

Wyoming Basin & Water Supply Outlook Report

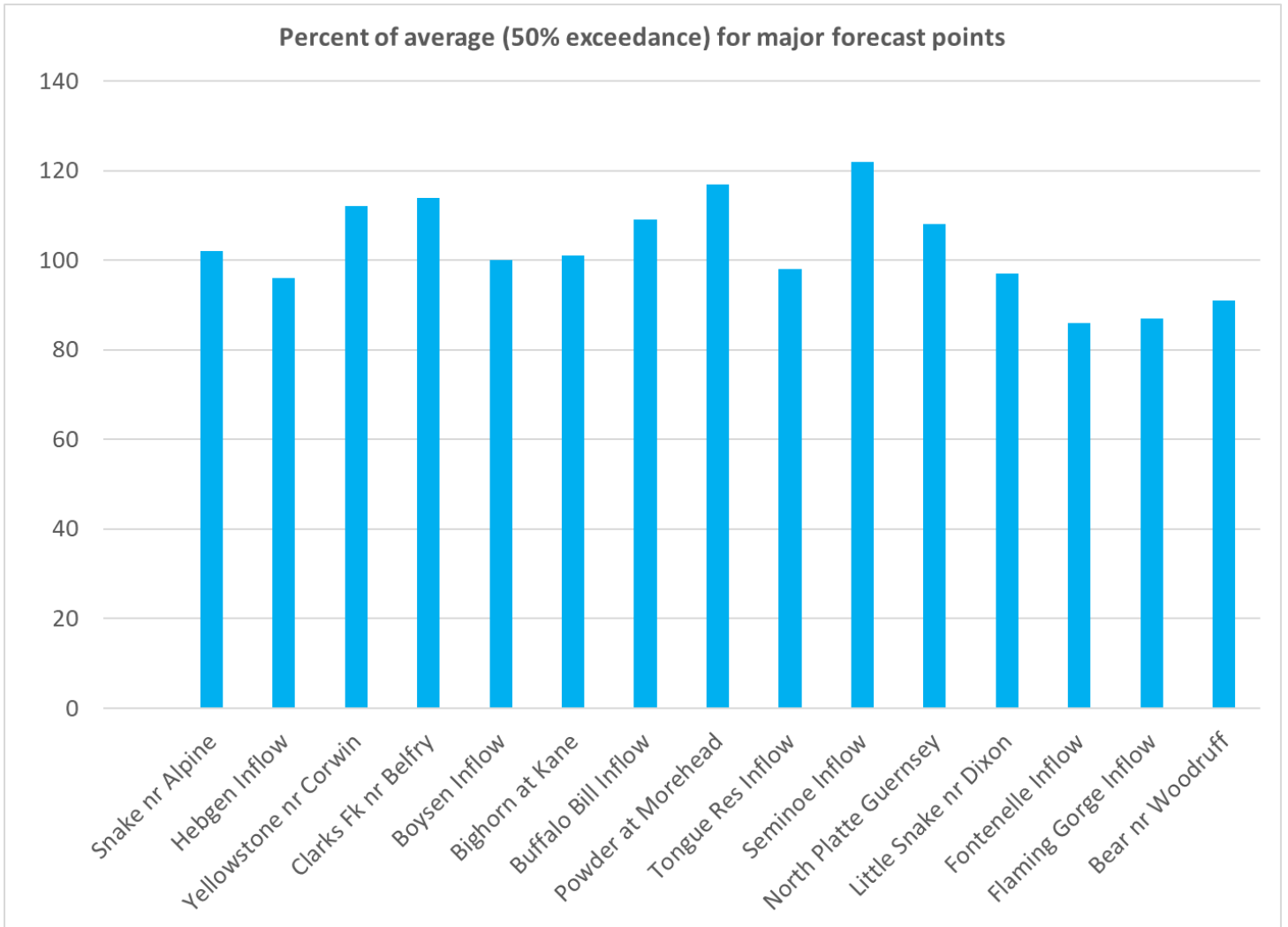
April 1, 2020

**Natural
Resources
Conservation
Service**



Middle Teton, Grand Teton, and Teewinot Mountain, Wyoming, Photo credit – NRCS

Forecasted stream flows for April 1st, 2020



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 Basin & Water Supply Outlook Report

Snowpack

Snow water equivalent (SWE) across Wyoming for April 1st was at 113% of median. SWE in the Belle Fourche River Basin was the highest at 132% of median, while SWE in the Sweetwater River Basin was the lowest at 78% of median. *See the map on page 5 and the Appendix for further information.*

Precipitation

The Madison-Gallatin Basin had the highest precipitation for the month at 133% of average. The Cheyenne River Basin had the lowest precipitation amount at 28% 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	Basin	Departure from average
Snake River	+18%	Upper North Platte River	-15%
Madison-Gallatin	+33%	Sweetwater River	-23%
Yellowstone River	+30%	Lower North Platte River	-38%
Wind River	-22%	Laramie River	-24%
Bighorn River	-51%	North Platte River (Total)	-20%
Shoshone River	+6%	South Platte River	-20%
Powder River	-45%	Little Snake River	-16%
Tongue River	-56%	Upper Green River	-10%
Belle Fourche River	-65%	Lower Green River	-4%
Cheyenne River	-72%	Upper Bear River	+4%

Streams

Forecast stream flow yields for April thru September across Wyoming average 101%. The Snake River, Madison, and Upper Yellowstone River Basins should yield about 106%, 96% and 112% of average, respectively. Yields from the Wind and Bighorn River Basins should be about 97% and 101% of average. Yields from the Shoshone and Clarks Fork River Basins of Wyoming should be about 109% and 114% of average. Yields from the Powder and Tongue River Basins should be about 109% and 97% of average. Yield for the Cheyenne River Basin should be about 115% of average. Yields for the Sweetwater, Upper North Platte, Lower North Platte, and Laramie Rivers of Wyoming should be about 41%, 118%, 110%, and 126% of average, respectively. Yields for the Little Snake, Green River, Bear River, and Smith's Fork of Wyoming should be 98%, 86%, 94%, and 109% respectively.

Reservoirs

Reservoir storage was above average at 120% across the entire state. Reservoirs in the Snake River Basin are above average at 142%. Reservoirs in the Madison-Gallatin Basin are above average at 110%. Reservoirs in the Wind River Basin are above average at 111%. Reservoirs on the Big Horn are slightly above average at 103%. The Buffalo Bill Reservoir on the Shoshone is well above average at 131%. The Tongue River Basin Reservoir is also well above average at 178%. Reservoirs in the Belle Fourche and Cheyenne River Basins are above average at 141% and 112% respectively. Reservoirs on the Upper and Lower North Platte River are above average at 156% and 132% respectively. Reservoirs on the Upper Green River are above average at 113%. Reservoirs on the Lower Green River Basin are above average at 107% and are above average on the Upper Bear River Basin at 151%. *See*

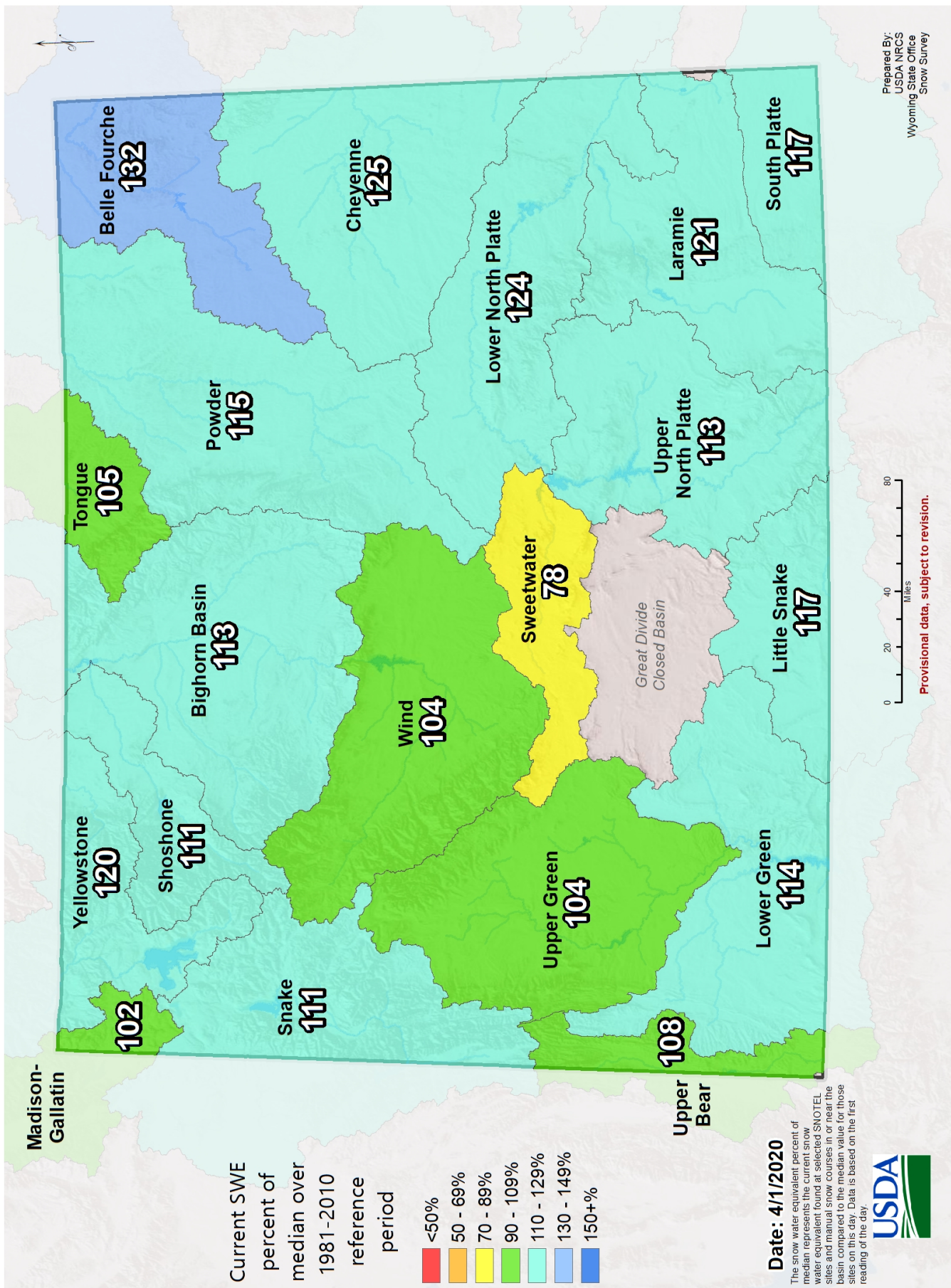
below for further information.

Wyoming Reservoir Levels

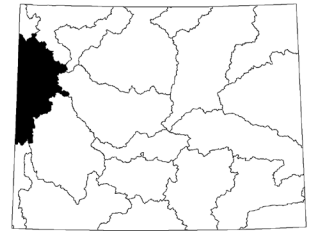
Reservoir Storage Summary for the end of March 2020

	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)	Current % Capacity	Last Year % Capacity	Average % Capacity	Current % Average	Last Year % Average
Alcova	158.1	157.8	158.5	184.3	86%	86%	86%	100%	100%
Angostura	104.5	106.0	94.3	122.1	86%	87%	77%	111%	112%
Belle Fourche	144.5	151.6	133.5	178.4	81%	85%	75%	108%	114%
Big Sandy	24.5	17.6	19.9	38.3	64%	46%	52%	123%	89%
Bighorn Lake	780.2	783.2	787.5	1356.0	58%	58%	58%	99%	99%
Boysen	539.6	531.5	489.0	596.0	91%	89%	82%	110%	109%
Buffalo Bill	455.7	431.0	348.9	646.6	70%	67%	54%	131%	124%
Bull Lake	91.4	80.3	75.4	151.8	60%	53%	50%	121%	107%
Deerfield	14.8	15.0	14.1	15.2	98%	99%	93%	105%	106%
Ennis Lake	28.9	28.9	29.5	41.0	70%	70%	72%	98%	98%
Flaming Gorge Reservoir	3220.1	3185.0	3020.0	3749.0	86%	85%	81%	107%	105%
Fontenelle	135.8	95.1	121.7	344.8	39%	28%	35%	112%	78%
Glendo	402.6	381.7	389.4	506.4	79%	75%	77%	103%	98%
Grassy Lake	13.3	13.3	12.3	15.2	87%	87%	81%	108%	108%
Guernsey	28.2	18.0	20.0	45.6	62%	39%	44%	141%	90%
Hebgen Lake	300.8	303.8	270.4	378.8	79%	80%	71%	111%	112%
High Savery Reservoir		7.3	13.1	22.4		33%	58%		56%
Jackson Lake	642.1	660.7	430.7	847.0	76%	78%	51%	149%	153%
Keyhole	187.4	212.3	96.8	193.8	97%	110%	50%	194%	219%
PactoLa	54.7	52.7	46.4	55.0	100%	96%	84%	118%	114%
Palisades Reservoir	1252.9	1124.2	902.8	1400.0	89%	80%	64%	139%	125%
Pathfinder	957.8	642.7	604.6	1016.5	94%	63%	59%	158%	106%
Pilot Butte	23.8	24.0	24.8	31.6	75%	76%	78%	96%	97%
Seminole	748.3	616.0	481.2	1016.7	74%	61%	47%	156%	128%
Shadehill	76.2	142.7	59.0	81.4	94%	175%	72%	129%	242%
Tongue River Res	57.6	69.7	32.3	79.1	73%	88%	41%	178%	216%
Viva Naughton Res	28.6	25.9	27.2	42.4	67%	61%	64%	105%	95%
Wheatland #2		42.0	51.0	98.9		42%	52%		82%
Woodruff Narrows Reservoir	57.8	25.3	38.4	57.3	101%	44%	67%	151%	66%

Wyoming Basins Snow Water Equivalent (SWE) % of Median - Includes Manual Snow Course



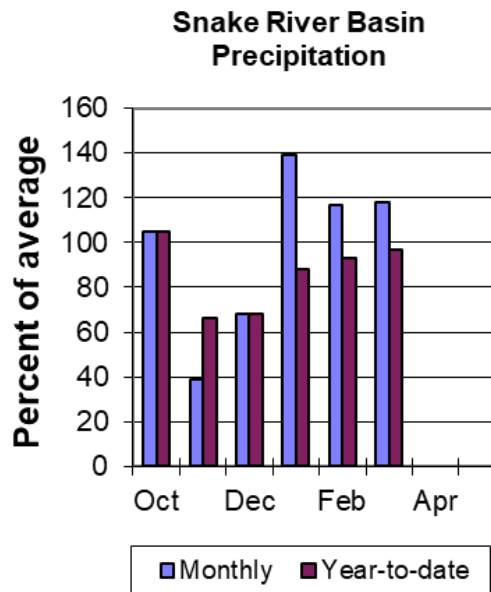
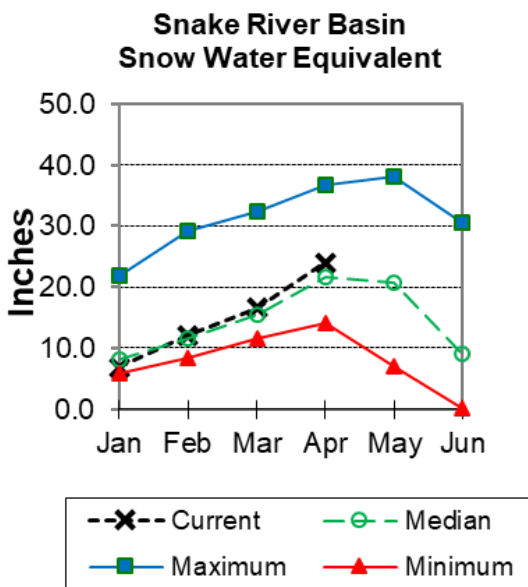
Snake River Basin



Snow

The overall Snake River Basin SWE (portion above Palisades dam) is 111% of median. SWE in the Snake River Basin above Jackson Lake is 106% of median. Pacific Creek Basin SWE is 120% of median. Buffalo Fork SWE is 119% of median. Gros Ventre River Basin SWE is 109% of median. SWE in the Hoback River drainage is 113% of median. SWE in the Greys River drainage is 122% of median. Salt River Basin SWE is 126% 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 118% of average. Water-year-to-date precipitation is 97% of average.

Reservoirs

Current reservoir storage is 142% of average for the three storage reservoirs in the basin.

Reservoir Storage Summary for the end of March 2020									
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	13.3	13.3	12.3	15.2	87%	87%	81%	108%	108%
Jackson Lake	642.1	660.7	430.7	847.0	76%	78%	51%	149%	153%
Palisades Reservoir	1252.9	1124.2	902.8	1400.0	89%	80%	64%	139%	125%
Basin-wide Total	1908.0	1798.2	1345.8	2262.2	84%	79%	59%	142%	134%
# of reservoirs	3	3	3	3	3	3	3	3	3

Streamflow

The 50% exceedance forecasts for April through September are average for this basin. The Snake near Moran yield is 95% of average. Snake River above Reservoir near Alpine will yield about 102%. Pacific Creek near Moran Yield will be around 101%. Buffalo Fork above Lava near Moran yield will be around 103% of average. Greys River above Palisades Reservoir yield about 111%. Salt River near Etna yield will be about 122%.

See the following table 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	600	675	730	95%	780	860	765
	APR-SEP	660	745	805	95%	865	955	845
Snake R ab Reservoir nr Alpine ²	APR-JUL	1900	2100	2230	103%	2360	2550	2170
	APR-SEP	2170	2390	2550	102%	2700	2930	2500
Snake R nr Irwin ²	APR-JUL	2700	3000	3210	107%	3410	3720	3010
	APR-SEP	3110	3470	3710	106%	3960	4320	3500
Snake R nr Heise ²	APR-JUL	2910	3230	3450	106%	3660	3980	3240
	APR-SEP	3380	3750	4010	106%	4260	4640	3780
Pacific Ck at Moran	APR-JUL	120	147	165	101%	184	210	164
	APR-SEP	127	155	174	101%	194	220	173
Buffalo Fk ab Lava Ck nr Moran	APR-JUL	240	270	295	105%	315	345	280
	APR-SEP	270	305	330	103%	355	395	320
Greys R ab Reservoir nr Alpine	APR-JUL	290	320	345	113%	365	395	305
	APR-SEP	335	370	400	111%	425	460	360
Salt R ab Reservoir nr Etna	APR-JUL	270	330	370	123%	410	470	300
	APR-SEP	330	400	450	122%	495	565	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

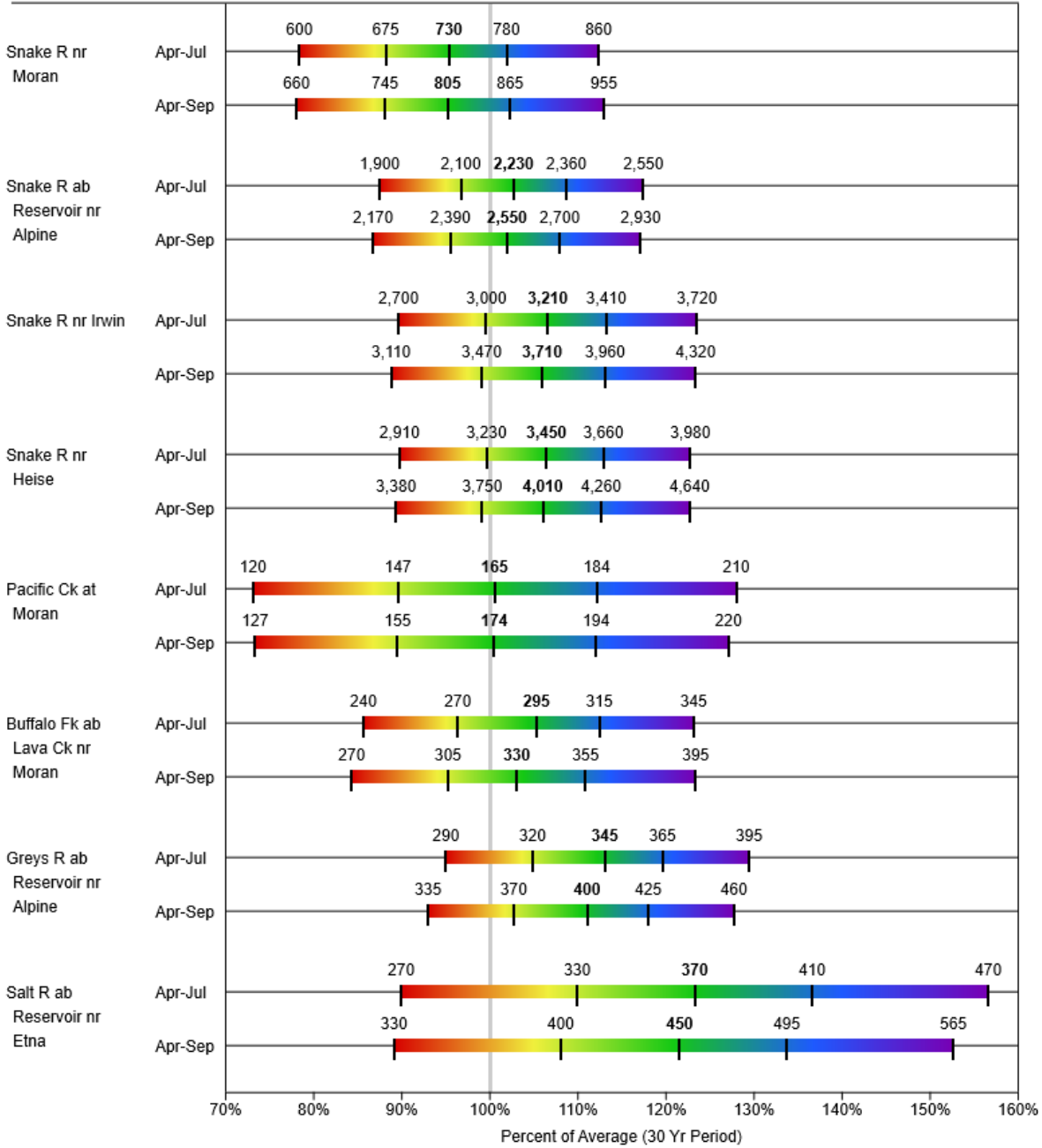
3) Median value used in place of average

SNAKE RIVER BASIN
Water Supply Forecasts
April 1, 2020

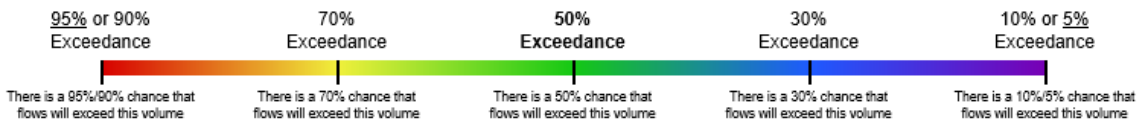
Forecast Exceedance Probabilities

< ----- Drier ----- Future Conditions ----- Wetter ----- >

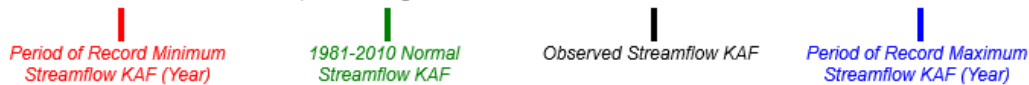
Labels on chart represent volumes of water expressed in thousand acre-feet.



Legend

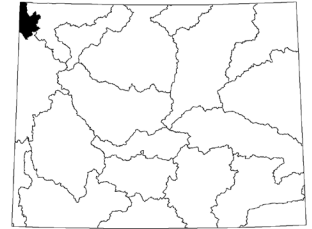


When selected, the following historic streamflow values and statistics will be shown.



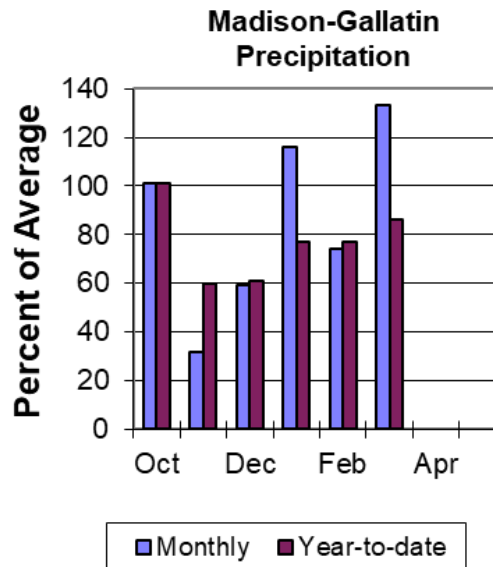
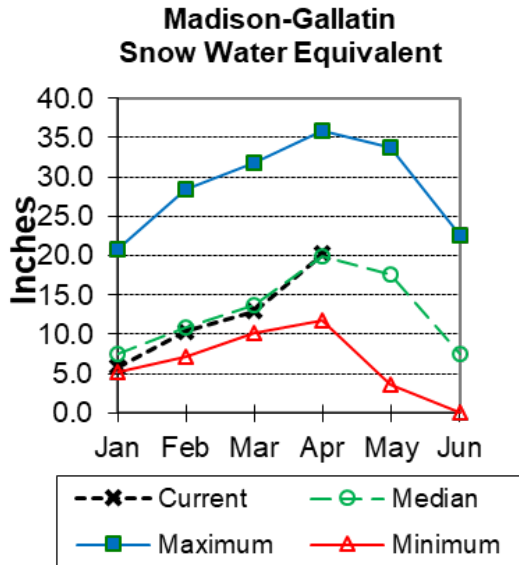
Some forecasts may be for volumes that are regulated or influenced by diversions and water management.

Madison-Gallatin Rivers Basin



Snow

SWE is 102% 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 133% of average. Water-year-to-date precipitation is at 86% of average.

Reservoirs

Current reservoir storage is 110% of average in the basin.

Reservoir Storage Summary for the end of March 2020									
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	29.5	41.0	70%	70%	72%	98%	98%
Hebgen Lake	300.8	303.8	270.4	378.8	79%	80%	71%	111%	112%
Basin-wide Total	329.7	332.7	299.9	419.8	79%	79%	71%	110%	111%
# of reservoirs	2	2	2	2	2	2	2	2	2

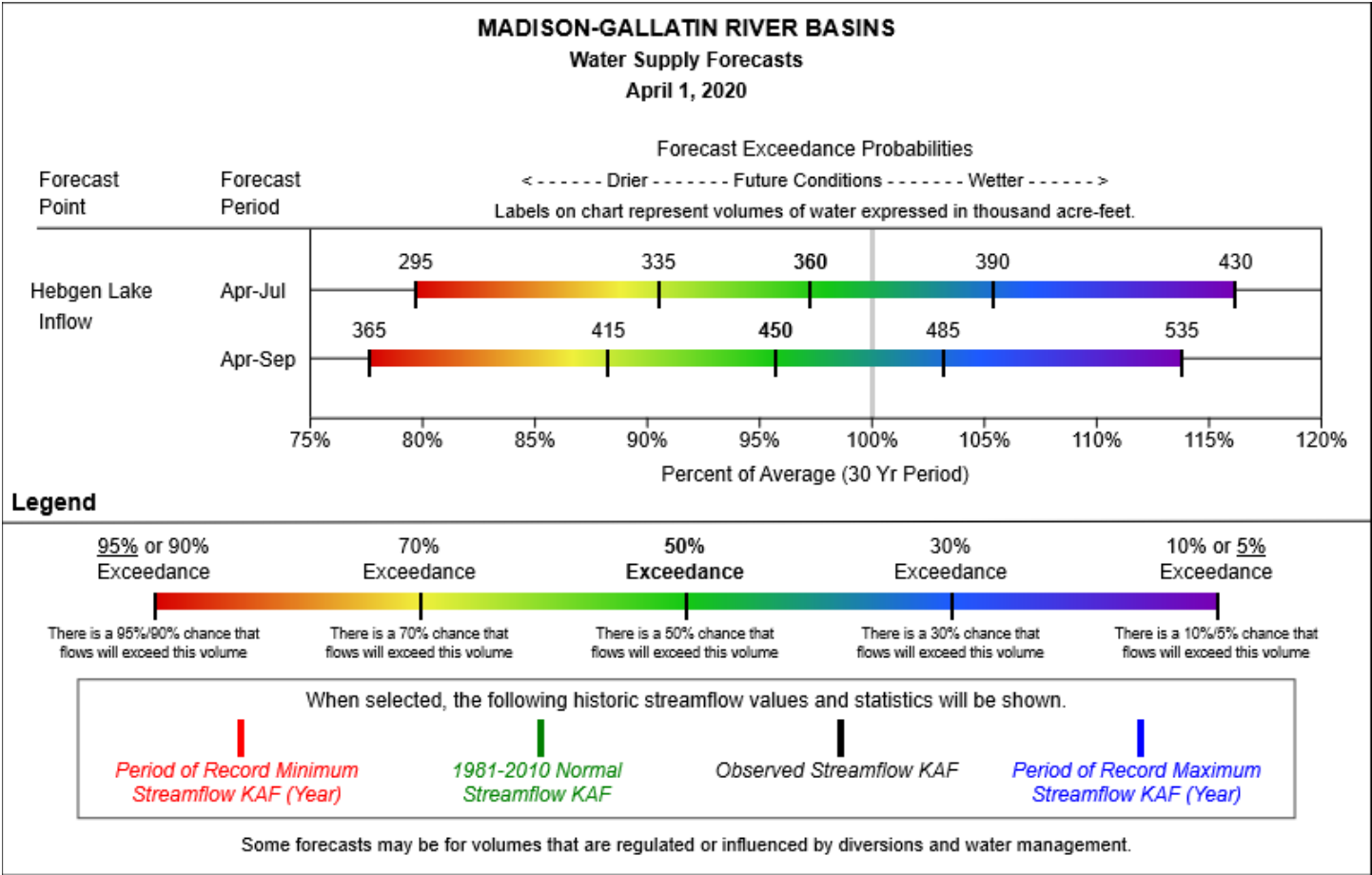
Streamflow

The 50% exceedance forecast for April through September is slightly below average for the basin. Hebgen Reservoir inflow is 96% of average. *See below for detailed runoff volumes.*

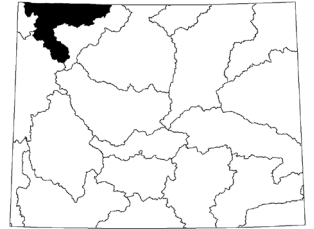
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

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	295	335	360	97%	390	430	370
	APR-SEP	365	415	450	96%	485	535	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

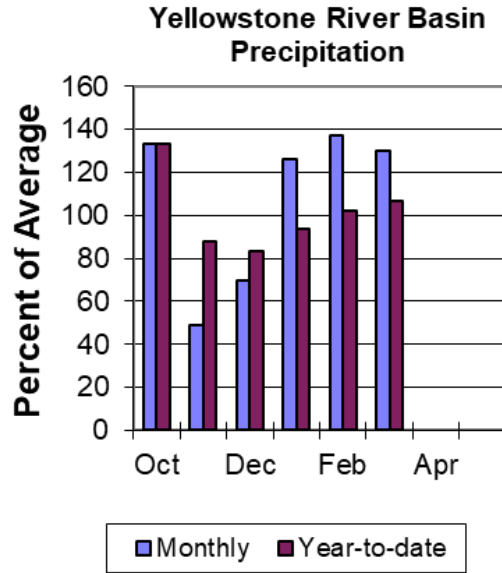
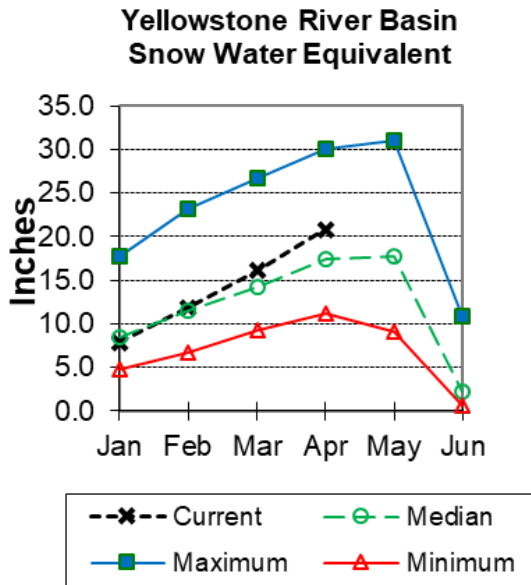


Yellowstone River Basin



Snow

SWE in the Yellowstone River Basin is 120% of median. SWE in the Clarks Fork Drainage of the Yellowstone River Basin in Wyoming is 120% 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 130% of average. Water-year-to-date precipitation is 107% of average.

Reservoirs

No reservoir data.

Streamflow

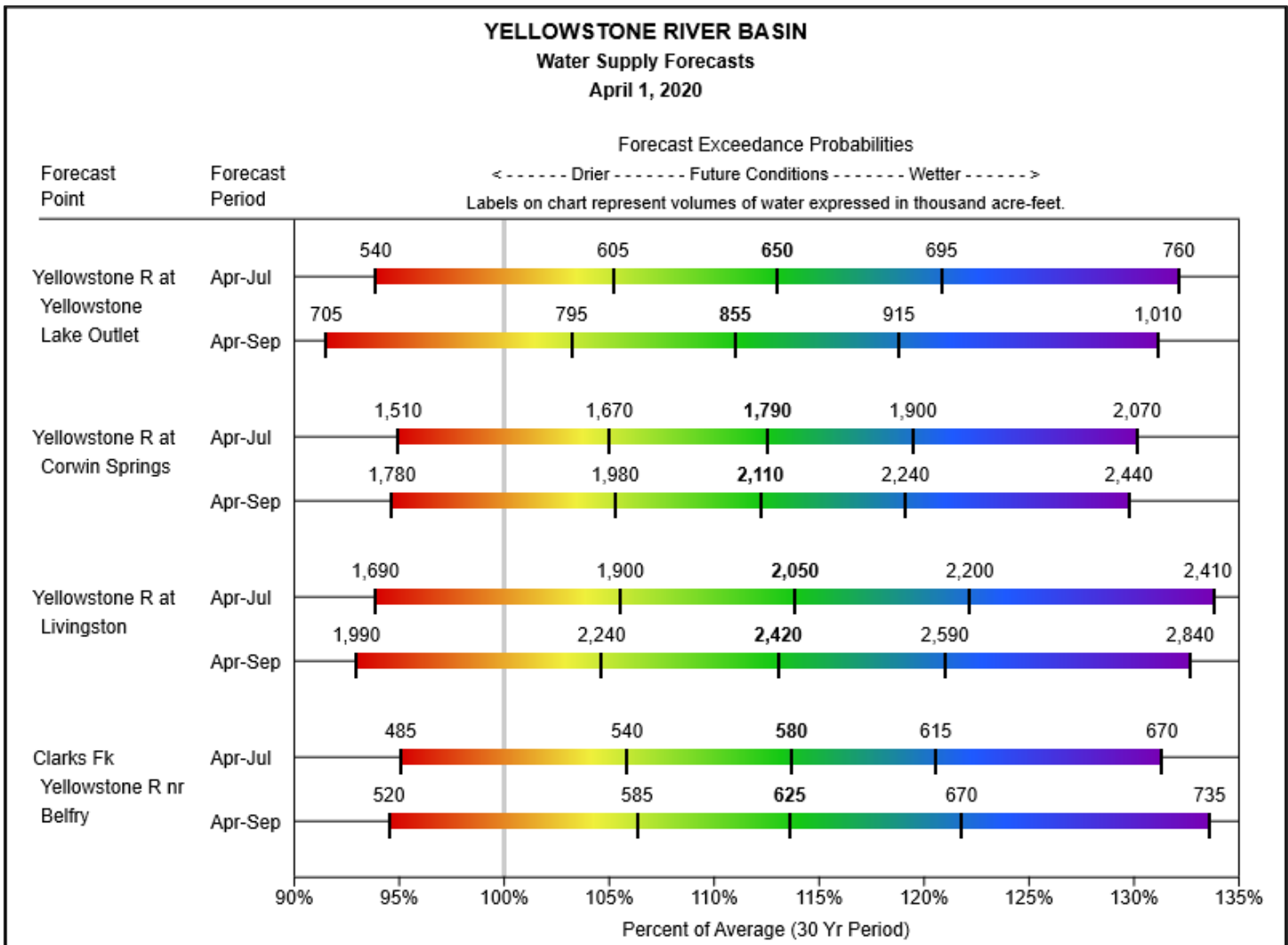
The 50% exceedance forecasts for April through September are above average for the basin. Yellowstone at Lake Outlet will yield around 111% of average. Yellowstone at Corwin Springs will yield around 112%. Clarks Fork of the Yellowstone near Belfry will yield around 114%.

See the following for further information.

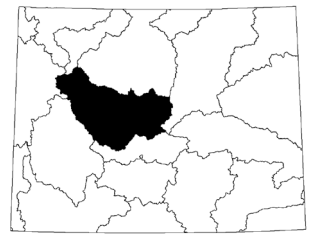
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

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	540	605	650	113%	695	760	575
	APR-SEP	705	795	855	111%	915	1010	770
Yellowstone R at Corwin Springs								
	APR-JUL	1510	1670	1790	113%	1900	2070	1590
	APR-SEP	1780	1980	2110	112%	2240	2440	1880
Yellowstone R at Livingston								
	APR-JUL	1690	1900	2050	114%	2200	2410	1800
	APR-SEP	1990	2240	2420	113%	2590	2840	2140
Clarks Fk Yellowstone R nr Belfry ²								
	APR-JUL	485	540	580	114%	615	670	510
	APR-SEP	520	585	625	114%	670	735	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

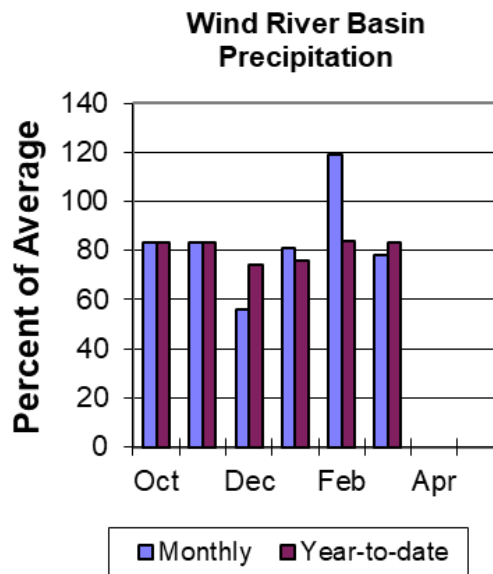
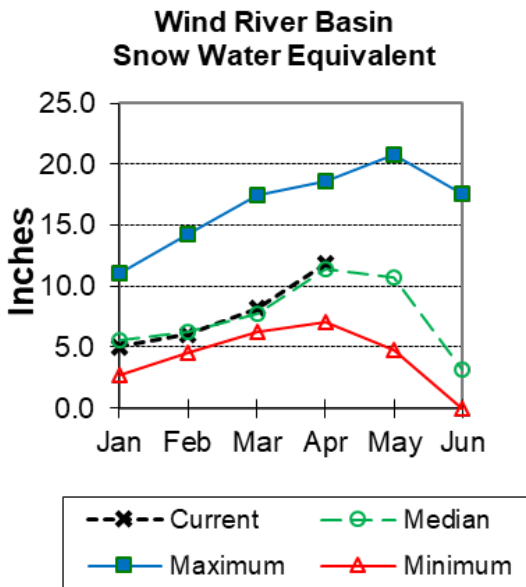


Wind River Basin



Snow

Wind River Basin SWE (above Boysen Reservoir) is 104% of median. SWE in the Wind River above Dubois is 123% of median. Little Wind SWE is 89% of median, and Popo Agie drainage SWE is 95% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

February precipitation for the basin was 78% of average. Water year-to-date precipitation is 83% of average.

Reservoirs

Current storage is 111% of average in the basin.

Reservoir Storage Summary for the end of March 2020									
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	91.4	80.3	75.4	151.8	60%	53%	50%	121%	107%
Boysen	539.6	531.5	489.0	596.0	91%	89%	82%	110%	109%
Pilot Butte	23.8	24.0	24.8	31.6	75%	76%	78%	96%	97%
Basin-wide Total	654.8	635.8	589.2	779.4	84%	82%	76%	111%	108%
# of reservoirs	3	3	3	3	3	3	3	3	3

Streamflow

The 50% exceedance forecasts for the April through September runoff period are above average for the Wind River. The Wind River above Bull Lake Creek will yield about 113% of

average. Little Popo Agie River near Lander should yield around 78% of average. Little Wind River near Riverton will yield around 81% of average. Boysen Reservoir inflow will yield about 100% of average. *See the following table 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	53	61	66	100%	71	79	66
	APR-SEP	77	86	92	100%	98	107	92
Wind R Ab Bull Lake Ck	APR-JUL	375	460	515	113%	575	655	455
	APR-SEP	400	490	555	113%	620	710	490
Bull Lake Ck nr Lenore	APR-JUL	96	116	129	93%	142	162	139
	APR-SEP	117	141	157	93%	173	196	169
Wind R at Riverton	APR-JUL	380	475	535	113%	600	690	475
	APR-SEP	450	555	625	114%	695	800	550
Little Popo Agie R nr Lander	APR-JUL	13.6	25	33	79%	41	52	42
	APR-SEP	17.8	30	38	78%	46	58	49
Little Wind R nr Riverton	APR-JUL	48	150	220	81%	290	390	270
	APR-SEP	58	166	240	81%	315	420	295
Boysen Reservoir Inflow	APR-JUL	260	470	615	101%	760	970	610
	APR-SEP	285	510	665	100%	815	1040	665

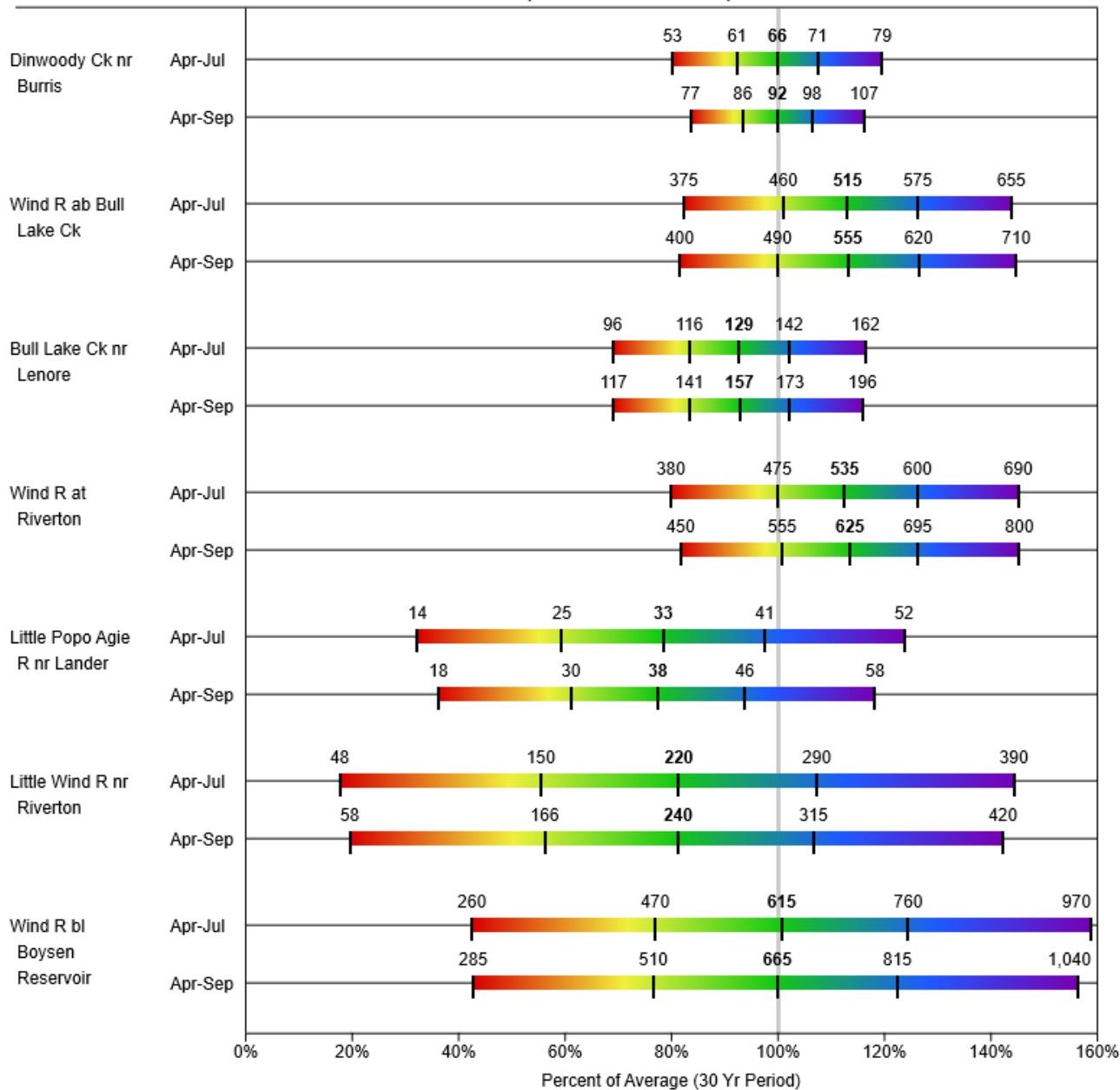
- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
- 2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
- 3) Median value used in place of average

WIND RIVER BASIN
Water Supply Forecasts
April 1, 2020

Forecast Exceedance Probabilities

<----- Drier ----- Future Conditions ----- Wetter ----->

Labels on chart represent volumes of water expressed in thousand acre-feet.

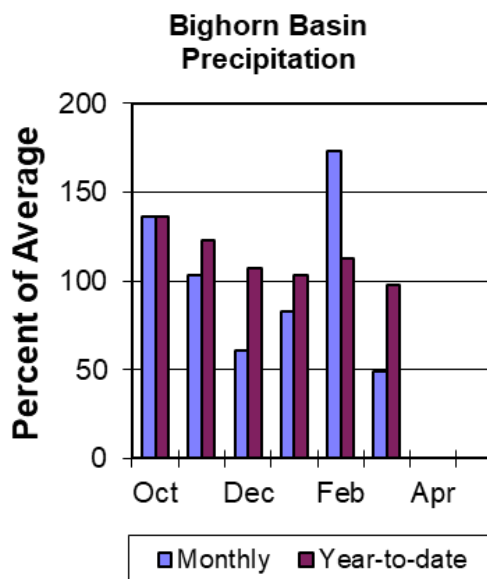
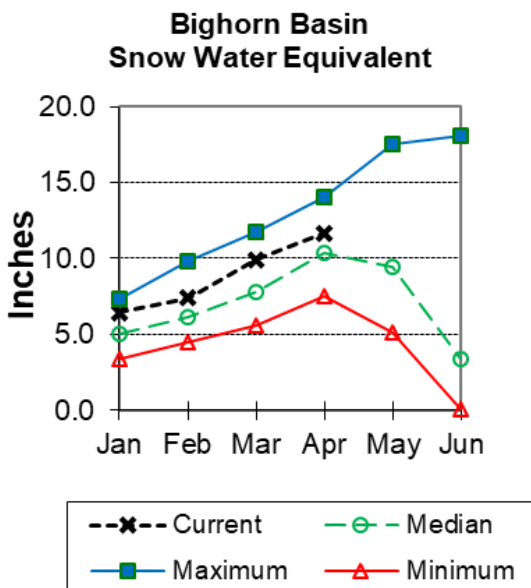


Bighorn River Basin



Snow

The Bighorn River Basin SWE (above Bighorn Reservoir) is 113% of median. The Nowood River is at 120% of median. The Greybull River SWE is at 115% of median. Shell Creek SWE is at 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 49% of average. Year-to-date precipitation is 98% of average.

Reservoirs

Current reservoir storage in the basin is 103% of average.

Reservoir Storage Summary for the end of March 2020									
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	539.6	531.5	489.0	596.0	91%	89%	82%	110%	109%
Bighorn Lake	780.2	783.2	787.5	1356.0	58%	58%	58%	99%	99%
Basin-wide Total	1319.9	1314.7	1276.5	1952.0	68%	67%	65%	103%	103%
# of reservoirs	2	2	2	2	2	2	2	2	2

Streamflow

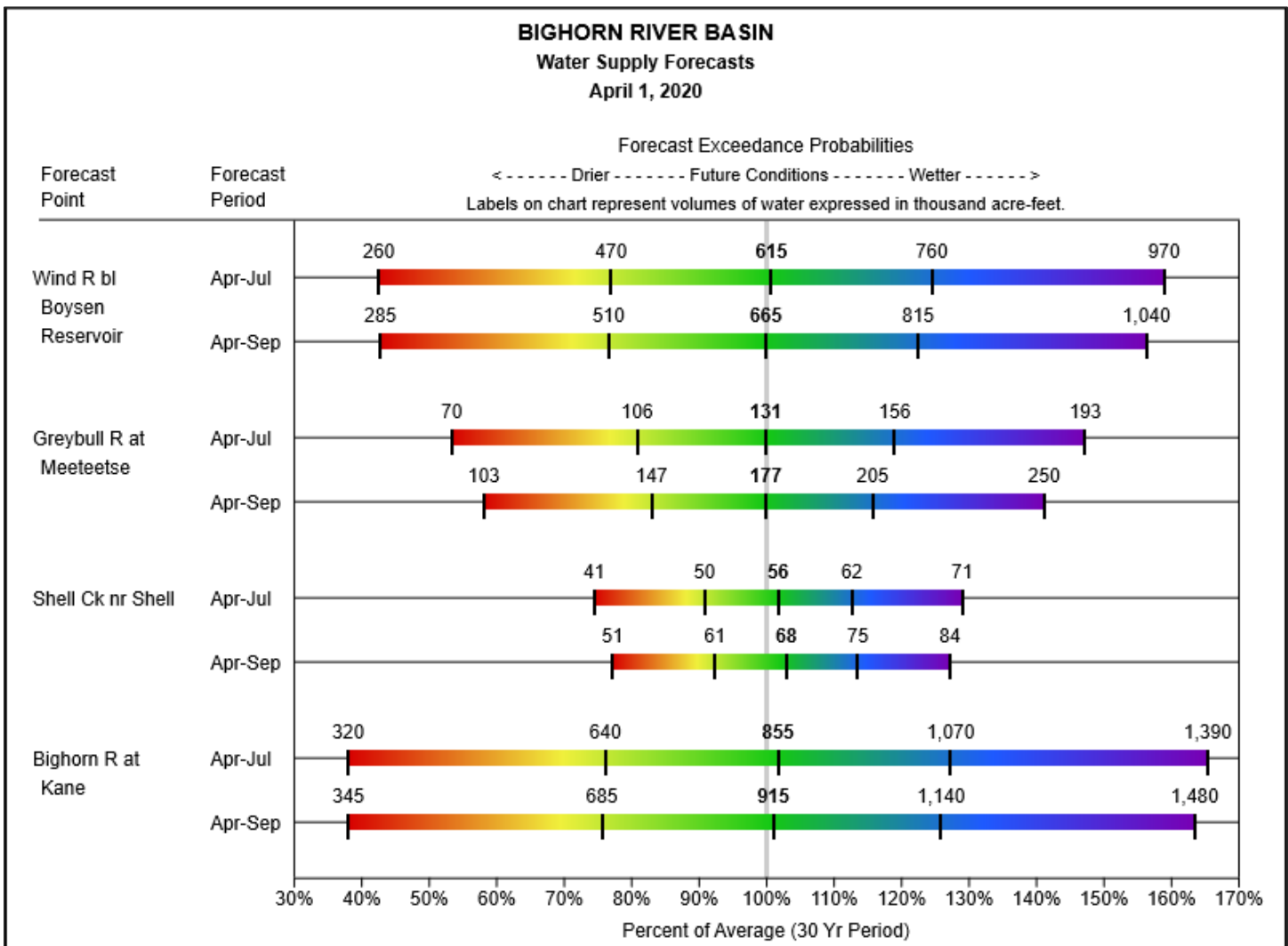
The 50% exceedance forecasts for the April through September runoffs are near average. Boysen Reservoir inflow has a forecasted yield 100% of average; the Greybull River near Meeteetse yielding around 100% of average; Shell Creek near Shell yielding around 103% of average and the Bighorn River at Kane to yield around 101% of average.

See the following for detailed runoff volumes.

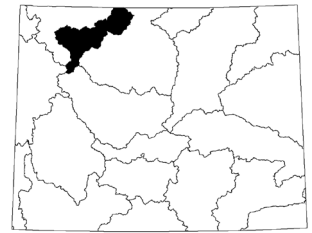
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

BIGHORN RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Boysen Reservoir Inflow	APR-JUL	260	470	615	101%	760	970	610
	APR-SEP	285	510	665	100%	815	1040	665
Greybull R nr Meeteetse	APR-JUL	70	106	131	100%	156	193	131
	APR-SEP	103	147	177	100%	205	250	177
Shell Ck nr Shell	APR-JUL	41	50	56	102%	62	71	55
	APR-SEP	51	61	68	103%	75	84	66
Bighorn R at Kane	APR-JUL	320	640	855	102%	1070	1390	840
	APR-SEP	345	685	915	101%	1140	1480	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

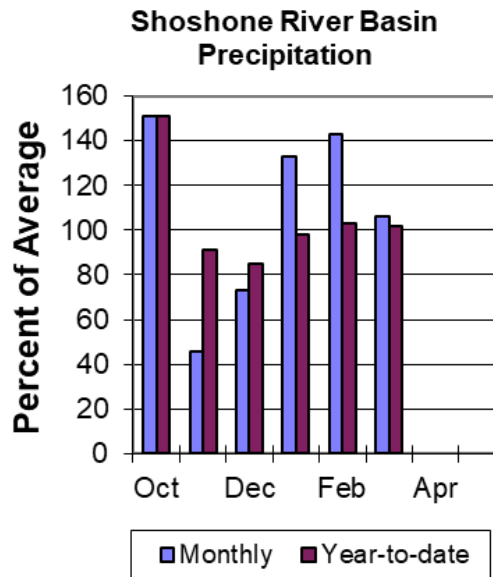
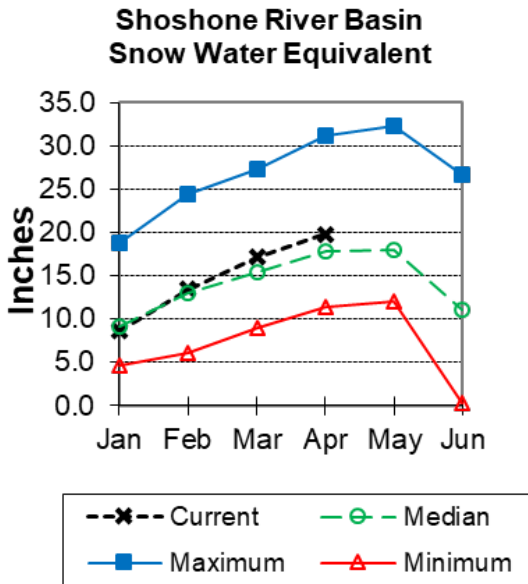


Shoshone River Basin



Snow

Snow Water Equivalent (SWE) is 111% of median in this basin. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for last month was 106% of average. The basin year-to-date precipitation is now 102% of average.

Reservoirs

Current storage in Buffalo Bill Reservoir is about 131% of average.

Reservoir Storage Summary for the end of March 2020

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	455.7	431.0	348.9	646.6	70%	67%	54%	131%	124%
Basin-wide Total	455.7	431.0	348.9	646.6	70%	67%	54%	131%	124%
# of reservoirs	1	1	1	1	1	1	1	1	1

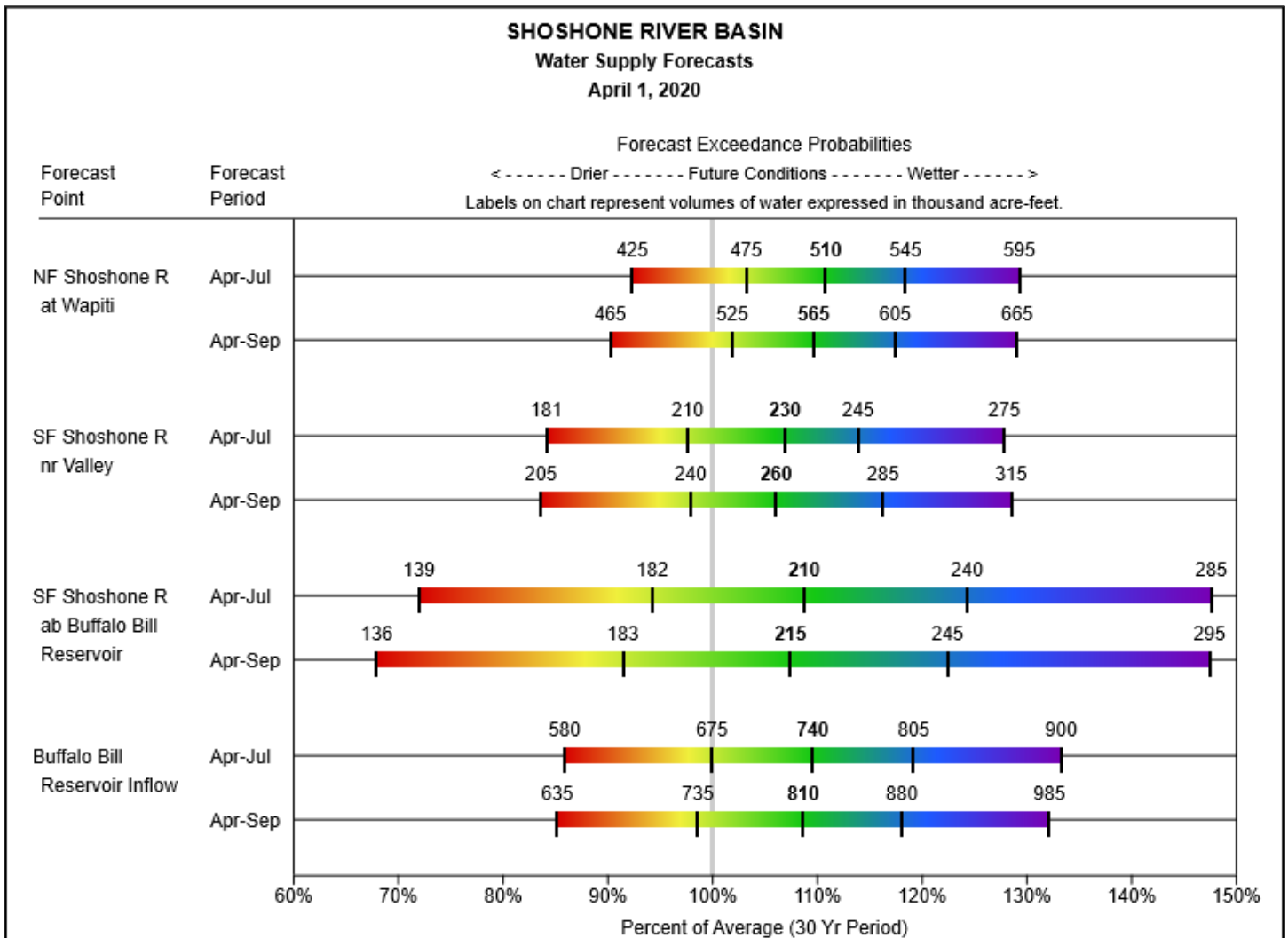
Streamflow

The 50% exceedance forecasts for the April through September period are slightly above average for the basin. The North Fork Shoshone River at Wapiti will yield 110% of average. The South Fork of the Shoshone River near Valley would yield 106% of average. The Buffalo Bill Reservoir inflow to yield 109%. *See the following for detailed runoff volumes.*

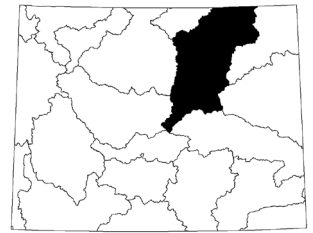
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

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	425	475	510	111%	545	595	460
	APR-SEP	465	525	565	110%	605	665	515
SF Shoshone R nr Valley	APR-JUL	181	210	230	107%	245	275	215
	APR-SEP	205	240	260	106%	285	315	245
SF Shoshone R ab Buffalo Bill Reservoir	APR-JUL	139	182	210	109%	240	285	193
	APR-SEP	136	183	215	108%	245	295	200
Buffalo Bill Reservoir Inflow ²	APR-JUL	580	675	740	110%	805	900	675
	APR-SEP	635	735	810	109%	880	985	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

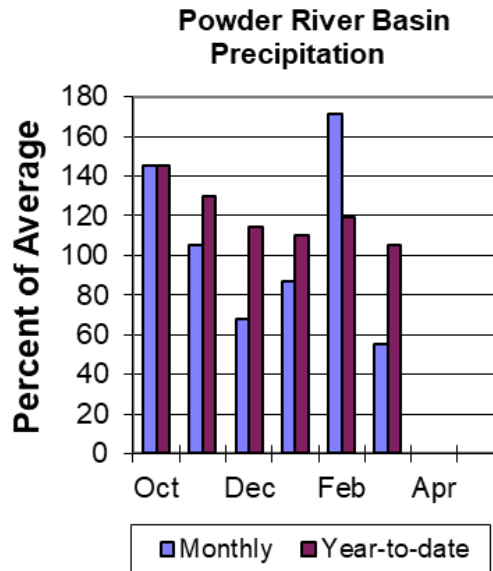
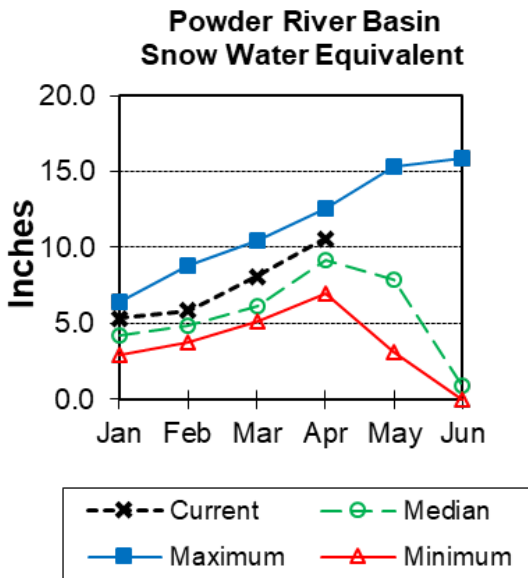


Powder River Basin



Snow

Powder River Basin SWE is at 115% of median. Upper Powder River drainage is 121% of median. SWE in the Clear Creek drainage is 105% of median. Crazy Woman Creek drainage SWE is at 119%. *See appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 55% of average in the basin. Year-to-date precipitation is 105% of average.

Reservoirs

No reservoir data for this basin.

Streamflow

The 50% exceedance forecasts for the April through September period are above average for the basin. The Middle Fork of the Powder River near Barnum should yield around 105% of average. The North Fork of the Powder River near Hazelton to yield around 110%. The Powder River near Morehead to yield around 117% 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	10.4	14.3	16.9	105%	19.5	23	16.1
	APR-SEP	11.1	15.1	17.8	105%	20	24	17
NF Powder R nr Hazelton	APR-JUL	6.7	8.8	10.2	112%	11.6	13.7	9.1
	APR-SEP	7.2	9.4	10.9	110%	12.4	14.6	9.9
Rock Ck nr Buffalo	APR-JUL	10.9	16.6	20	108%	24	30	18.6
	APR-SEP	14.1	20	24	109%	28	35	22
Piney Ck at Kearny	APR-JUL	14.3	31	43	98%	54	71	44
	APR-SEP	16.4	34	46	98%	57	75	47
Powder R at Moorehead	APR-JUL	68	153	210	119%	265	350	177
	APR-SEP	87	172	230	117%	290	375	196
Powder R nr Locate	APR-JUL	75	167	230	116%	295	385	199
	APR-SEP	87	184	250	114%	315	415	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

POWDER RIVER BASIN

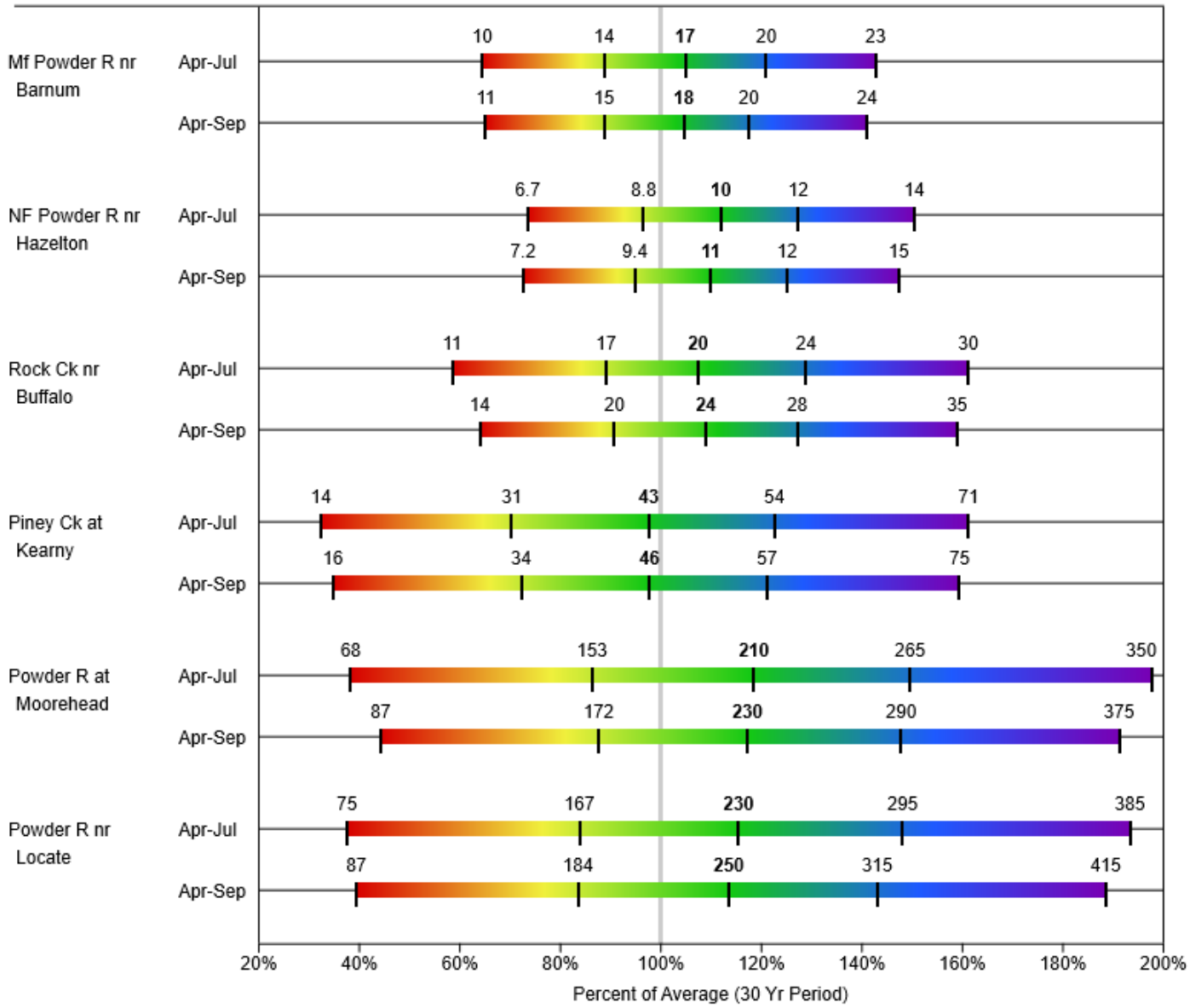
Water Supply Forecasts

April 1, 2020

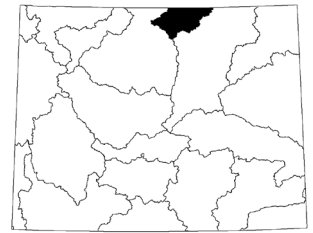
Forecast Exceedance Probabilities

<----- Drier ----- Future Conditions ----- Wetter ----->

Labels on chart represent volumes of water expressed in thousand acre-feet.

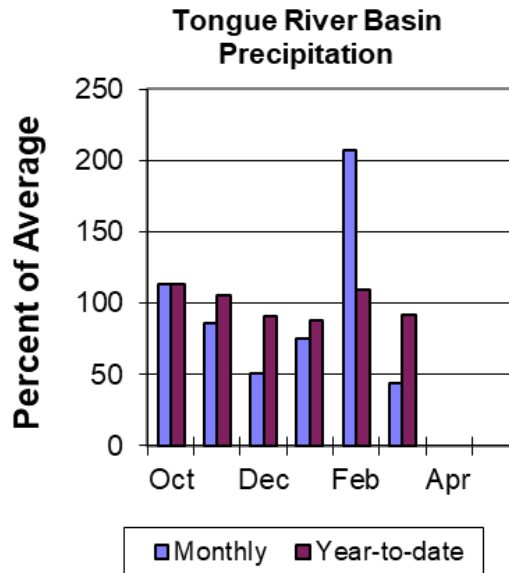
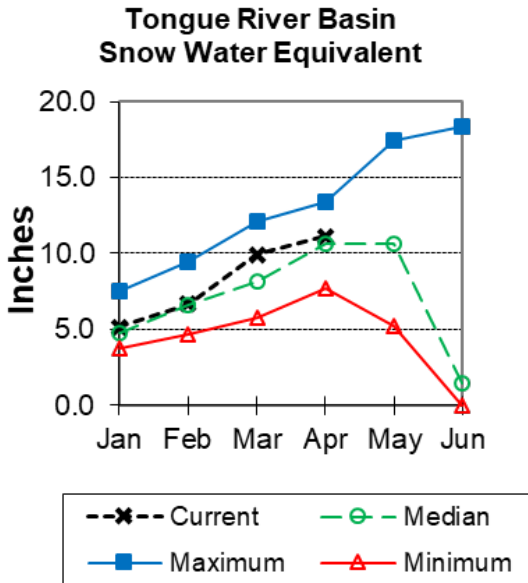


Tongue River Basin



Snow

Upper Tongue River drainage SWE is at 105% of median. The Goose Creek drainage SWE is 106% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 44% of average. Year-to-date precipitation is 92% of average in the basin.

Reservoirs

The Tongue River Reservoir is at 178% of average for this time of year.

Reservoir Storage Summary for the end of March 2020

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	57.6	69.7	32.3	79.1	73%	88%	41%	178%	216%
Basin-wide Total	57.6	69.7	32.3	79.1	73%	88%	41%	178%	216%
# of reservoirs	1	1	1	1	1	1	1	1	1

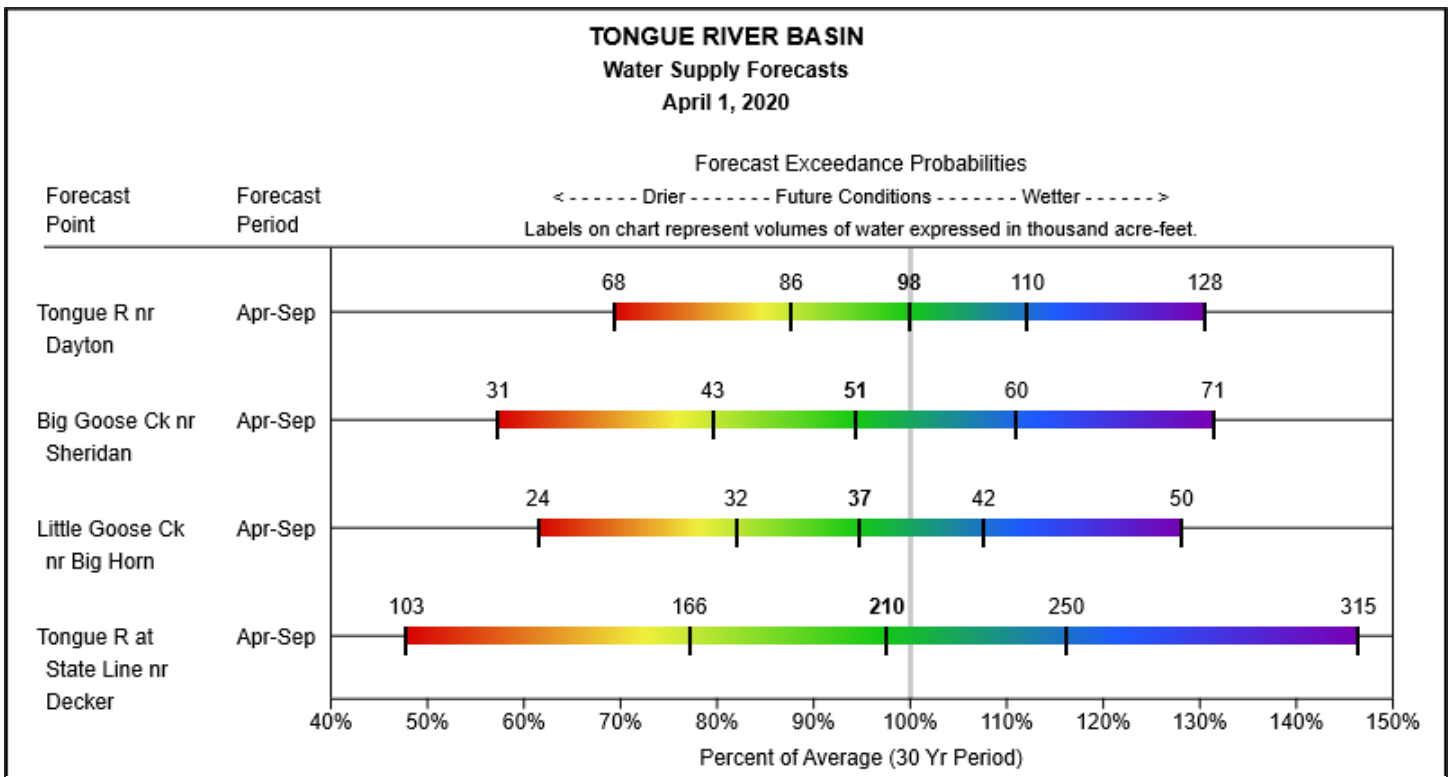
Streamflow

The 50% exceedance forecasts for the April through September period are near or slightly below average for the basin. The yield for Tongue River near Dayton is forecasted to be 100% of average. Big Goose Creek near Sheridan to yield around 94%. Little Goose Creek near Bighorn yielding 95% of average. The Tongue River Reservoir Inflow will be about 98% of average. *See below for detailed runoff volumes.*

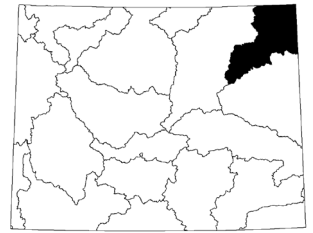
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

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	58	75	86	100%	97	113	86
	APR-SEP	68	86	98	100%	110	128	98
Big Goose Ck nr Sheridan	APR-JUL	24	36	43	93%	51	63	46
	APR-SEP	31	43	51	94%	60	71	54
Little Goose Ck nr Bighorn	APR-JUL	16.9	24	29	94%	34	41	31
	APR-SEP	24	32	37	95%	42	50	39
Tongue River Reservoir Inflow	APR-JUL	87	146	187	97%	225	285	193
	APR-SEP	103	166	210	98%	250	315	215

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

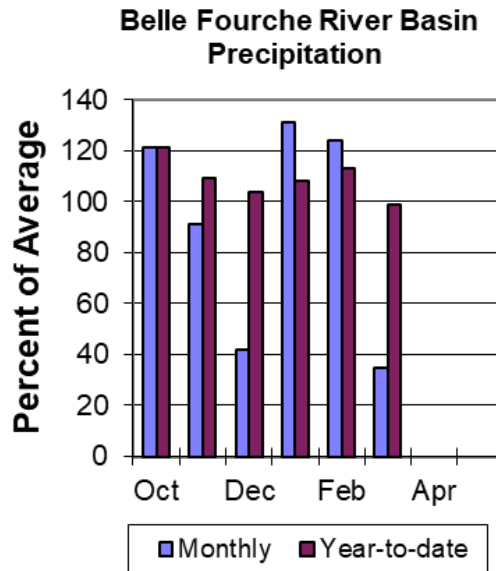
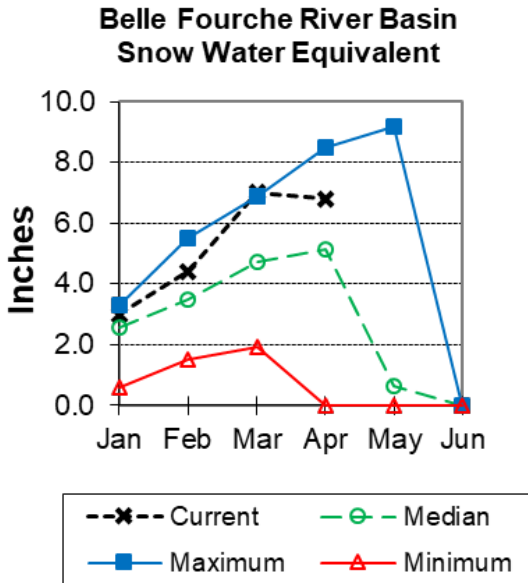


Belle Fourche River Basin



Snow

Belle Fourche River Basin SWE is at 132% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for last month was 35% of average in the Belle Fourche basin. Year-to-date precipitation is 99% of average.

Reservoirs

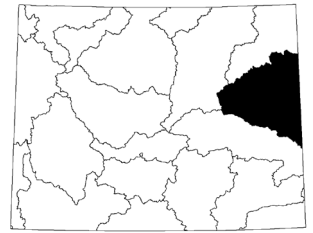
Combined storage for the 3 reservoirs in the basin is at 141% of average.

Reservoir Storage Summary for the end of March 2020									
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	144.5	151.6	133.5	178.4	81%	85%	75%	108%	114%
Keyhole	187.4	212.3	96.8	193.8	97%	110%	50%	194%	219%
Shadehill	76.2	142.7	59.0	81.4	94%	175%	72%	129%	242%
Basin-wide Total	408.0	506.7	289.3	453.6	90%	112%	64%	141%	175%
# of reservoirs	3	3	3	3	3	3	3	3	3

Streamflow

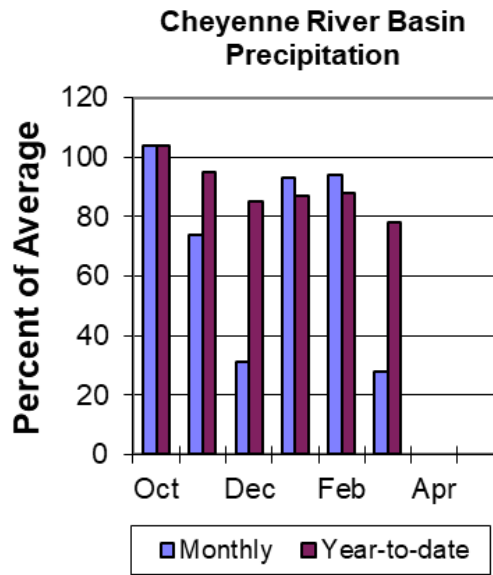
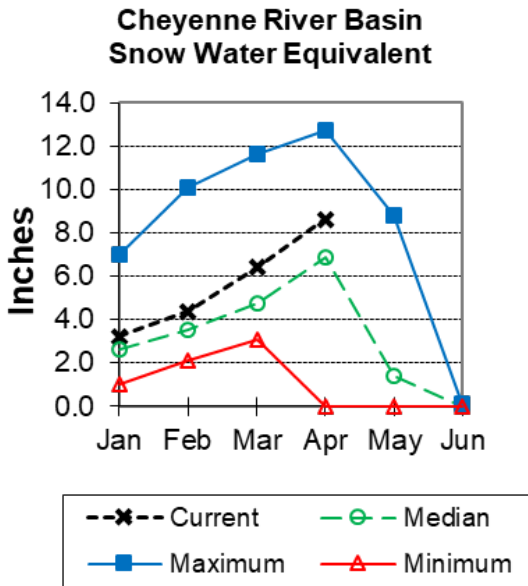
There are no streamflow forecast points for the basin.

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.*



Precipitation

Precipitation for last month was 28% of average. Year-to-date precipitation is 78%.

Reservoirs

Combined storage for the 3 reservoirs in the basin is at 112% of average.

Reservoir Storage Summary for the end of March 2020

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	104.5	106.0	94.3	122.1	86%	87%	77%	111%	112%
Deerfield	14.8	15.0	14.1	15.2	98%	99%	93%	105%	106%
Pactola	54.7	52.7	46.4	55.0	100%	96%	84%	118%	114%
Basin-wide Total	174.1	173.8	154.8	192.3	91%	90%	80%	112%	112%
# of reservoirs	3	3	3	3	3	3	3	3	3

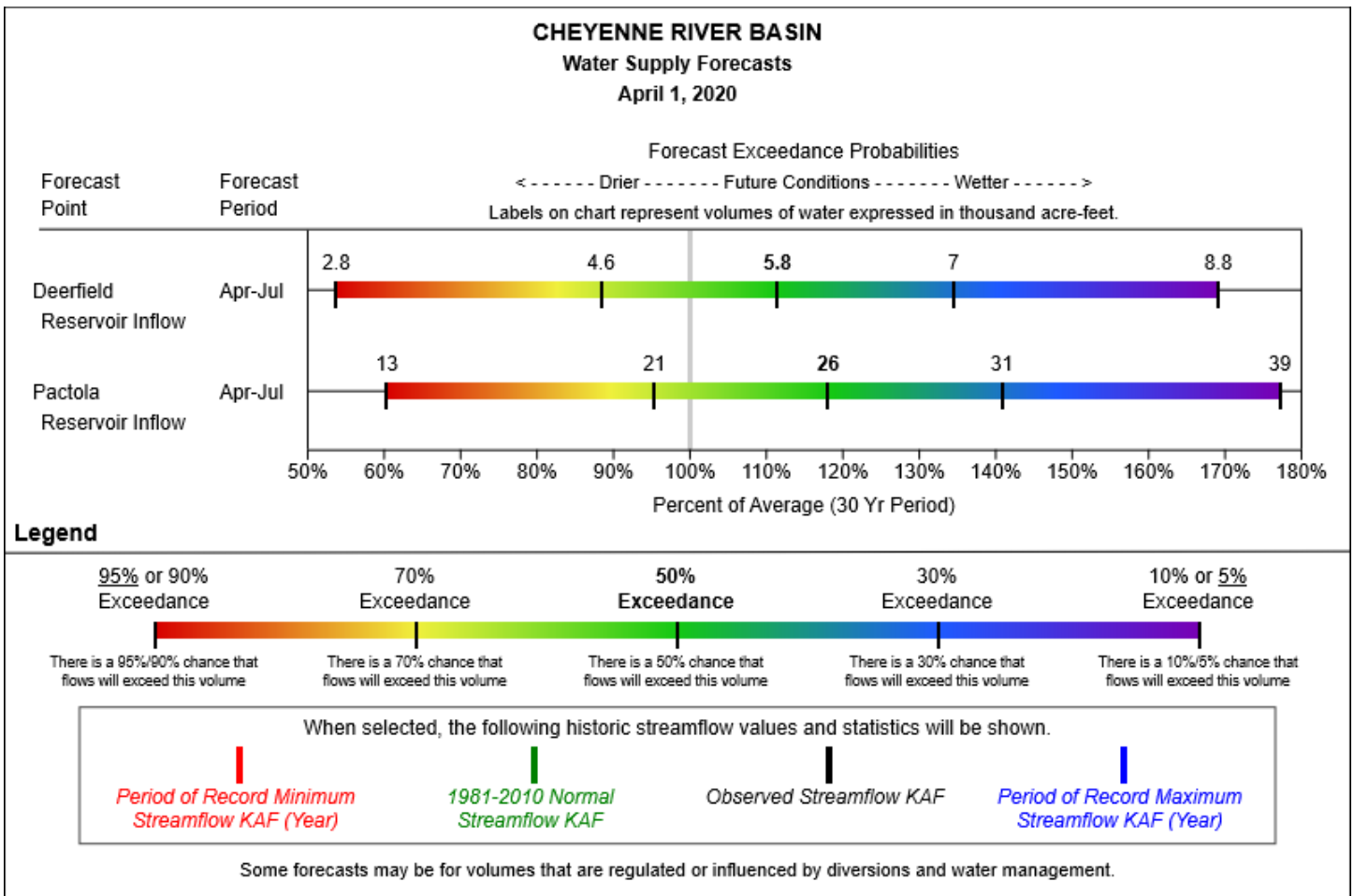
Streamflow

The Deerfield Reservoir Inflow yield is forecasted at 112% of average. Pactola Reservoir Inflow yield is 118% 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	APR-JUL	2.8	4.6	5.8	112%	7	8.8	5.2
Pactola Reservoir Inflow	APR-JUL	13.3	21	26	118%	31	39	22

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



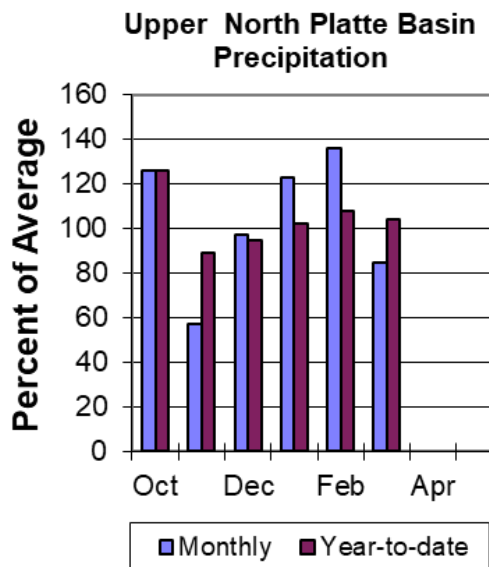
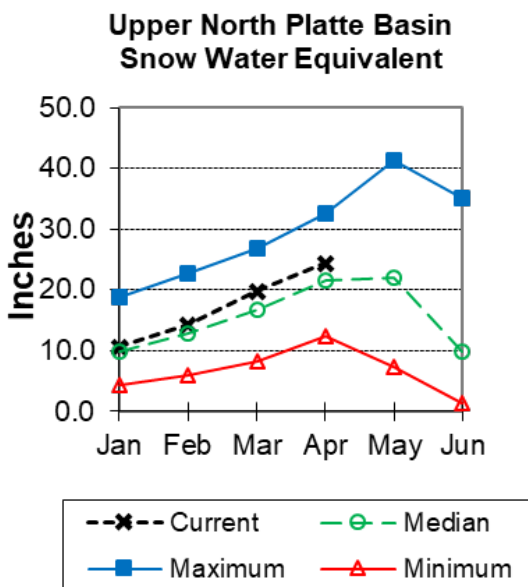
Upper North Platte River Basin



Snow

The Upper North Platte River Basin SWE above Seminoe Reservoir is 113% of median. North Platte above Northgate SWE is 111% of median. Encampment River SWE is 110% of median. Brush Creek SWE is 122% of median. Medicine Bow and Rock Creek SWE are 113% of median.

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



Precipitation

Last month's precipitation was 85% of average. Total water-year-to-date precipitation is 104% of average.

Reservoirs

Seminoe Reservoir storage is at 156% of average.

Reservoir Storage Summary for the end of March 2020

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	748.3	616.0	481.2	1016.7	74%	61%	47%	156%	128%
Basin-wide Total	748.3	616.0	481.2	1016.7	74%	61%	47%	156%	128%
# of reservoirs	1	1	1	1	1	1	1	1	1

Streamflow

The 50% exceedance forecasts for the April through September period are well above average for the Upper North Platte River Basin. The yield for the North Platte River near Northgate will be around 116% of average. The Encampment River near Encampment yield will be about 110%. Rock Creek near Arlington yield will be around 125%. Seminoe Reservoir

inflow should be about 122%.

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	148	220	265	118%	315	380	225
	APR-SEP	162	240	290	116%	345	425	250
Encampment R nr Encampment ²								
	APR-JUL	91	122	143	111%	164	195	129
	APR-SEP	97	130	152	110%	174	205	138
Rock Ck nr Arlington								
	APR-JUL	48	57	62	127%	68	76	49
	APR-SEP	51	60	65	125%	71	80	52
Sweetwater R nr Alcova								
	APR-JUL	0.59	11.2	24	41%	37	56	59
	APR-SEP	0.64	12.8	26	41%	40	60	64
Seminole Reservoir Inflow								
	APR-JUL	550	745	875	122%	1010	1200	715
	APR-SEP	595	800	940	122%	1080	1280	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

UPPER NORTH PLATTE RIVER BASIN

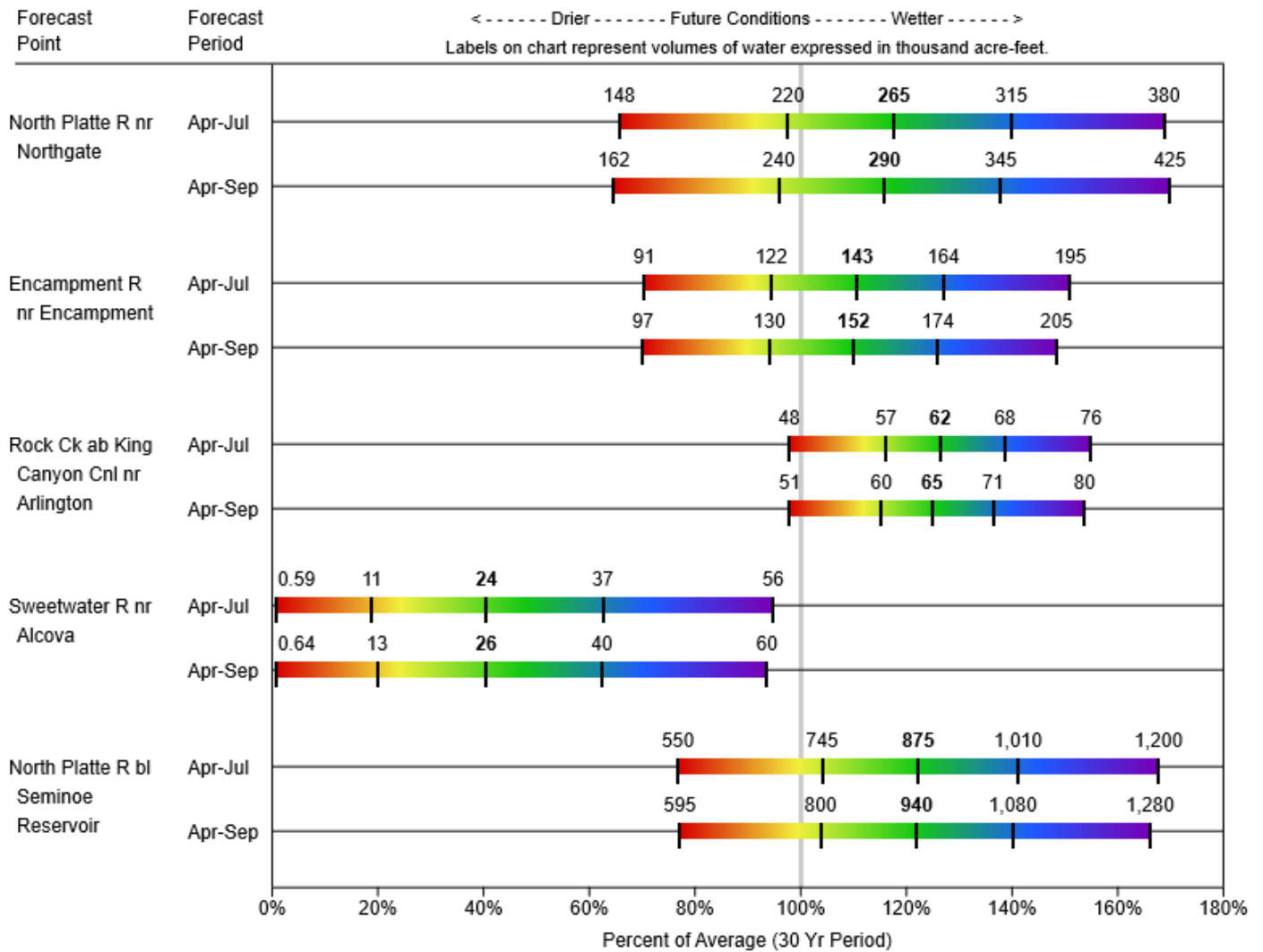
Water Supply Forecasts

April 1, 2020

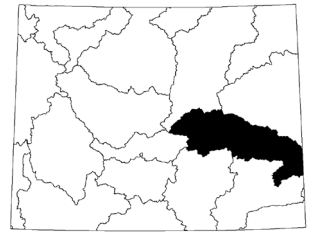
Forecast Exceedance Probabilities

<----- Drier ----- Future Conditions ----- Wetter ----->

Labels on chart represent volumes of water expressed in thousand acre-feet.

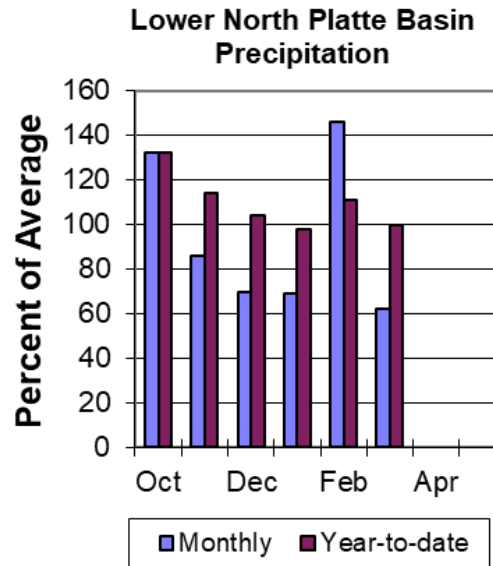
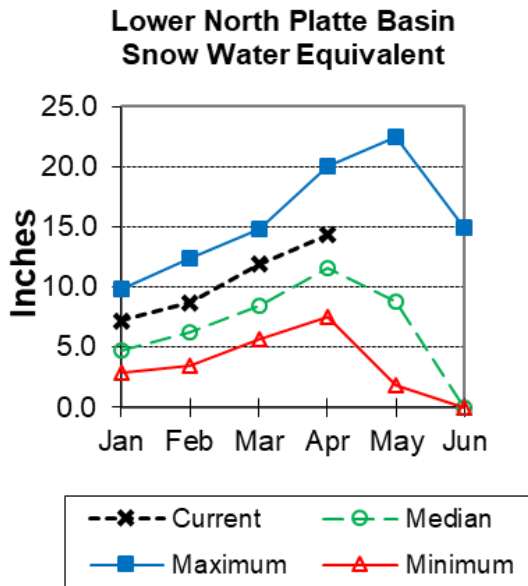


Lower North Platte River Basin



Snow

Lower North Platte River Basin SWE is 124% of median. Deer Creek and LaPrele Creek SWE is at 127%. SWE total for the entire North Platte River Basin above Torrington, WY is 113% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 62% of average. The water year-to-date precipitation for the basin is currently 100% of average.

Reservoirs

Combined storage for the 4 reservoirs in the basin is at 132% of average.

Reservoir Storage Summary for the end of March 2020									
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	158.1	157.8	158.5	184.3	86%	86%	86%	100%	100%
Glendo	402.6	381.7	389.4	506.4	79%	75%	77%	103%	98%
Guernsey	28.2	18.0	20.0	45.6	62%	39%	44%	141%	90%
Pathfinder	957.8	642.7	604.6	1016.5	94%	63%	59%	158%	106%
Basin-wide Total	1546.7	1200.2	1172.5	1752.8	88%	68%	67%	132%	102%
# of reservoirs	4	4	4	4	4	4	4	4	4

Streamflow

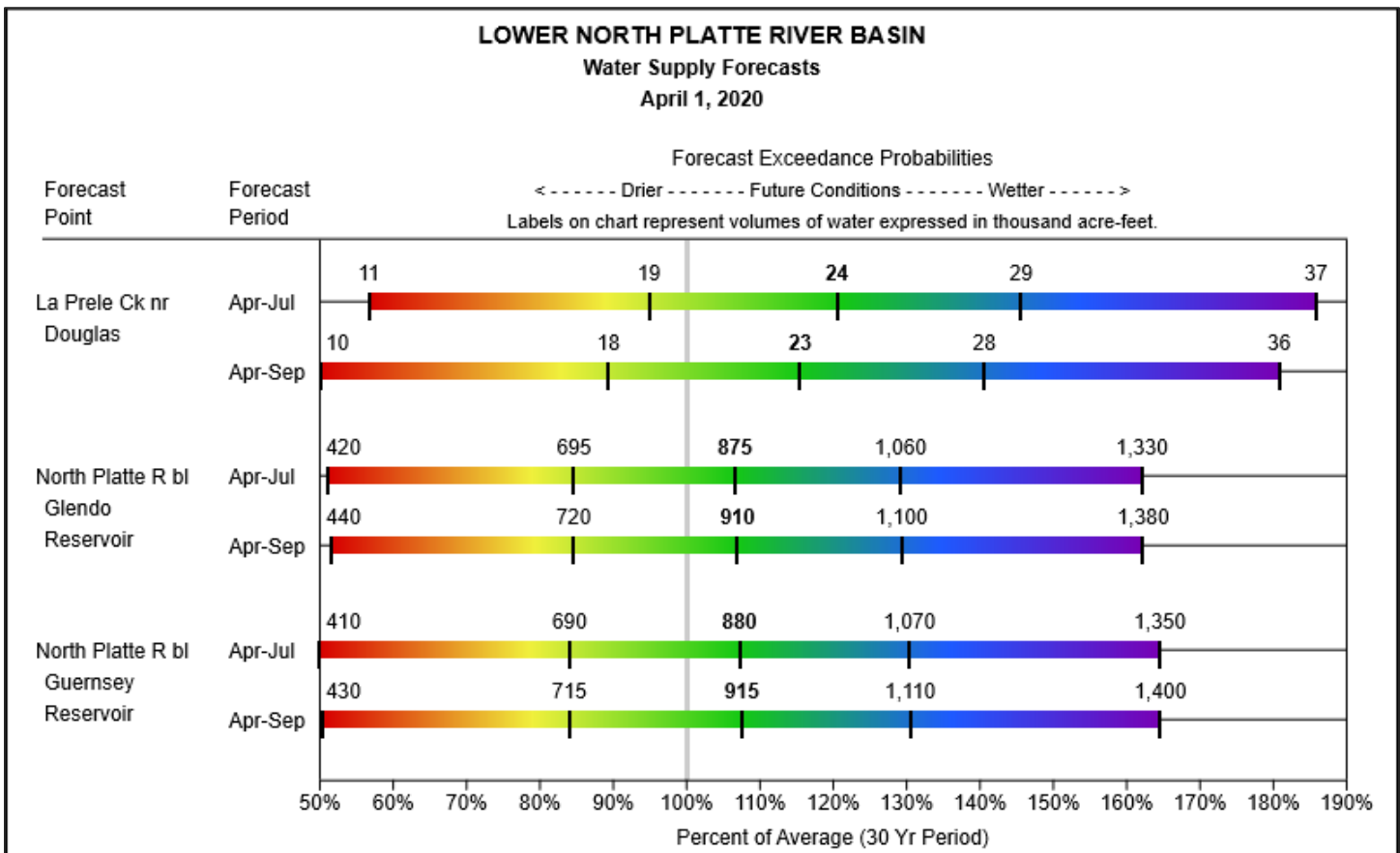
The 50% exceedance forecasts for the April through September period will be above average. LaPrele Creek above LaPrele Reservoir is forecasted to yield 116% of average. North Platte River below Guernsey Reservoir to yield around 108% of average. *See the following for more*

detailed information on projected runoff.

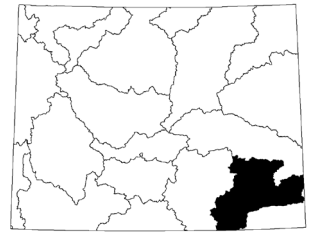
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

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	11.3	18.9	24	121%	29	37	19.9
	APR-SEP	10	17.8	23	116%	28	36	19.9
North Platte R bl Glendo Reservoir								
	APR-JUL	420	695	875	107%	1060	1330	820
	APR-SEP	440	720	910	107%	1100	1380	850
North Platte R bl Guernsey Reservoir								
	APR-JUL	410	690	880	107%	1070	1350	820
	APR-SEP	430	715	915	108%	1110	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

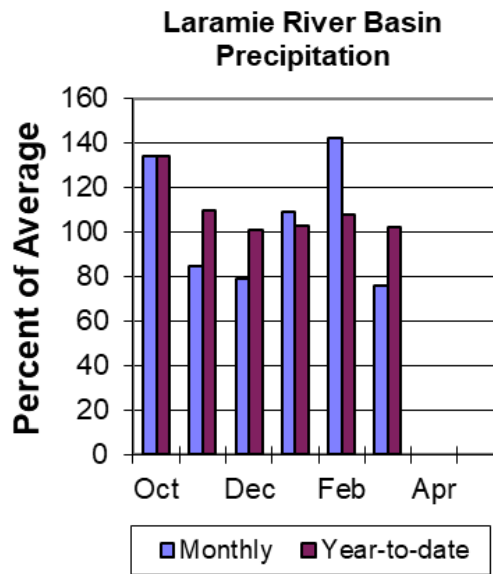
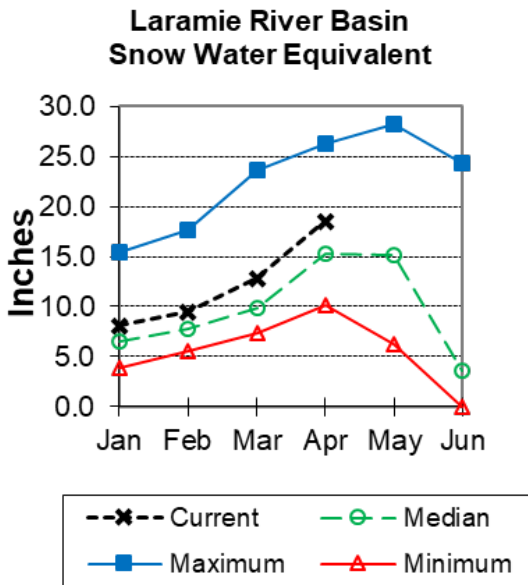


Laramie River Basin



Snow

SWE for the entire Laramie River Basin (above mouth entering North Platte) is 121% of median. SWE for the Laramie River above Laramie is 113% of median. SWE for the Little Laramie River is 127% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 76% of average. The water year-to-date precipitation for the basin is currently 102% of average.

Reservoirs

No reservoir data for this basin.

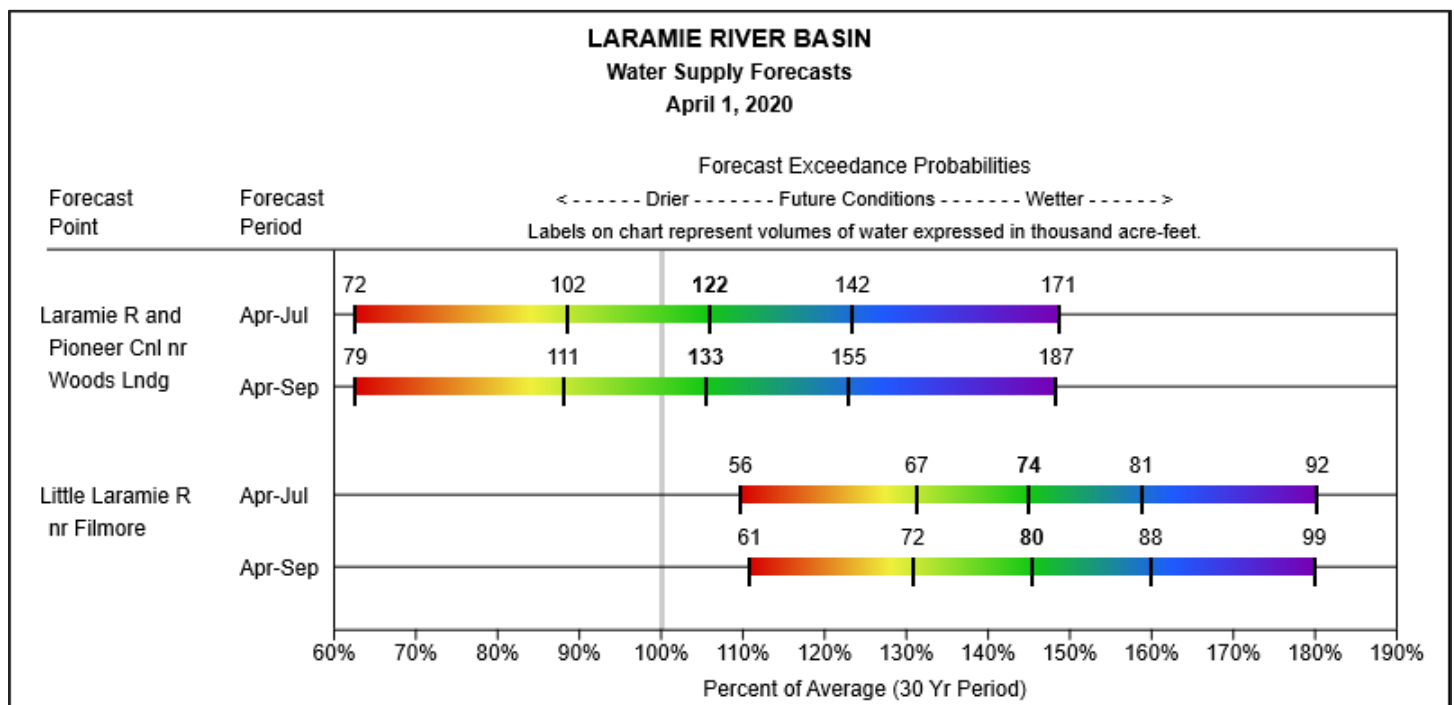
Streamflow

The 50% exceedance forecasts for the April through September period at Laramie River near Woods Landing should yield around 106% of average. The Little Laramie near Filmore should produce about 145% of average.

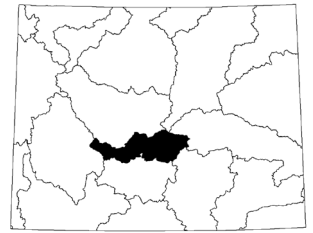
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

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	72	102	122	106%	142	171	115
	APR-SEP	79	111	133	106%	155	187	126
Little Laramie R nr Filmore	APR-JUL	56	67	74	145%	81	92	51
	APR-SEP	61	72	80	145%	88	99	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

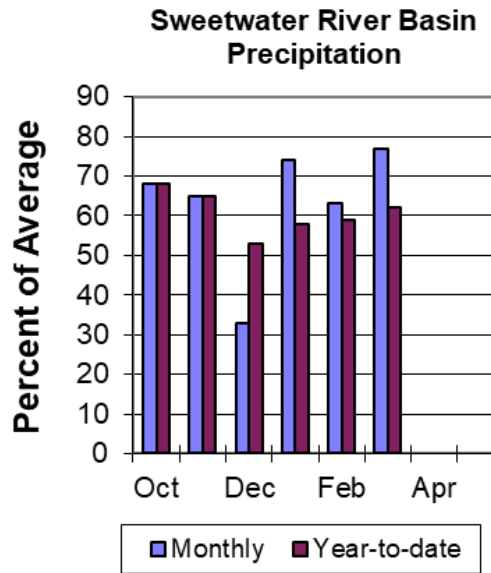
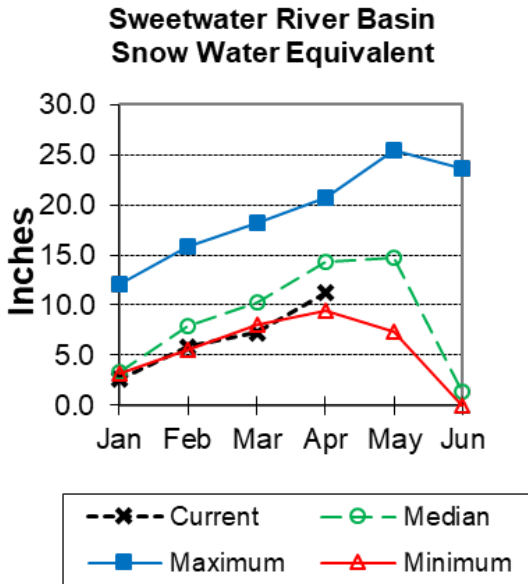


Sweetwater River Basin



Snow

Sweetwater River Basin SWE is at 78% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 77% of average. The water year-to-date precipitation for the basin is currently 62% of average.

Reservoirs

Pathfinder is storing at 158% of average for this time of year.

Reservoir Storage Summary for the end of March 2020									
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	957.8	642.7	604.6	1016.5	94%	63%	59%	158%	106%
Basin-wide Total	957.8	642.7	604.6	1016.5	94%	63%	59%	158%	106%
# of reservoirs	1	1	1	1	1	1	1	1	1

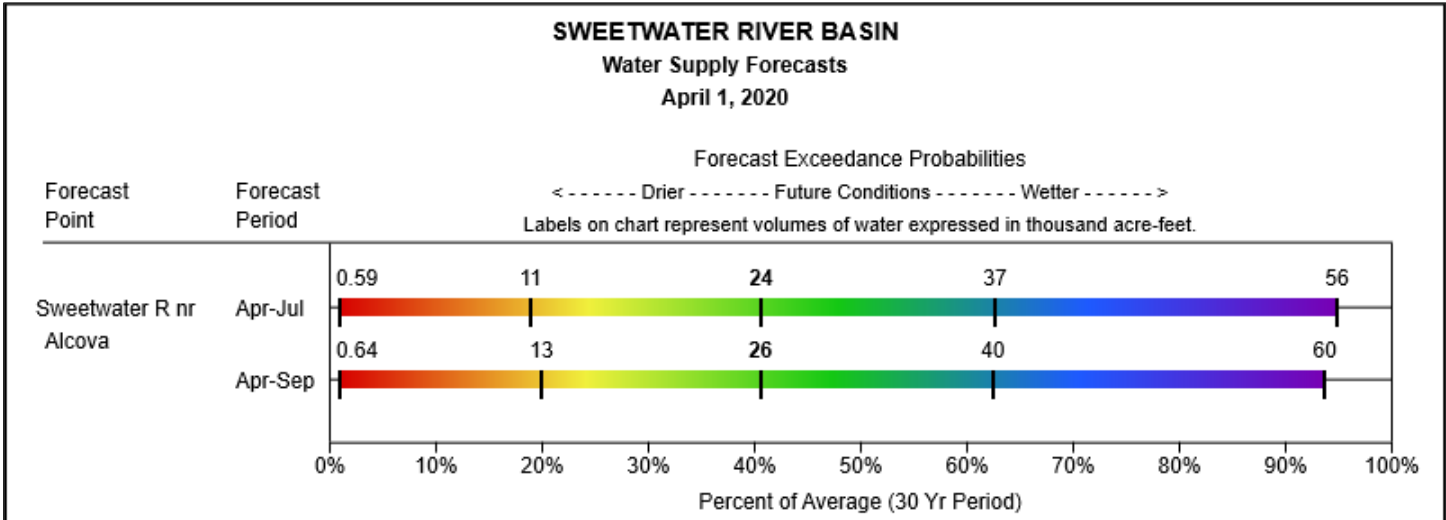
Streamflow

The following is the streamflow forecast for the April through September period. The Sweetwater River near Alcova will yield about 41% of average. *See below for detailed information on projected runoff.*

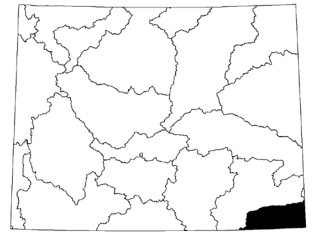
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

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	0.59	11.2	24	41%	37	56	59
	APR-SEP	0.64	12.8	26	41%	40	60	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

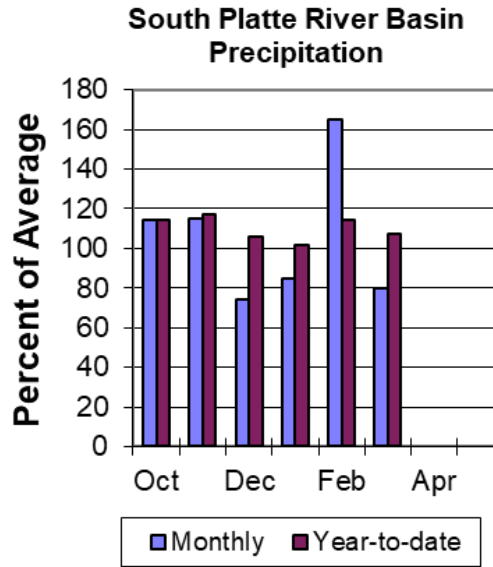
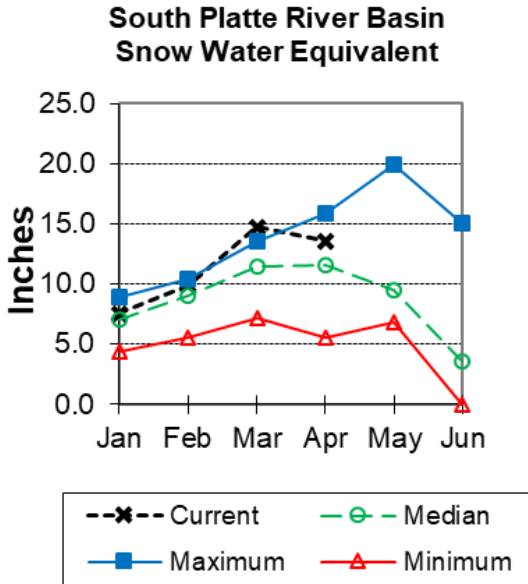


South Platte River Basin (WY)



Snow

South Platte River Basin SWE in WY is 117% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Last month's precipitation was 80% of average. The water year-to-date precipitation for the basin is currently 107%.

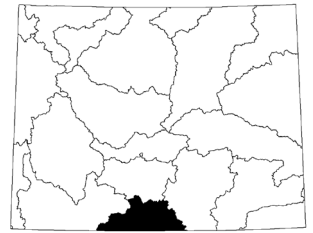
Reservoirs

No reservoir data for the basin.

Streamflow

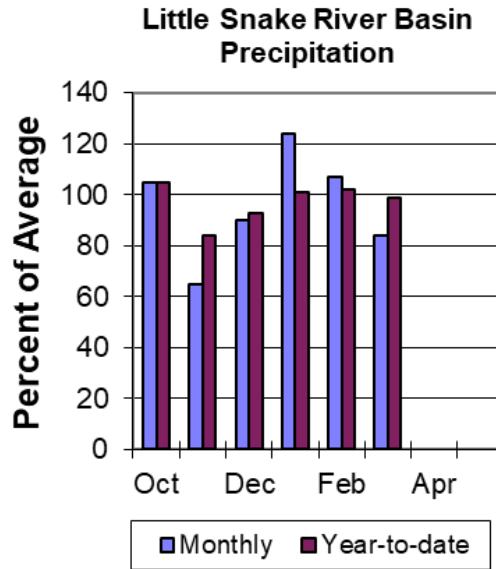
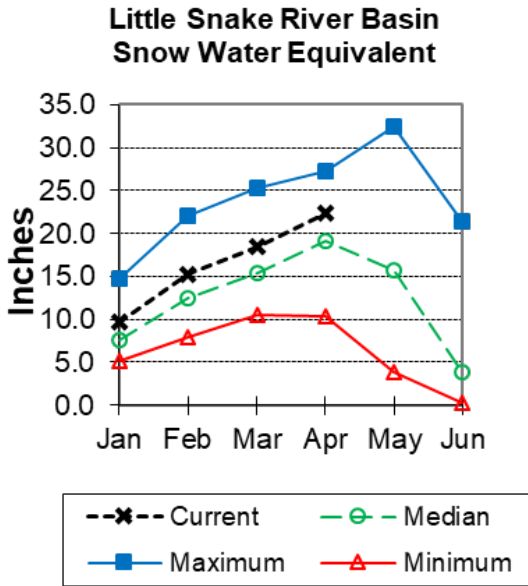
There are no streamflow forecast points for the basin.

Little Snake River Basin



Snow

Little Snake River drainage SWE is 117% of median. See *Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation across the basin was 84% of average. The Little Snake River Basin water-year-to-date precipitation is currently 99% of average.

Reservoirs

No reservoir data for the basin.

Streamflow

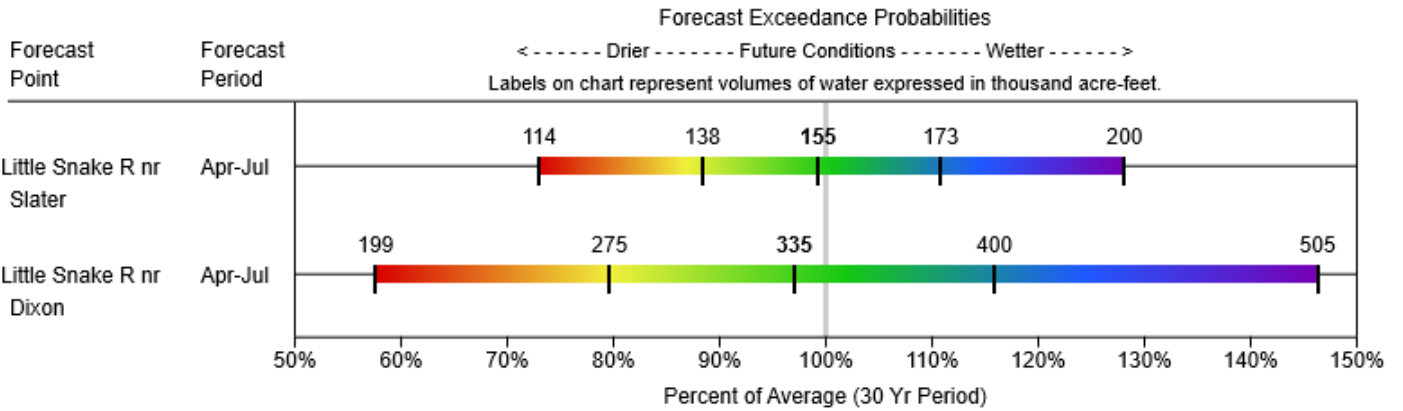
The 50% exceedance forecasts for the April through July period will be average. The Little Snake River near Slater is forecasted to yield around 99% of average. *See below for detailed information on projected runoff.*

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

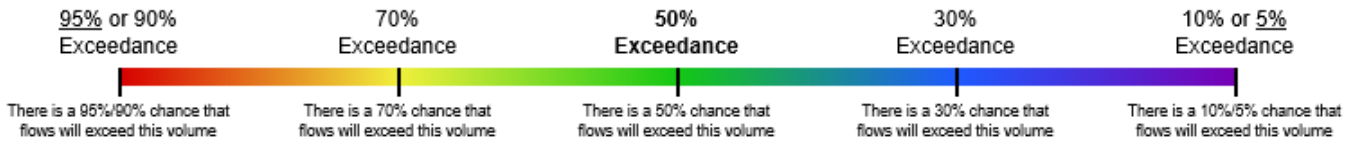
LITTLE SNAKE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Little Snake R nr Slater ²	APR-JUL	114	138	155	99%	173	200	156
Little Snake R nr Dixon ²	APR-JUL	199	275	335	97%	400	505	345

- 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





LITTLE SNAKE RIVER BASIN
Water Supply Forecasts
April 1, 2020



Legend

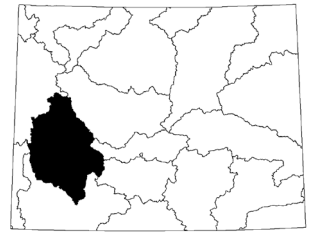


When selected, the following historic streamflow values and statistics will be shown.

 <i>Period of Record Minimum Streamflow KAF (Year)</i>	 <i>1981-2010 Normal Streamflow KAF</i>	 <i>Observed Streamflow KAF</i>	 <i>Period of Record Maximum Streamflow KAF (Year)</i>
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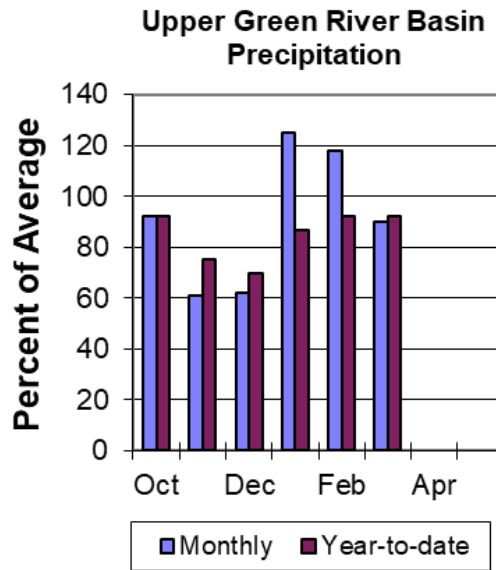
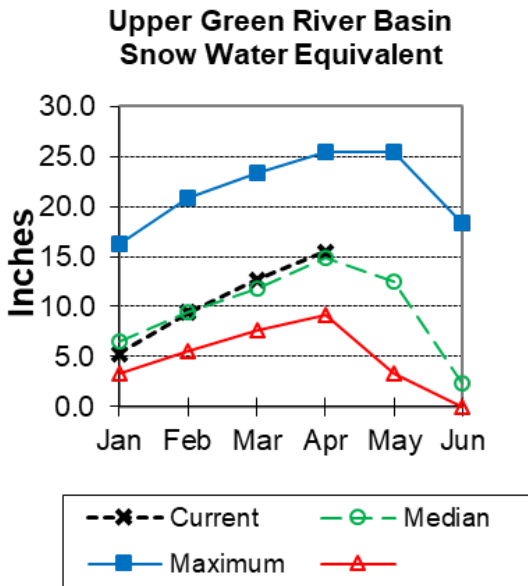
Some forecasts may be for volumes that are regulated or influenced by diversions and water management.

Upper Green River Basin



Snow

The Upper Green River Basin SWE (above Fontenelle Reservoir) is 104% of median. Green River Basin above Warren Bridge SWE is 101% of median. West Side of Upper Green River Basin SWE is 114% of median. New Fork River SWE is 94% of median. Big Sandy-Eden Valley Basin SWE is 66% of median. *See Appendix at the end of this report for a detailed listing of snow course information.*



Precipitation

Precipitation for sites in the basin was 90% of average last month. Water year-to-date precipitation is 92% of average.

Reservoir

Combined water storage in the basin was at 113% of average for the 2 reservoirs.

Reservoir Storage Summary for the end of March 2020									
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	24.5	17.6	19.9	38.3	64%	46%	52%	123%	89%
Fontenelle	135.8	95.1	121.7	344.8	39%	28%	35%	112%	78%
Basin-wide Total	160.3	112.7	141.6	383.1	42%	29%	37%	113%	80%
# of reservoirs	2	2	2	2	2	2	2	2	2

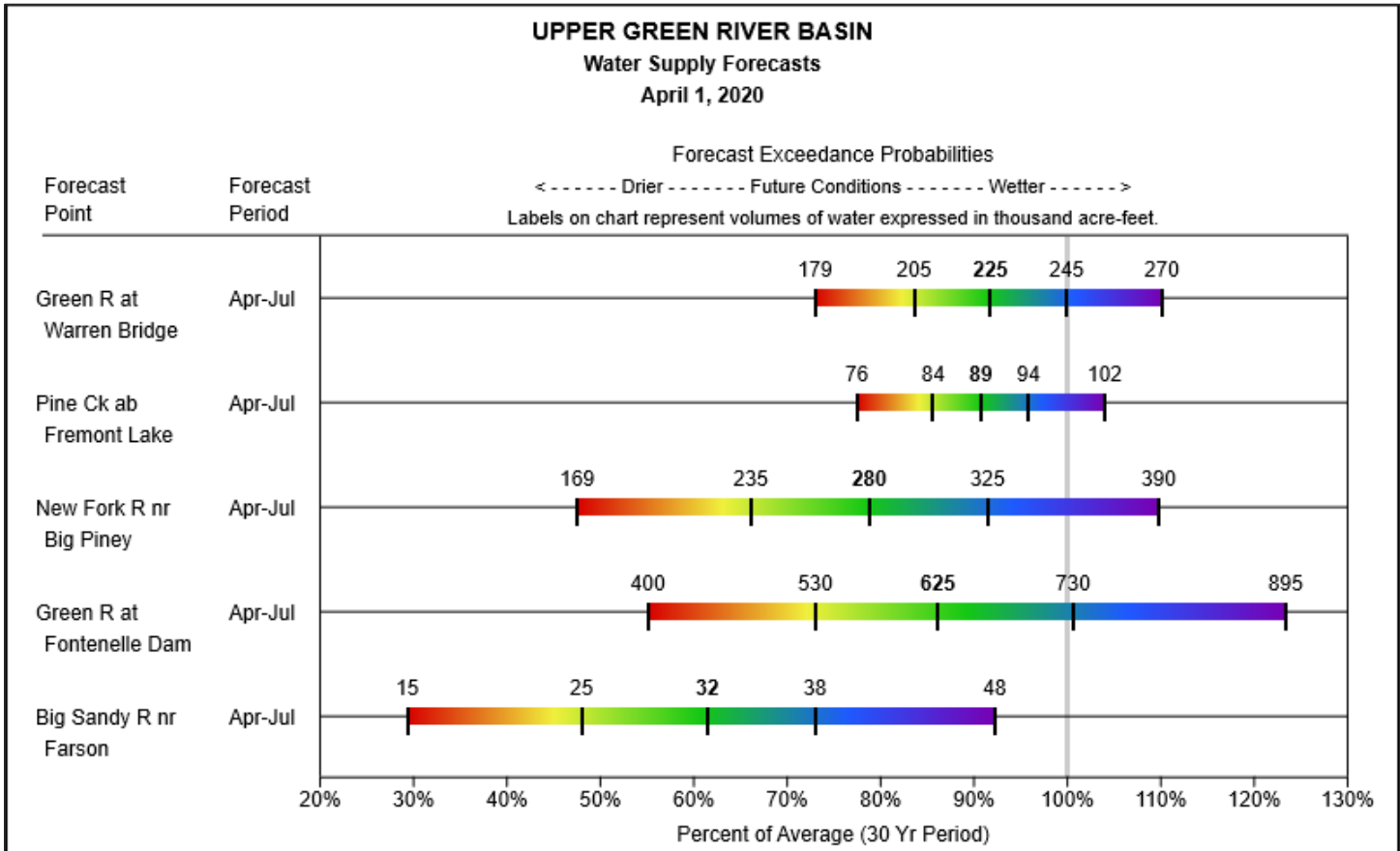
Streamflow

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 92% of average. New Fork River near Big Piney yield will be around 79% of average. Fontenelle Reservoir Inflow is estimated to be about 86% of average. *See the following for a more detailed forecast.*

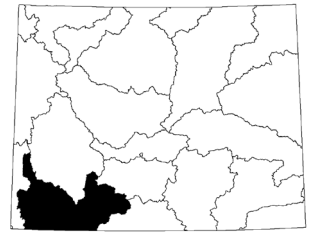
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

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	179	205	225	92%	245	270	245
Pine Creek ab Fremont Lake	APR-JUL	76	84	89	91%	94	102	98
New Fork R nr Big Piney	APR-JUL	169	235	280	79%	325	390	355
Fontenelle Reservoir Inflow	APR-JUL	400	530	625	86%	730	895	725
Big Sandy R nr Farson	APR-JUL	15.3	25	32	62%	38	48	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



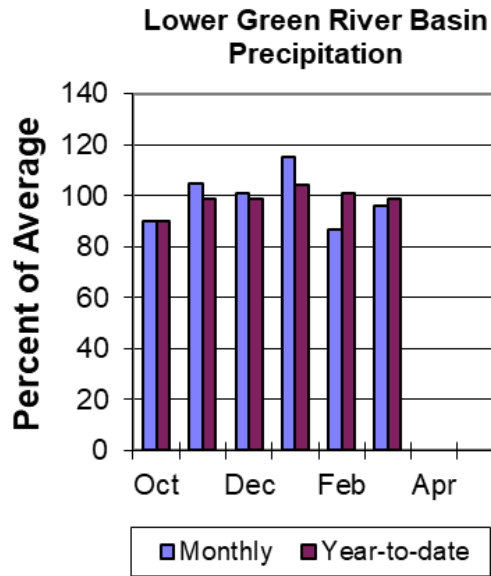
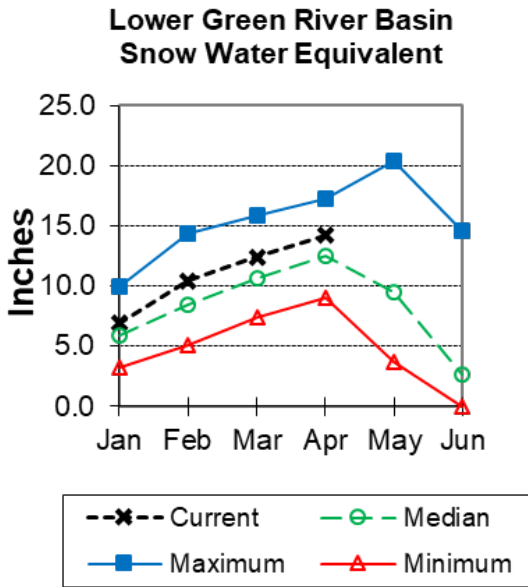
Lower Green River Basin



Snow

Lower Green River Basin SWE is at 114% of median. Hams Fork drainage SWE is 107% of median. Blacks Fork drainage SWE is 110% of median. Henrys Fork SWE is 157% of median. SWE for the entire Green River Basin (above Flaming Gorge) is at 108% 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 96% of average. The basin year-to-date precipitation is currently 99% of average.

Reservoirs

Combined storage for the 3 reservoirs in the basin was at 107% of average at the end of last month.

Reservoir Storage Summary for the end of March 2020									
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	135.8	95.1	121.7	344.8	39%	28%	35%	112%	78%
Flaming Gorge Reservoir	3220.1	3185.0	3020.0	3749.0	86%	85%	81%	107%	105%
Viva Naughton Res	28.6	25.9	27.2	42.4	67%	61%	64%	105%	95%
Basin-wide Total	3384.5	3306.0	3168.9	4136.2	82%	80%	77%	107%	104%
# of reservoirs	3	3	3	3	3	3	3	3	3

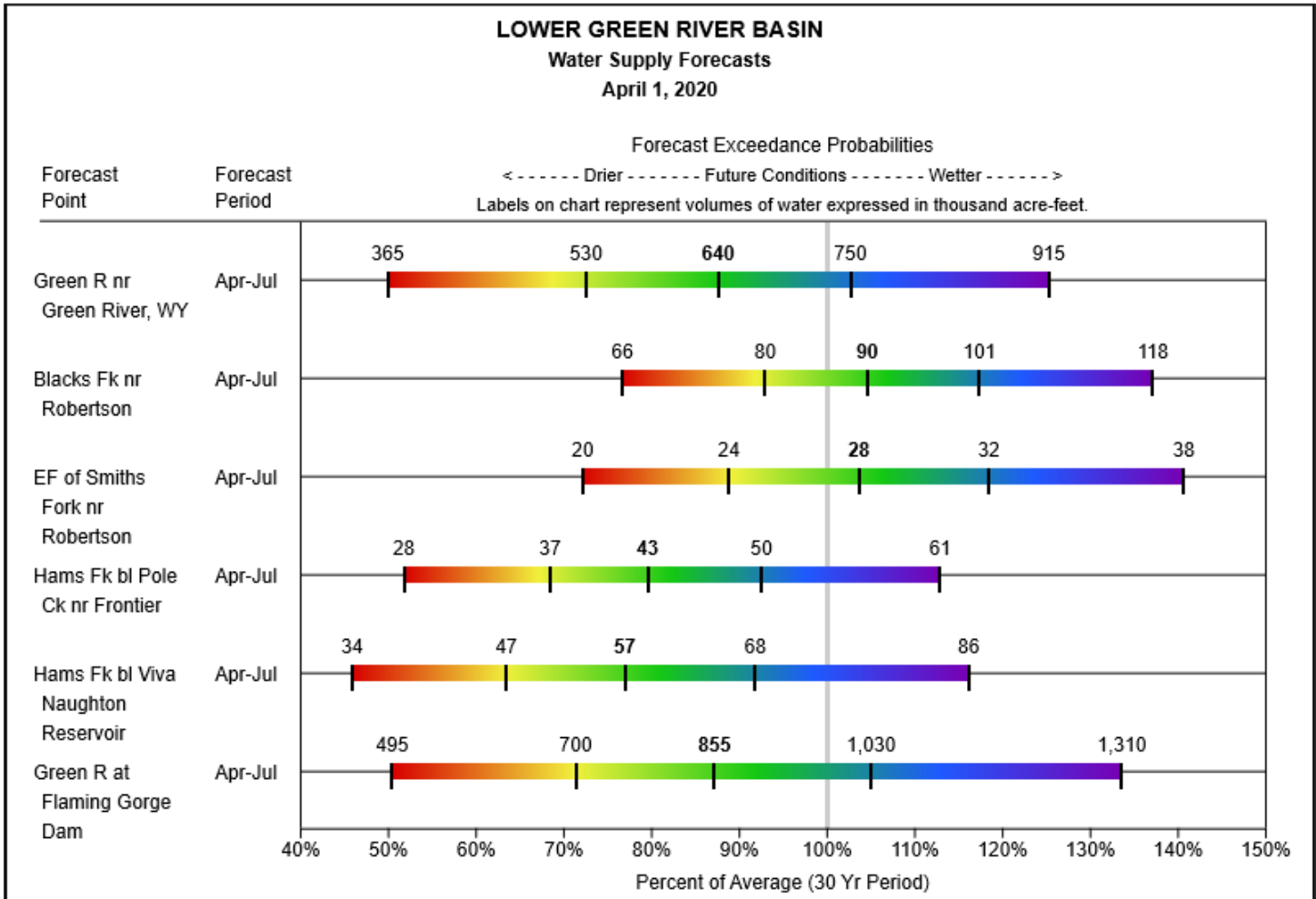
Streamflow

The following are the 50% exceedance forecasts for the April through July period. The Green River near Green River will yield about 88% of average. The Flaming Gorge Reservoir inflow will be about 87% of average. *See the following page for more detailed information on projected runoff.*

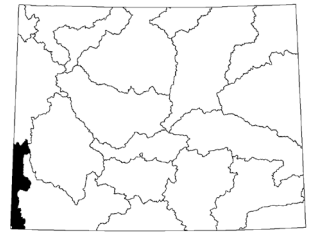
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

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	365	530	640	88%	750	915	730
Blacks Fk nr Robertson	APR-JUL	66	80	90	105%	101	118	86
EF of Smiths Fork nr Robertson ²	APR-JUL	19.5	24	28	104%	32	38	27
Hams Fk bl Pole Ck nr Frontier	APR-JUL	28	37	43	80%	50	61	54
Viva Naughton Reservoir Inflow	APR-JUL	34	47	57	77%	68	86	74
Flaming Gorge Reservoir Inflow ²	APR-JUL	495	700	855	87%	1030	1310	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



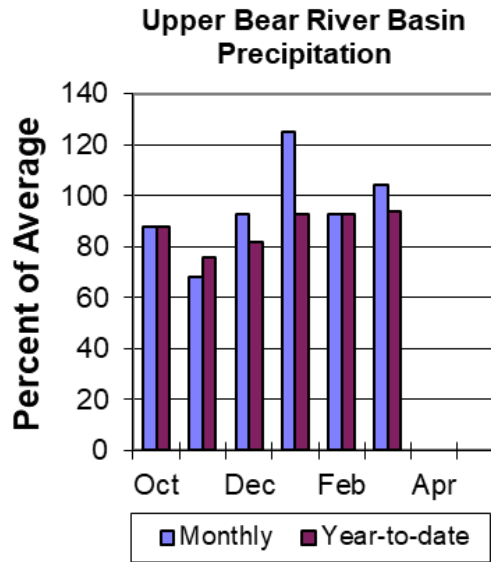
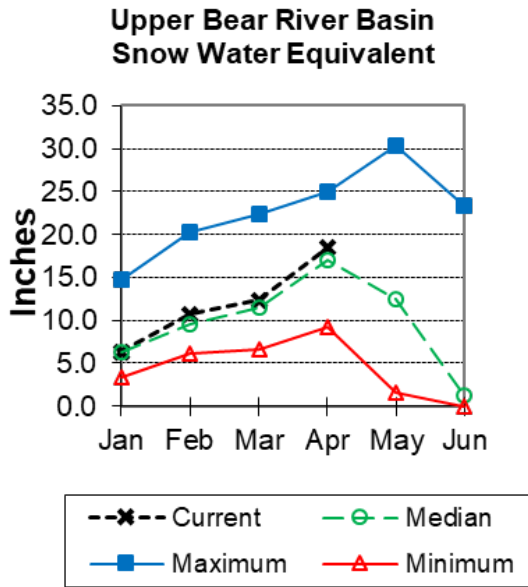
Upper Bear River Basin



Snow

SWE in the Upper Bear River Basin of Utah is 99% of median. SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is 114% 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 94% of average.

Reservoirs

Storage in Woodruff Narrows Reservoir was at 167% of average for the end of last month.

Reservoir Storage Summary for the end of March 2020										
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 Res.	57.8	25.3	38.4	57.3	101%	44%	67%	151%	66%	
Basin-wide Total	57.8	25.3	38.4	57.3	101%	44%	67%	151%	66%	
# of reservoirs	1	1	1	1	1	1	1	1	1	

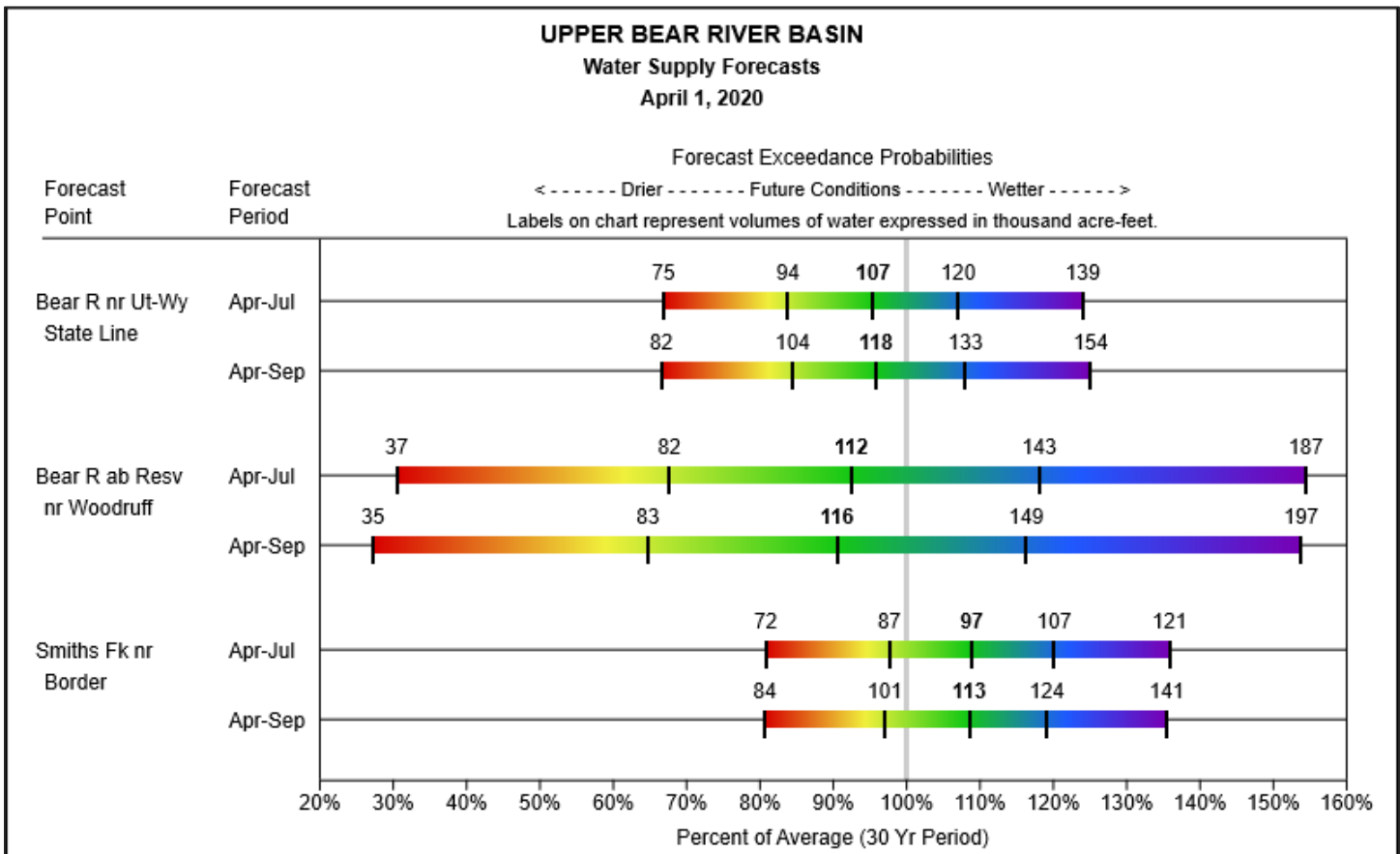
Streamflow

The 50% exceedance forecasts for the April through September period will be average. The Bear River above Reservoir near Woodruff to yield around 91% of average. The Smiths Fork River near Border Jct. will yield around 109%. *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	75	94	107	96%	120	139	112
	APR-SEP	82	104	118	96%	133	154	123
Bear R ab Resv nr Woodruff	APR-JUL	37	82	112	93%	143	187	121
	APR-SEP	35	83	116	91%	149	197	128
Smiths Fk nr Border	APR-JUL	72	87	97	109%	107	121	89
	APR-SEP	84	101	113	109%	124	141	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

see attached pdf file BSnow_4_2020

Appendix - Precipitation Data

see attached pdf file BPrecip_4_2020

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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