

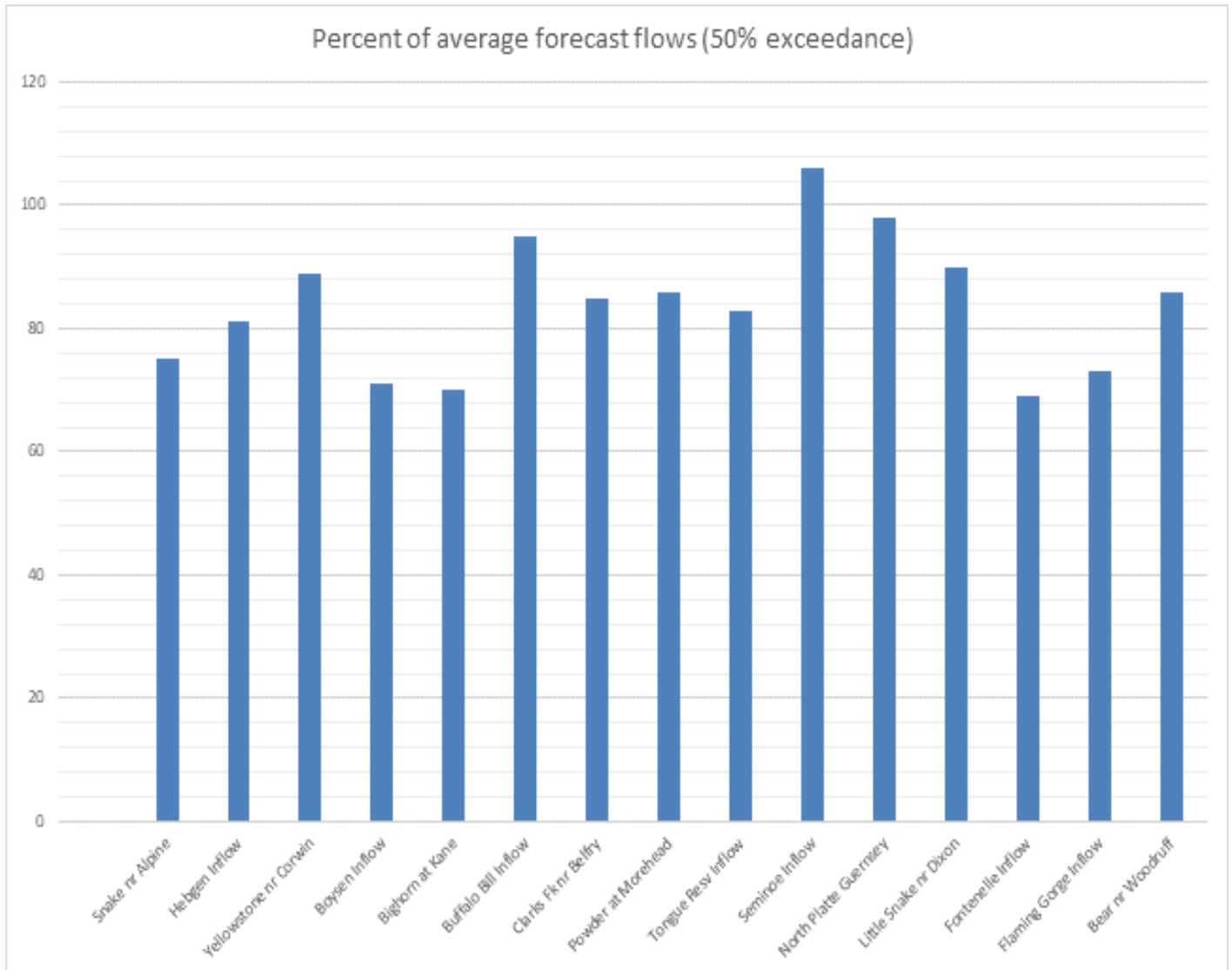


United States
Department of
Agriculture

Wyoming Basin Outlook Report

Feb 1, 2019

Natural
Resources
Conservation
Service



Forecasted stream flows as of Feb 1st, 2019

Basin Outlook Reports

And

Federal - State - Private Cooperative Snow Surveys

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How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snow courses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. 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

Snowpack

Snow water equivalent (SWE) across Wyoming for Feb 1st is at 95% of median. SWE in the Belle Fourche Basin of Wyoming is the highest at 141% of median, while SWE in the Madison-Gallatin River Basin is the lowest at 77% of median. *See the map on page 5 and the Appendix for further information.*

Precipitation

Last month's precipitation was above average in the eastern half of Wyoming, and below average in the west. The Lower North Platte Basin had the highest precipitation for the month at 177% of average. The Upper Green River Basin had the lowest precipitation amount at 74% of average. The following table displays the major river basins and their departure from average for last month. *See Appendix for further information.*

Basin	Departure from average		Departure from average
Snake River	-23%	Upper North Platte River	+22%
Madison-Gallatin	-13%	Sweetwater River	-7%
Yellowstone River	-11%	Lower North Platte River	+77%
Wind River	-13%	Laramie River	+17%
Bighorn River	-14%	North Platte River (Total)	+21%
Shoshone River	-25%	South Platte River	+17%
Powder River	-5%	Little Snake River	+23%
Tongue River	-7%	Upper Green River	-26%
Belle Fourche River	+68%	Lower Green River	+6%
Cheyenne River	+10%	Upper Bear River	+4%

Streams

Stream flow yields for April thru September are below average overall in Wyoming at 83%. The Snake River, Madison, and Upper Yellowstone River Basins should yield about 76%, 81% and 89% of average, respectively. Yields from the Wind and Bighorn River Basins should be about 71% and 70% of average. Yields from the Shoshone and Clarks Fork River Basins of Wyoming should be about 95% and 85% of average. Yields from the Powder and Tongue River Basins should be about 86% and 83% of average. Yield for the Cheyenne River Basin should be about 95% of average. Yields for the Sweetwater, Upper North Platte, Lower North Platte, and Laramie Rivers of Wyoming should be about 67%, 106%, 98%, and 102% of average, respectively. Yields for the Little Snake, Green River, Bear River, and Smith's Fork of Wyoming should be 90%, 73%, 86%, and 79% respectively.

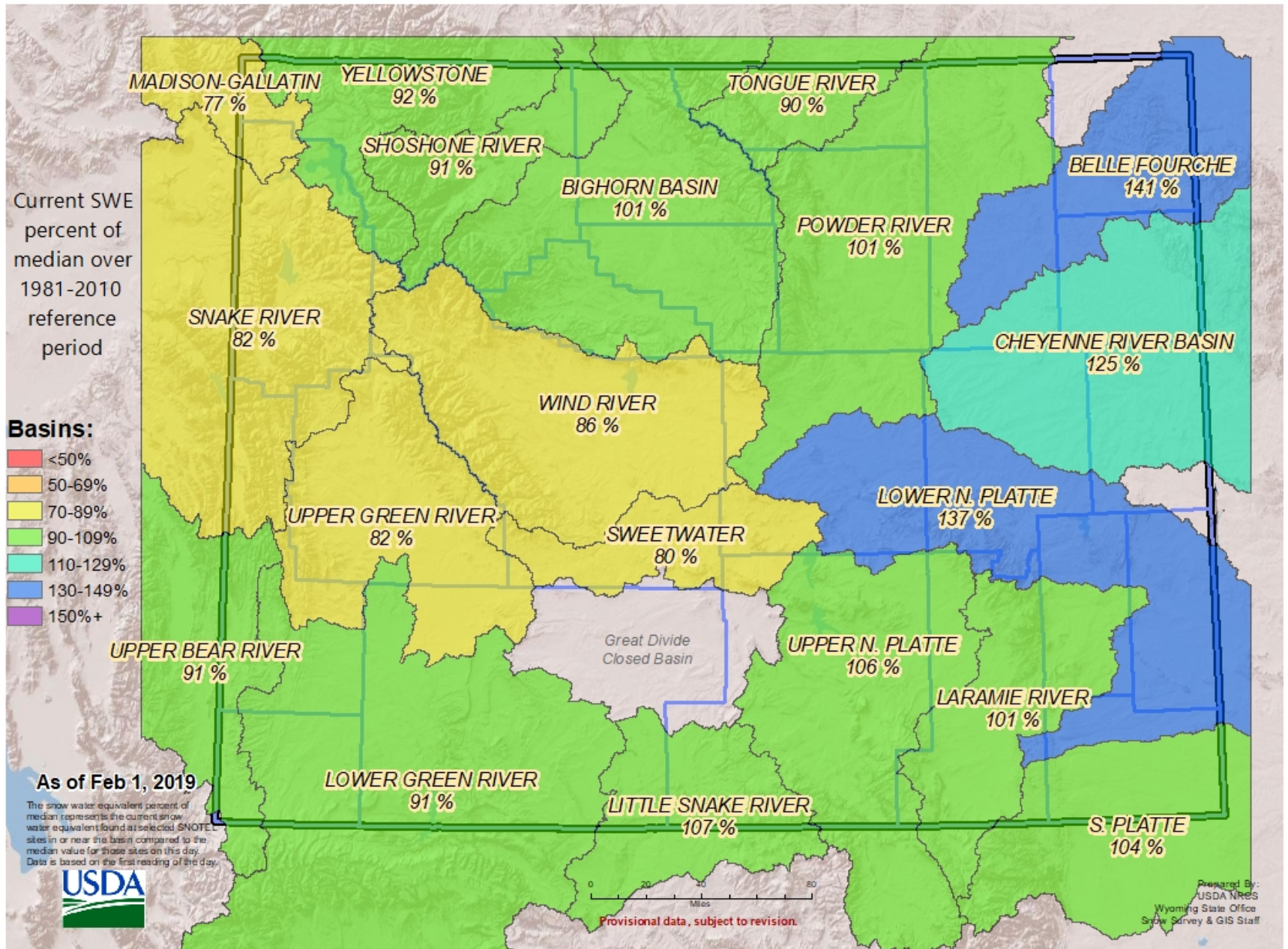
Reservoirs

Reservoir storage is above average at 112% for the entire state. Reservoirs in the Snake River Basin are above average at 133%. Reservoirs in the Madison-Gallatin Basin are above average at 112%. Reservoirs in the Wind River Basin are above average at 109%. Reservoirs on the Big Horn are above average at 104%. The Buffalo Bill Reservoir on the Shoshone is above average at 127%. The Tongue River Basin Reservoir is above average at 189%. Reservoirs in the Belle Fourche and Cheyenne River Basins are above average at 149% & 114% respectively. Reservoirs on the Upper and Lower North Platte River are above average at 119% and 107% respectively. Reservoirs on the Laramie and Little Snake River basins are below average at 85% and 55% respectively. Reservoirs on the Upper Green River are near average at 99%. Reservoirs on the Lower Green River Basin are above average at 105%, and on the Upper Bear River Basin at 71%. *See below for further information.*

Wyoming Reservoir Levels

	Reservoir Storage Summary for the end of January 2019								
	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Alcova	157.2	156.8	155.0	184.3	85%	85%	84%	101%	101%
Angostura	95.8	85.8	83.2	122.1	78%	70%	68%	115%	103%
Belle Fourche	133.5	89.1	110.5	178.4	75%	50%	62%	121%	81%
Big Sandy	15.8	30.8	17.0	38.3	41%	80%	44%	93%	181%
Bighorn Lake	826.5	863.0	825.9	1356.0	61%	64%	61%	100%	104%
Boysen	552.7	598.1	506.0	596.0	93%	100%	85%	109%	118%
Boysen	552.7	598.1	506.0	596.0	93%	100%	85%	109%	118%
Buffalo Bill	450.1	485.3	353.8	646.6	70%	75%	55%	127%	137%
Bull Lake	81.3	103.6	75.4	151.8	54%	68%	50%	108%	137%
Deerfield	14.8	14.6	13.7	15.2	98%	96%	90%	108%	107%
Ennis Lake	28.9	32.1	29.8	41.0	70%	78%	73%	97%	108%
Flaming Gorge Reservoir	3197.7	3259.2	3049.0	3749.0	85%	87%	81%	105%	107%
Fontenelle	149.6	165.2	150.1	344.8	43%	48%	44%	100%	110%
Fontenelle	149.6	165.2	150.1	344.8	43%	48%	44%	100%	110%
Glendo	302.2	264.1	301.5	506.4	60%	52%	60%	100%	88%
Grassy Lake	12.7	13.3	11.9	15.2	84%	88%	78%	107%	112%
Guernsey	14.3	19.1	11.4	45.6	31%	42%	25%	125%	168%
Hebgen Lake	316.8	320.1	279.0	378.8	84%	85%	74%	114%	115%
High Savery Reservoir	6.6	10.8	11.9	22.4	29%	48%	53%	55%	91%
Jackson Lake	657.1	657.1	431.2	847.0	78%	78%	51%	152%	152%
Keyhole	158.6	118.3	87.9	193.8	82%	61%	45%	180%	135%
Pactola	51.7	51.5	45.5	55.0	94%	94%	83%	114%	113%
Palisades Reservoir	1124.7	1352.8	911.2	1400.0	80%	97%	65%	123%	148%
Pathfinder	628.4	830.7	559.0	1016.5	62%	82%	55%	112%	149%
Pathfinder	628.4	830.7	559.0	1016.5	62%	82%	55%	112%	149%
Pilot Butte	24.1	24.3	23.2	31.6	76%	77%	73%	104%	105%
Seminole	617.5	808.9	520.8	1016.7	61%	80%	51%	119%	155%
Shadehill	67.4	34.7	42.8	81.4	83%	43%	53%	157%	81%
Tongue River Res	50.6	48.9	26.7	79.1	64%	62%	34%	189%	183%
Viva Naughton Res	27.6	31.6	30.1	42.4	65%	75%	71%	92%	105%
Wheatland #2	34.9	57.9	40.9	98.9	35%	59%	41%	85%	142%
Woodruff Narrows Reservoir	20.7	48.0	29.0	57.3	36%	84%	51%	71%	165%

Wyoming Basins Snow Water Equivalent (SWE) % of Median (includes manual snow courses)

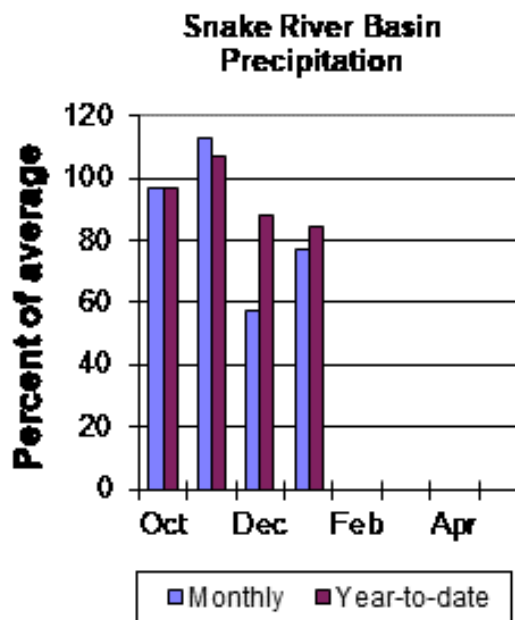
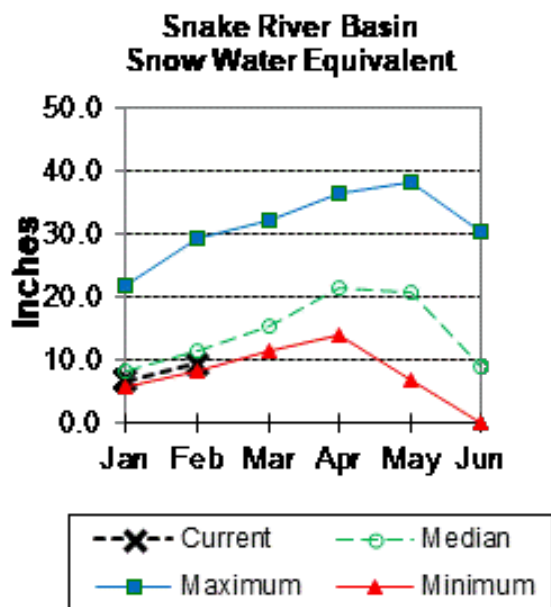


Snake River Basin

Snow

The overall Snake River Basin SWE (portion above Palisades dam) is 82% of median. SWE in the Snake River Basin above Jackson Lake is 76% of median. Pacific Creek Basin SWE is 79% of median. Buffalo Fork SWE is 91% of median. Gros Ventre River Basin SWE is 82% of median. SWE in the Hoback River drainage is 81% of median. SWE in the Greys River drainage is 86% of median. Salt River Basin SWE is 86% of median.

See Appendix 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 77% of average. Water-year-to-date precipitation is 84% of average for the Snake River Basin (101% last year).

Reservoirs

Current reservoir storage is 133% of average for the three storage reservoirs in the basin.

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	12.7	13.3	11.9	15.2	84%	88%	78%	107%	112%
Jackson Lake	657.1	657.1	431.2	847.0	78%	78%	51%	152%	152%
Palisades Reservoir	1124.7	1352.8	911.2	1400.0	80%	97%	65%	123%	148%
Basin-wide Total	1794.6	2023.3	1354.3	2262.2	79%	89%	60%	133%	149%
# of reservoirs	3	3	3	3	3	3	3	3	3

Streamflow

The 50% exceedance forecasts for April through September are below average for this basin. The Snake near Moran yield is 73% of average. Snake River above Reservoir near Alpine will yield about 75%. Pacific Creek near Moran Yield will be around 75%. Buffalo Fork above Lava near Moran yield will be around 84% of average. Greys River above Palisades Reservoir yield about 82%. Salt River near Etna yield will be about 77%.

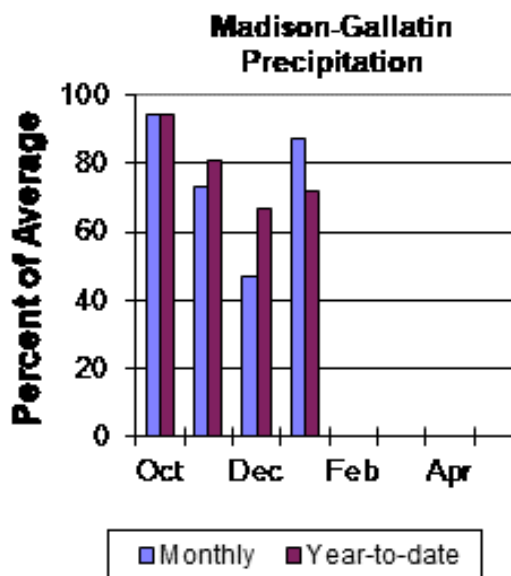
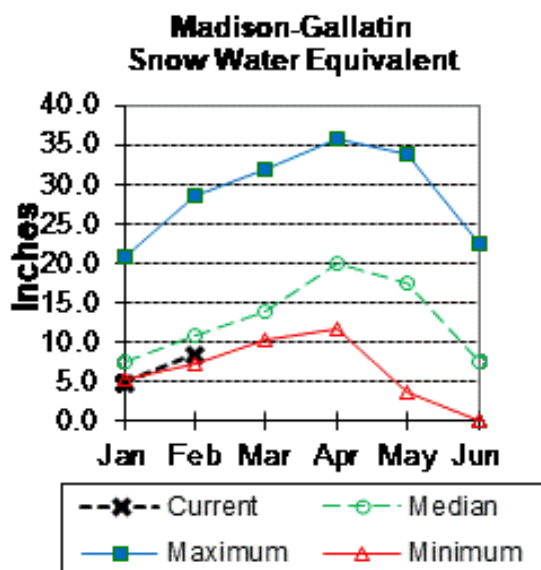
See the following page for further information.

SNAKE RIVER BASIN	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						30yr Avg (KAF)
		90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	
Snake R nr Moran ²								
	APR-JUL	365	475	555	73%	630	740	765
	APR-SEP	405	530	615	73%	695	820	845
Snake R ab Reservoir nr Alpine ²								
	APR-JUL	1060	1390	1620	75%	1850	2180	2170
	APR-SEP	1230	1610	1870	75%	2130	2510	2500
Snake R nr Irwin ²								
	APR-JUL	1480	1940	2260	75%	2580	3040	3010
	APR-SEP	1740	2280	2640	75%	3000	3540	3500
Snake R nr Heise ²								
	APR-JUL	1630	2110	2430	75%	2760	3240	3240
	APR-SEP	1940	2490	2870	76%	3240	3790	3780
Pacific Ck at Moran								
	APR-JUL	79	105	122	74%	140	166	164
	APR-SEP	85	112	130	75%	148	175	173
Buffalo Fk ab Lava Ck nr Moran								
	APR-JUL	166	210	235	84%	265	305	280
	APR-SEP	186	235	270	84%	300	350	320
Greys R ab Reservoir nr Alpine								
	APR-JUL	174	220	250	82%	280	330	305
	APR-SEP	205	255	295	82%	330	385	360
Salt R ab Reservoir nr Etna								
	APR-JUL	112	181	230	77%	275	345	300
	APR-SEP	151	230	285	77%	340	425	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								

Madison-Gallatin Rivers Basin

Snow

SWE is 77% of median in the Madison-Gallatin drainage. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month precipitation in the Madison-Gallatin drainage was 87% of average. Water-year-to-date precipitation is at 72% of average, it was 106% last year.

Reservoirs

Ennis Lake is storing about 70% of capacity, 97% of average. Hebgen Lake is storing 84% of capacity, and 114% of average.

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	32.1	29.8	41.0	70%	78%	73%	97%	108%
Hebgen Lake	316.8	320.1	279.0	378.8	84%	85%	74%	114%	115%
Basin-wide Total	345.6	352.2	308.8	419.8	82%	84%	74%	112%	114%
# of reservoirs	2	2	2	2	2	2	2	2	2

Streamflow

The 50% exceedance forecast for April through September is below average for the basin. Hebgen Reservoir inflow 81% of average. *See below for detailed runoff volumes.*

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	215	265	295	80%	325	375	370
	APR-SEP	280	340	380	81%	420	475	470

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

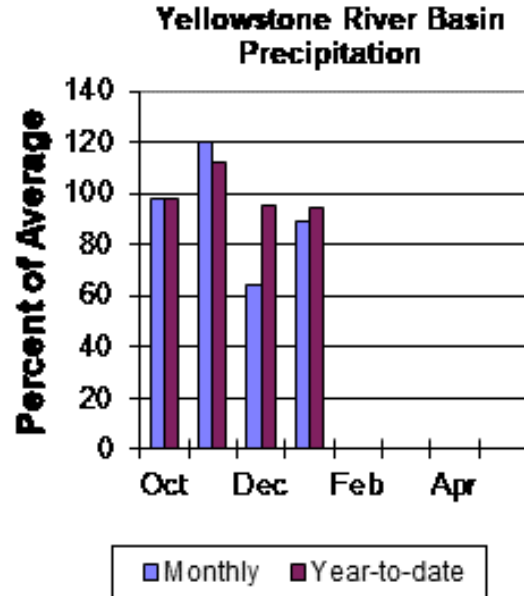
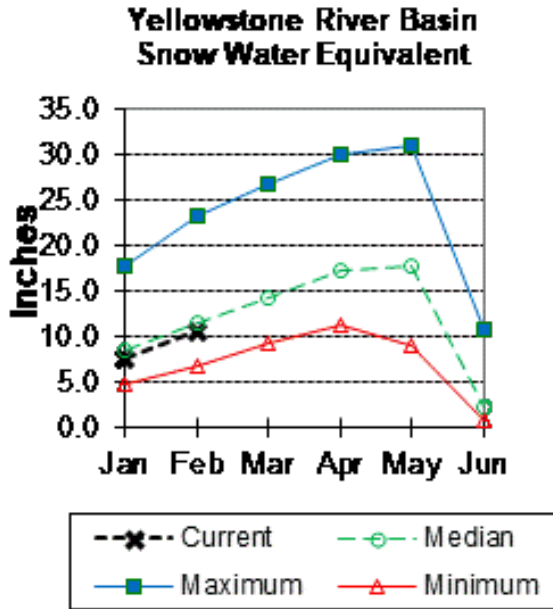
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

3) Median value used in place of average

Yellowstone River Basin

Snow

SWE in the Yellowstone River Basin is 92% of median. SWE in the Clarks Fork Drainage of the Yellowstone River Basin in Wyoming is 91% of median. *See Appendix 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 89% of average. Water-year-to-date precipitation is 94% of average, it was 131% last year.

Reservoirs No reservoir data

Streamflow

The 50% exceedance forecasts for April through September are below average for the basin. Yellowstone at Lake Outlet will yield around 84% of average. Yellowstone at Corwin Springs will yield around 89%. Clarks Fork of the Yellowstone near Belfry will yield around 85%.

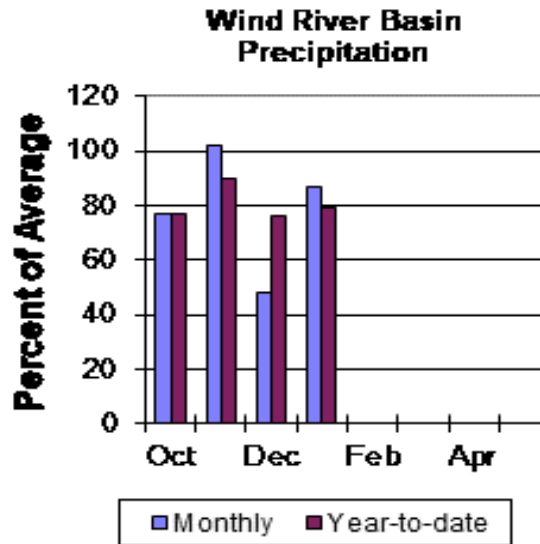
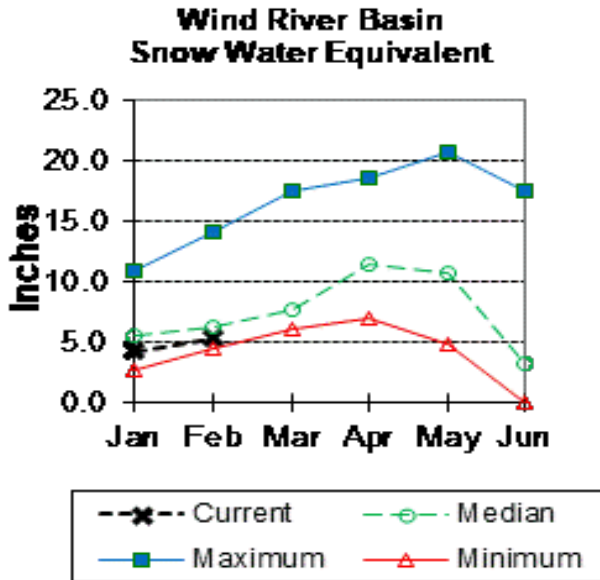
See the following for further information.

		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	355	435	490	85%	545	625	575	
	APR-SEP	470	575	650	84%	725	830	770	
Yellowstone R at Corwin Springs									
	APR-JUL	1110	1300	1420	89%	1540	1730	1590	
	APR-SEP	1310	1520	1670	89%	1820	2040	1880	
Yellowstone R at Livingston									
Clarks Fk Yellowstone R nr Belfry ²									
	APR-JUL	315	390	440	86%	490	570	510	
	APR-SEP	335	415	470	85%	530	610	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									

Wind River Basin

Snow

Wind River Basin SWE (above Boysen Reservoir) is 86% of median. SWE in the Wind River above Dubois is 83% of median. Little Wind SWE is 80% of median, and Popo Agie drainage SWE is 90% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for the basin was 87% of average (60% last year at this time). Water year-to-date precipitation is 79% of average and was 101% last year.

Reservoirs

Current storage in Bull Lake is 108% of average. Boysen Reservoir is storing about 109% of average. Pilot Butte is at 104% of average.

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	81.3	103.6	75.4	151.8	54%	68%	50%	108%	137%
Boysen	552.7	598.1	506.0	596.0	93%	100%	85%	109%	118%
Pilot Butte	24.1	24.3	23.2	31.6	76%	77%	73%	104%	105%
Basin-wide Total	658.1	725.9	604.6	779.4	84%	93%	78%	109%	120%
# of reservoirs	3	3	3	3	3	3	3	3	3

Streamflow

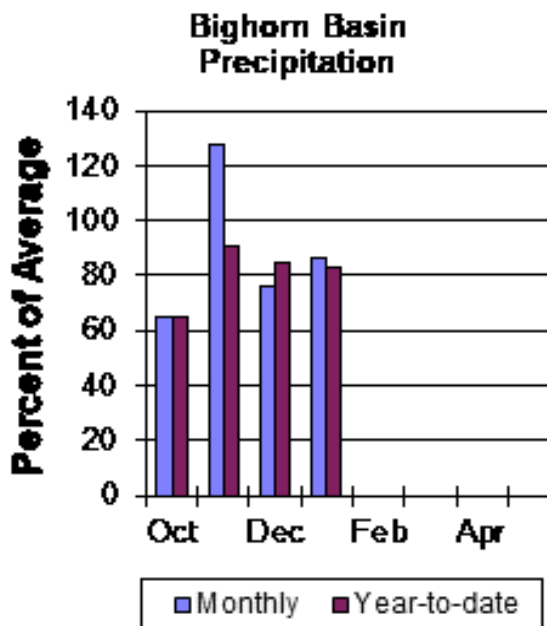
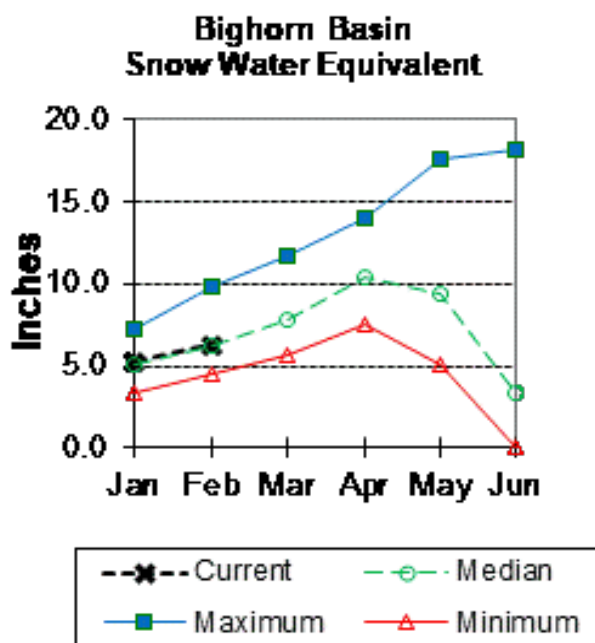
The 50% exceedance forecasts for the April through September runoff period are below average. The Wind River above Bull Lake Creek will yield about 78% of average. Little Popo Agie River near Lander should yield around 78% of average. Little Wind River near Riverton will yield around 78% of average. Boysen Reservoir inflow will yield about 71% of average. *See the following page for detailed runoff volumes.*

		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	46	54	60	91%	66	74	66	
	APR-SEP	69	79	85	92%	91	101	92	
Wind R Ab Bull Lake Ck									
	APR-JUL	210	300	365	80%	430	520	455	
	APR-SEP	210	310	380	78%	450	550	490	
Bull Lake Ck nr Lenore									
	APR-JUL	83	104	117	84%	131	151	139	
	APR-SEP	102	126	142	84%	158	182	169	
Wind R at Riverton									
	APR-JUL	199	300	370	78%	440	540	475	
	APR-SEP	240	350	425	77%	500	615	550	
Little Popo Agie R nr Lander									
	APR-JUL	11.6	24	32	76%	41	53	42	
	APR-SEP	15.6	29	38	78%	46	60	49	
Little Wind R nr Riverton									
	APR-JUL	38	140	210	78%	280	380	270	
	APR-SEP	49	157	230	78%	305	410	295	
Boysen Reservoir Inflow									
	APR-JUL	90	305	450	74%	600	815	610	
	APR-SEP	94	320	475	71%	630	860	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									

Bighorn River Basin

Snow

The Bighorn River Basin SWE (above Bighorn Reservoir) is 101% of median. The Nowood River is at 105% of median. The Greybull River SWE is at 89% of median. Shell Creek SWE is at 98% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 86% of average (74% last year). Year-to-date precipitation is 83% of average (93% last year).

Reservoirs

Boysen Reservoir is currently storing 109% of average. Bighorn Lake is now at 100% of average. Boysen was at 118% of average last year at this time, and Big Horn Lake was at 104% last year.

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	552.7	598.1	506.0	596.0	93%	100%	85%	109%	118%
Bighorn Lake	826.5	863.0	825.9	1356.0	61%	64%	61%	100%	104%
Basin-wide Total	1379.2	1461.0	1331.9	1952.0	71%	75%	68%	104%	110%
# of reservoirs	2	2	2	2	2	2	2	2	2

Streamflow

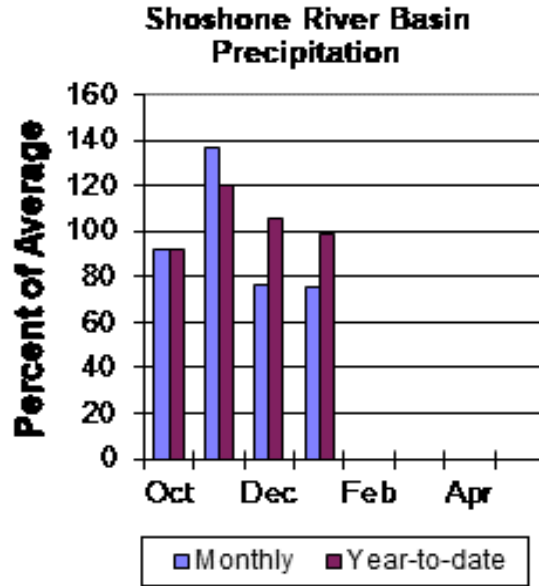
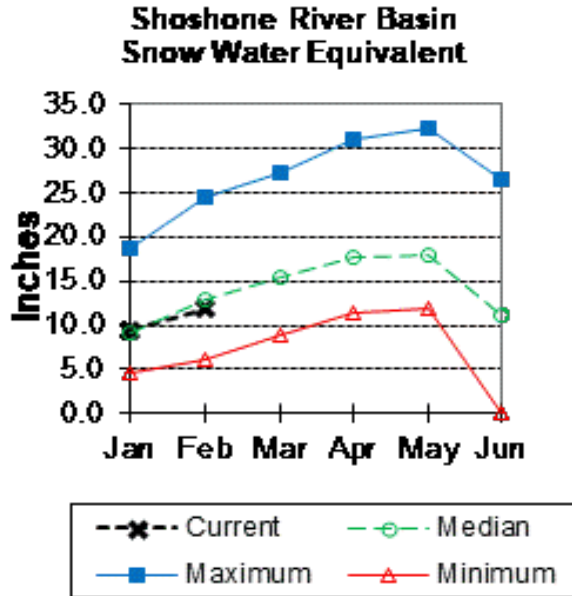
The 50% exceedance forecasts for the April through September runoffs are below average. Boysen Reservoir inflow has a forecasted yield 71% of average; the Greybull River near Meeteetse yielding around 93% of average; Shell Creek near Shell yielding around 83% of average and the Bighorn River at Kane to yield around 70% of average. *See the following for detailed runoff volumes.*

		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	90	305	450	74%	600	815	610
	APR-SEP	94	320	475	71%	630	860	665
Greybull R nr Meeteetse								
	APR-JUL	66	99	122	93%	145	178	131
	APR-SEP	99	138	165	93%	192	230	177
Shell Ck nr Shell								
	APR-JUL	32	41	47	85%	53	62	55
	APR-SEP	38	48	55	83%	62	72	66
Bighorn R at Kane								
	APR-JUL	122	420	625	74%	830	1130	840
	APR-SEP	94	415	635	70%	855	1180	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								

Shoshone River Basin

Snow

Snowpack in this basin is below normal for this time of year. Snow Water Equivalent (SWE) is 91% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for last month was 75% of average. The basin year-to-date precipitation is now 99% of average (133% last year).

Reservoirs

Current storage in Buffalo Bill Reservoir is at 70% of capacity, and about 127% of average (137% last year).

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	450.1	485.3	353.8	646.6	70%	75%	55%	127%	137%
Basin-wide Total	450.1	485.3	353.8	646.6	70%	75%	55%	127%	137%
# of reservoirs	1	1	1	1	1	1	1	1	1

Streamflow

The 50% exceedance forecasts for the April through September period are near average for the basin. The North Fork Shoshone River at Wapiti will yield 99% of average. The South Fork of the Shoshone River near Valley would yield 92% of average. The Buffalo Bill Reservoir inflow to yield 95%. *See the following for detailed runoff volumes.*

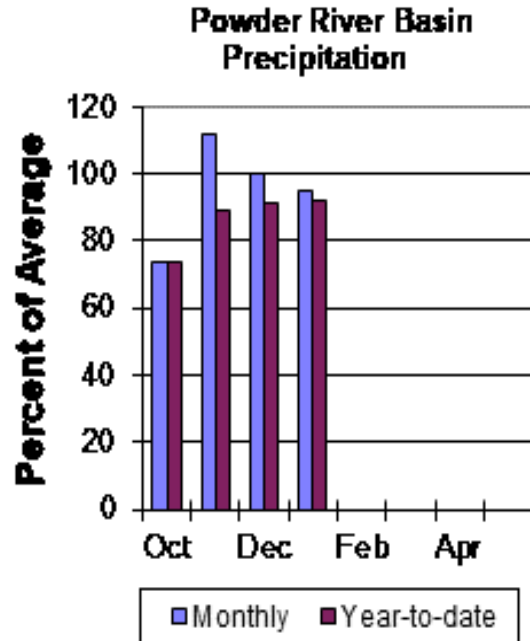
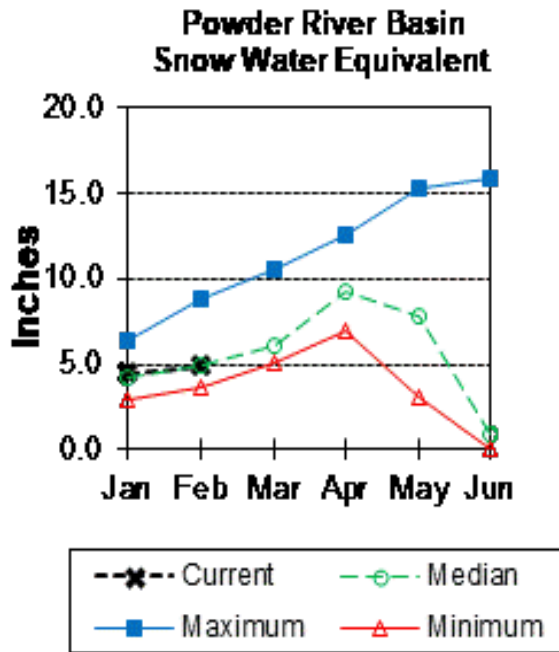
		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast							
SHOSHONE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)	
NF Shoshone R at Wapiti									
	APR-JUL	350	410	455	99%	500	560	460	
	APR-SEP	395	465	510	99%	555	625	515	
SF Shoshone R nr Valley									
	APR-JUL	139	174	197	92%	220	255	215	
	APR-SEP	158	198	225	92%	255	295	245	
SF Shoshone R ab Buffalo Bill Reservoir									
	APR-JUL	83	132	166	86%	200	250	193	
	APR-SEP	80	134	171	86%	205	260	200	
Buffalo Bill Reservoir Inflow ²									
	APR-JUL	445	560	635	94%	715	830	675	
	APR-SEP	495	620	705	95%	790	915	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									

Powder River Basin

Snow

Powder River SWE is at 101% of median. Upper Powder River drainage is 106% of median. SWE in the Clear Creek drainage is 94% of median. Crazy Woman Creek drainage SWE is at 86%.

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



Precipitation

Last month's precipitation was 95% of average in the basin. Year-to-date precipitation is 92% of average (91% last year).

Reservoirs

No reservoir data for this basin.

Streamflow

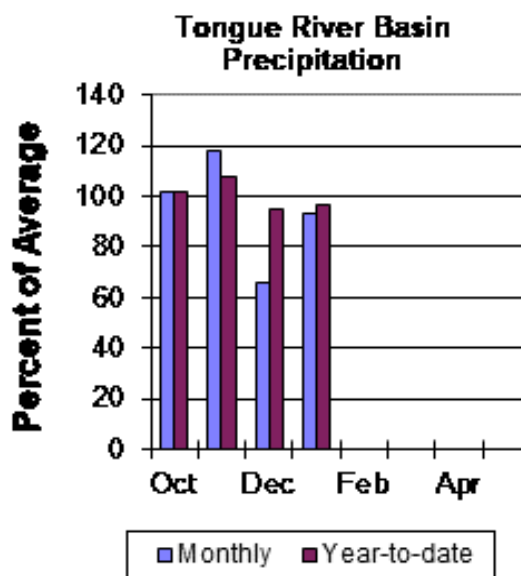
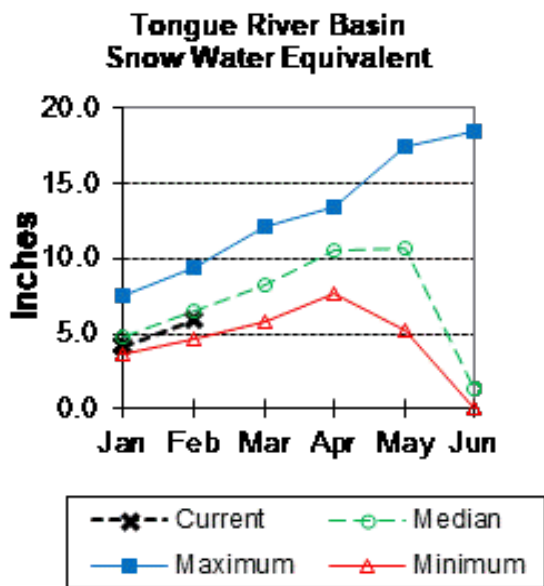
The 50% exceedance forecasts for the April through September period are below average for the basin. The Middle Fork of the Powder River near Barnum should yield around 91% of average. The North Fork of the Powder River near Hazelton to yield around 86%. The Powder River near Morehead to yield around 86% of average. *See the following for detailed runoff volumes.*

		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	7.6	11.8	14.6	91%	17.4	22	16.1	
	APR-SEP	8.3	12.5	15.4	91%	18.3	23	17	
NF Powder R nr Hazelton									
	APR-JUL	4.6	6.6	7.9	87%	9.2	11.2	9.1	
	APR-SEP	5.1	7.2	8.5	86%	9.9	11.9	9.9	
Rock Ck nr Buffalo									
	APR-JUL	7.2	12.8	16.7	90%	21	26	18.6	
	APR-SEP	10	16	20	91%	24	30	22	
Piney Ck at Kearny									
	APR-JUL	9.8	27	39	89%	50	68	44	
	APR-SEP	11.8	29	41	87%	53	71	47	
Powder R at Moorehead									
	APR-JUL	17.5	97	151	85%	205	285	177	
	APR-SEP	32	113	168	86%	220	305	196	
Powder R nr Locate									
	APR-JUL	21	111	172	86%	230	320	199	
	APR-SEP	31	125	189	86%	255	345	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									

Tongue River Basin

Snow

Upper Tongue River drainage SWE is at 90% of median. The Goose Creek drainage SWE is at 87% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 93% of average. Year-to-date precipitation is 97% of average in the basin (75% last year).

Reservoirs

The Tongue River Reservoir is at 64% of capacity, and 189% of average for this time of year.

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	50.6	48.9	26.7	79.1	64%	62%	34%	189%	183%
Basin-wide Total	50.6	48.9	26.7	79.1	64%	62%	34%	189%	183%
# of reservoirs	1	1	1	1	1	1	1	1	1

Streamflow

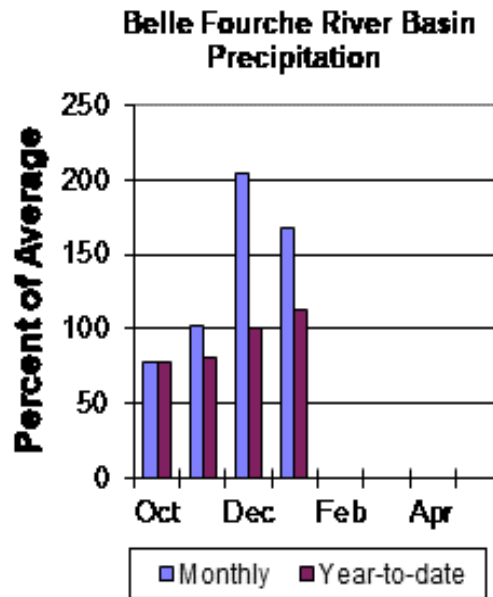
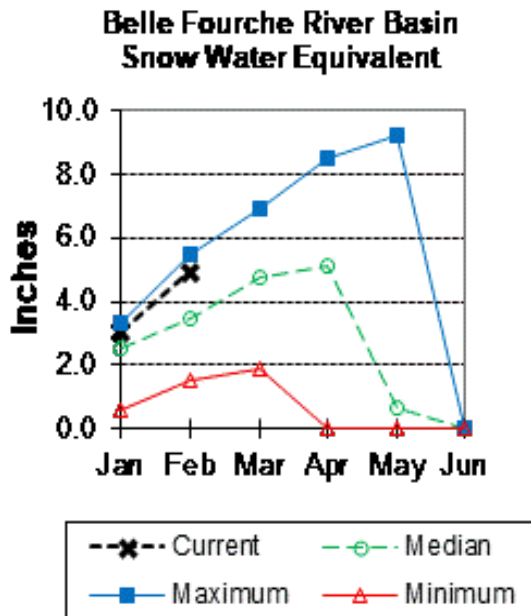
The 50% exceedance forecasts for the April through September period are below average for the basin. The yield for Tongue River near Dayton is forecasted to be 86% of average. Big Goose Creek near Sheridan to yield around 83%. Little Goose Creek near Bighorn yielding 95% of average. The Tongue River Reservoir Inflow will be about 83% of average. *See below for detailed runoff volumes.*

		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	44	61	73	85%	85	102	86	
	APR-SEP	53	72	84	86%	97	115	98	
Big Goose Ck nr Sheridan									
	APR-JUL	16.4	29	37	80%	45	58	46	
	APR-SEP	24	36	45	83%	53	66	54	
Little Goose Ck nr Bighorn									
	APR-JUL	15.6	23	29	94%	34	42	31	
	APR-SEP	22	31	37	95%	42	51	39	
Tongue River Reservoir Inflow									
	APR-JUL	53	115	157	81%	199	260	193	
	APR-SEP	69	134	178	83%	220	285	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									

Belle Fourche River Basin

Snow

Belle Fourche River Basin SWE is at 141% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for last month was 168% of average in the Belle Fourche basin. Year-to-date precipitation is 136% of average (114% last year).

Reservoirs

Belle Fourche Reservoir is storing 121% of average. Keyhole Reservoir about 180% of average. Shadehill Reservoir is storing 157%.

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	133.5	89.1	110.5	178.4	75%	50%	62%	121%	81%
Keyhole	158.6	118.3	87.9	193.8	82%	61%	45%	180%	135%
Shadehill	67.4	34.7	42.8	81.4	83%	43%	53%	157%	81%
Basin-wide Total	359.5	242.1	241.2	453.6	79%	53%	53%	149%	100%
# of reservoirs	3	3	3	3	3	3	3	3	3

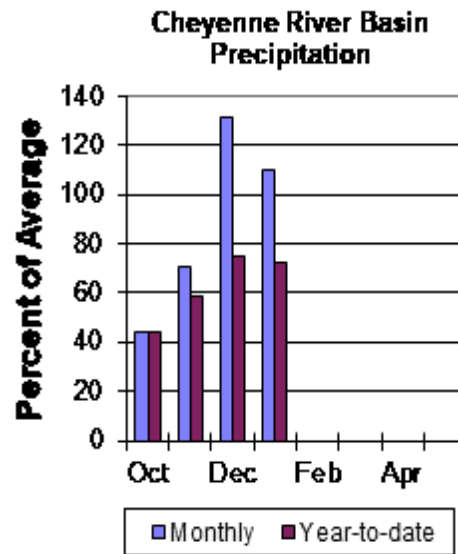
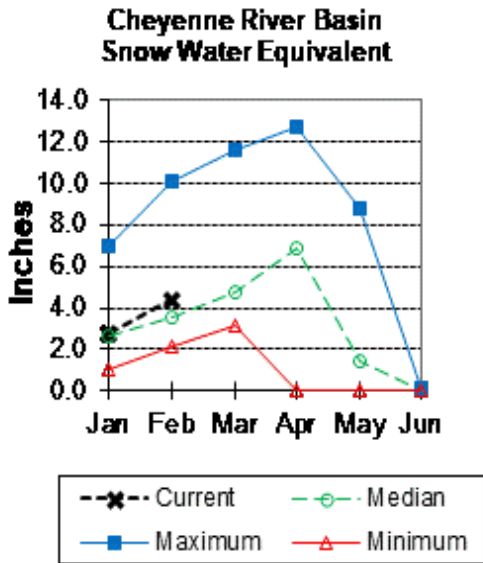
Streamflow

There are no streamflow forecast points for the basin.

Cheyenne River Basin

Snow

Cheyenne River Basin SWE is at 125% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for last month was 110% of average in the Cheyenne basin. Year-to-date precipitation is 72% of average (86% last year).

Reservoirs

Angostura is currently storing about 115% of average. Deerfield reservoir is storing 108% of average. Pactola Reservoir is storing 114%.

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	95.8	85.8	83.2	122.1	78%	70%	68%	115%	103%
Deerfield	14.8	14.6	13.7	15.2	98%	96%	90%	108%	107%
Pactola	51.7	51.5	45.5	55.0	94%	94%	83%	114%	113%
Basin-wide Total	162.3	151.9	142.4	192.3	84%	79%	74%	114%	107%
# of reservoirs	3	3	3	3	3	3	3	3	3

Streamflow

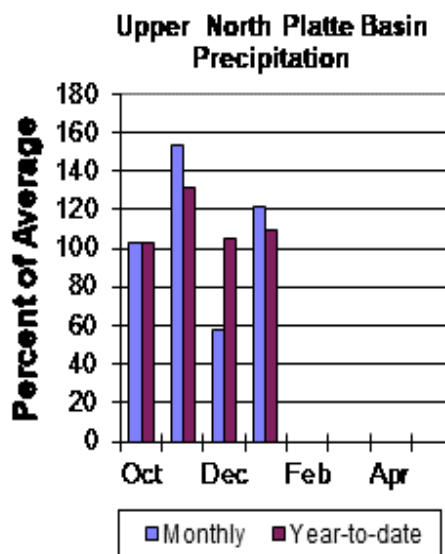
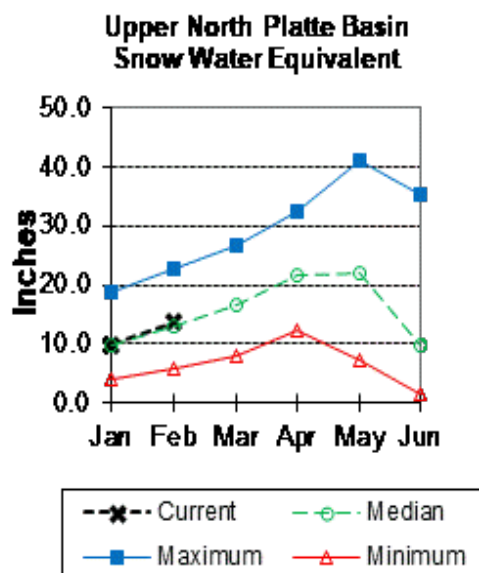
The following runoff values are the 50% exceedance forecasts for the April through July period. The Deerfield Reservoir Inflow yield is forecasted at 100% of average. Pactola Reservoir Inflow yield is 95% of average. *See the following for detailed runoff volumes.*

		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	2.7	4.9	6.4	103%	7.9	10.2	6.2	
	APR-JUL	1.88	3.9	5.2	100%	6.6	8.6	5.2	
Pactola Reservoir Inflow									
	MAR-JUL	9	18.5	25	100%	31	41	25	
	APR-JUL	5.4	14.4	21	95%	27	36	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									

Upper North Platte River Basin

Snow

The Upper North Platte River Basin SWE above Seminoe Reservoir is 106% of median. North Platte above Northgate SWE is 104% of median. Encampment River SWE is 106% of median. Brush Creek SWE is 113% of median. Medicine Bow and Rock Creek SWE are 105% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 122% of average. Total water-year-to-date precipitation is 109% of average for the basin (87% last year).

Reservoirs

Seminoe Reservoir storage is 61% of capacity, and at 119% of average (155% last year).

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
Seminoe	617.5	808.9	520.8	1016.7	61%	80%	51%	119%	155%
Basin-wide Total	617.5	808.9	520.8	1016.7	61%	80%	51%	119%	155%
# of reservoirs	1	1	1	1	1	1	1	1	1

Streamflow

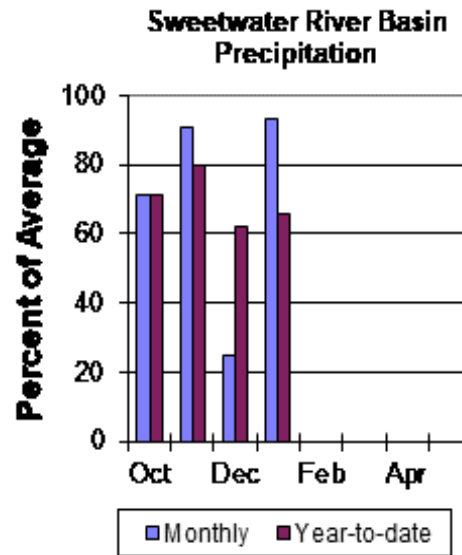
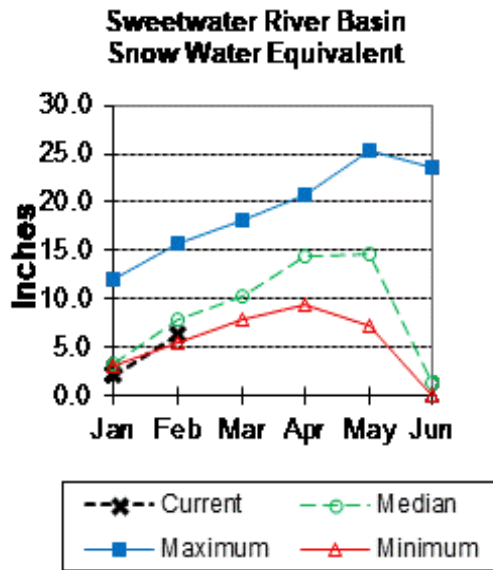
The 50% exceedance forecasts for the April through September period are above average for the Upper North Platte River Basin. The yield for the North Platte River near Northgate will be around 104% of average. The Encampment River near Encampment yield will be about 105%. Rock Creek near Arlington yield will be around 106%. Seminoe Reservoir inflow should be about 106%. *See the following page for more detailed information on projected runoff.*

		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	105	182	235	104%	290	365	225	
	APR-SEP	118	200	260	104%	315	400	250	
Encampment R nr Encampment ²									
	APR-JUL	75	111	135	105%	159	195	129	
	APR-SEP	83	120	145	105%	170	205	138	
Rock Ck nr Arlington									
	APR-JUL	35	46	53	108%	60	71	49	
	APR-SEP	36	47	55	106%	63	74	52	
Sweetwater R nr Alcova									
	APR-JUL	3.5	25	39	66%	53	75	59	
	APR-SEP	5.2	28	43	67%	58	81	64	
Seminole Reservoir Inflow									
	APR-JUL	375	605	760	106%	915	1140	715	
	APR-SEP	415	650	815	106%	975	1220	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									

Sweetwater River Basin

Snow

Sweetwater River Basin SWE is at 80% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 93% of average. The water year-to-date precipitation for the basin is currently 66% of average (66% last year).

Reservoirs

Pathfinder is storing at 62% of capacity and 112% of average.

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	628.4	830.7	559.0	1016.5	62%	82%	55%	112%	149%
Basin-wide Total	628.4	830.7	559.0	1016.5	62%	82%	55%	112%	149%
# of reservoirs	1	1	1	1	1	1	1	1	1

Streamflow

The 50% exceedance forecast for the April through September period will be low. The Sweetwater River near Pathfinder will yield about 67% of average.

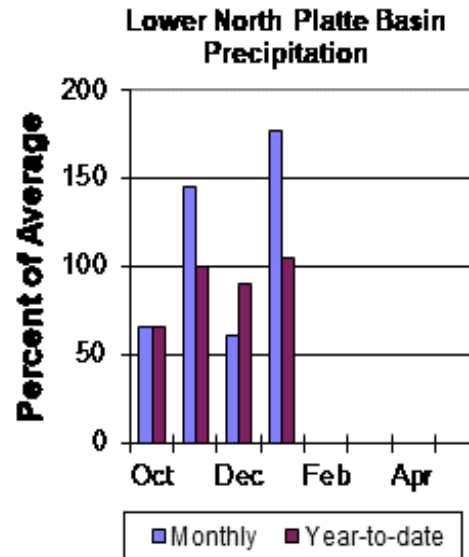
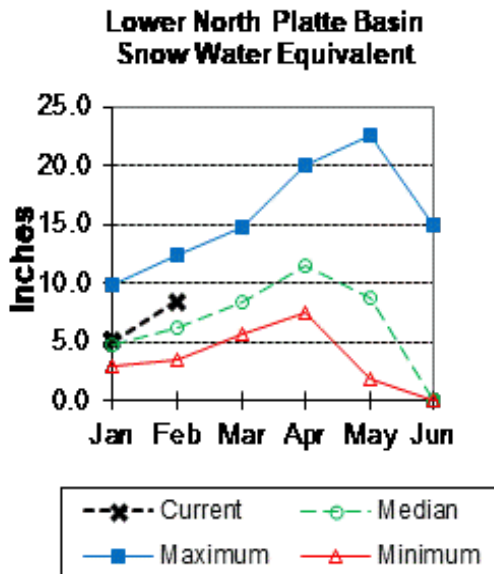
SWEETWATER RIVER BASIN	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
		90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Sweetwater R nr Alcova	APR-JUL	3.5	25	39	66%	53	75	59
	APR-SEP	5.2	28	43	67%	58	81	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

Lower North Platte River Basin

Snow

Lower North Platte River Basin SWE is 137% of median. SWE total for the entire North Platte River Basin above Torrington, WY is 105% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 177% of average. The water year-to-date precipitation for the basin is currently 105% of average (77% last year).

Reservoirs

Reservoir storage is as follows: Alcova 101% of average, Glendo 100% of average, Guernsey 125% of average, and Pathfinder 112% of average.

LOWER 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
Alcova	157.2	156.8	155.0	184.3	85%	85%	84%	101%	101%
Glendo	302.2	264.1	301.5	506.4	60%	52%	60%	100%	88%
Guernsey	14.3	19.1	11.4	45.6	31%	42%	25%	125%	168%
Pathfinder	628.4	830.7	559.0	1016.5	62%	82%	55%	112%	149%
Basin-wide Total	1102.1	1270.7	1026.9	1752.8	63%	72%	59%	107%	124%
# of reservoirs	4	4	4	4	4	4	4	4	4

Streamflow

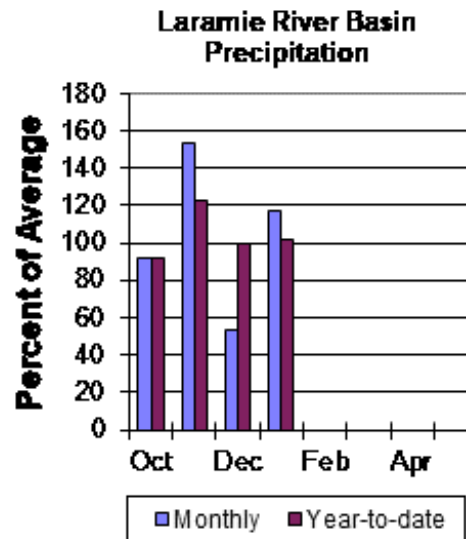
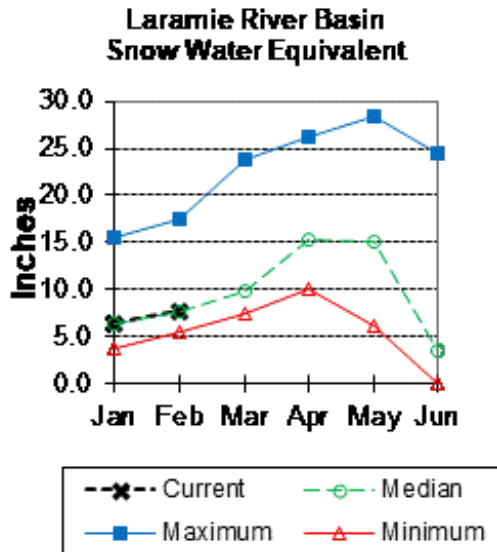
The 50% exceedance forecasts for the April through September period will be near average. LaPrele Creek above LaPrele Reservoir is forecasted to yield 106% of average. North Platte River below Guernsey Reservoir to yield around 98% of average. *See the following for more detailed information on projected runoff.*

		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	3.2	13.8	21	106%	28	39	19.9	
	APR-SEP	2.9	13.7	21	106%	28	39	19.9	
North Platte R bl Glendo Reservoir									
	APR-JUL	270	590	805	98%	1020	1340	820	
	APR-SEP	285	610	835	98%	1060	1380	850	
North Platte R bl Guernsey Reservoir									
	APR-JUL	255	585	805	98%	1030	1360	820	
	APR-SEP	270	605	835	98%	1060	1400	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									

Laramie River Basin

Snow

SWE for the entire Laramie River Basin (above mouth entering North Platte) is 101% of median. SWE for the Laramie River above Laramie is 97% of median. SWE for the Little Laramie River is 102% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 117% of average. The water year-to-date precipitation for the basin is currently 102% of average (104% last year).

Reservoirs

Wheatland #2 is storing 35% of capacity, and 85% of average.

LARAMIE RIVER BASIN	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Wheatland #2	34.9	57.9	40.9	98.9	35%	59%	41%	85%	142%
Basin-wide Total	34.9	57.9	40.9	98.9	35%	59%	41%	85%	142%
# of reservoirs	1	1	1	1	1	1	1	1	1

Streamflow

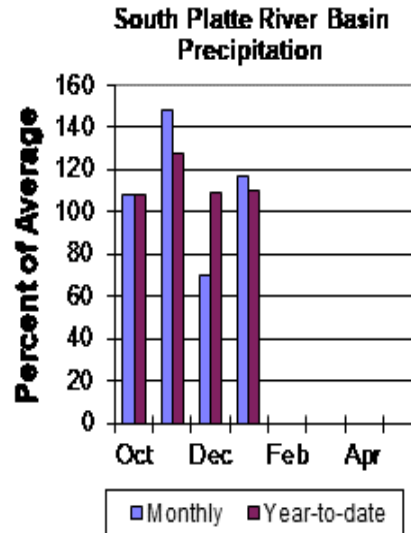
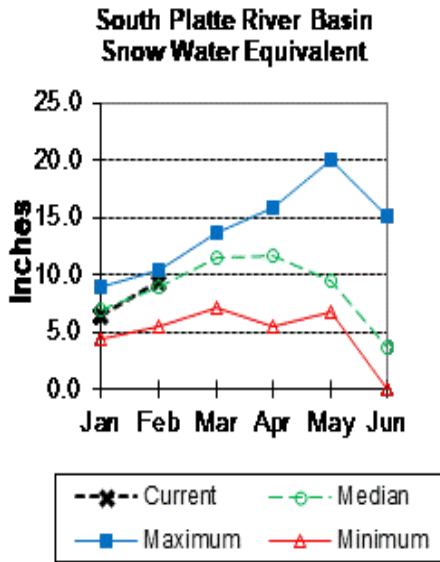
The 50% exceedance forecasts for the April through September period will be above average. Laramie River near Woods Landing should yield around 102% of average. The Little Laramie near Filmore should produce about 115% of average. *See below for detailed information on projected runoff.*

		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	59	94	118	103%	142	177	115	
	APR-SEP	66	103	129	102%	155	192	126	
Little Laramie R nr Filmore									
	APR-JUL	37	50	59	116%	68	81	51	
	APR-SEP	40	54	63	115%	72	86	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									

South Platte River Basin (WY)

Snow

South Platte River Basin SWE in WY is 104% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 117% of average. The water year-to-date precipitation for the basin is currently 110% of average (108% last year).

Reservoirs

No reservoir data for the basin.

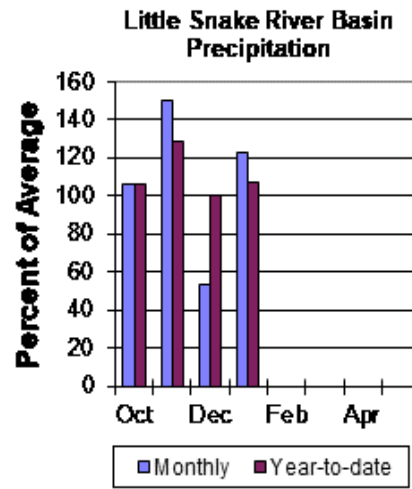
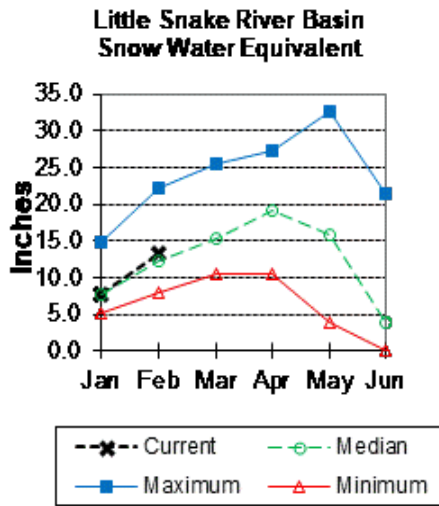
Streamflow

There are no streamflow forecast points for the basin.

Little Snake River Basin

Snow

Little Snake River drainage SWE is 107% of median. See *Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation across the basin was 123% of average. The Little Snake River Basin water-year-to-date precipitation is currently 107% of average (73% last year).

Reservoirs

High Savery Dam is storing 6,600 ac-ft, which is 29% of capacity, and 55% of average.

LITTLE SNAKE RIVER BASIN	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
High Savery Reservoir	6.6	10.8	11.9	22.4	29%	48%	53%	55%	91%
Basin-wide Total	6.6	10.8	11.9	22.4	29%	48%	53%	55%	91%
# of reservoirs	1	1	1	1	1	1	1	1	1

Streamflow

The 50% exceedance forecasts for the April through July period will be slightly below average. The Little Snake River near Slater is forecasted to yield around 92% of average.

See below for detailed information on projected runoff.

LITTLE SNAKE RIVER BASIN	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
		90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Little Snake R nr Slater ²	APR-JUL	96	123	143	92%	165	200	156
Little Snake R nr Dixon ²	APR-JUL	177	250	310	90%	375	480	345

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

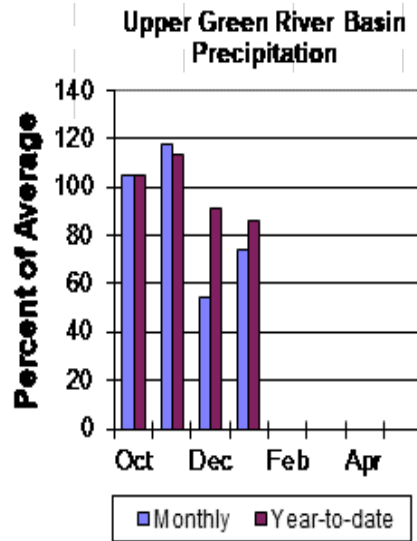
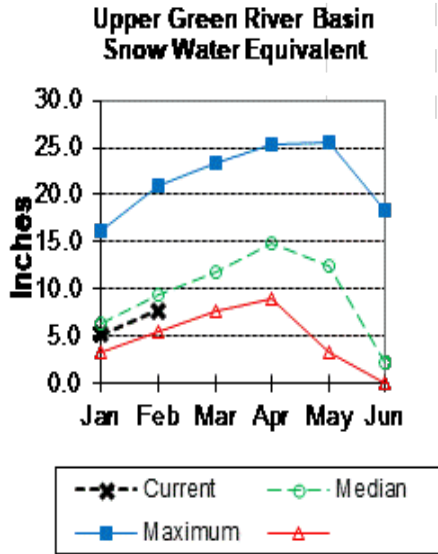
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions

3) Median value used in place of average

Upper Green River Basin

Snow

The Upper Green River Basin SWE (above Fontenelle Reservoir) is 82% of median. Green River Basin above Warren Bridge SWE is 74% of median. West Side of Upper Green River Basin SWE is 84% of median. New Fork River SWE is 86% of median. Big Sandy-Eden Valley Basin SWE is 79% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Average of precipitation for sites in the basin was 74% last month. Water year-to-date precipitation is 86% of average (100% last year).

Reservoir

Storage in Big Sandy Reservoir is at 93% of average. Fontenelle Reservoir is storing 100% of average.

UPPER GREEN RIVER BASIN	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Big Sandy	15.8	30.8	17.0	38.3	41%	80%	44%	93%	181%
Fontenelle	149.6	165.2	150.1	344.8	43%	48%	44%	100%	110%
Basin-wide Total	165.4	196.0	167.1	383.1	43%	51%	44%	99%	117%
# of reservoirs	2	2	2	2	2	2	2	2	2

Streamflow

The 50% exceedance forecasts for the April through July period will be below average. The yield on the Green River at Warren Bridge is about 76% of average. New Fork River near Big Piney yield will be around 70% of average. Fontenelle Reservoir Inflow is estimated to be about 69% of average. *See the following for a more detailed forecast.*

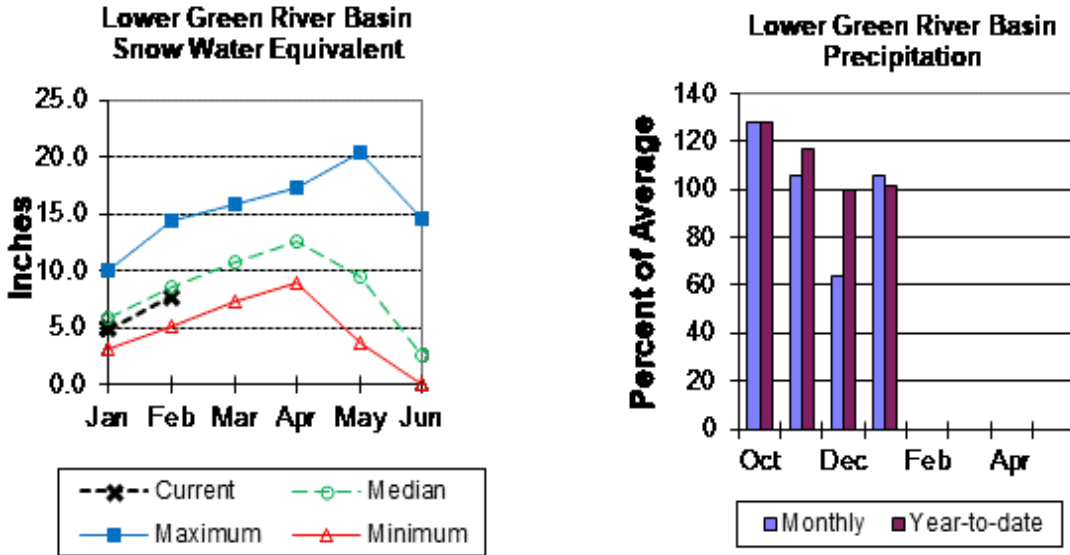
		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast							
UPPER GREEN RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)	
Green R at Warren Bridge									
	APR-JUL	130	162	185	76%	210	250	245	
Pine Creek ab Fremont Lake									
	APR-JUL	66	75	81	83%	88	98	98	
New Fork R nr Big Piney									
	APR-JUL	135	200	250	70%	310	405	355	
Fontenelle Reservoir Inflow									
	APR-JUL	255	390	500	69%	625	830	725	
Big Sandy R nr Farson									
	APR-JUL	24	33	40	77%	48	60	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									

Lower Green River Basin

Snow

Lower Green River Basin SWE is at 91% of median. Hams Fork drainage SWE is 84% of median. Blacks Fork drainage SWE is 105% of median. Henrys Fork SWE is 104% of median. SWE for the entire Green River Basin (above Flaming Gorge) is at 84% of median.

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



Precipitation

Precipitation for the basin last month was 106% of average. The basin year-to-date precipitation is currently 101% of average (75% last year).

Reservoirs

Fontenelle Reservoir is currently storing 100% of average, Flaming Gorge is storing 105% of average, while Viva Naughton storage is at 92%.

LOWER GREEN RIVER BASIN	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Fontenelle	149.6	165.2	150.1	344.8	43%	48%	44%	100%	110%
Flaming Gorge Reservoir	3197.7	3259.2	3049.0	3749.0	85%	87%	81%	105%	107%
Viva Naughton Res	27.6	31.6	30.1	42.4	65%	75%	71%	92%	105%
Basin-wide Total	3374.9	3456.1	3229.2	4136.2	82%	84%	78%	105%	107%
# of reservoirs	3	3	3	3	3	3	3	3	3

Streamflow

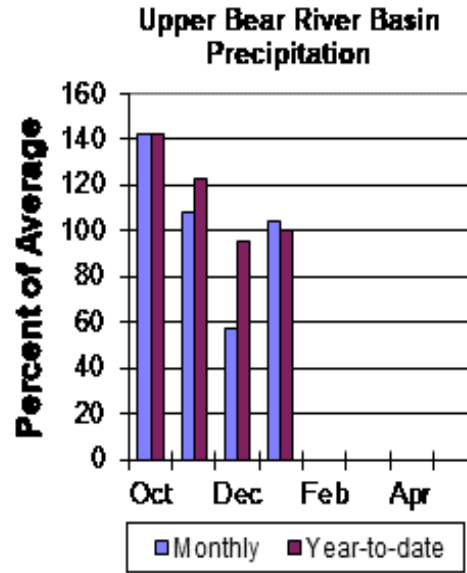
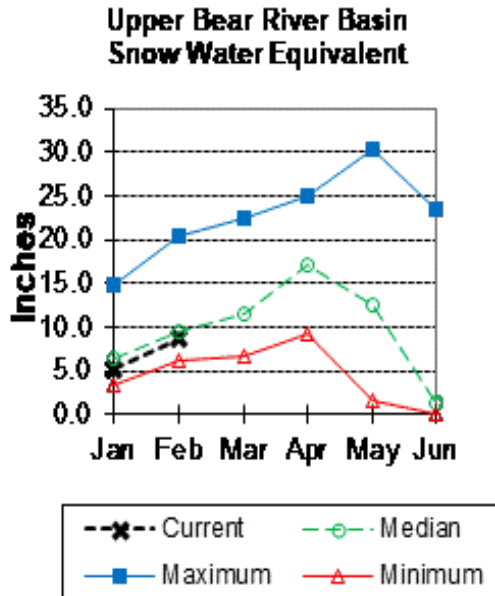
The 50% exceedance forecasts for the April through July period will be below average. The Green River near Green River will yield about 71% of average. The Flaming Gorge Reservoir inflow will be about 73% of average. *See the following page for more detailed information on projected runoff.*

		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	260	400	515	71%	645	860	730	
Blacks Fk nr Robertson									
	APR-JUL	60	78	92	107%	107	131	86	
EF of Smiths Fork nr Robertson ²									
	APR-JUL	16.5	22	26	96%	31	38	27	
Hams Fk bl Pole Ck nr Frontier									
	APR-JUL	17.3	28	37	69%	48	65	54	
Viva Naughton Reservoir Inflow									
	APR-JUL	18.6	34	48	65%	64	91	74	
Flaming Gorge Reservoir Inflow ²									
	APR-JUL	350	555	715	73%	900	1210	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									

Upper Bear River Basin

Snow

SWE in the Upper Bear River Basin of Utah is 96% of median. SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is 87% of median. Bear River Basin SWE, above the Idaho State line, is 91% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for last month was 104% of average in the basin. The year-to-date precipitation for the basin is 100% of average; it was 74% last year.

Reservoirs

Storage in Woodruff Narrows Reservoir was 36% of capacity, and about 71% of average.

UPPER BEAR RIVER BASIN	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Woodruff Narrows Reservoir	20.7	48.0	29.0	57.3	36%	84%	51%	71%	165%
Basin-wide Total	20.7	48.0	29.0	57.3	36%	84%	51%	71%	165%
# of reservoirs	1	1	1	1	1	1	1	1	1

Streamflow

The 50% exceedance forecasts for the April through September period will be below average. The Bear River above Reservoir near Woodruff to yield around 86% of average. The Smiths Fork River near Border Jct. will yield around 79%. *See below for detailed information on projected runoff.*

		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	56	80	96	86%	112	136	112	
	APR-SEP	60	87	105	85%	123	150	123	
Bear R ab Resv nr Woodruff									
	APR-JUL	18.2	70	106	88%	142	194	121	
	APR-SEP	14.2	71	110	86%	149	205	128	
Smiths Fk nr Border									
	APR-JUL	42	59	71	80%	83	100	89	
	APR-SEP	48	68	82	79%	96	116	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									

Appendix - Snowpack Data

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Report Created: 2/6/2019 9:56:04 AM

Basinwide Summary: February 1, 2019
(Averages/Medians based on 1981-2010 reference period)

Snowpack Summary for February 1, 2019

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	43	11.6	17.0	68%	19.9	117%	
Glade Creek	SC	7040	47	12.8	14.8	86%	16.4	111%	
Grassy Lake	SNOTEL	7265	59	15.6	20.3	77%	19.1	94%	
Huckleberry Divide	SC	7300	41	9.1	12.8	71%	12.9	101%	
Lewis Lake Divide	SNOTEL	7850	55	14.2	20.0	71%	22.1	111%	
Moran	SC	6750	33	4.2	8.0	53%	7.5	94%	
Snake River Station	SNOTEL	6920	40	9.5	10.9	87%	11.6	106%	
Thumb Divide	SNOTEL	7980	32	6.7	9.6	70%	11.9	124%	
Two Ocean Plateau	SNOTEL	9240	50	15.5	17.6	88%	25.4	144%	
Basin Index						76%		112%	
# 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	39	9.1	10.8	84%	12.0	111%	
Moran	SC	6750	33	4.2	8.0	53%	7.5	94%	
Two Ocean Plateau	SNOTEL	9240	50	15.5	17.6	88%	25.4	144%	
Basin Index						79%		123%	
# 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	50	13.4	15.0	89%	19.7	131%	
Turpin Meadows	SC	6900	28	6.2	6.6	94%	7.8	118%	
Younts Peak	SNOTEL	8350	26	6.3	9.6	66%			
Basin Index						91%		127%	
# of sites							2		2
GROS VENTRE RIVER									
	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median	
Elbo Ranch	SC	7100	31	7.1	7.2	99%	5.6	78%	
Gros Ventre Summit	SNOTEL	8750	21	4.8	8.4	57%	9.7	115%	
Gunsight Pass	SNOTEL	9820	33	6.7	8.3	81%	9.5	114%	
Togwotee Pass	SNOTEL	9580	50	13.4	15.0	89%	19.7	131%	
Basin Index						82%		114%	
# 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	44	10.9	13.8	79%	19.5	141%	
East Rim Divide	SNOTEL	7930	28	5.3	6.8	78%	7.1	104%	
Granite Creek	SNOTEL	6770	35	8.8	10.6	83%	10.4	98%	
Hoback GS	SC	6664	27	5.8	6.8	85%	6.1	90%	
Snow King Mountain	SC	7660			8.8		6.4	73%	
Basin Index						81%		113%	
# of sites							4		4
GREYS RIVER									
	Network	Elevation (ft)	Depth (in)	SWE (in)	Median (in)	% Median	Last Year SWE (in)	Last Year % Median	
Blind Bull Sum	SNOTEL	8650	44	10.9	13.8	79%	19.5	141%	
Cottonwood Creek	SNOTEL	7670	48	11.8	12.9	91%	13.6	105%	

Appendix - Precipitation Data

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Report Created: 2/5/2019 9:56:04 AM

Basinwide Summary: February 1, 2019
(Averages/Medians based on 1981-2010 reference period)

		Monthly Total Precipitation for January 2019						Water Year to Date Precipitation through January 2019					
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	4.8	7	69%	8.2	117%	19.4	24.1	80%	22.7	94%	
Lewis Lake Divide	SNOTEL	7850	5.1	6.3	81%	8.4	133%	18.4	23.3	79%	24.8	106%	
Snake River Station	SNOTEL	6920	3.2	4.8	70%	5.3	115%	14.2	15.6	91%	15.9	102%	
Thumb Divide	SNOTEL	7980	2.7	3.4	79%	2.8	82%	8.8	12.2	72%	12.7	104%	
Two Ocean Plateau	SNOTEL	9240	3.1	4.7	66%	4.5	96%	13.3	17.4	76%	18.8	103%	
Basin Index					73%		112%			80%		102%	
# of sites					5		5			5		5	
PACIFIC CREEK													
Base Camp	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	
Base Camp	SNOTEL	7030	2.9	4.1	71%	3.7	90%	11.1	14.1	79%	13.8	96%	
Two Ocean Plateau	SNOTEL	9240	3.1	4.7	66%	4.5	96%	13.3	17.4	76%	18.8	103%	
Basin Index					68%		93%			77%		103%	
# of sites					2		2			2		2	
BUFFALO FORK													
Yagotlee Pass	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	
Yagotlee Pass	SNOTEL	9580	3.4	4.3	79%	3.8	84%	14.3	15.9	90%	20.1	126%	
Younts Peak	SNOTEL	8350	1.7	2.7	63%			8.5	10.5	82%			
Basin Index					70%		84%			90%		126%	
# of sites					1		1			1		1	
GROS VENTRE RIVER													
Gros Ventre Summit	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	
Gros Ventre Summit	SNOTEL	8750	1.6	2.1	76%	1.8	78%	5.8	8.3	70%	9.1	110%	
Gunsight Pass	SNOTEL	9920	2.1	2.4	88%	1.5	63%	9	8.9	101%	9.8	110%	
Yagotlee Pass	SNOTEL	9580	3.4	4.3	79%	3.8	84%	14.3	15.9	90%	20.1	126%	
Basin Index					81%		78%			88%		118%	
# of sites					3		3			3		3	
HOBACK RIVER													
Blind Bull Sum	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	
Blind Bull Sum	SNOTEL	8650	2.2	3.5	63%	3.4	97%	9.2	12.9	71%	12.1	94%	
East Rim Divide	SNOTEL	7930	1.1	2.2	50%	2	91%	5.8	7.7	75%	7.3	95%	
Granite Creek	SNOTEL	6770	3	4.2	71%	3.8	86%	10.8	13.7	79%	13.2	96%	
Basin Index					64%		91%			75%		95%	
# of sites					3		3			3		3	
GREYS RIVER													
Blind Bull Sum	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	
Blind Bull Sum	SNOTEL	8650	2.2	3.5	63%	3.4	97%	9.2	12.9	71%	12.1	94%	
Cottonwood Creek	SNOTEL	7870	4.1	4.7	87%	5.8	123%	14.8	15.9	92%	15.5	97%	
Spring Creek Divide	SNOTEL	9000	3.8	4.5	84%	4.8	107%	14	15.4	91%	15.4	100%	
Triple Peak	SNOTEL	8500	3.4	5.1	67%	4.8	94%	14.3	18.1	80%	17.9	111%	
Willow Creek	SNOTEL	8380	4.9	6	82%	6.8	110%	19	21.7	88%	22.2	102%	
Basin Index					77%		107%			87%		101%	
# of sites					5		5			5		5	
SALT RIVER													
Cottonwood Creek	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	
Cottonwood Creek	SNOTEL	7870	4.1	4.7	87%	5.8	123%	14.8	15.9	92%	15.5	97%	
Salt River Summit	SNOTEL	7780	2.5	3.1	81%	2.4	77%	8.8	10.7	82%	8.1	76%	
Willow Creek	SNOTEL	8380	4.9	6	82%	6.8	110%	19	21.7	88%	22.2	102%	
Basin Index					83%		107%			88%		95%	
# of sites					3		3			3		3	
SNAKE RIVER BASIN													
Afton	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	
Afton	COOP	6210	1.81	1.4	115%	1.42	101%	6.89	5.78	119%	6.31	110%	
Alta 1 NW	COOP	6430	2.4	2.47	97%	1.42	57%	8.2	8.96	92%	8.06	90%	
Base Camp	SNOTEL	7030	2.9	4.1	71%	3.7	90%	11.1	14.1	79%	13.8	96%	
Bedford 3 SE	COOP	6430	2.25	2.1	107%			9.68	7.75	125%			
Black Bear	SNOTEL	8170	6.1	7	87%	8.7	124%	19.7	25	79%	25.7	103%	
Blind Bull Sum	SNOTEL	8650	2.2	3.5	63%	3.4	97%	9.2	12.9	71%	12.1	94%	
Bondurant	COOP	6620	1.85	2.12	78%	1.9	90%	8.98	7.74	82%	7.88	102%	
Cottonwood Creek	SNOTEL	7870	4.1	4.7	87%	5.8	123%	14.8	15.9	92%	15.5	97%	
Darwin Ranch	COOP	8180	0.88	1.01	88%	1.8	178%	3.54	4.75	75%	7.49	158%	
East Rim Divide	SNOTEL	7930	1.1	2.2	50%	2	91%	5.8	7.7	75%	7.3	95%	
Grand Targhee	SNOTEL	9280	4.8	5.9	78%	5.3	90%	20.8	20.7	100%	19.8	95%	
Granite Creek	SNOTEL	6770	3	4.2	71%	3.8	86%	10.8	13.7	79%	13.2	96%	
Grassy Lake	SNOTEL	7265	4.8	7	69%	8.2	117%	19.4	24.1	80%	22.7	94%	
Gros Ventre Summit	SNOTEL	8750	1.6	2.1	76%	1.8	78%	5.8	8.3	70%	9.1	110%	
Gunsight Pass	SNOTEL	9920	2.1	2.4	88%	1.5	63%	9	8.9	101%	9.8	110%	
Jackson	COOP	8230	0.88	1.23	70%	1.5	122%	4.58	5.88	81%	6.22	110%	
Lewis Lake Divide	SNOTEL	7850	5.1	6.3	81%	8.4	133%	18.4	23.3	79%	24.8	106%	
Lorris Park	SNOTEL	8240	2.1	3.1	68%	2.8	90%	9.1	11.3	81%	10.8	94%	
Moose	COOP	6470	1.58	2.58	60%	1.82	63%	8.87	9.38	71%	7.81	83%	
Moran 5 WNW	COOP	6790	2.33	2.88	81%	2.15	75%	8.11	10.43	78%	10.7	103%	

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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:

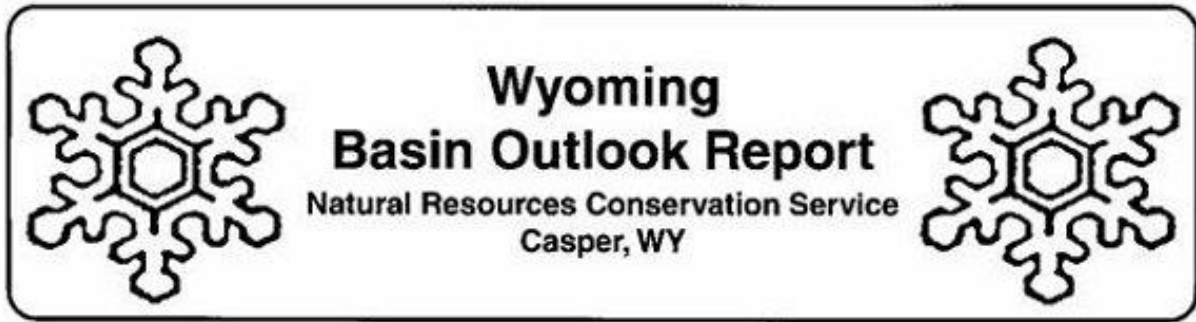
The Wyoming State Engineer's Office

The University of Wyoming

Local:

The City of Cheyenne

The City of Rawlins



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