellowstone River Basin is 144% of median (89% last year). SWE in the Yellowstone River Drainage in WY is 145% of median (89% last year). SWE in the Clarks Fork Drainage of the Yellowstone River Basin in Wyoming is 141% of median (91% 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 246% of average (84% last year). The 18 reporting stations percentages range from 47-470% of average. Water-year-to-date precipitation is 159% of average, which was 93% last year. Year to date percentages range from 67-242%.



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 1,100,000 ac-ft (143% of average). Yellowstone at Corwin Springs will yield around 2,520,000 ac-ft (134% of average). Yellowstone near Livingston will yield around 2,890,000 ac-ft (135% of average). Clarks Fork of the Yellowstone near Belfry will yield around 830,000 ac-ft (151% of average). *See the following for further information.*

Data Current as of: 3/6/2017 11:55:57 AM

Yellowstone River Basin Streamflow Forecasts - March 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	710	785	835	145%	885	960	575
	APR-SEP	930	1030	1100	143%	1180	1280	770
Yellowstone R at Corwin Springs	APR-JUL	1830	2020	2140	135%	2260	2450	1590
	APR-SEP	2150	2380	2520	134%	2670	2900	1880
Yellowstone R at Livingston	APR-JUL	2060	2300	2460	137%	2620	2850	1800
	APR-SEP	2420	2700	2890	135%	3080	3360	2140
Clarks Fk Yellowstone R nr Belfry ²	APR-JUL	630	705	755	148%	805	875	510
	APR-SEP	690	775	830	151%	885	965	550

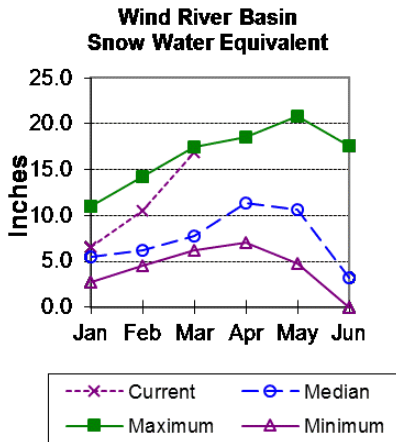
- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
YELLOWSTONE RIVER in WY	11	146%	89%
CLARKS FORK in WY	8	141%	91%

Wind River Basin

Snow

Wind River Basin above Boysen Reservoir SWE is 218% of median (82% last year). SWE in the Wind River above Dubois is 211% of median (86% last year). Little Wind River SWE above Riverton is 193% of median (72% last year), and Popo Agie drainage SWE is 233% of median (77% 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 309% of average (93% last year) from the 11 reporting stations. Last month's basin's precipitation varied from 168-444% of average. Water year-to-date precipitation is 182% of average and was 77% last year at this time. Year-to-date percentages range from 163-210% of average.

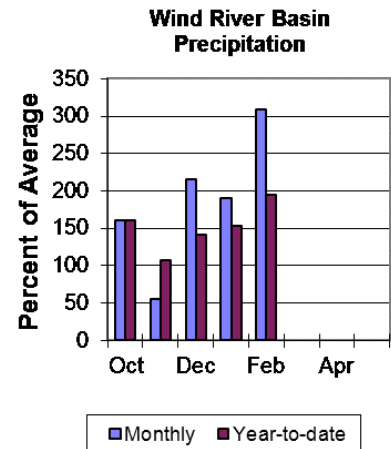
Reservoirs

Current storage in Bull Lake is 46,000 ac-ft (61% of average) (70,400 ac-ft or about 93% last year). Boysen Reservoir is storing (620,200 ac-ft) (125% of average) or (541,200 ac-ft last year at 109% of average). Pilot Butte is at 110% of average (25,600 ac-ft) (23,600 ac-ft or about 101% 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 122,000 ac-ft (133% of average). The Wind River above Bull Lake Creek will yield around 900,000 ac-ft (184% of average). Bull Lake Creek near Lenore will yield around 265,000 ac-ft (157% of average). Wind River at Riverton will yield around 1,020,000 ac-ft (185% of average). Little Popo Agie River near Lander should yield around 93,000 ac-ft (190% 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 565,000 ac-ft (192% of average). Boysen Reservoir inflow will yield around 1,400,000 ac-ft (211% of average). *See the following page for detailed runoff volumes.*



Wind River Basin Streamflow Forecasts - March 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	77	85	90	136%	96	103	66
	APR-SEP	107	116	122	133%	129	138	92
Wind R Ab Bull Lake Ck	APR-JUL	680	765	820	180%	880	965	455
	APR-SEP	745	840	900	184%	965	1060	490
Bull Lake Ck nr Lenore	APR-JUL	186	205	220	158%	235	255	139
	APR-SEP	225	250	265	157%	285	310	169
Wind R at Riverton	APR-JUL	715	810	875	184%	945	1040	475
	APR-SEP	835	940	1020	185%	1090	1200	550
Little Popo Agie R nr Lander	APR-JUL	65	76	84	200%	91	103	42
	APR-SEP	73	85	93	190%	101	113	49
Little Wind R nr Riverton	APR-JUL	340	445	515	191%	585	690	270
	APR-SEP	385	495	565	192%	640	750	295
Boysen Reservoir Inflow	APR-JUL	910	1130	1280	210%	1420	1640	610
	APR-SEP	1010	1250	1400	211%	1560	1790	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

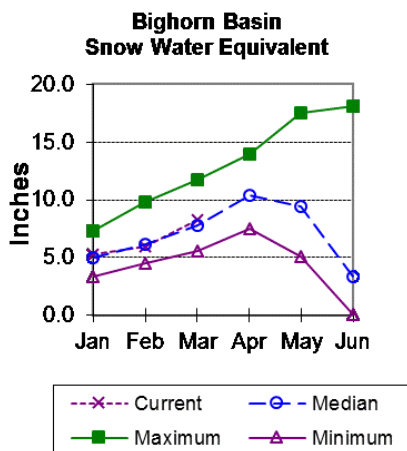
Reservoir Storage End of February, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Bull Lake	46.0	70.4	75.4	151.8
Boysen	620.2	541.2	495.8	596.0
Pilot Butte	25.6	23.6	23.3	31.6
Basin-wide Total	691.8	635.2	594.5	779.4
# of reservoirs	3	3	3	3

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
WIND above Dubois	6	211%	86%
LITTLE WIND	2	193%	72%
POPO AGIE	7	233%	77%
WIND RIVER BASIN	17	218%	82%

Bighorn River Basin

Snow

The Bighorn River Basin SWE above Bighorn Reservoir is 107% of median (75% last year). The Nowood River SWE is 80% of median (72% last year). The Greybull River SWE is 196% of median (94% last year). Shell Creek SWE is at 108% of median (73% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*

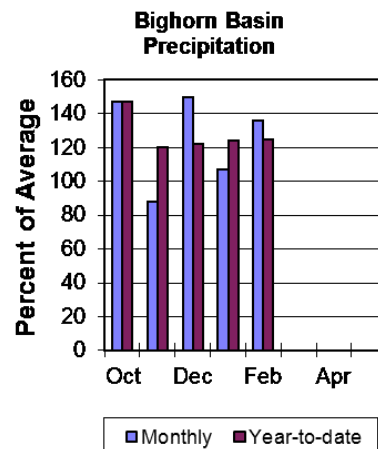


Precipitation

Last month's precipitation was 136% of average (100% last year). Sites ranged from 53-421% of average for the month. Year-to-date precipitation is 125% of average (72% last year). Year-to-date percentages, from the 18 reporting stations, range from 72-275%.

Reservoirs

Boysen Reservoir is currently storing 620,200 ac-ft (125% of average). Bighorn Lake is now at 900,900 ac-ft (106% of average). Boysen was at 545,700 ac-ft or about 113% of average last year and Big Horn Lake was at 836,500 ac-ft or about 105% last year.



Detailed reservoir data shown below and in Appendix D.

Streamflow

The 50% exceedance forecasts for the April through Sept. runoffs are above average. Boysen Reservoir inflow should yield 1,400,000 ac-ft (211% of average); the Greybull River near Meeteetse should yield around 265,000 ac-ft (150% of average); Shell Creek near Shell should yield around 68,000 ac-ft (103% of average) and the Bighorn River at Kane should yield around 1,860,000 ac-ft (206% of average). *See the following for detailed runoff.*

Data Current as of: 3/6/2017 11:56:01 AM

Bighorn River Basin Streamflow Forecasts - March 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	910	1130	1280	210%	1420	1640	610
	APR-SEP	1010	1250	1400	211%	1560	1790	665
Greybull R nr Meeteetse	APR-JUL	134	170	195	149%	220	255	131
	APR-SEP	194	235	265	150%	295	340	177
Shell Ck nr Shell	APR-JUL	40	50	56	102%	62	72	55
	APR-SEP	51	61	68	103%	75	85	66
Bighorn R at Kane	APR-JUL	1140	1460	1680	200%	1900	2230	840
	APR-SEP	1270	1620	1860	206%	2100	2450	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

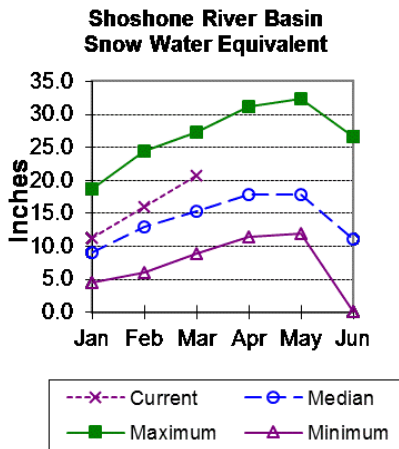
Reservoir Storage End of February, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Boysen	620.2	541.2	495.8	596.0
Bighorn Lake	900.9	836.5	797.1	1356.0
Basin-wide Total	1521.1	1377.7	1292.9	1952.0
# of reservoirs	2	2	2	2

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
NOWOOD RIVER	7	80%	72%
GREYBULL RIVER	2	196%	94%
SHELL CREEK	4	108%	73%
BIGHORN RIVER BASIN	14	107%	75%

Shoshone River Basin

Snow

Snowpack in this basin is above median for this time of year. Snow Water Equivalent (SWE) is 160% of median (93% last year) in the Shoshone River Basin. *See Appendix A at the end of this report for a detailed listing of snow course information.*

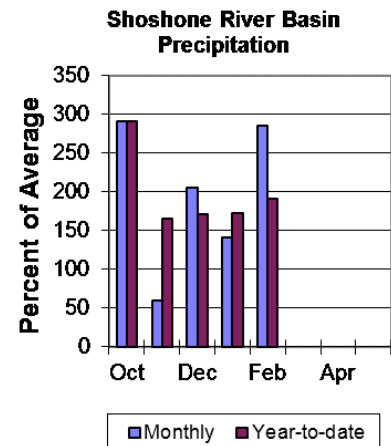


Precipitation

Precipitation for last month was 285% of average (105% last year). Monthly percentages range from 222-550% of average. The basin year-to-date precipitation is now 191% of average (101% last year). Year-to-date percentages range from 161-362% of average for the 9 reporting stations.

Reservoirs

Current storage in Buffalo Bill Reservoir is about 138 of average this year (122% last year) - the reservoir is at 75% of capacity. Currently, about 483,200 ac-ft are stored in the reservoir compared to 428,100 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 Sept. period are above average for the basin. The North Fork Shoshone River at Wapiti will yield around 790,000 ac-ft (153% of average). The South Fork of the Shoshone River near Valley will yield around 405,000 ac-ft (165% of average), and the South Fork above Buffalo Bill Reservoir runoff will yield around 400,000 ac-ft (200% of average). The Buffalo Bill Reservoir inflow will yield around 1,310,000 ac-ft (176% of average). *See the following for detailed runoff volumes.*

Data Current as of: 3/6/2017 11:56:03 AM

Shoshone River Basin Streamflow Forecasts - March 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	610	670	710	154%	755	815	460
	APR-SEP	680	745	790	153%	835	900	515
SF Shoshone R nr Valley	APR-JUL	305	330	350	163%	370	395	215
	APR-SEP	355	385	405	165%	425	455	245
SF Shoshone R ab Buffalo Bill Reservoir	APR-JUL	300	345	375	194%	405	450	193
	APR-SEP	320	370	400	200%	430	480	200
Buffalo Bill Reservoir Inflow ²	APR-JUL	1020	1120	1190	176%	1260	1360	675
	APR-SEP	1120	1230	1310	176%	1380	1490	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	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
End of February, 2017				
Buffalo Bill	483.2	428.1	350.7	646.6
Basin-wide Total	483.2	428.1	350.7	646.6
# of reservoirs	1	1	1	1

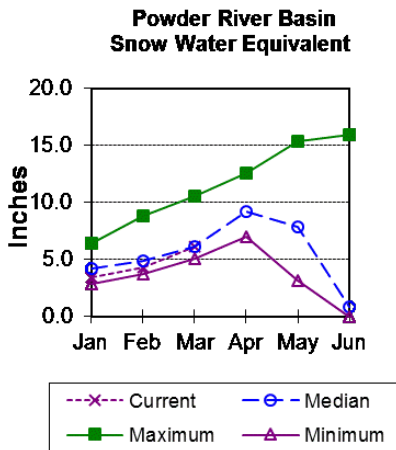
Watershed Snowpack Analysis	# of Sites	% Median	Last Year % Median
March 1, 2017			
SHOSHONE RIVER BASIN	5	160%	93%

Powder River Basin

Snow

Powder River SWE is 100% of median (72% last year). Upper Powder River drainage is 79% of median (73% last year). SWE in the Clear Creek drainage is 132% of median (72% last year).

Crazy Woman Creek drainage SWE is 97% of median (68% 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 97% of average (94% last year) for the nine reporting stations. Monthly percentages range from 54-159% of average. Year-to-date precipitation is 95% of average in the basin (62% last year).

Precipitation for the year ranges from 69-141% of average.

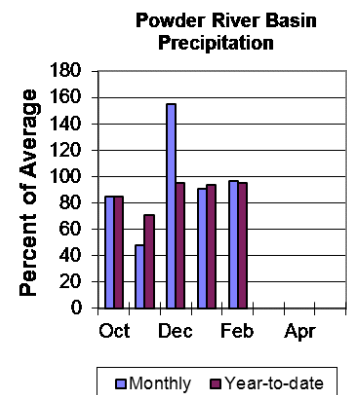
Reservoirs

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 12,600 ac-ft (74% of average). The North Fork of the Powder River near Hazelton should yield around 9,100 ac-ft (92% 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 210,000 ac-ft (107% of average). The Powder River near Locate will yield around 235,000 ac-ft (107% of average). *See the following for detailed runoff volumes.*

Data Current as of: 3/6/2017 11:56:05 AM



Powder River Basin Streamflow Forecasts - March 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	9.5	11.8	73%	14.1	17.6	16.1
	APR-SEP	6.6	10.2	12.6	74%	15	18.6	17
NF Powder R nr Hazelton	APR-JUL	4.5	6.8	8.4	92%	10	12.3	9.1
	APR-SEP	5.1	7.5	9.1	92%	10.7	13.1	9.9
Rock Ck nr Buffalo	APR-JUL	13.1	17.7	21	113%	24	28	18.6
	APR-SEP	16.5	21	25	114%	28	33	22
Piney Ck at Kearny	APR-JUL	18.7	37	49	111%	61	79	44
	APR-SEP	22	40	53	113%	66	84	47
Powder R at Moorehead	APR-JUL	45	131	190	107%	250	335	177
	APR-SEP	60	149	210	107%	270	360	196
Powder R nr Locate	APR-JUL	55	150	215	108%	280	375	199
	APR-SEP	68	168	235	107%	305	405	220

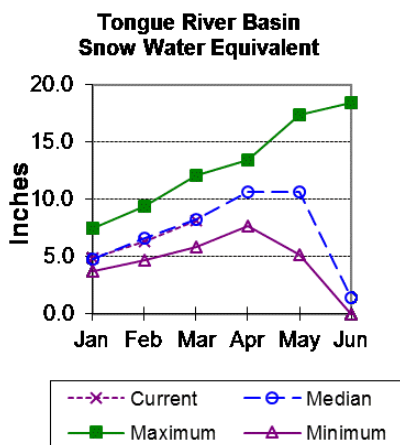
- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
UPPER POWDER RIVER	5	79%	73%
CLEAR CREEK	4	132%	72%
CRAZY WOMAN CREEK	3	97%	68%
POWDER RIVER BASIN	9	100%	72%

Tongue River Basin

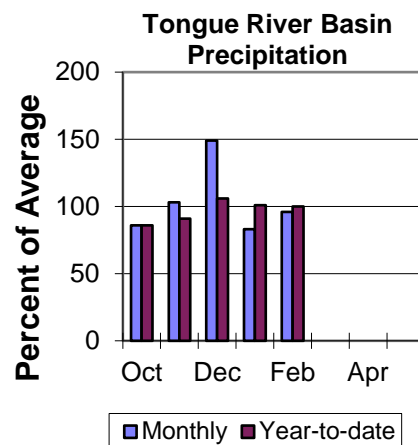
Snow

Upper Tongue River SWE is 99% of median (62% last year). The Goose Creek drainage SWE is 102% of median (58% 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 96% of average (106% last year) for 12 reporting stations. Monthly percentages range from 40-328% of average. Year-to-date precipitation is 105% of average in the basin (65% last year). Precipitation for the year ranges from 80-144% of average.



Reservoirs

The Tongue River Reservoir currently is storing 60,300 ac-ft, while last year's storage was 54,300 ac-ft. The Tongue River Reservoir is at 214% of

average for this time of year or 76% 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 93,000 ac-ft (95% of average). Big Goose Creek near Sheridan will yield around 52,000 ac-ft (96% of average)! Little Goose Creek near Bighorn will yield around 38,000 ac-ft (97% of average). The Tongue River Reservoir Inflow will be around 205,000 ac-ft (95% of average). *See below for detailed runoff volumes.*

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Tongue River Basin Streamflow Forecasts - March 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	50	68	81	94%	93	111	86
	APR-SEP	59	79	93	95%	106	126	98
Big Goose Ck nr Sheridan	APR-JUL	23	35	44	96%	53	65	46
	APR-SEP	30	43	52	96%	61	74	54
Little Goose Ck nr Bighorn	APR-JUL	16.6	24	30	97%	35	43	31
	APR-SEP	23	32	38	97%	44	52	39
Tongue River Reservoir Inflow	APR-JUL	72	137	181	94%	225	290	193
	APR-SEP	88	156	205	95%	250	320	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

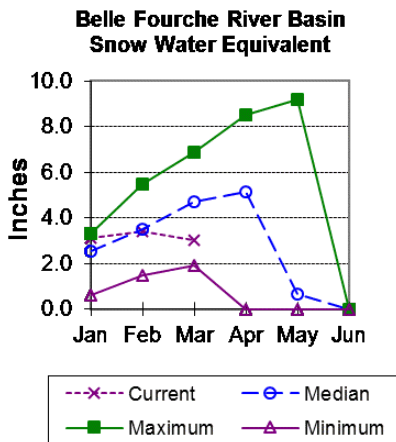
Reservoir Storage End of February, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Tongue River Res	60.3	54.3	28.2	79.1
Basin-wide Total	60.3	54.3	28.2	79.1
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
GOOSE CREEK	3	102%	58%
TONGUE RIVER BASIN	9	99%	62%

Belle Fourche River Basin

Snow

Belle Fourche River Basin SWE is 64% of median (84% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*



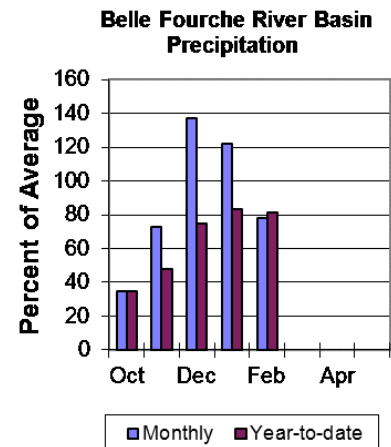
Precipitation

Precipitation for last month was 76% of average (148% last year) in the Black Hills for the 4 reporting stations. Year-to-date precipitation is 81% of average (93% last year).

Reservoirs

Belle Fourche Reservoir is storing 93% of average (116,400 ac-ft), or about 65% of capacity. Keyhole Reservoir is storing 162% of average (146,500 ac-ft), or about 76% of capacity. Shadehill Reservoir is storing 86% of average (38,800 ac-ft), or about 48% 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: 3/6/2017 11:56:10 AM

Belle Fourche River Basin - March 1, 2017

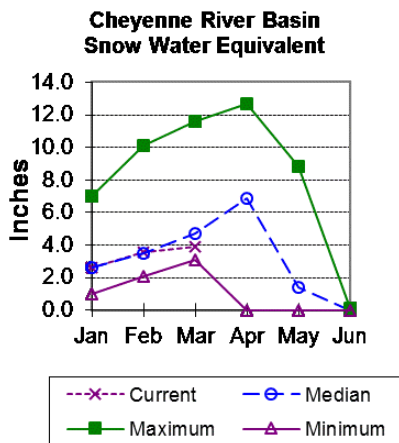
Reservoir Storage End of February, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Belle Fourche	116.4	141.9	119.4	178.4
Keyhole	146.5	168.1	90.6	193.8
Shadehill	38.8	52.7	45.1	81.4
Basin-wide Total	301.8	362.6	255.1	453.6
# of reservoirs	3	3	3	3

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
BELLE FOURCHE RIVER BASIN	6	64%	84%

Cheyenne River Basin

Snow

Cheyenne River Basin SWE is 82% of median (87% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*

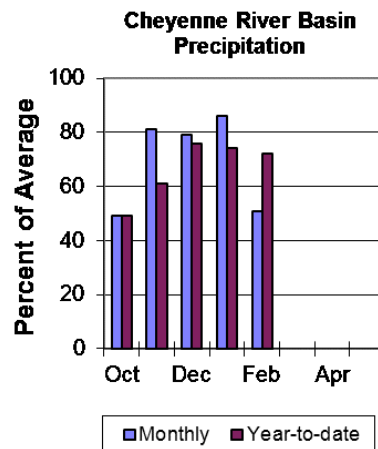


Precipitation

Precipitation for last month was 51% of average (142% last year) in the Black Hills. There were three reporting stations. Year-to-date precipitation is 72% of average (77% last year).

Reservoirs

Angostura is currently storing 111% of average (97,500 ac-ft), or about 80% of capacity. Deerfield reservoir is storing 108% of average (15,000 ac-ft), or about 99% of capacity. Pactola Reservoir is storing 118% of average (53,900 ac-ft), or about 98% 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 4,000 ac-ft (77% of average). Pactola Reservoir Inflow yield is around 10,500 ac-ft (48% of average). *See the following for detailed runoff volumes.*

Data Current as of: 3/6/2017 11:56:12 AM

Cheyenne River Basin Streamflow Forecasts - March 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	0.54	2.8	4.4	71%	5.9	8.2	6.2
	APR-JUL	1.9	3	4	77%	5	6.8	5.2
Pactola Reservoir Inflow	MAR-JUL	2	5.7	12.9	52%	20	31	25
	APR-JUL	2.8	6.8	10.5	48%	15	23	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

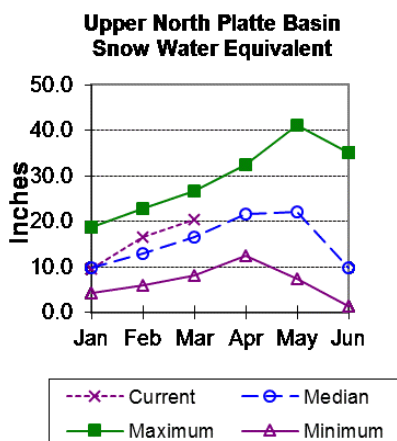
Reservoir Storage End of February, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Angostura	97.5	108.1	87.6	122.1
Deerfield	15.0	14.1	13.9	15.2
Pactola	53.9	52.5	45.6	55.0
Basin-wide Total	166.4	174.7	147.1	192.3
# of reservoirs	3	3	3	3

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
CHEYENNE RIVER BASIN	7	82%	87%

Upper North Platte River Basin

Snow

The Upper North Platte River Basin above Seminoe Reservoir SWE is 123% of median (91% last year). North Platte above Northgate SWE is 127% of median (88% last year). Encampment River SWE is 137% of median (91% last year). Brush Creek SWE is 106% of median (95% last year). Medicine Bow and Rock Creek SWE are 119% of median (88% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*



Precipitation

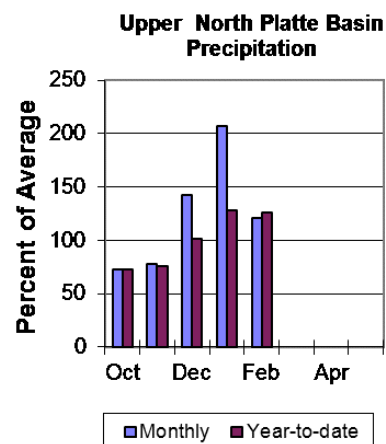
Eighteen reporting stations show last month's precipitation at 121% of average (64% last year). Precipitation varied from 86-329% of average last month. Total water-year-to-date precipitation is 126% of average for the basin (90% last year). Year-to-date percentages range from 76-190% of average.

Reservoirs

Seminoe Reservoir is storing 755,300 ac-ft or 74% of capacity. Seminoe Reservoir is at 153% of average and was at 141% 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 310,000 ac-ft (124% of average). The Encampment River near Encampment yield will be around 205,000 ac-ft (149% of average). Rock Creek near Arlington yield will be around 61,000 ac-ft (117% of average). Sweetwater River near Pathfinder will yield about 141,000 ac-ft (220% 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 - March 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)
North Platte R nr Northgate	APR-JUL	158	235	285	127%	335	410	225
	APR-SEP	169	255	310	124%	365	450	250
Encampment R nr Encampment ²	APR-JUL	133	167	190	147%	215	245	129
	APR-SEP	143	179	205	149%	225	265	138
Rock Ck nr Arlington	APR-JUL	40	50	57	116%	64	74	49
	APR-SEP	43	54	61	117%	69	80	52
Sweetwater R nr Alcova	APR-JUL	96	116	129	219%	142	162	59
	APR-SEP	106	127	141	220%	155	176	64
Seminoe Reservoir Inflow	APR-JUL	595	815	960	134%	1110	1330	715
	APR-SEP	665	890	1050	136%	1200	1430	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

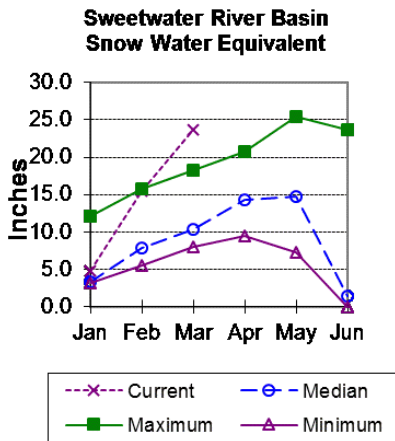
Reservoir Storage End of February, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Seminoe	755.3	696.8	493.1	1016.7
Basin-wide Total	755.3	696.8	493.1	1016.7
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
N PLATTE above Northgate	11	127%	88%
ENCAMPMENT RIVER	4	137%	91%
BRUSH CREEK	5	106%	95%
MEDICINE BOW & ROCK CREEKS	3	119%	88%
UPPER NORTH PLATTE RIVER BASIN	24	123%	91%

Sweetwater River Basin

Snow

Sweetwater River Basin SWE is 229% of median (73% last year). See *Appendix A at the end of this report for a detailed listing of snow course information.*



Precipitation

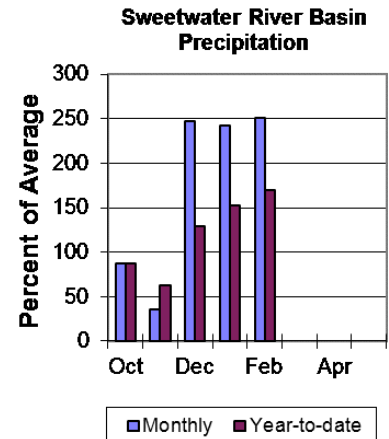
Last month's precipitation was 251% of average (75% last year) for the four reporting stations ranging from 134-368%. The water year-to-date precipitation for the basin is currently 170% of average (60% last year). Year-to-date percentages range from 102-186% of average.

Reservoirs

Reservoir storage is as follows: Pathfinder 940,300 ac-ft (93% of capacity, 161% of average, 149% 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 141,000 ac-ft (220% of average). See below for detailed information on projected runoff.



Data Current as of: 3/6/2017 11:56:16 AM

Sweetwater River Basin Streamflow Forecasts - March 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	96	116	129	219%	142	162	59
	APR-SEP	106	127	141	220%	155	176	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

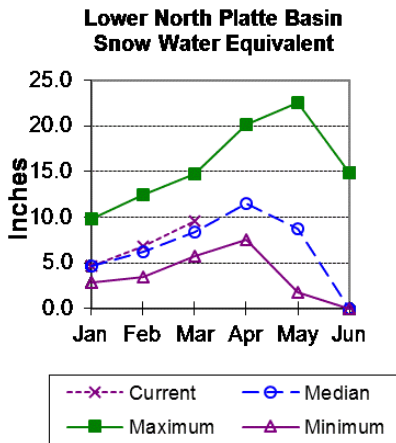
Reservoir Storage	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
End of February, 2017				
Pathfinder	940.3	865.7	582.4	1016.5
Basin-wide Total	940.3	865.7	582.4	1016.5
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis	# of Sites	% Median	Last Year % Median
March 1, 2017			
SWEETWATER RIVER BASIN	4	229%	73%

Lower North Platte River Basin

Snow

Lower North Platte River Basin SWE is 114% of median (95% last year). Deer and LaPrele Creeks SWE is 113% of median (95% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*



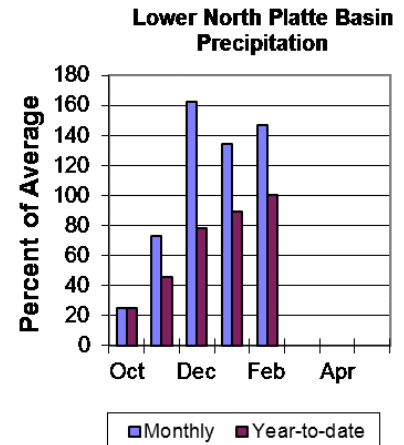
Precipitation

Last month's precipitation was 147% of average (80% last year). The seven reporting stations percentages for the month range from 86-354%. The water year-to-date precipitation for the basin is currently 100% of average (98% last year). Year-to-date percentages range from 78-131% of average.

Reservoirs

Reservoir storage is as follows: Alcova 157,200 ac-ft (101% of average) (85% of capacity); Glendo 341,900 ac-ft (100% of average) (68% of capacity); Guernsey 0 ac-ft (0% of average) (0% of

capacity); Pathfinder 940,300 ac-ft (161% of average) (93% of capacity) (149% 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 21,000 ac-ft (106% of average). North Platte River below Glendo Reservoir should yield around 1,360,000 ac-ft (160% of average), and below Guernsey Reservoir should yield around 1,380,000 ac-ft (162% of average). *See the following for more detailed information on projected runoff.*

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Lower North Platte River Basin Streamflow Forecasts - March 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	3.4	13.9	21	106%	28	39	19.9
	APR-SEP	3.3	13.8	21	106%	28	39	19.9
North Platte R bl Glendo Reservoir	APR-JUL	770	1070	1280	156%	1490	1790	820
	APR-SEP	835	1150	1360	160%	1570	1880	850
North Platte R bl Guernsey Reservoir	APR-JUL	775	1090	1300	159%	1510	1820	820
	APR-SEP	840	1160	1380	162%	1600	1920	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

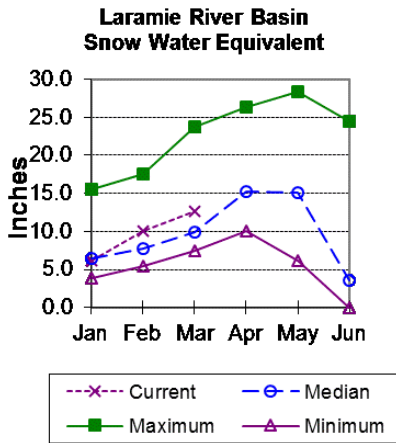
Reservoir Storage End of February, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Alcova	157.2	157.1	155.8	184.3
Glendo	341.9	319.1	342.9	506.4
Guernsey	0.0	21.3	15.2	45.6
Pathfinder	940.3	865.7	582.4	1016.5
Basin-wide Total	1439.4	1363.2	1096.3	1752.8
# of reservoirs	4	4	4	4

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
DEER & LaPRELE CREEKS	2	113%	95%
LOWER NORTH PLATTE RIVER BASIN	4	114%	95%

Laramie River Basin

Snow

SWE for the entire Laramie River Basin (above mouth entering North Platte) is 129% of median (107% last year). SWE for the Laramie River above Laramie is 124% of median (109% last year). SWE for the Little Laramie River is 130% of median (105% last year). **SWE total for the entire North Platte River Basin above Torrington is 130% of median (93% last year).** See Appendix A at the end of this report for a detailed listing of snow course information.



Precipitation

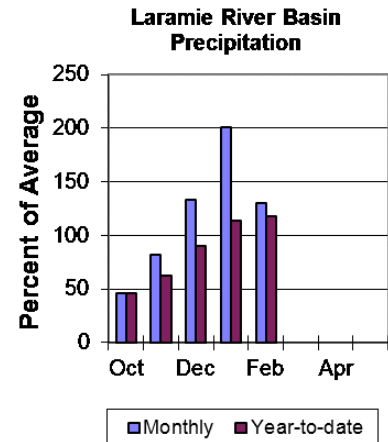
Last month's precipitation was 130% of average (89% last year). For the 12 reporting stations percentages for the month range from 90-484%. The water year-to-date precipitation for the basin is currently 118% of average (109% last year). Year-to-date percentages range from 95-164% of average.

Reservoirs

Reservoir storage is as follows: Wheatland #2 54,600 ac-ft (124% of average) (55% of capacity) was (133% 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 168,000 ac-ft (133% of average). The Little Laramie near Filmore should produce about 68,000 ac-ft (124% of average). See below for detailed information on projected runoff.



Laramie River Basin
Streamflow Forecasts - March 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	131	154	134%	177	210	115
	APR-SEP	106	143	168	133%	194	230	126
Little Laramie R nr Filmore	APR-JUL	41	54	63	124%	72	85	51
	APR-SEP	44	58	68	124%	78	92	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

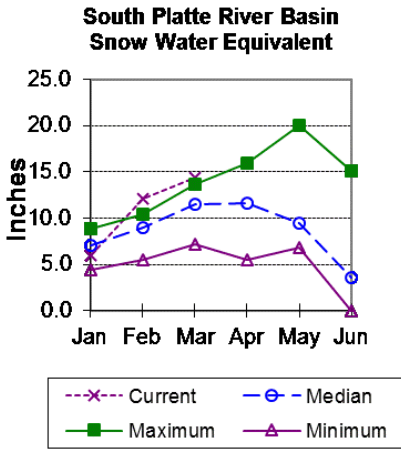
Reservoir Storage End of February, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Wheatland #2	54.6	58.4	43.9	98.9
Basin-wide Total	54.6	58.4	43.9	98.9
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
LARAMIE RIVER abv Laramie	7	124%	109%
LITTLE LARAMIE RIVER	5	130%	105%
LARAMIE RIVER BASIN	13	129%	107%
NORTH PLATTE TOTAL RIVER BASIN	39	130%	93%

South Platte River Basin (WY)

Snow

South Platte River Basin SWE in WY is 125% of median (94% last year). *See Appendix A at the end of this report for a detailed listing of snow course information.*



Precipitation

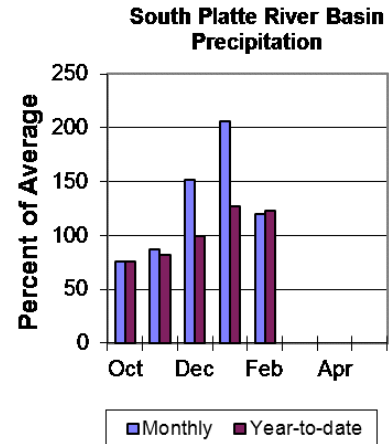
Last month's precipitation was 120% of average (79% last year) for the 5 reporting stations. The water year-to-date precipitation for the basin is currently 123 of average (103% last year). Year-to-date percentages range from 90-135% of average.

Reservoirs

No reservoir data for the basin.

Streamflow

There are no streamflow forecast points for the basin.



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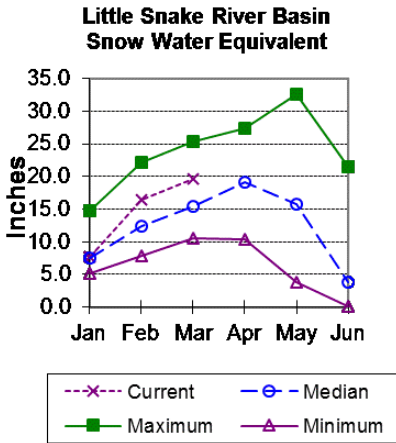
South Platte River Basin - March 1, 2017

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
SOUTH PLATTE RIVER BASIN	8	125%	94%

Little Snake River Basin

Snow

Little Snake River drainage SWE is 127% of median (92% last year). See *Appendix A at the end of this report for a detailed listing of snow course information.*

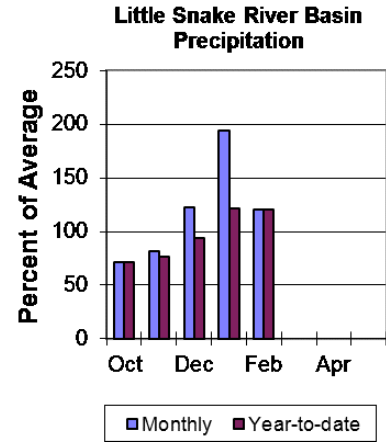


Precipitation

Precipitation across the basin was 120% of average (51% last year) for the eight reporting stations. Last month's precipitation ranged from 87-151% of average. The Little Snake River Basin water-year-to-date precipitation is currently 121% of average (85% last year). Year-to-date percentages range from 97-137% of average.

Reservoirs

High Savery Dam - 12,300 ac-ft (103% of average) (55% of capacity) (92% average last year). See below for detailed information on reservoirs and in *Appendix D.*



The 50% exceedance forecasts for the April through July period will be above average. The Little Snake River near Slater should yield around 183,000 ac-ft (117% 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 - March 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	133	162	183	117%	205	240	156
Little Snake R nr Dixon ²	APR-JUL	245	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 February, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
High Savery Reservoir	12.3	11.0	12.0	22.4
Basin-wide Total	12.3	11.0	12.0	22.4
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
LITTLE SNAKE RIVER BASIN	10	127%	92%

Upper Green River Basin

Snow

Upper Green River Basin above Fontenelle Reservoir SWE is 192% of median (95% last year). Green River Basin above Warren Bridge SWE is 195% of median (92% last year). West Side of Upper Green River Basin SWE is 196% of median (108% last year). New Fork River SWE is 183% of median

(75% last year). Big Sandy-Eden Valley Basin SWE is 189% of median (66% 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 290% of average last month (89% last year). Last month's precipitation varied from 182-458% of average. Water year-to-date precipitation is 199% of average (90% last year). Year to date percentages of average range from 196-287%.

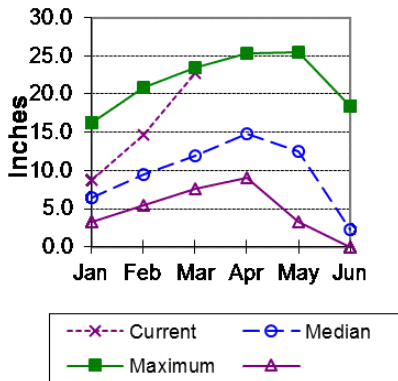
Reservoir

Storage in Big Sandy Reservoir is 24,000 ac-ft or 63% of capacity (136% of average) (111% last year). Fontenelle Reservoir is 177,300 ac-ft (51% of capacity) (139% of average) (117% last year). *Detailed reservoir data shown on the following page and in Appendix D.*

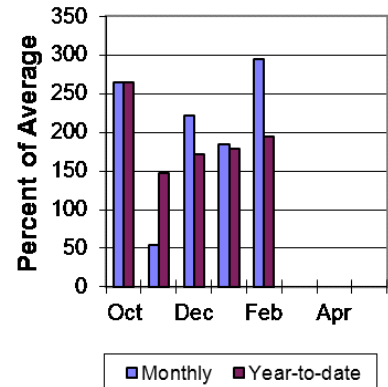
Streamflow

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 430,000 ac-ft (176% of average). Pine Creek above Fremont Lake yield will be about 145,000 ac-ft (148% of average). New Fork River near Big Piney yield will be about 705,000 ac-ft (199% of average). Fontenelle Reservoir Inflow is estimated to be around 1,640,000 ac-ft (226% of average), and Big Sandy near Farson yield will be around 91,000 ac-ft (175% of average). *See the following for a more detailed forecast.*

Upper Green River Basin Snow Water Equivalent



Upper Green River Basin Precipitation



Upper Green River Basin Streamflow Forecasts - March 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	370	405	430	176%	455	490	245
Pine Creek ab Fremont Lake	APR-JUL	129	139	145	148%	151	161	98
New Fork R nr Big Piney	APR-JUL	585	655	705	199%	755	825	355
Fontenelle Reservoir Inflow	APR-JUL	1380	1530	1640	226%	1750	1900	725
Big Sandy R nr Farson	APR-JUL	73	84	91	175%	98	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

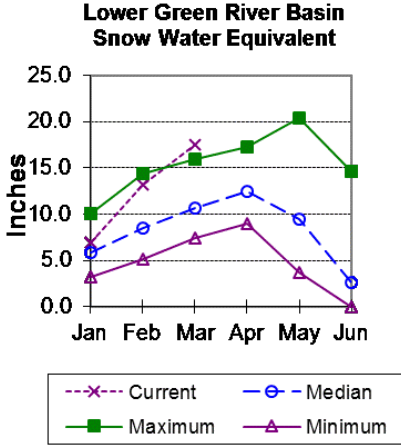
Reservoir Storage End of February, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Big Sandy	24.0	19.6	17.7	38.3
Fontenelle	177.3	149.0	127.6	344.8
Basin-wide Total	201.3	168.6	145.3	383.1
# of reservoirs	2	2	2	2

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
GREEN above Warren Bridge	5	195%	92%
UPPER GREEN - West Side	5	196%	108%
NEWFORK RIVER	3	183%	75%
BIG SANDY-EDEN VALLEY	2	189%	66%
GREEN above Fontenelle	15	192%	95%

Lower Green River Basin

Snow

Lower Green River Basin SWE is 164% of median (97% last year). Hams Fork drainage SWE is 182% of median (86% last year). Blacks Fork drainage SWE is 137% of median (106% last year). Henrys Fork SWE is 128% of median (135% last year). [SWE for the entire Green River Basin \(above Flaming Gorge\) is 183% of median \(96% last year\).](#) *See Appendix A at the end of this report for a detailed listing of snow course information.*

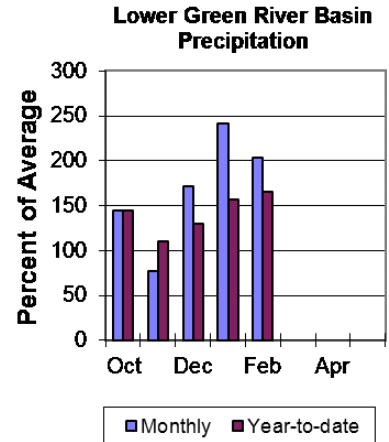


Precipitation

Precipitation for the 12 reporting stations during last month was 203% of average (61% last year). Precipitation ranged from 85-509% of average for the month. The basin year-to-date precipitation is currently 166% of average (90% last year). Year-to-date percentages range from 82-326% of average.

Reservoirs

Fontenelle Reservoir is currently storing 177,300 ac-ft; this is 139% of average (117% last year) (51% of capacity). Flaming Gorge is currently storing 3,090,200 ac-ft; this is 103% of average (104% last year) (82% of capacity). Viva Naughton is currently storing 28,600 ac-ft; this is 99% of average (103% last year) (68% 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 1,690,000 ac-ft (232% of average). The Blacks Fork near Robertson will yield about 122,000 ac-ft (142% of average). East Fork of Smiths Fork near Robertson will yield around 38,000 ac-ft (141% of average). Hams Fork below Pole Creek near Frontier will yield around 123,000 ac-ft (228% of average). The Hams Fork Inflow to Viva Naughton Reservoir will yield about 170,000 ac-ft (230% of average). The Flaming Gorge Reservoir inflow will be about 2,200,000 ac-ft (224% of average). *See the following page for more detailed information on projected runoff.*

Lower Green River Basin Streamflow Forecasts - March 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	1410	1580	1690	232%	1800	1970	730
Blacks Fk nr Robertson	APR-JUL	93	110	122	142%	134	151	86
EF of Smiths Fork nr Robertson ²	APR-JUL	25	33	38	141%	43	51	27
Hams Fk bl Pole Ck nr Frontier	APR-JUL	103	115	123	228%	131	143	54
Viva Naughton Reservoir Inflow	APR-JUL	136	156	170	230%	184	205	74
Flaming Gorge Reservoir Inflow ²	APR-JUL	1690	1960	2200	224%	2330	2600	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 February, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Fontenelle	177.3	149.0	127.6	344.8
Flaming Gorge Reservoir	3090.2	3127.5	3014.0	3749.0
Viva Naughton Res	28.6	29.7	28.8	42.4
Basin-wide Total	3296.2	3306.2	3170.4	4136.2
# of reservoirs	3	3	3	3

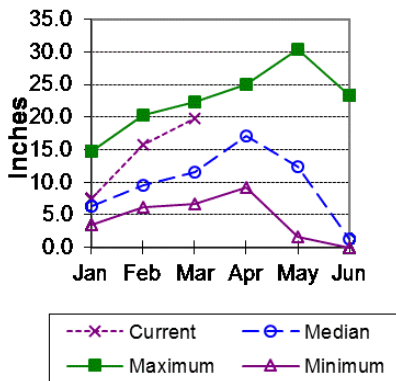
Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
HAMS FORK RIVER	4	182%	86%
BLACKS FORK	2	139%	106%
HENRYS FORK	2	129%	135%
LOWER GREEN RIVER BASIN	8	165%	97%
GREEN above FLAMING GORGE	22	183%	96%

Upper Bear River Basin

Snow

Upper Bear River Basin above the UT-WY state line SWE is 163% of median (91% last year). SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is 185% of median (87% last year). Upper Bear River Basin SWE above WY-UT state line is 172% of median (92% last year). *See Appendix A*

**Upper Bear River Basin
Snow Water Equivalent**

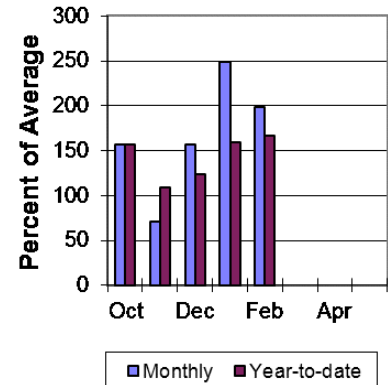


at the end of this report for a detailed listing of snow course information.

Precipitation

Precipitation for last month was 199% of average for the 9 reporting stations; this was 66% last year. The year-to-date precipitation for the basin is 167% of average; this was 90% last year. Year-to-date percentages range from 125-282% of average.

**Upper Bear River Basin
Precipitation**



average) (134% 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 210,000 ac-ft (171% of average). The Bear River above Reservoir near Woodruff should yield around 235,000 ac-ft (184% of average). The Smiths Fork River near Border Jct. will yield around 200,000 ac-ft (192% of average). *See below for detailed information on projected runoff.*

Data Current as of: 3/6/2017 11:56:31 AM

Upper Bear River Basin Streamflow Forecasts - March 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	154	175	190	170%	205	225	112
	APR-SEP	169	194	210	171%	225	250	123
Bear R ab Resv nr Woodruff	APR-JUL	140	188	220	182%	250	300	121
	APR-SEP	147	199	235	184%	270	325	128
Smiths Fk nr Border	APR-JUL	147	164	175	197%	186	205	89
	APR-SEP	168	187	200	192%	215	230	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 End of February, 2017	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Woodruff Narrows Reservoir	53.3	42.3	31.6	57.3
Basin-wide Total	53.3	42.3	31.6	57.3
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis March 1, 2017	# of Sites	% Median	Last Year % Median
UPPER BEAR RIVER in Utah	3	164%	91%
SMITHS & THOMAS FORKS	3	185%	87%
UPPER BEAR RIVER BASIN	8	172%	92%

Appendix A

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

Snowpack Summary for March 1, 2017

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	103	34.8	21.6	161%	18.5	86%
Glade Creek	SC	7040	77	25.2	18.6	135%	16.2	87%
Grassy Lake	SNOTEL	7265	109	32.6	26.2	124%	24.1	92%
Huckleberry Divide	SC	7300	73	24.1	18.8	143%	15.1	90%
Lewis Lake Divide	SNOTEL	7850	111	33.3	25.2	132%	22.7	90%
Moran	SC	6750	55	19.9	10.4	191%	11.7	113%
Snake River Station	SNOTEL	6920	68	19.7	14.2	139%	13.2	93%
Thumb Divide	SNOTEL	7980	69	19.8	12.3	161%	10.1	82%
Two Ocean Plateau	SNOTEL	9240		35.1	21.6	163%	20.2	94%
Basin Index						146%		91%
# 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	82	24.2	13.5	179%	12.8	95%
Moran	SC	6750	55	19.9	10.4	191%	11.7	113%
Two Ocean Plateau	SNOTEL	9240		35.1	21.6	163%	20.2	94%
Basin Index						174%		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	26	6.2	6.0	103%	6.0	100%
Togwotee Pass	SNOTEL	9580	91	27.7	17.7	156%	16.6	94%
Turpin Meadows	SC	6900	50	14.8	8.2	180%	10.0	122%
Younts Peak	SNOTEL	8350	69	22.5	11.7	192%	10.5	90%
Basin Index						163%		99%
# of sites							4	4
GROS VENTRE RIVER	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median
Elbo Ranch	SC	7100	52	14.0	8.6	163%	8.2	95%
Gros Ventre Summit	SNOTEL	8750	67	16.9	9.7	174%	8.2	85%
Gunsight Pass	SNOTEL	9820	67	17.7	10.6	167%	10.1	95%
Togwotee Pass	SNOTEL	9580	91	27.7	17.7	156%	16.6	94%
Basin Index						164%		92%
# 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	104	36.5	17.9	204%	19.3	108%
East Rim Divide	SNOTEL	7930	61	17.3	8.1	214%	8.2	101%
Granite Creek	SNOTEL	6770	108	27.9	13.8	202%	12.2	88%
Hoback GS	SC	6664	59	17.6	8.2	215%	6.9	84%
Snow King Mountain	SC	7660	57	17.2	11.2	154%	7.1	83%
Basin Index						197%		91%
# 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	104	36.5	17.9	204%	19.3	108%

Appendix B

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Basinwide Summary: March 1, 2017 (Averages/Medians based on 1981-2010 reference period)												
Monthly Total Precipitation for February 2017						Water Year to Date Precipitation through February 2017						
SNAKE above Jackson Lake	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
Grassy Lake	SNOTEL	7265	9.3	5.3	175%	3	57%	44.5	29.4	151%	28.5	97%
Lewis Lake Divide	SNOTEL	7850	11	5.5	200%	2.9	53%	42.9	28.8	149%	25.9	90%
Snake River Station	SNOTEL	8920	7.1	3	237%	2.1	70%	30.8	18.6	165%	18.8	101%
Thumb Divide	SNOTEL	7980	8	2.4	333%	1.2	50%	23.9	14.6	164%	11.6	79%
Two Ocean Plateau	SNOTEL	9240	9.5	4.2	226%	3.2	76%	34.2	21.6	158%	19.5	90%
Basin Index					220%		61%			156%		92%
# of sites					5		5			5		5
PACIFIC CREEK												
Base Camp	SNOTEL	7030	8.7	3.1	281%	1.9	61%	32.2	17.2	187%	16.3	95%
Two Ocean Plateau	SNOTEL	9240	9.5	4.2	226%	3.2	76%	34.2	21.6	158%	19.5	90%
Basin Index					249%		70%			171%		92%
# of sites					2		2			2		2
BUFFALO FORK												
Togwolee Pass	SNOTEL	9580	9.3	3.5	266%	3.7	108%	31.6	19.4	163%	19.4	100%
Younts Peak	SNOTEL	8350	8.3	2.1	395%	2.5	119%	25.3	12.6	201%	10.1	80%
Basin Index					314%		111%			178%		92%
# of sites					2		2			2		2
GROS VENTRE RIVER												
Gros Ventre Summit	SNOTEL	8750	6.8	1.8	378%	1.1	61%	20.9	10.1	207%	8.2	81%
Gunsight Pass	SNOTEL	9820	6.1	2	305%	2.2	110%	20.6	10.9	189%	11	101%
Togwolee Pass	SNOTEL	9580	9.3	3.5	266%	3.7	108%	31.6	19.4	163%	19.4	100%
Basin Index					304%		96%			181%		96%
# of sites					3		3			3		3
HOBACK RIVER												
Blind Bull Sum	SNOTEL	8650	14.2	3.1	458%	2.9	94%	37.5	16	234%	12.6	79%
East Rim Divide	SNOTEL	7930	5.4	1.9	284%	1.4	74%	18.8	9.6	196%	8.4	88%
Granite Creek	SNOTEL	6770	9.9	2.8	354%	2.7	96%	30.9	16.5	187%	14.6	88%
Basin Index					378%		90%			207%		85%
# of sites					3		3			3		3
GREYS RIVER												
Blind Bull Sum	SNOTEL	8650	14.2	3.1	458%	2.9	94%	37.5	16	234%	12.6	79%
Cottonwood Creek	SNOTEL	7670	8.8	3.7	238%	4.5	122%	31.5	19.6	161%	19.8	101%
Spring Creek Divide	SNOTEL	9000	10.6	3.9	272%	4.5	115%	33.8	19.3	175%	18.4	95%
Triple Peak	SNOTEL	8500	8.3	4.1	202%	5.6	137%	34.5	20.2	171%	20.7	102%
Willow Creek	SNOTEL	8380	10.5	5.1	206%	4.9	96%	41.6	26.8	155%	24.7	92%
Basin Index					263%		113%			176%		94%
# of sites					5		5			5		5
SALT RIVER												
Cottonwood Creek	SNOTEL	7670	8.8	3.7	238%	4.5	122%	31.5	19.6	161%	19.8	101%
Salt River Summit	SNOTEL	7780	6.7	2.7	248%	2.2	81%	24.6	13.4	184%	11.1	83%
Willow Creek	SNOTEL	8380	10.5	5.1	206%	4.9	96%	41.6	26.8	155%	24.7	92%
Basin Index					226%		101%			163%		93%
# of sites					3		3			3		3
SNAKE RIVER BASIN												
Afton	COOP	8210	3	1.09	275%	0.84	77%	12.81	6.85	187%	5.38	79%
Alta 1 NW	COOP	8430	3.23	1.87	173%	1.12	60%	15.33	10.83	142%	10.5	97%
Base Camp	SNOTEL	7030	8.7	3.1	281%	1.9	61%	32.2	17.2	187%	16.3	95%
Bedford 3 SE	COOP	8430	5.28	1.76	299%	1.52	86%	20.3	9.51	213%	10.74	113%
Black Bear	SNOTEL	8170	12.4	5.8	214%	2.8	48%	44.2	30.8	144%	26.5	88%
Blind Bull Sum	SNOTEL	8650	14.2	3.1	458%	2.9	94%	37.5	16	234%	12.6	79%
Bondurant	COOP	8620		1.52		0.81	53%		9.26		7.87	85%
Cottonwood Creek	SNOTEL	7670	8.8	3.7	238%	4.5	122%	31.5	19.6	161%	19.8	101%
Darwin Ranch	COOP	8180	4.83	0.94	514%	0.53	56%	14.47	5.69	254%	5.01	88%
East Rim Divide	SNOTEL	7930	5.4	1.9	284%	1.4	74%	18.8	9.6	196%	8.4	88%
Grand Targhee	SNOTEL	9280	7.2	4.1	176%	2.4	59%	33.7	24.8	136%	23.8	96%
Granite Creek	SNOTEL	6770	9.9	2.8	354%	2.7	96%	30.9	16.5	187%	14.6	88%
Grassy Lake	SNOTEL	7265	9.3	5.3	175%	3	57%	44.5	29.4	151%	28.5	97%
Gros Ventre Summit	SNOTEL	8750	6.8	1.8	378%	1.1	61%	20.9	10.1	207%	8.2	81%
Gunsight Pass	SNOTEL	9820	6.1	2	305%	2.2	110%	20.6	10.9	189%	11	101%
Jackson	COOP	8230	5.75	0.98	587%	0.5	51%	17.79	6.64	268%	5.87	88%
Lewis Lake Divide	SNOTEL	7850	11	5.5	200%	2.9	53%	42.9	28.8	149%	25.9	90%
Loomis Park	SNOTEL	8240	7.6	2.7	281%	2.6	96%	27.9	14	199%	13.1	94%
Moose	COOP	8470	5.88	1.82	323%	0.83	46%	21.53	11.18	193%	11.83	106%

Appendix C

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Streamflow Forecast Summary: March 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	965	1060	1120	146%	1190	1280	765
	APR-SEP	1070	1170	1240	147%	1320	1420	845
Snake R ab Reservoir nr Alpine ²								
	APR-JUL	3520	3780	3950	182%	4120	4370	2170
	APR-SEP	4010	4300	4500	180%	4700	5000	2500
Snake R nr Irwin ²								
	APR-JUL	4800	4980	5240	174%	5510	5890	3010
	APR-SEP	5270	5730	6040	173%	6350	6800	3500
Snake R nr Heise ²								
	APR-JUL	4930	5340	5620	173%	5900	6310	3240
	APR-SEP	5890	6170	6510	172%	6840	7320	3780
Pacific Ck at Moran								
	APR-JUL	245	270	290	177%	310	340	164
	APR-SEP	255	285	305	176%	325	350	173
Buffalo Fk ab Lava Ck nr Moran								
	APR-JUL	380	420	445	159%	475	515	280
	APR-SEP	430	475	510	159%	540	590	320
Greys R ab Reservoir nr Alpine								
	APR-JUL	470	510	535	175%	565	605	305
	APR-SEP	540	590	620	172%	650	700	360
Salt R ab Reservoir nr Etna								
	APR-JUL	480	545	590	197%	635	700	300
	APR-SEP	575	650	705	191%	755	830	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	375	420	450	122%	480	525	370
	APR-SEP	480	535	570	121%	605	660	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	710	785	835	145%	885	960	575
	APR-SEP	930	1030	1100	143%	1180	1280	770
Yellowstone R at Corwin Springs								
	APR-JUL	1830	2020	2140	135%	2260	2450	1590
	APR-SEP	2150	2380	2520	134%	2670	2900	1880
Yellowstone R at Livingston								
	APR-JUL	2060	2300	2460	137%	2620	2850	1800
	APR-SEP	2420	2700	2890	135%	3080	3360	2140

Appendix D

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

Reservoir Storage Summary for the end of February 2017
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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	14.5	13.3	12.1	15.2	95%	88%	80%	120%	110%
Jackson Lake	588.5	584.7	434.7	847.0	69%	67%	51%	135%	130%
Palisades Reservoir	728.0	874.5	925.7	1400.0	52%	62%	66%	78%	94%
Basin-wide Total	1327.0	1462.5	1372.5	2262.2	59%	64%	61%	97%	106%
# 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	302.6	302.3	274.6	378.8	80%	80%	72%	110%	110%
Basin-wide Total	331.5	331.1	304.4	419.8	79%	79%	73%	109%	109%
# 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	48.0	70.4	75.4	151.8	30%	46%	50%	61%	93%
Boysen	820.2	541.2	495.8	598.0	104%	91%	83%	125%	109%
Pilot Butte	25.6	23.6	23.3	31.6	81%	75%	74%	110%	101%
Basin-wide Total	893.8	635.2	594.5	779.4	89%	82%	76%	118%	107%
# 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	820.2	541.2	495.8	598.0	104%	91%	83%	125%	109%
Bighorn Lake	900.9	836.5	797.1	1356.0	66%	62%	59%	113%	105%
Basin-wide Total	1521.1	1377.7	1292.9	1954.0	78%	71%	66%	118%	107%
# 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	483.2	428.1	350.7	646.6	75%	66%	54%	138%	122%
Basin-wide Total	483.2	428.1	350.7	646.6	75%	66%	54%	138%	122%
# 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	60.3	54.3	28.2	79.1	76%	69%	36%	214%	192%
Basin-wide Total	60.3	54.3	28.2	79.1	76%	69%	36%	214%	192%
# 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	116.4	141.9	119.4	178.4	65%	80%	67%	98%	119%
Keyhole	146.5	188.1	90.6	193.8	76%	87%	47%	162%	185%
Shadehill	38.8	52.7	45.1	81.4	48%	65%	55%	86%	117%
Basin-wide Total	301.8	382.6	255.1	453.6	67%	80%	56%	118%	142%
# 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	97.5	108.1	87.6	122.1	80%	89%	72%	111%	123%
Deerfield	15.0	14.1	13.9	15.2	99%	93%	91%	108%	101%
Pactola	53.9	52.5	45.6	55.0	98%	95%	83%	118%	115%
Basin-wide Total	166.4	174.7	147.1	192.3	87%	91%	76%	113%	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	755.3	696.8	493.1	1016.7	74%	69%	49%	153%	141%
Basin-wide Total	755.3	696.8	493.1	1016.7	74%	69%	49%	153%	141%
# of reservoirs	1	1	1	1	1	1	1	1	1

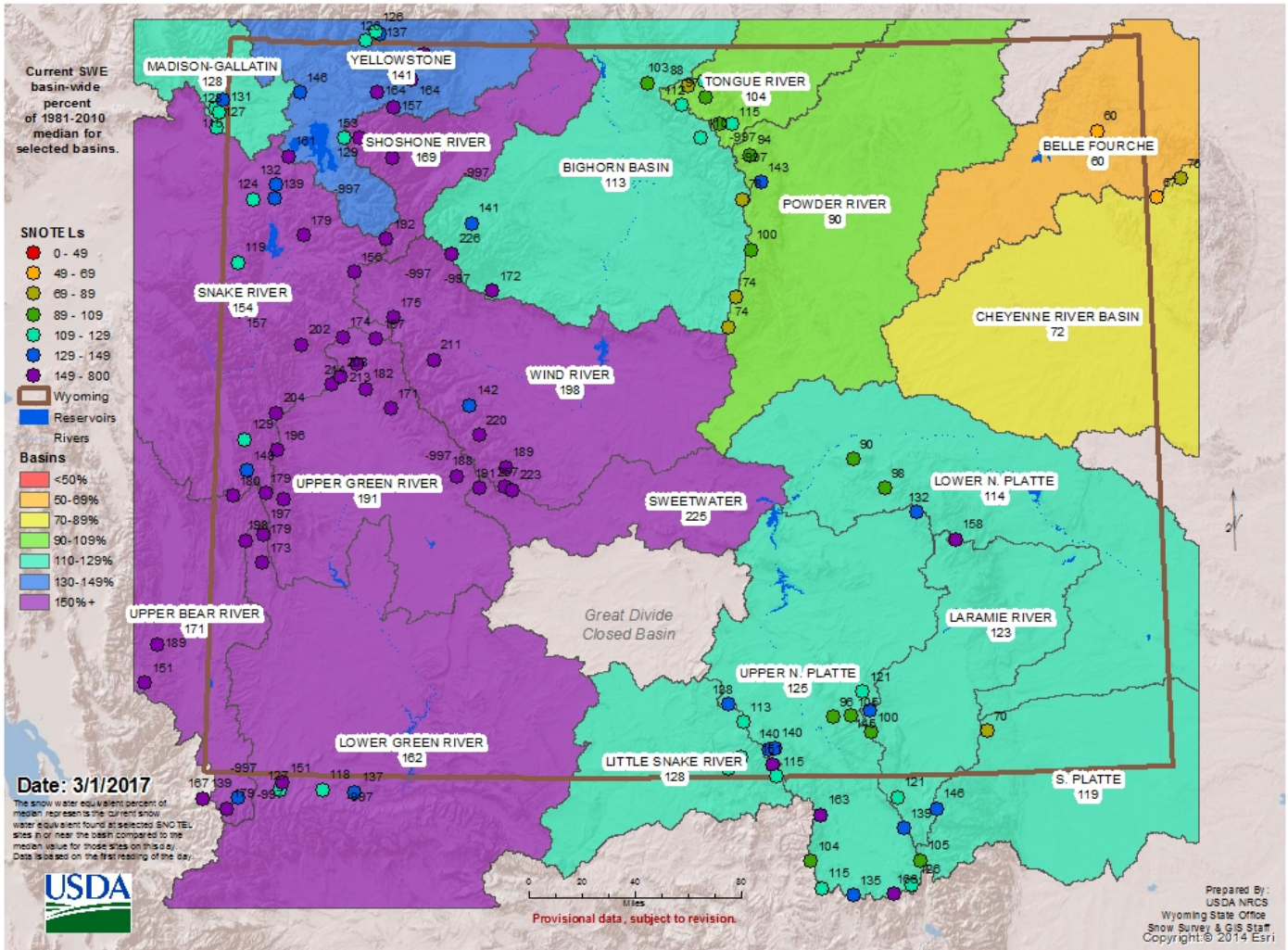
SWEETWATER RIVER BASIN	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Pathfinder	940.3	865.7	582.4	1016.5	93%	85%	57%	161%	149%
Basin-wide Total	940.3	865.7	582.4	1016.5	93%	85%	57%	161%	149%
# of reservoirs	1	1	1	1	1	1	1	1	1

(Chief)
U.S.D.A.
Natural Resources Conservation Service
Washington D.C.

Astrid Martinez
State Con.
N R C S
Casper, Wyoming

Mar. 1st, 2017 Statewide SWE @ 133% of median

Wyoming SNOTEL Current Snow Water Equivalent (SWE) % of Median



The above map is only for SNOTELS and does not include snow courses. The Outlook Report includes the snow courses.

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

FEDERAL:

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

United States Department of the Interior (Bureau of Reclamation)

United States Department of Commerce NOAA (National Weather Service)

State:

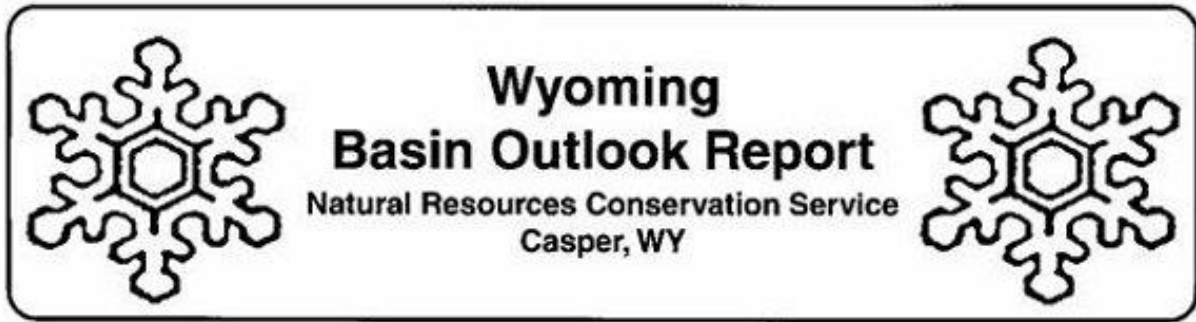
The Wyoming State Engineer's Office

The University of Wyoming

Local:

The City of Cheyenne

The City of Rawlins



Wyoming
Basin Outlook Report
Natural Resources Conservation Service
Casper, WY



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