



Wyoming Water Supply Outlook Report

March 1, 2018



Togwotee Pass SNOTEL

STATE OF WYOMING GENERAL OUTLOOK

March 1, 2018

SUMMARY

The snow water equivalent (SWE) across Wyoming is above normal at 114%. Monthly precipitation for the basins ranged from a high of 178% of average in the Shoshone River Basin to a low of 76% of average in the Lower North Platte River Basin, for an overall average of 125%. The year-to-date precipitation average for Wyoming basins is now at 102% varying from a high of 142% in the Shoshone River Basin to a low of 64% of average in the Sweetwater River Basin. Forecasted runoff varies from 56% to 157% of average across Wyoming. Basin reservoir levels for Wyoming vary from 74-179% of average for an overall average of 119%.

SNOWPACK

The SWE across Wyoming is above median for March 1st at 114%, compared to 146% last year. The SWE was the lowest in the Lower North Platte River Basin at 72%, while SWE in the Yellowstone River Basin is the highest at 158% of median. The Kirwin SNOTEL had the highest SWE at 234% of median, while the Crow Creek SNOTEL had the lowest SWE at 37% of median.

PRECIPITATION

Year to date precipitation is at 102% of average. The Shoshone River Basin had the highest precipitation amount at 178% of average and the Lower North Platte River Basin had the lowest precipitation amount at 56% of average. Beartooth Lake SNOTEL had the highest precipitation at 238% of average, while Timber Creek SNOTEL had the lowest precipitation at 13% of average.

RESERVOIRS

Reservoir storage is above average at 119% for the entire state. Reservoirs in the Snake above Palisade Basin are above average at 146% with a current capacity at 89%. Reservoirs in the Madison above Hebgen Lake Basin are above average at 112% with a current capacity at 81%. Reservoirs in the Wind River Basin are above average at 118% with a current capacity at 90%. Reservoirs on the Big Horn are above average at 105% with a current capacity at 69%. The Buffalo Bill Reservoir on the Shoshone is above average at 133% with a current capacity at 72%. The Tongue River Reservoir is above average at 176% with a current capacity at 63%. Reservoirs in the Belle Fourche and Cheyenne River Basins are near average in storage at 99% and 105% respectively with current capacities at 55% and 81% respectively. Reservoirs on the Upper and Lower North Platte River are above average at 163% and 120% respectively with current capacities at 79% and 75% respectively. Reservoirs on the Laramie and Little Snake River basins are at 142% and 91% respectively with current capacities at 63% and 49% respectively. Reservoirs on the Upper Green River are above average at 112% with a current capacity at 42%. Reservoirs on the Lower Green River Basin are above average at 106% with a current capacity at 81%. Woodruff Narrows Reservoir on the Upper Bear River Basin is above average at 163% with a current capacity at 90%.

STREAMFLOW

The Snake above Palisades, Madison above Hebgen Lake, and Yellowstone R. at outlet should yield about 113%, 112% and 143% of average, respectively. Yields from the Wind and Bighorn River Basins should be about 125% and 129% of average, respectively. Yields from the Shoshone River Basin should be about 157% of average. Yields from the Powder and Tongue River Basins should be about 125% and 86% of average, respectively. Yield for the Cheyenne River Basin should be about 109% of average. Yields for the Upper North Platte, Sweetwater, Lower North Platte, and Laramie Rivers of Wyoming should be about 86%, 59%, 77%, and 98% of average, respectively. Yields for the Little Snake, Upper Green River, Lower Green River, and Smith's Fork of Wyoming should be 56%, 114%, 96%, and 87% of average respectively.

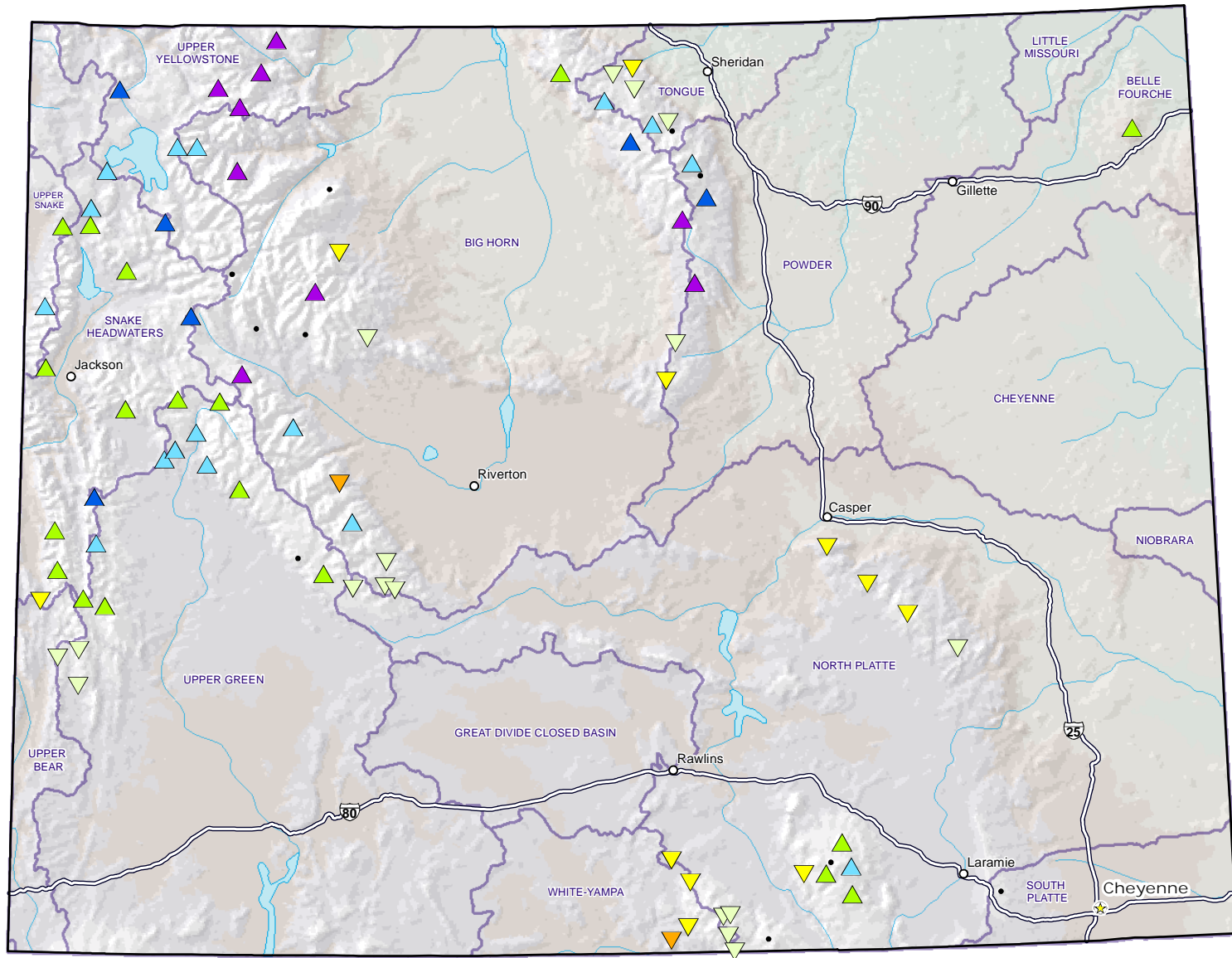
Wyoming SNOTEL Snow Water Equivalent (SWE) % of Normal

Mar 01, 2018

Current SWE % of 1981-2010 Median

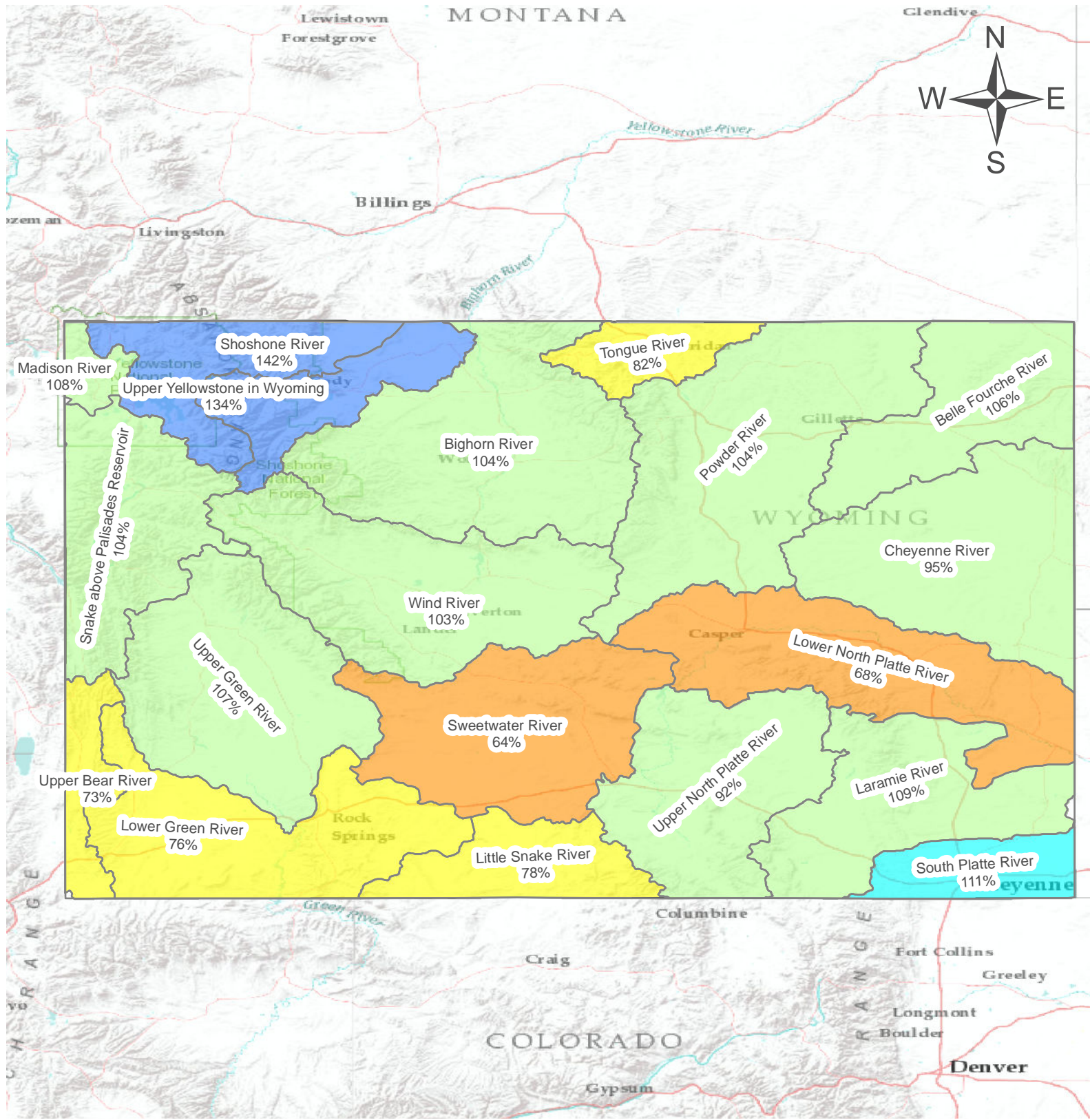
- ▲ > 160%
- ▲ 140-160%
- ▲ 120-139%
- ▲ 100-119%
- ▼ 80-99%
- ▼ 60-79%
- ▼ 40-59%
- ▼ 1-39%
- +
- Unavailable*

*Provisional Data
Subject to Revision*



Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

** Data unavailable at time of posting or unavailable long-term normal.*

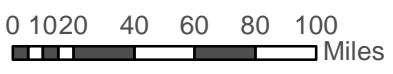


Statewide Precipitation

As of March 1, 2018:
102% of Normal Precipitation

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%



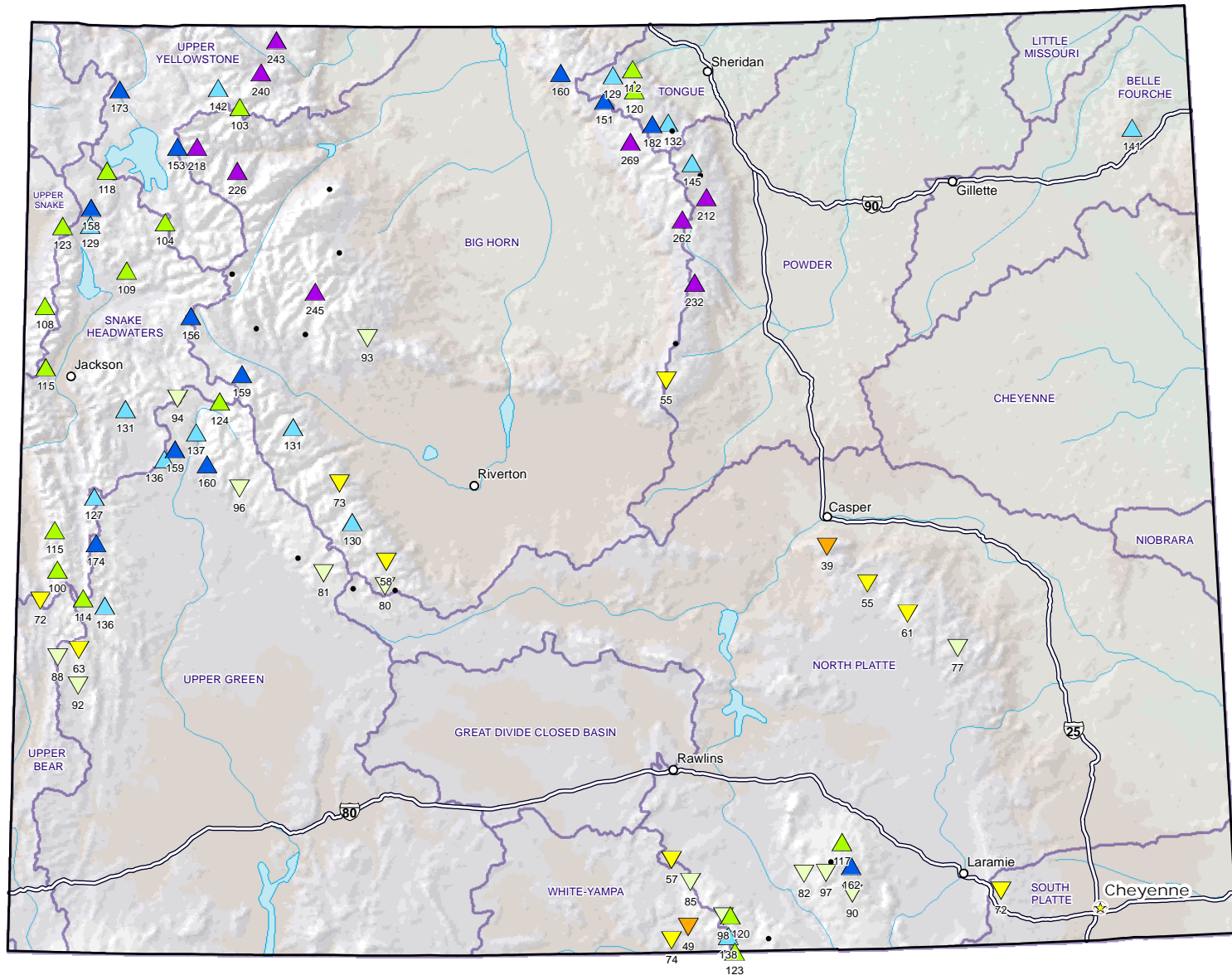
Wyoming SNOTEL Month to Date (MTD) Precipitation % of Normal

Mar 01, 2018

Current MTD Precipitation % of 1981-2010 Average

- ▲ > 200%
- ▲ 150-200%
- ▲ 125-149%
- ▲ 100-124%
- ▼ 75-99%
- ▼ 50-74%
- ▼ 25-49%
- ▼ 1-24%
- +
- Unavailable*

*Provisional Data
Subject to Revision*



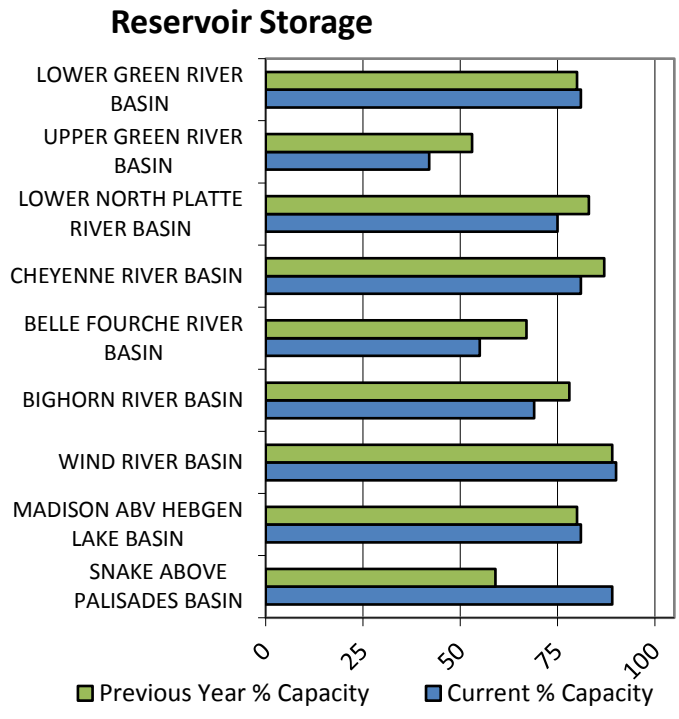
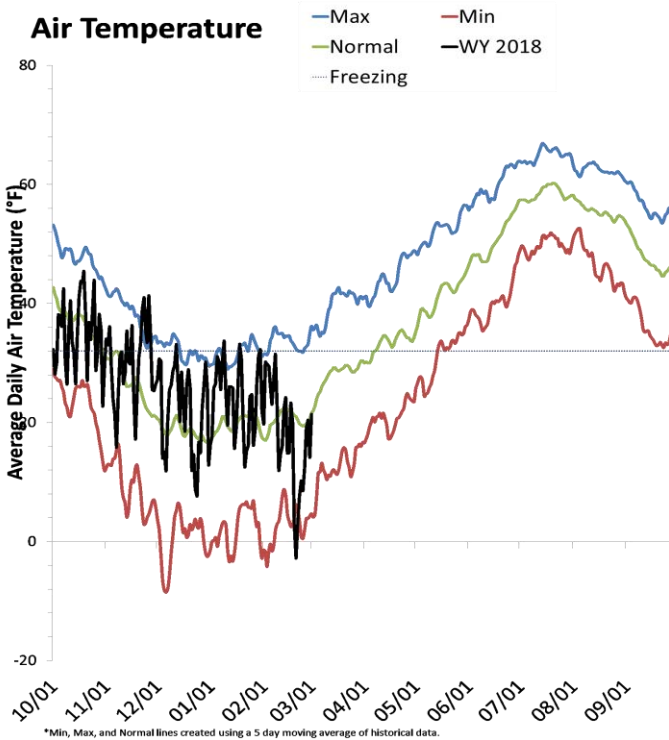
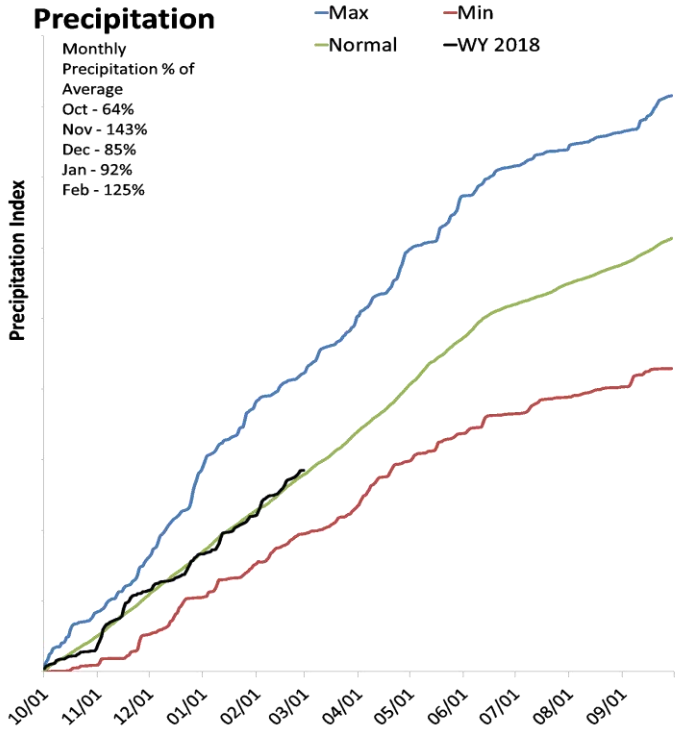
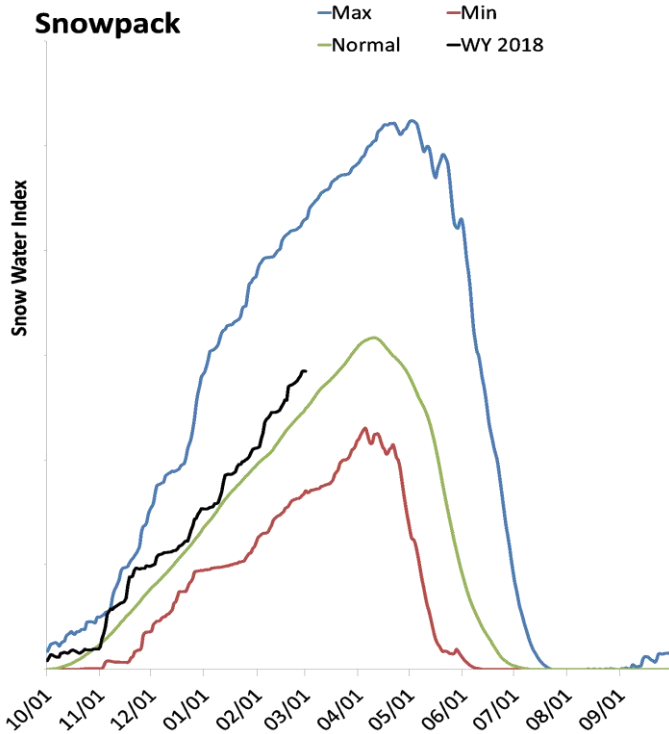
Prepared by:
USDA/NRCS National Water and Climate Center
Portland, Oregon
<http://www.wcc.nrcs.usda.gov>

** Data unavailable at time of posting or unavailable long-term normal.*

Wyoming Statewide

March 1, 2018

Snowpack in Wyoming is above normal at 114% of normal, compared to 148% last year. Precipitation in February was above average at 125%, which brings the seasonal accumulation (Oct-Feb) to 102% of average. Soil moisture at sites with sensors is at 52% of saturation. Reservoir storage is at 78% of capacity, compared to 74% last year. Forecast streamflow volumes range from 40% to 171% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Statewide - March 1, 2018

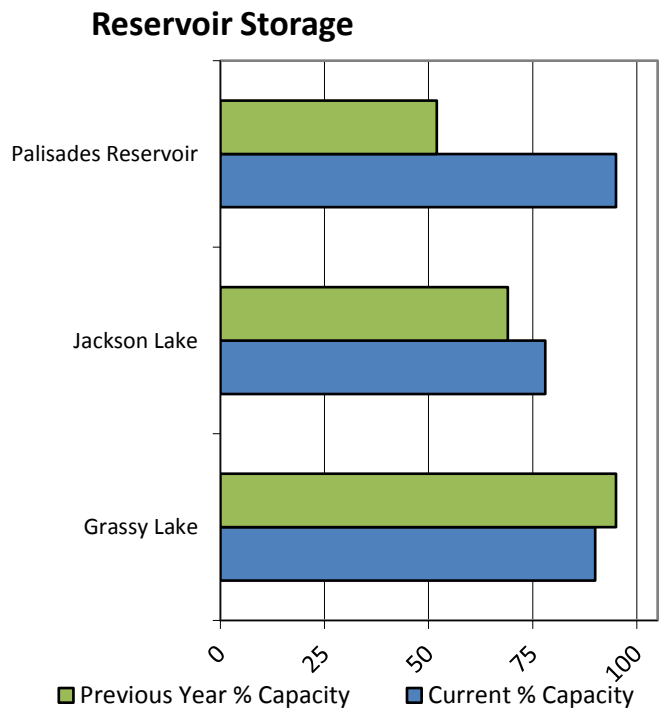
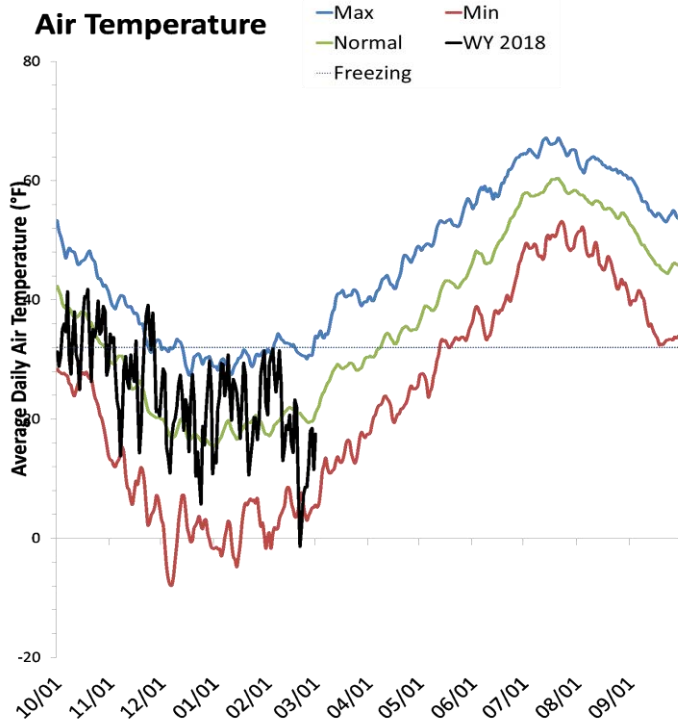
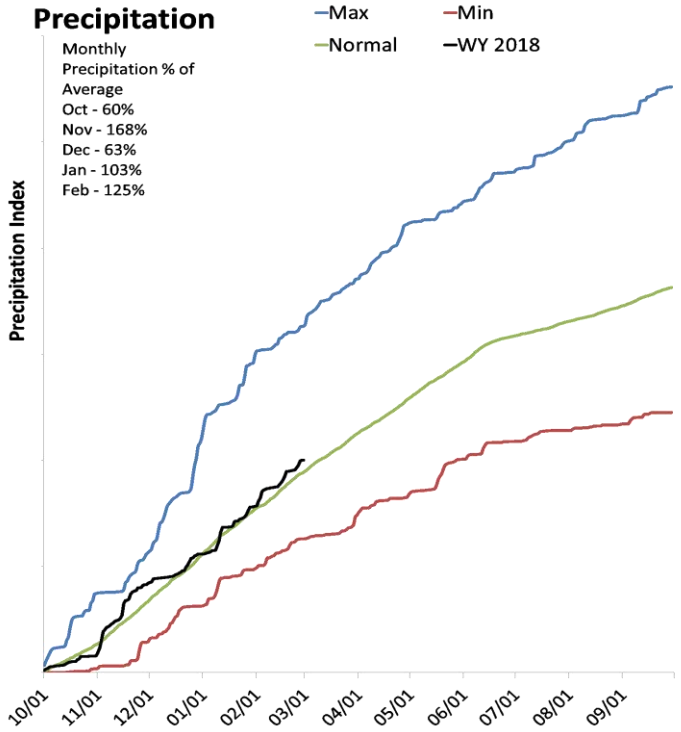
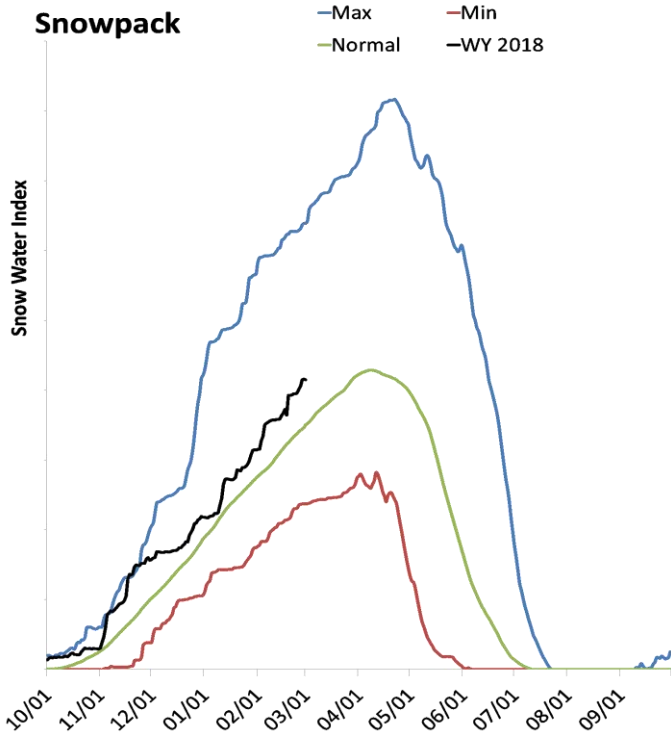
Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Hebgen Lake	307.0	302.6	274.6	378.8
Pilot Butte	24.2	25.6	23.3	31.6
Bull Lake	103.6	46.0	75.4	151.8
Boysen	575.8	620.2	495.8	596.0
Buffalo Bill	467.4	483.2	350.7	646.6
Bighorn Lake	776.2	900.9	797.1	1356.0
Tongue River Res	49.5	60.3	28.2	79.1
Shadehill	33.4	38.8	45.1	81.4
Angostura	88.4	97.5	87.6	122.1
Deerfield	14.6	15.0	13.9	15.2
Pactola	52.1	53.9	45.6	55.0
Keyhole	119.3	146.5	90.6	193.8
Belle Fourche	98.6	116.4	119.4	178.4
Seminole	805.5	754.7	493.1	1016.7
Pathfinder	838.5	940.3	582.4	1016.5
Alcova	156.1	157.3	155.8	184.3
Glendo	297.3	350.4	342.9	506.4
Guernsey	21.7	0.0	15.2	45.6
Wheatland #2	62.3	54.6	43.9	98.9
Fontenelle	130.9	177.6	127.6	344.8
Big Sandy	31.6	24.7	17.7	38.3
Meeks Cabin Reservoir	11.1	12.5	11.9	32.5
Viva Naughton Res	30.4	28.6	28.8	42.4
Flaming Gorge Reservoir	3194.0	3088.1	3014.0	3749.0
High Savery Reservoir	10.9	12.3	12.0	22.4
Woodruff Narrows Reservoir	51.6	53.3	31.6	57.3
Jackson Lake	656.6	586.5	434.7	847.0
Palisades Reservoir	1334.8	726.0	925.7	1400.0
Grassy Lake	13.6	14.5	12.1	15.2
Basin-wide Total	10050.3	9585.9	8422.1	12924.3
# of reservoirs	28	28	28	28

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
SNAKE ABOVE PALISADES BASIN	20	118%	157%
MADISON ABV HEBGEN LAKE BASIN	4	123%	125%
UPPER YELLOWSTONE IN WY BASIN	8	158%	146%
WIND RIVER BASIN	9	115%	193%
BIGHORN RIVER BASIN	10	133%	113%
SHOSHONE RIVER BASIN	4	157%	156%
POWDER RIVER BASIN	7	128%	96%
TONGUE RIVER BASIN	6	109%	104%
BELLE FOURCHE RIVER BASIN	1	108%	60%
CHEYENNE RIVER BASIN	2	108%	71%
UPPER NORTH PLATTE RIVER BASIN	17	88%	124%
SWEETWATER RIVER BASIN	3	86%	225%
LOWER NORTH PLATTE RIVER BASIN	4	72%	113%
LARAMIE RIVER BASIN	7	105%	125%
SOUTH PLATTE RIVER BASIN	4	90%	117%
LITTLE SNAKE RIVER BASIN	8	79%	128%
UPPER GREEN RIVER BASIN	12	122%	191%
LOWER GREEN RIVER BASIN	7	86%	161%
UPPER BEAR RIVER BASIN	7	75%	170%
Statewide	80	114%	148%

Snake above Palisades Reservoir

March 1, 2018

Snowpack in the Snake above Palisades Reservoir is above normal at 118% of normal, compared to 157% last year. Precipitation in February was above average at 123%, which brings the seasonal accumulation (Oct-Feb) to 104% of average. Soil moisture at sites with sensors is at 62% of saturation. Reservoir storage is at 89% of capacity, compared to 59% last year. Forecast streamflow volumes range from 82% to 122% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Snake Above Palisades Basin Streamflow Forecasts - March 1, 2018

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

SNAKE ABOVE PALISADES BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Snake R nr Moran ²	APR-JUL	710	805	870	114%	935	1030	765
	APR-SEP	785	890	965	114%	1040	1140	845
Snake R ab Reservoir nr Alpine ²	APR-JUL	2040	2290	2460	113%	2630	2890	2170
	APR-SEP	2330	2620	2820	113%	3020	3320	2500
Snake R nr Irwin ²	APR-JUL	2490	2880	3140	104%	3400	3790	3010
	APR-SEP	2880	3340	3650	104%	3960	4410	3500
Snake R nr Heise ²	APR-JUL	2680	3100	3380	104%	3660	4070	3240
	APR-SEP	3130	3620	3950	104%	4280	4770	3780
Pacific Ck at Moran	APR-JUL	154	182	200	122%	220	250	164
	APR-SEP	163	192	210	121%	230	260	173
Buffalo Fk ab Lava Ck nr Moran	APR-JUL	265	305	335	120%	360	400	280
	APR-SEP	300	345	380	119%	410	460	320
Greys R ab Reservoir nr Alpine	APR-JUL	240	280	305	100%	330	370	305
	APR-SEP	275	325	355	99%	385	435	360
Salt R ab Reservoir nr Etna	APR-JUL	134	199	245	82%	290	355	300
	APR-SEP	176	255	305	82%	355	435	370

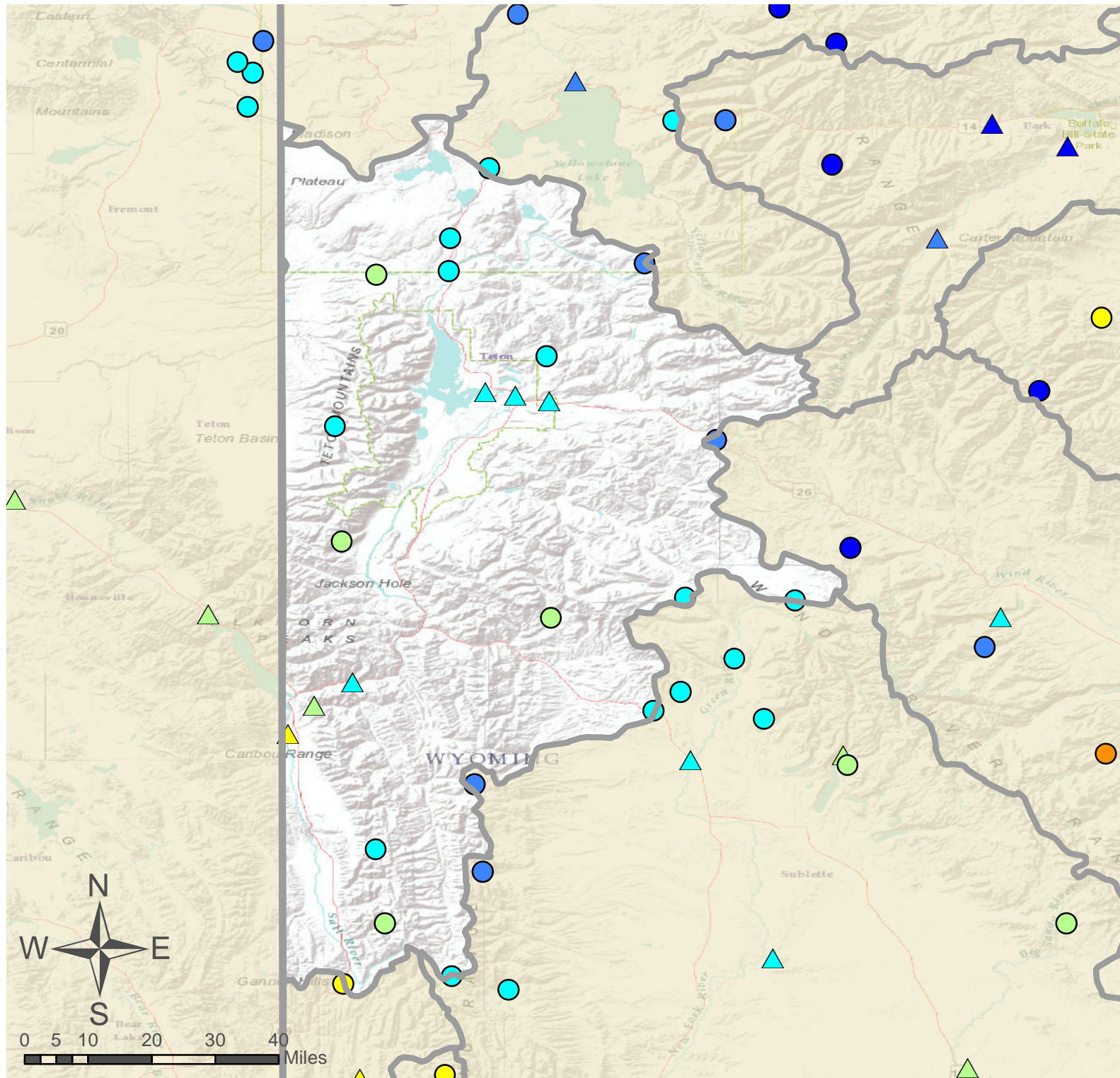
1) 90% and 10% exceedance probabilities are actually 95% and 5%

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

3) Median value used in place of average

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Grassy Lake	13.6	14.5	12.1	15.2
Jackson Lake	656.6	586.5	434.7	847.0
Palisades Reservoir	1334.8	726.0	925.7	1400.0
Basin-wide Total	2005.0	1327.0	1372.5	2262.2
# of reservoirs	3	3	3	3

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
SNAKE above Jackson Lake	12	114%	146%
PACIFIC CREEK	4	121%	182%
BUFFALO FORK	4	128%	156%
GROS VENTRE RIVER	5	122%	159%
HOBACK RIVER	6	121%	202%
GREYS RIVER	4	120%	166%
SALT RIVER	5	98%	151%
SNAKE AB PALISADES RESV	34	112%	159%



Snake above Palisades Reservoir

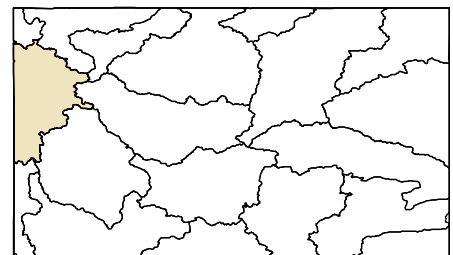
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

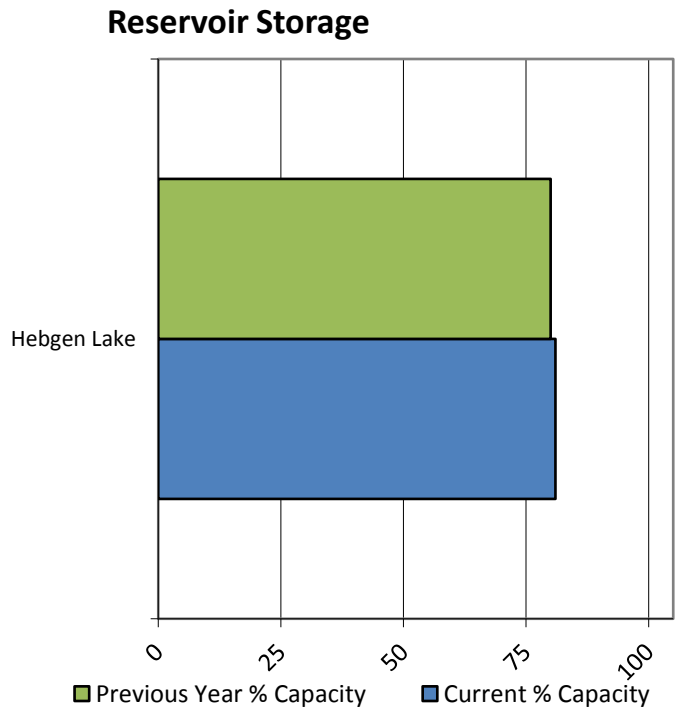
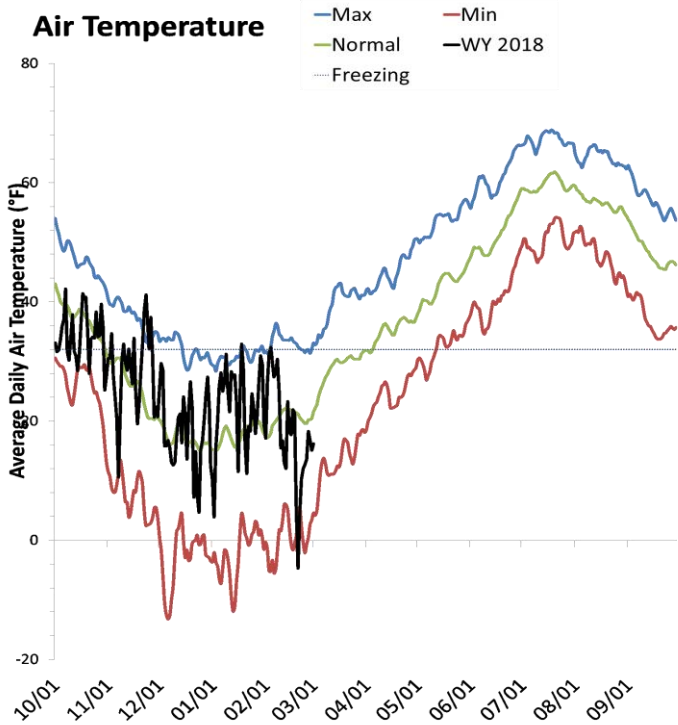
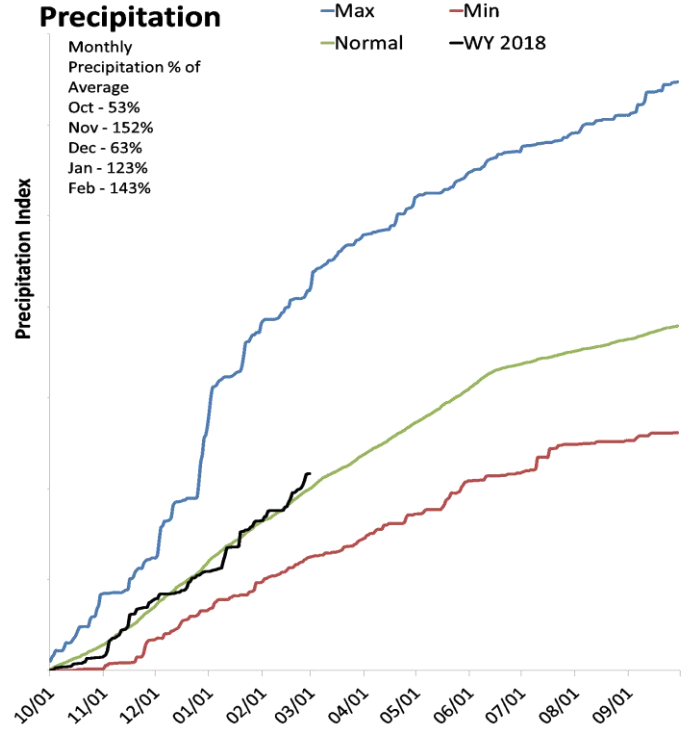
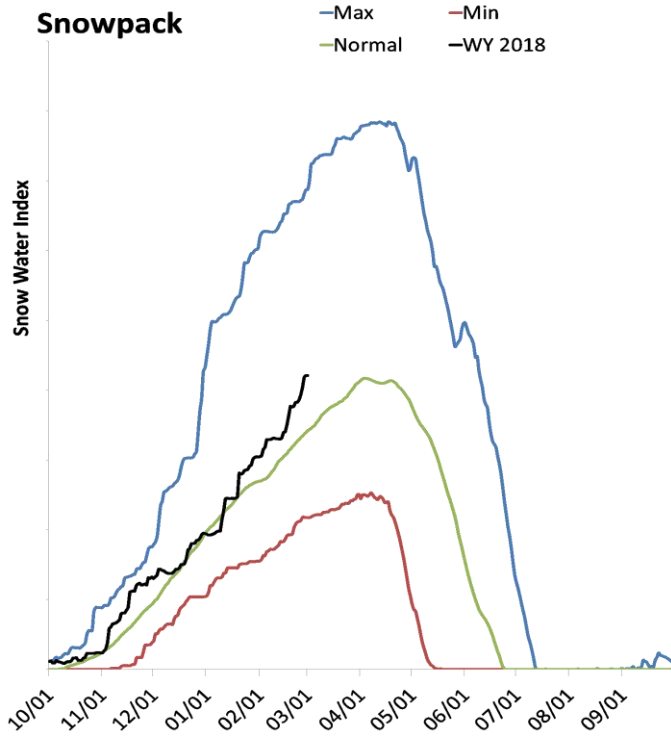
- 118% of Normal SWE
- 104% of Normal Precipitation
- 123% of Normal Precipitation Last Month



Madison River above Hebgen Lake

March 1, 2018

Snowpack in the Madison River above Hebgen Lake is above normal at 123% of normal, compared to 125% last year. Precipitation in February was much above average at 142%, which brings the seasonal accumulation (Oct-Feb) to 108% of average. Reservoir storage is at 81% of capacity, compared to 80% last year. Forecast streamflow volumes range from 112% to 112% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Madison Abv Hebgen Lake Basin Streamflow Forecasts - March 1, 2018

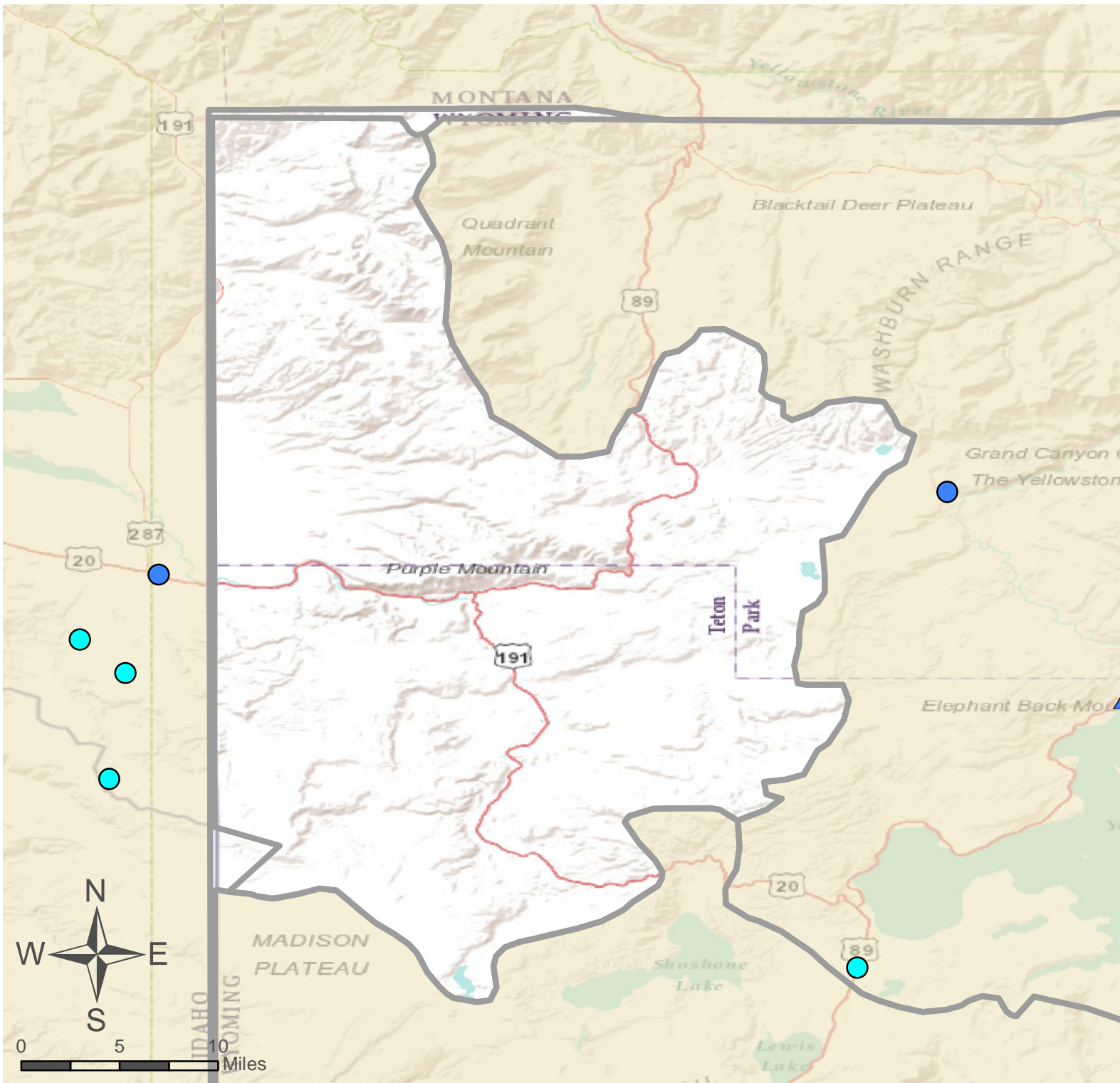
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

MADISON ABV HEBGEN LAKE BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
<hr/>								
Hebgen Lake Inflow	APR-JUL	340	385	415	112%	445	490	370
	APR-SEP	435	490	525	112%	560	615	470

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

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Hebgen Lake	307.0	302.6	274.6	378.8
Basin-wide Total		0.0	0.0	0.0
# of reservoirs	0	0	0	0

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
MADISON ABV HEBGEN LAKE	5	124%	131%



Madison River above Hebgen Lake

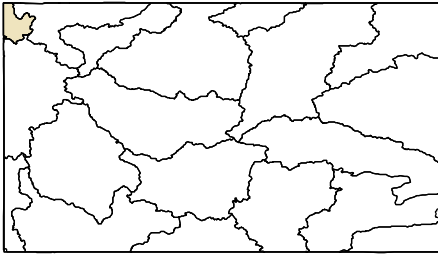
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

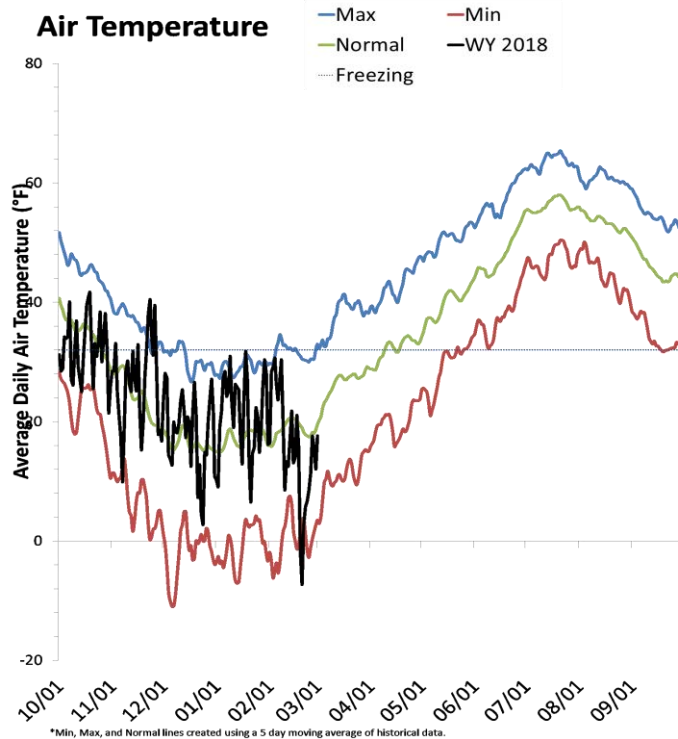
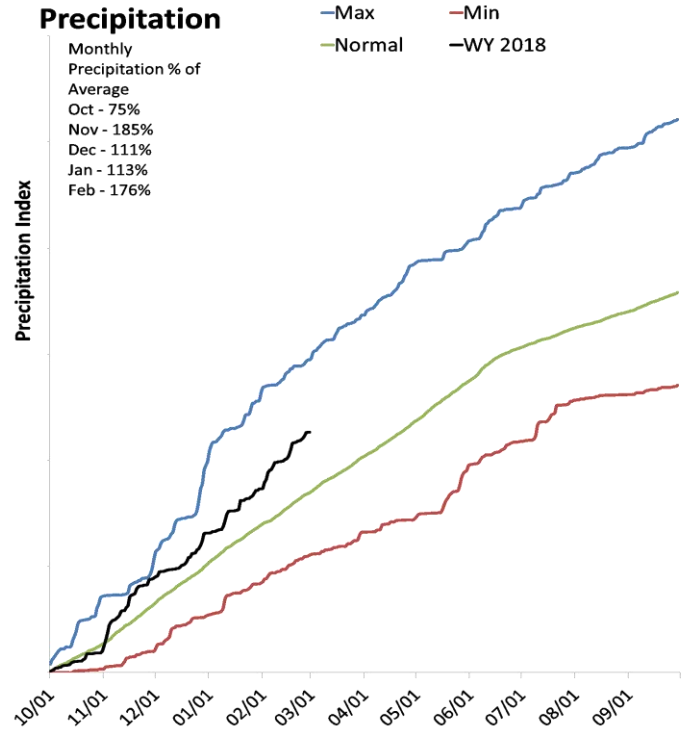
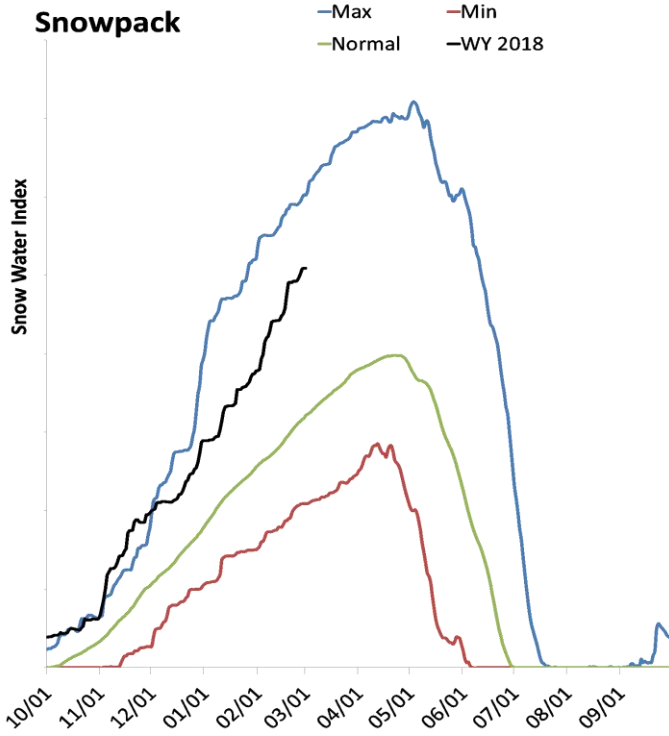
- 123% of Normal SWE
- 108% of Normal Precipitation
- 142% of Normal Precipitation Last Month



Upper Yellowstone in Wyoming

March 1, 2018

Snowpack in the Upper Yellowstone in Wyoming is much above normal at 158% of normal, compared to 146% last year. Precipitation in February was much above average at 177%, which brings the seasonal accumulation (Oct-Feb) to 134% of average. Soil moisture at sites with sensors is at 79% of saturation. Forecast streamflow volumes range from 143% to 145% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Upper Yellowstone In Wy Basin Streamflow Forecasts - March 1, 2018

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

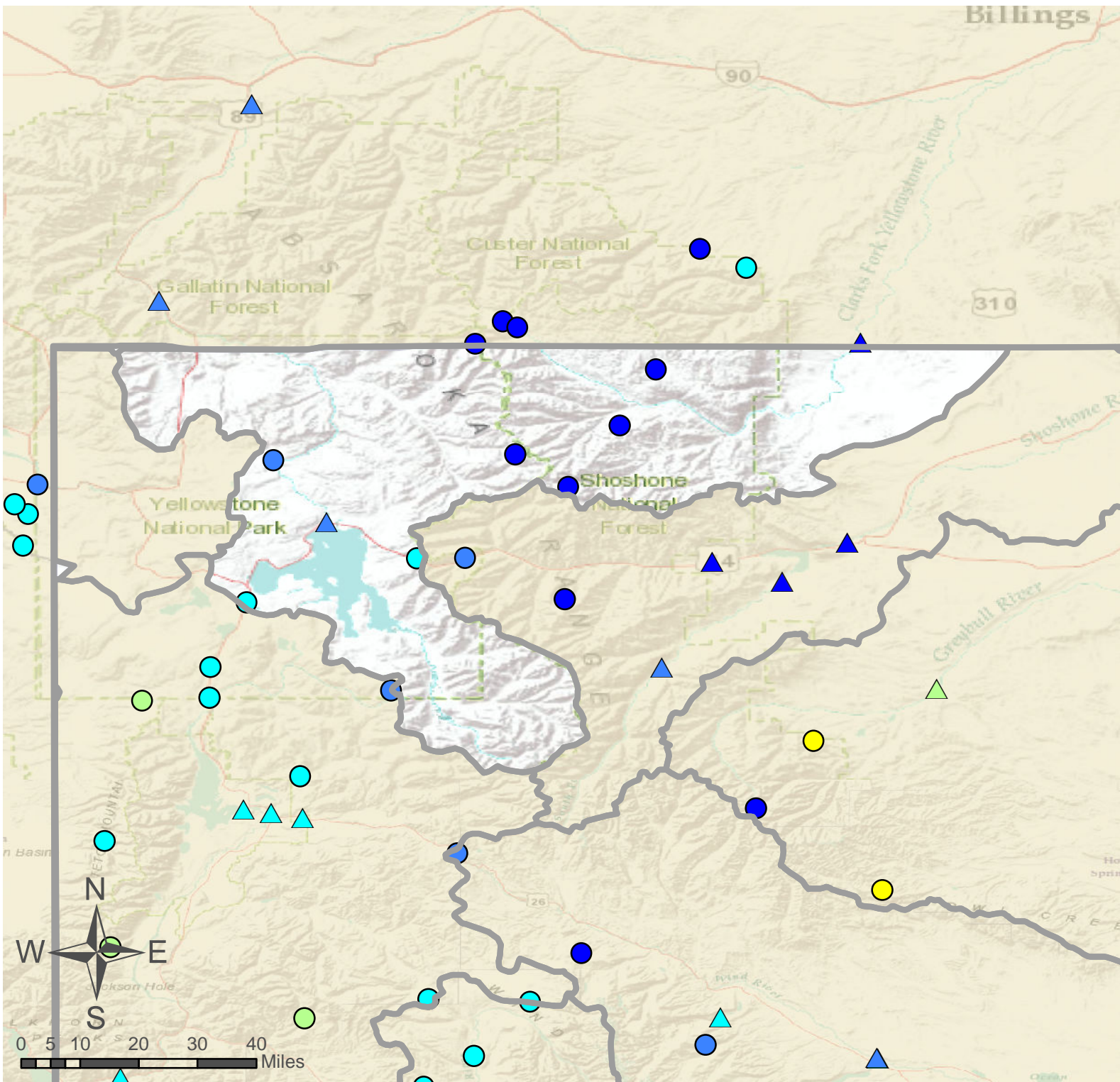
UPPER YELLOWSTONE IN WY BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
<hr/>								
Yellowstone R at Yellowstone Lake Outlet	APR-JUL	700	775	825	143%	875	950	575
	APR-SEP	925	1030	1100	143%	1170	1280	770
Yellowstone R at Corwin Springs	APR-JUL	1990	2180	2300	145%	2420	2610	1590
	APR-SEP	2350	2570	2720	145%	2870	3090	1880
Clarks Fk Yellowstone R nr Belfry ²	APR-JUL	740	815	865	170%	915	990	510
	APR-SEP	820	900	955	174%	1010	1090	550

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

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

3) Median value used in place of average

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
UPPER YELLOWSTONE IN WY	9	157%	143%
CLARKS FORK in WY	7	186%	145%



Upper Yellowstone in Wyoming

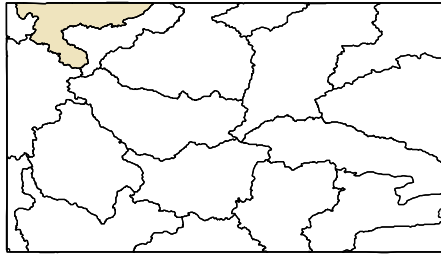
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

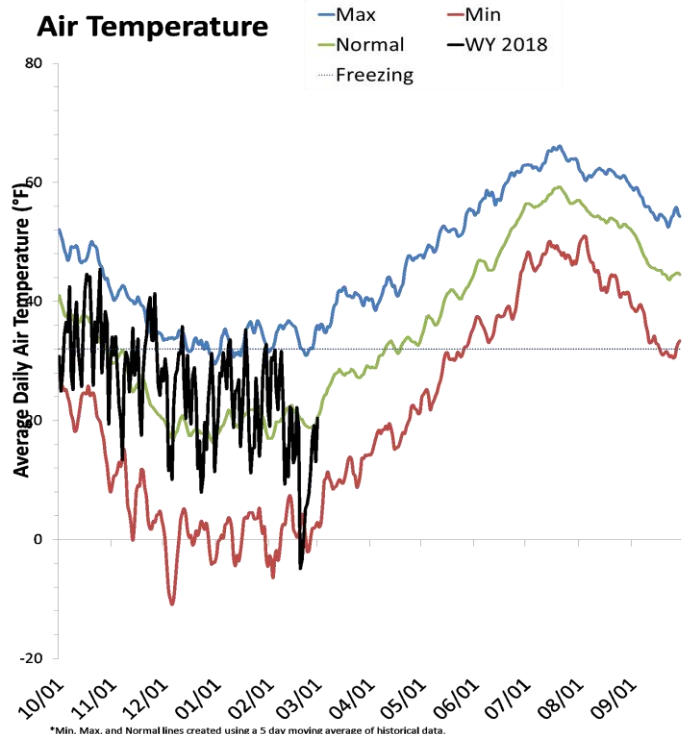
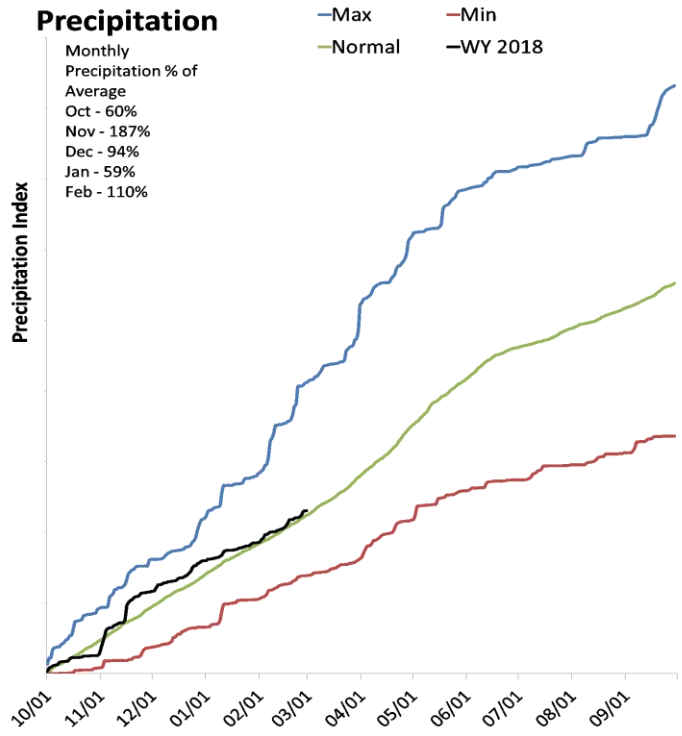
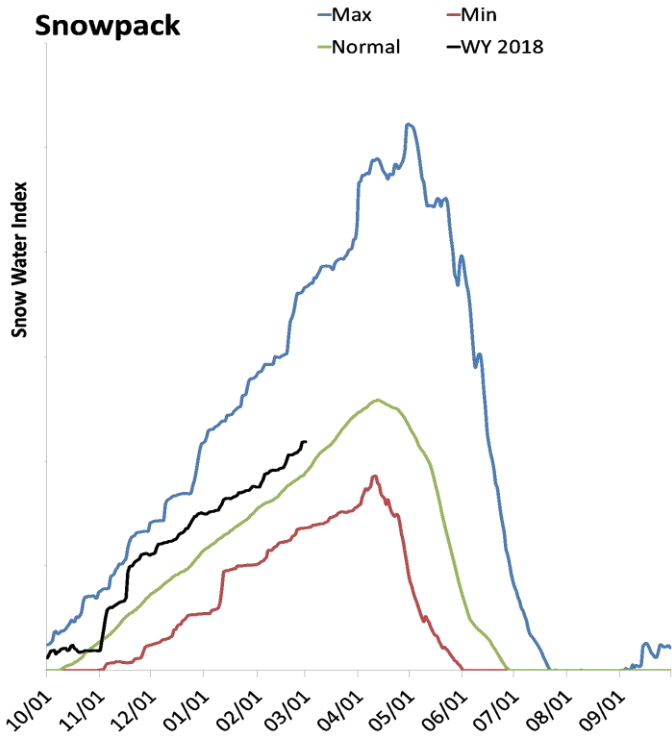
- 158% of Normal SWE
- 134% of Normal Precipitation
- 177% of Normal Precipitation Last Month



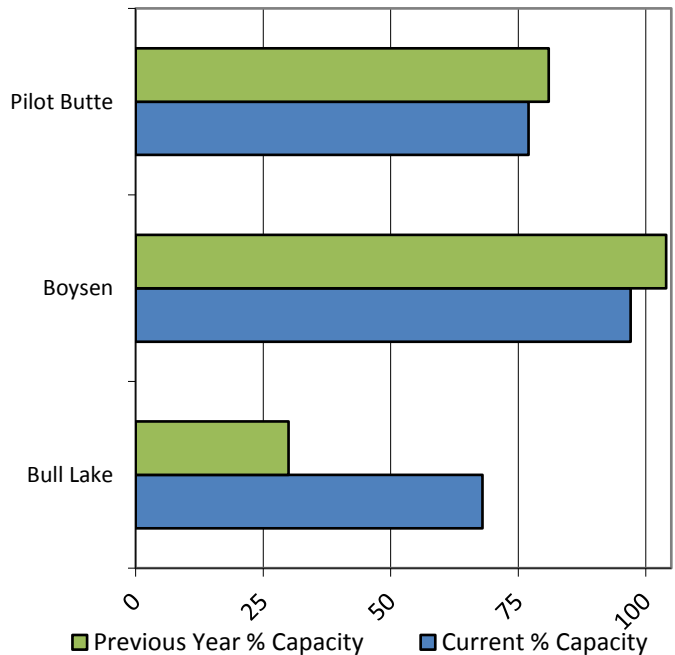
Wind River Basin

March 1, 2018

Snowpack in the Wind River Basin is above normal at 115% of normal, compared to 193% last year. Precipitation in February was above average at 111%, which brings the seasonal accumulation (Oct-Feb) to 103% of average. Reservoir storage is at 90% of capacity, compared to 89% last year. Forecast streamflow volumes range from 76% to 145% of average.



Reservoir Storage



Wind River Basin Streamflow Forecasts - March 1, 2018

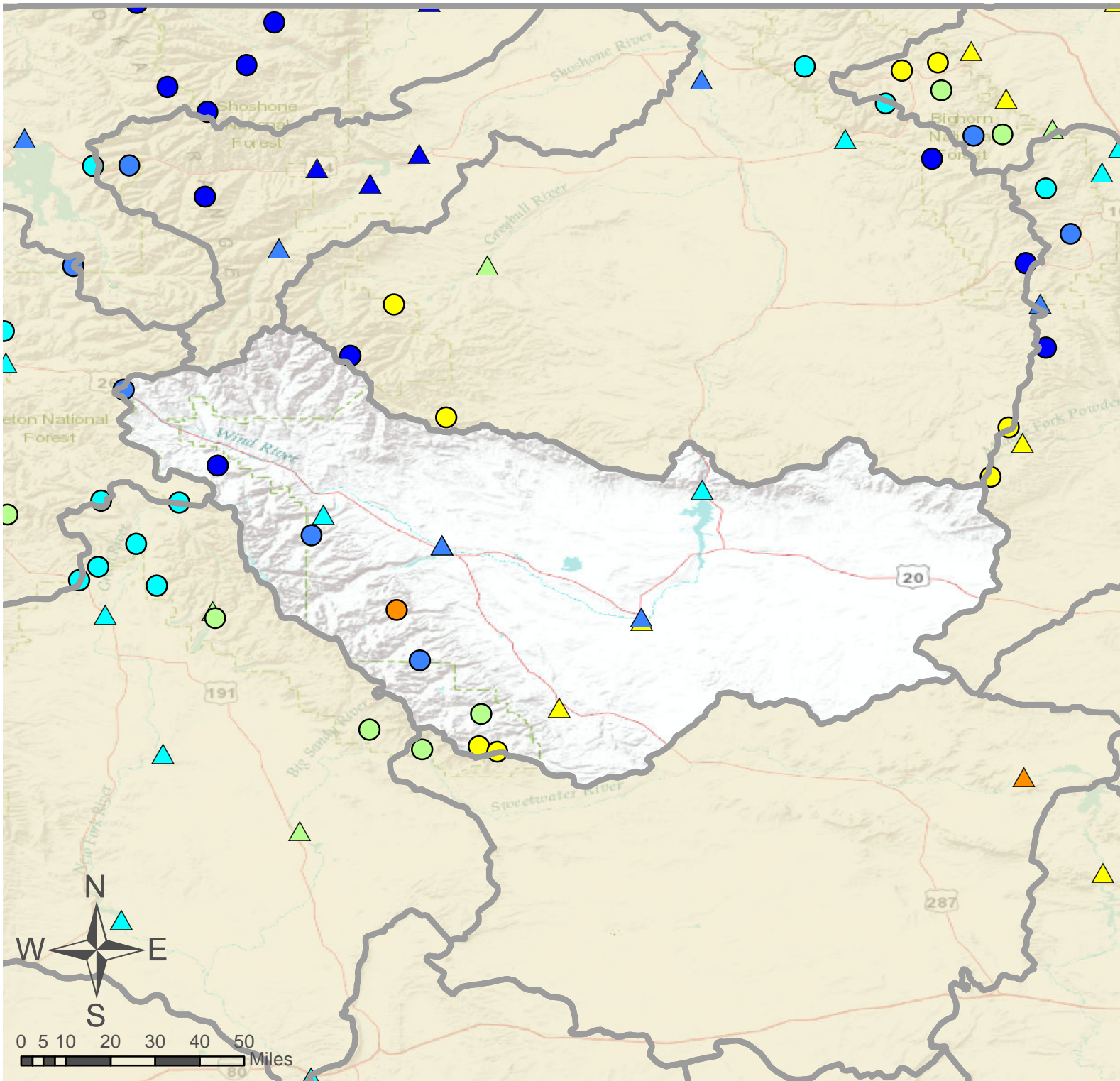
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

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	65	72	78	118%	83	91	66
	APR-SEP	92	101	107	116%	113	122	92
Wind R Ab Bull Lake Ck	APR-JUL	510	595	650	143%	710	795	455
	APR-SEP	550	645	710	145%	775	870	490
Bull Lake Ck nr Lenore	APR-JUL	119	139	153	110%	167	187	139
	APR-SEP	144	169	186	110%	200	225	169
Wind R at Riverton	APR-JUL	525	620	690	145%	755	850	475
	APR-SEP	615	725	800	145%	875	985	550
Little Popo Agie R nr Lander	APR-JUL	13.1	24	32	76%	40	51	42
	APR-SEP	17.2	29	37	76%	45	57	49
Little Wind R nr Riverton	APR-JUL	56	160	230	85%	300	405	270
	APR-SEP	69	178	250	85%	325	435	295
Boysen Reservoir Inflow	APR-JUL	405	625	770	126%	920	1140	610
	APR-SEP	440	675	830	125%	990	1220	665

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

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Bull Lake	103.6	46.0	75.4	151.8
Boysen	575.8	620.2	495.8	596.0
Pilot Butte	24.2	25.6	23.3	31.6
Basin-wide Total	703.7	691.8	594.5	779.4
# of reservoirs	3	3	3	3

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
WIND above Dubois	6	153%	211%
LITTLE WIND	2	109%	193%
POPO AGIE	7	87%	233%
WIND RIVER	17	116%	218%



Wind River Basin

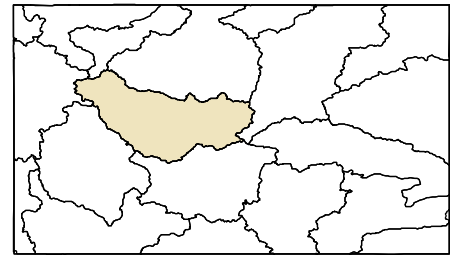
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

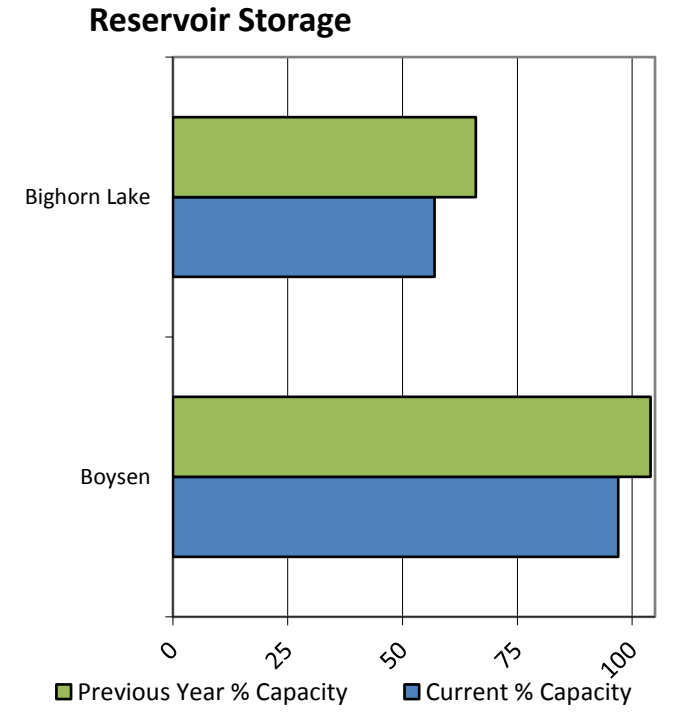
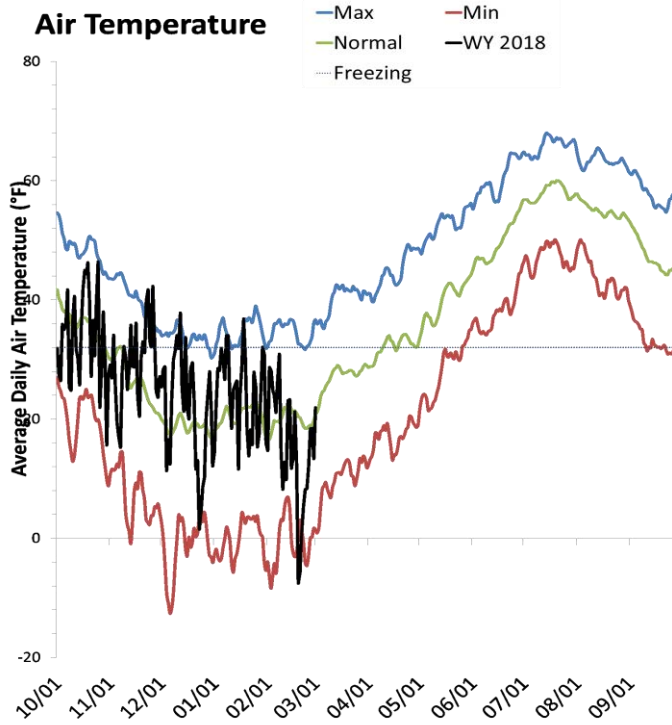
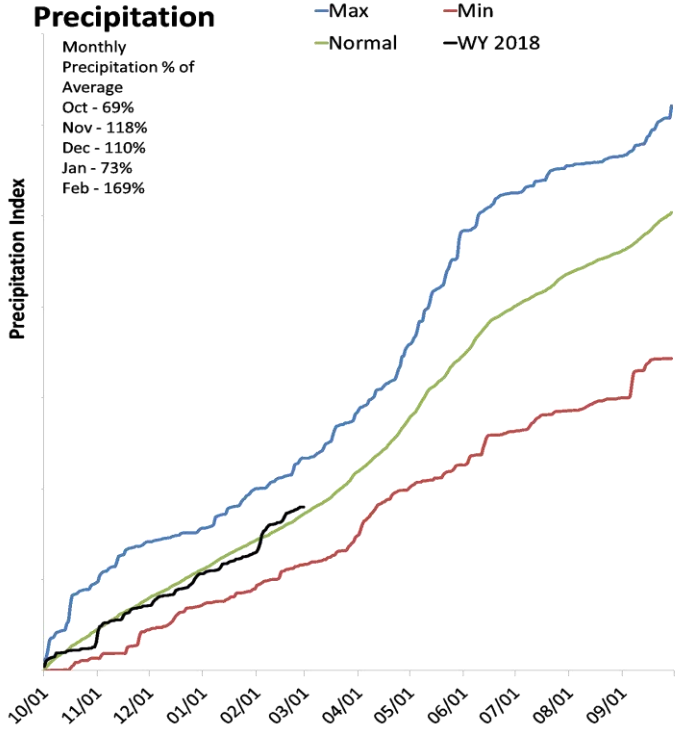
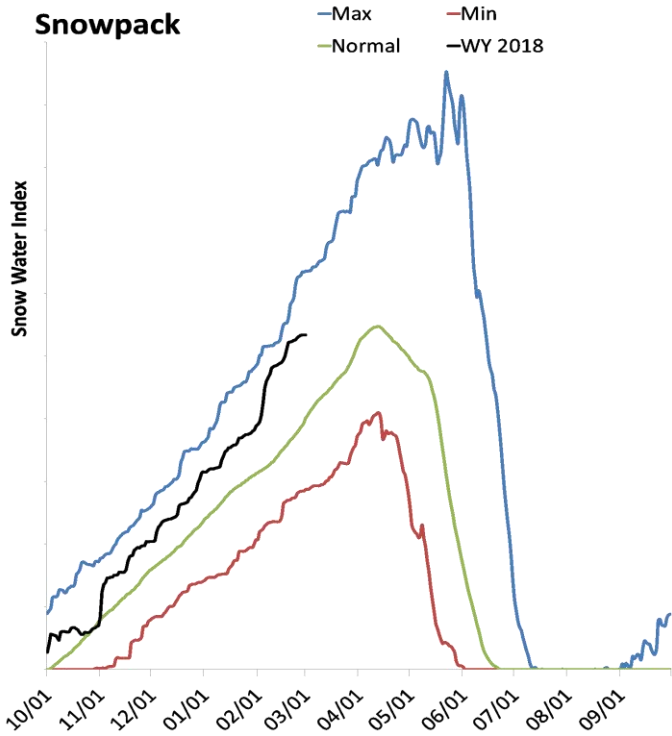
- 115% of Normal SWE
- 103% of Normal Precipitation
- 111% of Normal Precipitation Last Month



Bighorn River Basin

March 1, 2018

Snowpack in the Bighorn River Basin is much above normal at 133% of normal, compared to 113% last year. Precipitation in February was much above average at 170%, which brings the seasonal accumulation (Oct-Feb) to 104% of average. Reservoir storage is at 69% of capacity, compared to 78% last year. Forecast streamflow volumes range from 108% to 130% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Bighorn River Basin Streamflow Forecasts - March 1, 2018

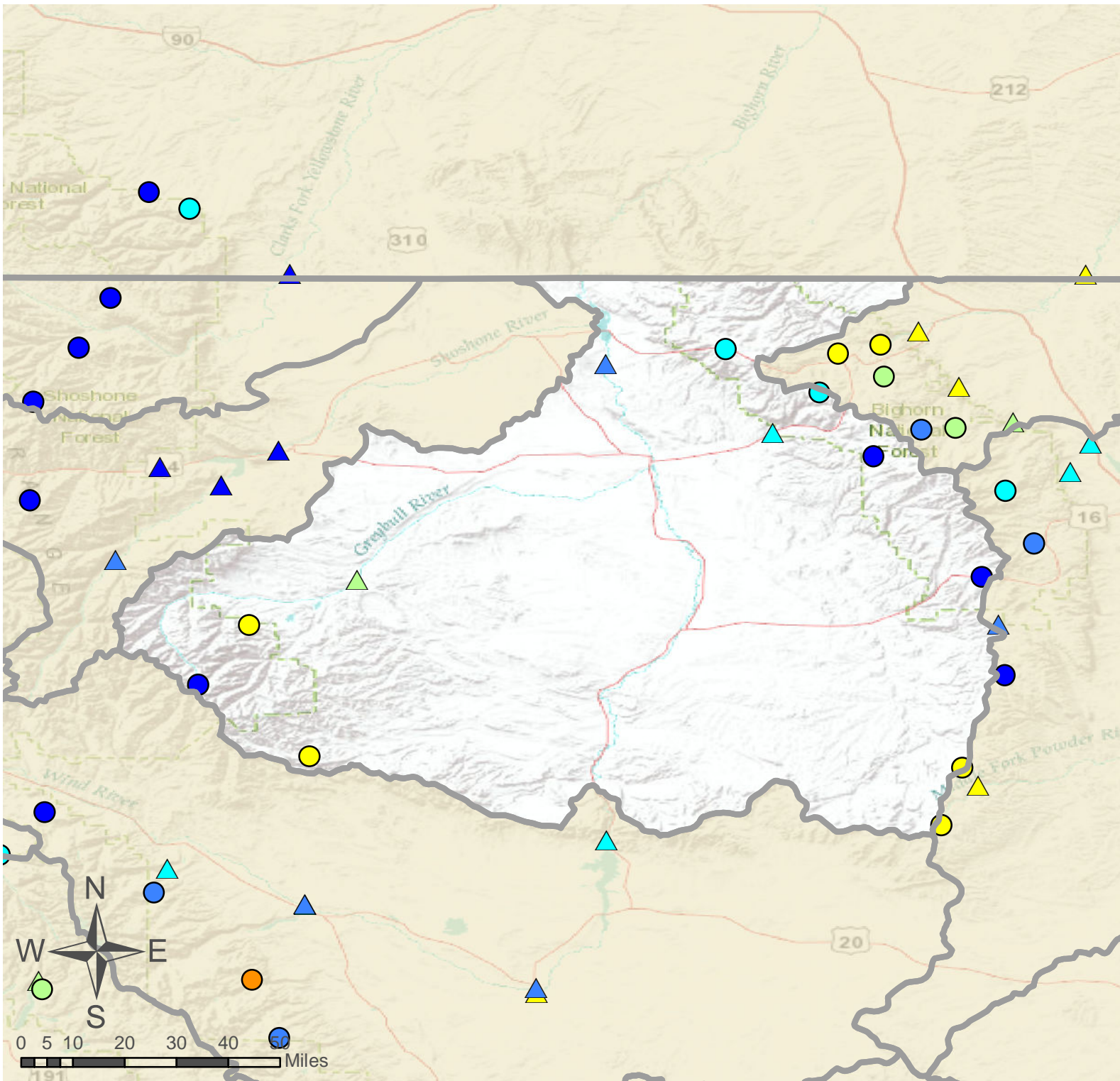
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

BIGHORN RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Boysen Reservoir Inflow	APR-JUL	405	625	770	126%	920	1140	610
	APR-SEP	440	675	830	125%	990	1220	665
Greybull R at Meeteetse	APR-JUL	80	116	141	108%	165	200	131
	APR-SEP	118	161	190	107%	220	260	177
Shell Ck nr Shell	APR-JUL	53	63	69	125%	75	85	55
	APR-SEP	64	74	81	123%	88	98	66
Bighorn R at Kane	APR-JUL	545	870	1090	130%	1310	1630	840
	APR-SEP	580	930	1170	129%	1400	1750	905

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

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Boysen	575.8	620.2	495.8	596.0
Bighorn Lake	776.2	900.9	797.1	1356.0
Basin-wide Total	1352.0	1521.1	1292.9	1952.0
# of reservoirs	2	2	2	2

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
NOWOOD RIVER	7	141%	80%
GREYBULL RIVER	2	179%	196%
SHELL CREEK	4	136%	108%
BIGHORN RIVER	14	141%	107%



Bighorn River Basin

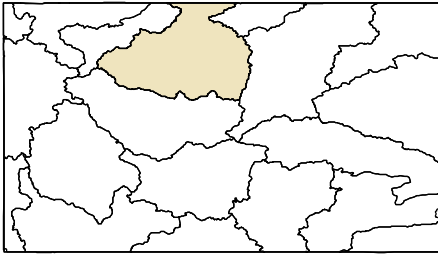
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

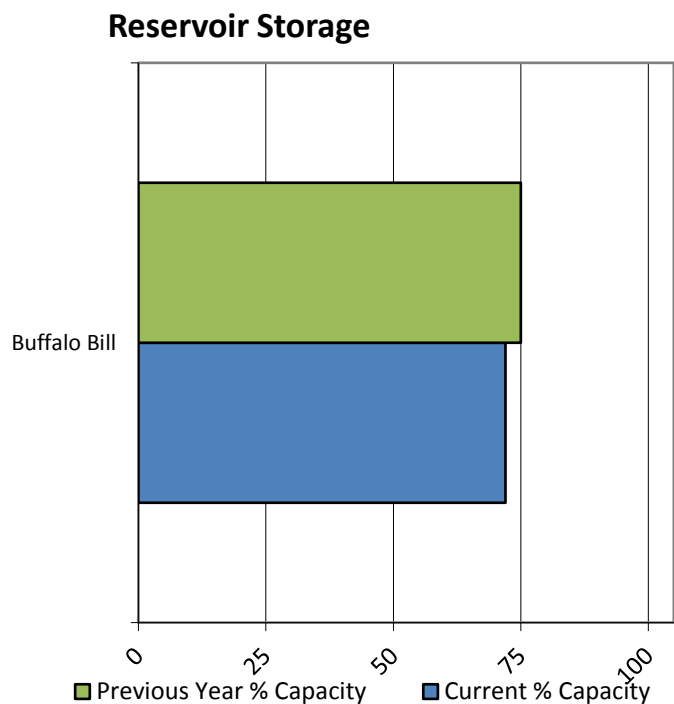
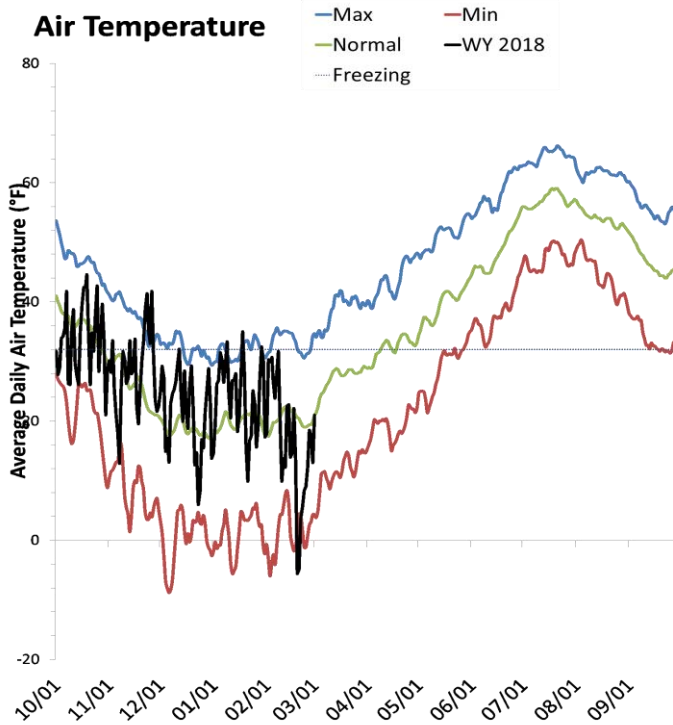
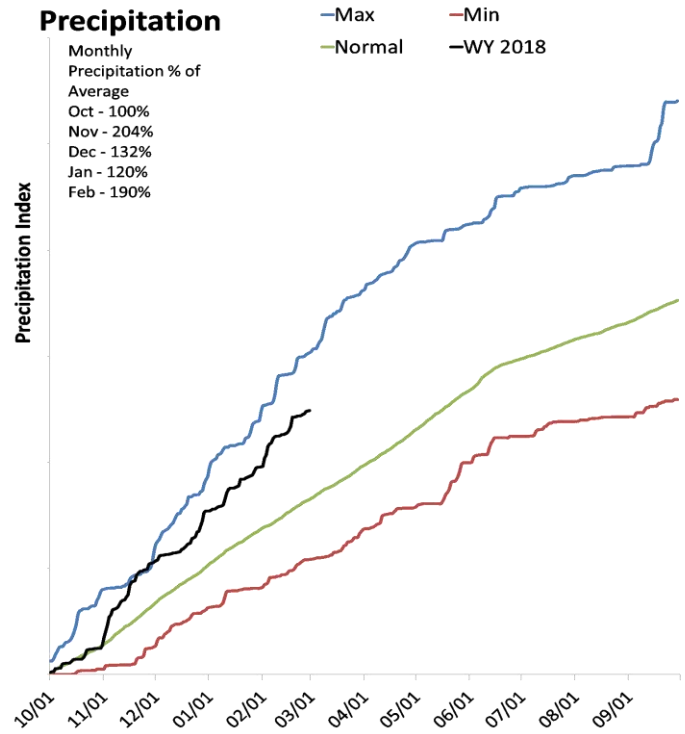
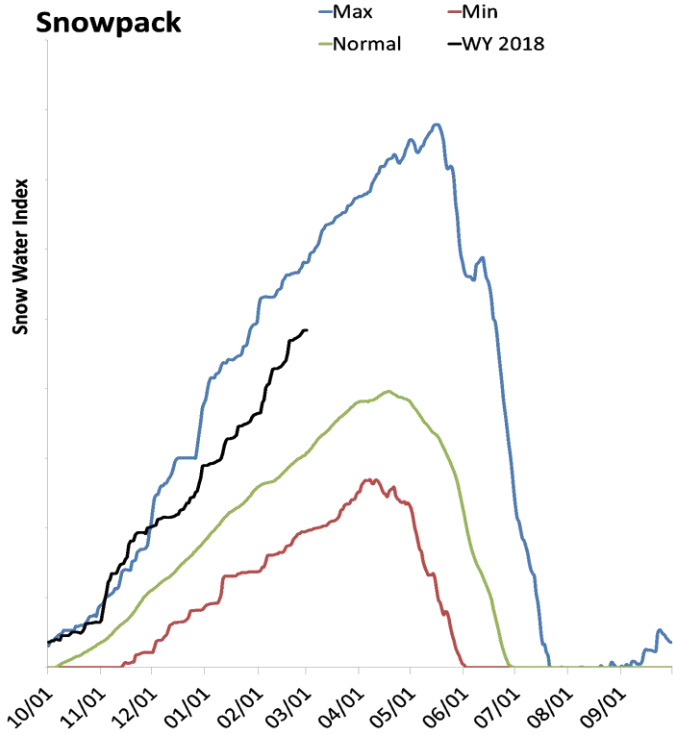
- 133% of Normal SWE
- 104% of Normal Precipitation
- 170% of Normal Precipitation Last Month



Shoshone River Basin

March 1, 2018

Snowpack in the Shoshone River Basin is much above average at 157% of normal, compared to 156% last year. Precipitation in February was much above average at 178%, which brings the seasonal accumulation (Oct-Feb) to 142% of average. Reservoir storage is at 72% of capacity, compared to 75% last year. Forecast streamflow volumes range from 149% to 171% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Shoshone River Basin Streamflow Forecasts - March 1, 2018

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	605	670	710	154%	755	815	460
	APR-SEP	675	745	790	153%	840	910	515
SF Shoshone R nr Valley	APR-JUL	265	300	320	149%	340	375	215
	APR-SEP	305	345	370	151%	395	435	245
SF Shoshone R ab Buffalo Bill Reservoir	APR-JUL	245	295	330	171%	365	415	193
	APR-SEP	265	320	355	178%	390	445	200
Buffalo Bill Reservoir Inflow ²	APR-JUL	870	980	1060	157%	1140	1250	675
	APR-SEP	960	1090	1170	157%	1250	1380	745

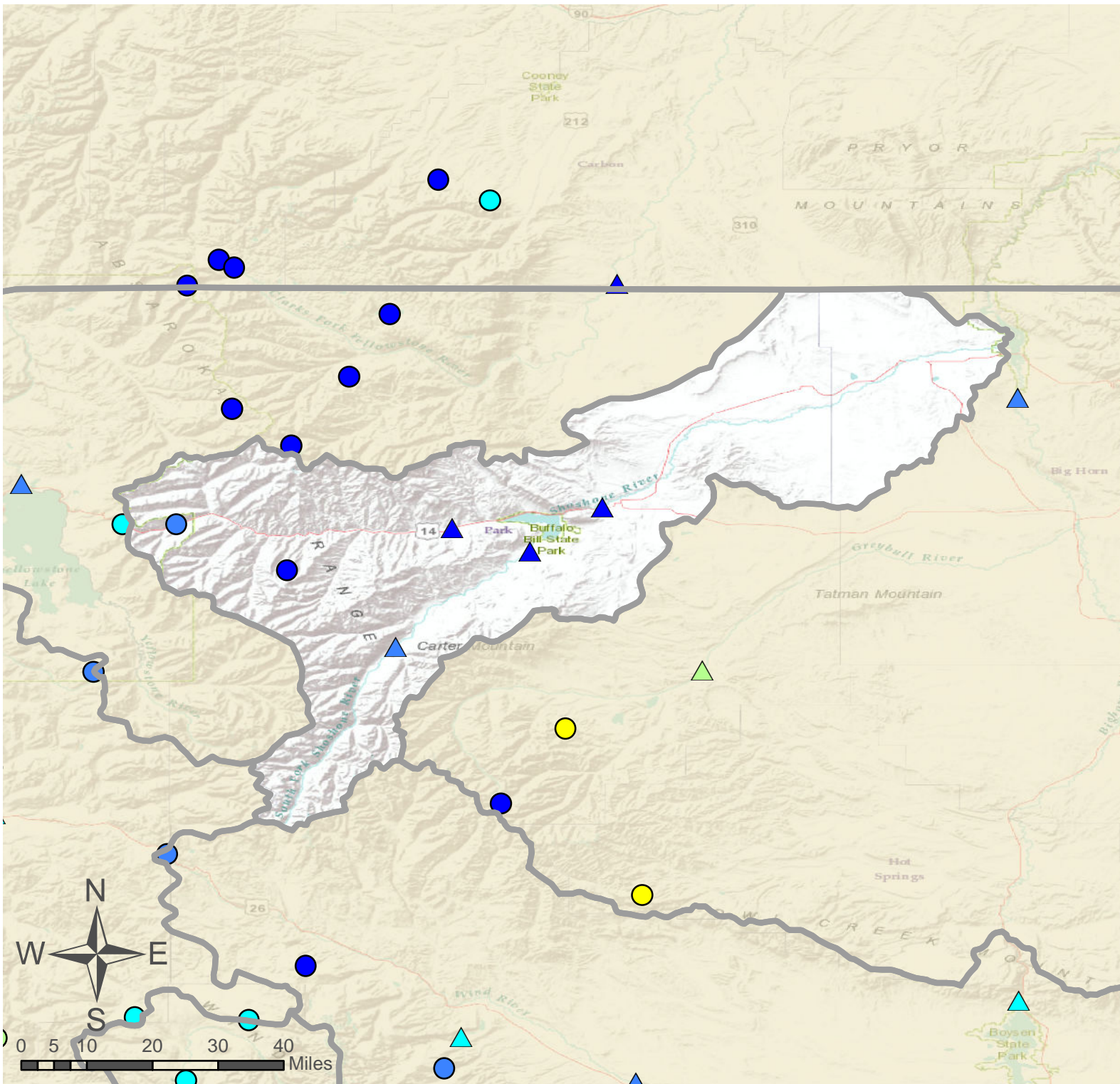
1) 90% and 10% exceedance probabilities are actually 95% and 5%

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

3) Median value used in place of average

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Buffalo Bill	467.4	483.2	350.7	646.6
Basin-wide Total	467.4	483.2	350.7	646.6
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
SHOSHONE RIVER	4	157%	156%



Shoshone River Basin

- SNOTEL Site
- △ Forecast Point

% of Normal

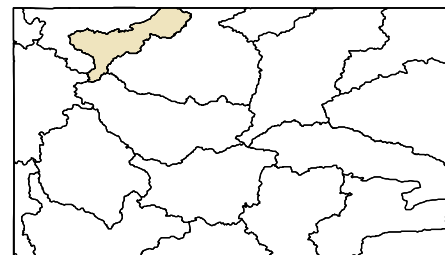
- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

157% of Normal SWE

142% of Normal Precipitation

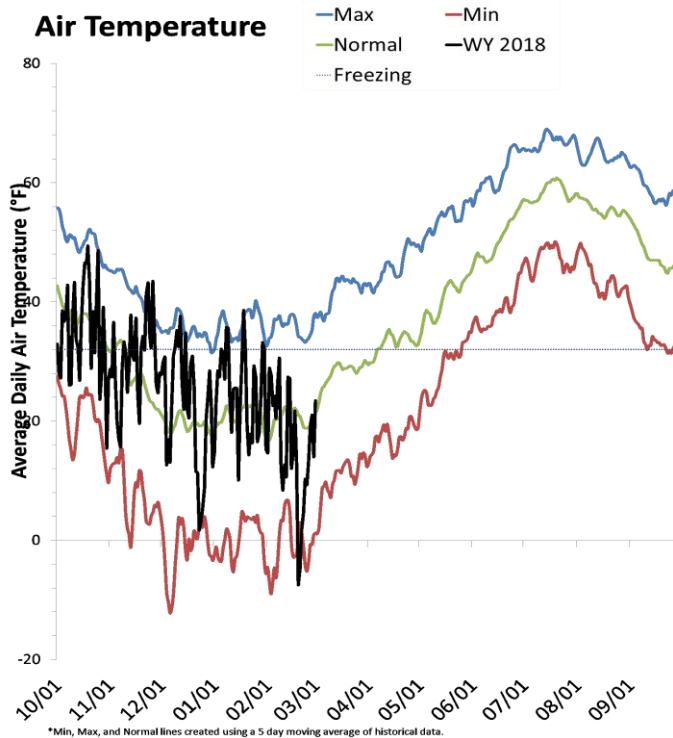
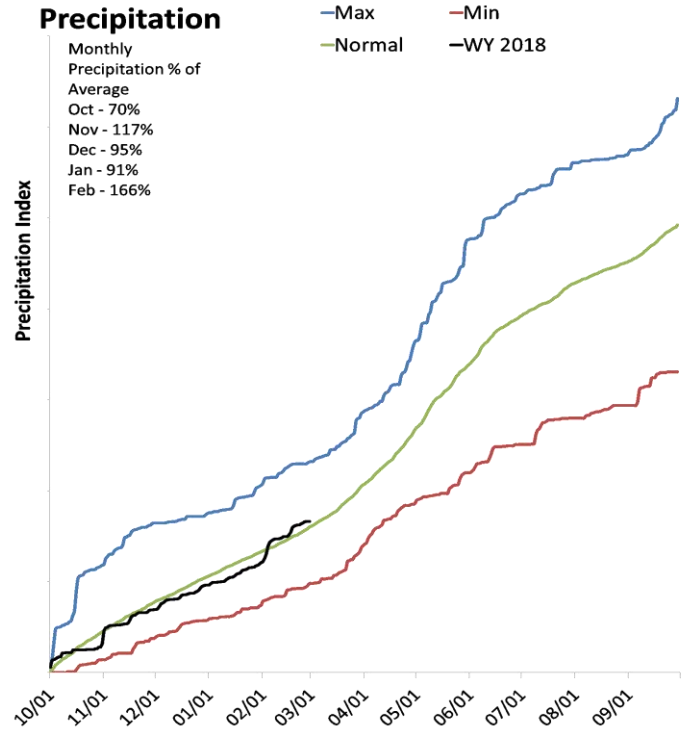
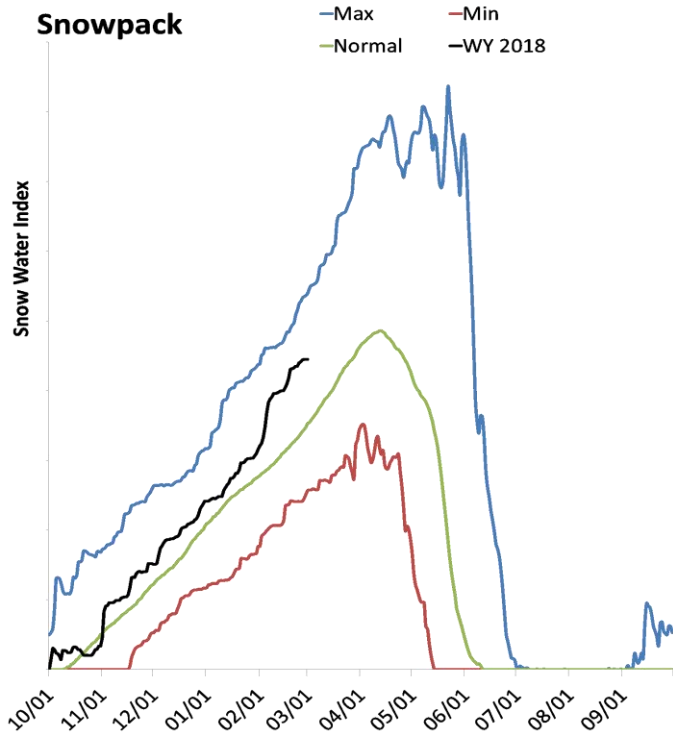
178% of Normal Precipitation Last Month



Powder River Basin

March 1, 2018

Snowpack in the Powder River Basin is above normal at 128% of normal, compared to 96% last year. Precipitation in February was much above average at 168%, which brings the seasonal accumulation (Oct-Feb) to 104% of average. Forecast streamflow volumes range from 81% to 146% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

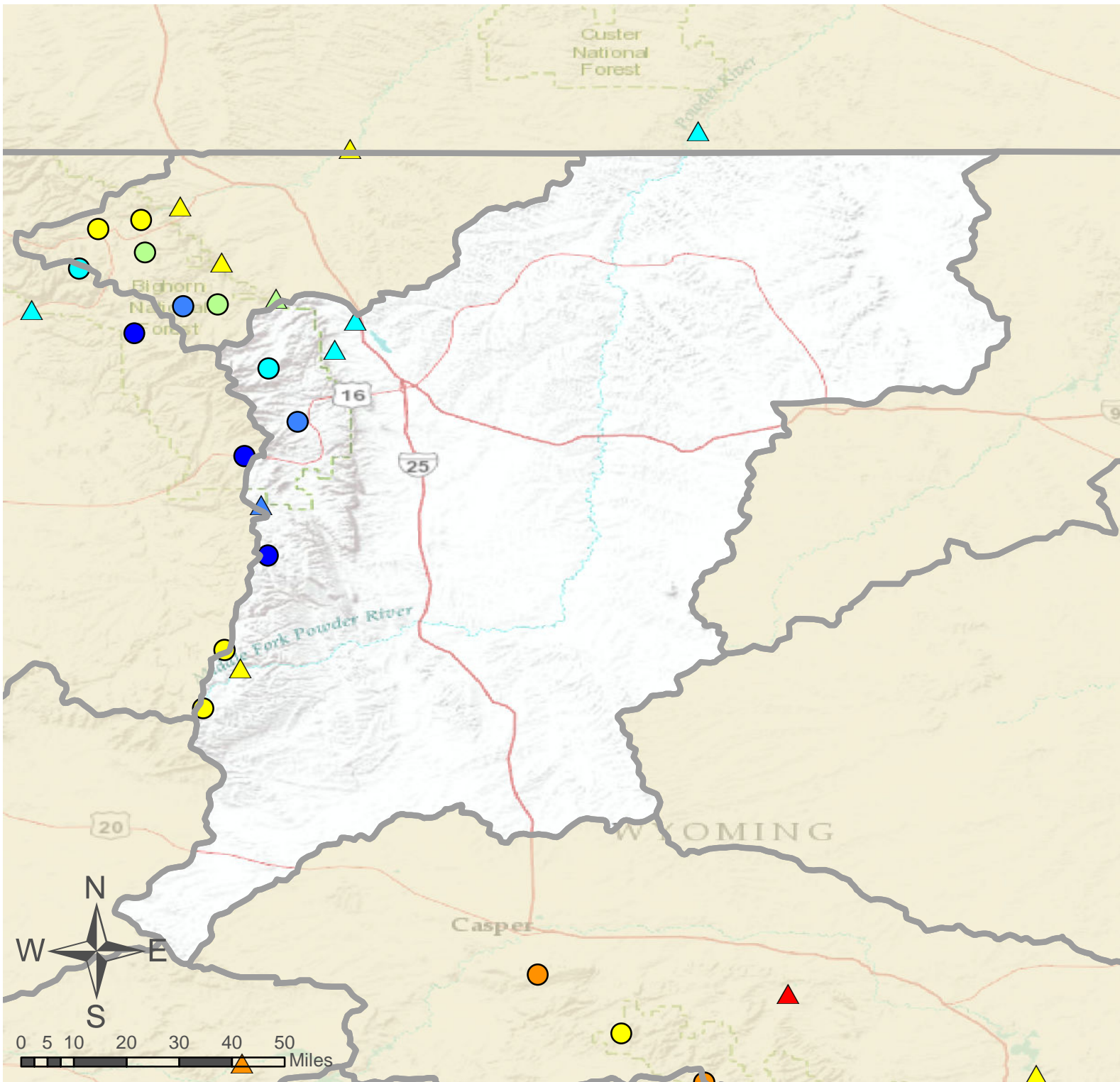
Powder River Basin Streamflow Forecasts - March 1, 2018

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

POWDER RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
MF Powder R nr Barnum	APR-JUL	6	10.2	13	81%	15.8	20	16.1
	APR-SEP	6.6	10.9	13.8	81%	16.7	21	17
NF Powder R nr Hazelton	APR-JUL	9.5	11.8	13.3	146%	14.9	17.2	9.1
	APR-SEP	10.2	12.6	14.2	143%	15.8	18.2	9.9
Rock Ck nr Buffalo	APR-JUL	14.4	20	24	129%	29	35	18.6
	APR-SEP	18.2	25	29	132%	33	40	22
Piney Ck at Kearny	APR-JUL	21	39	52	118%	64	82	44
	APR-SEP	25	43	56	119%	68	87	47
Powder R at Moorehead	APR-JUL	75	161	220	124%	280	365	177
	APR-SEP	96	185	245	125%	305	395	196

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

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
UPPER POWDER RIVER	5	131%	79%
CLEAR CREEK	4	131%	132%
CRAZY WOMAN CREEK	3	166%	97%
POWDER RIVER	9	131%	100%



Powder River Basin

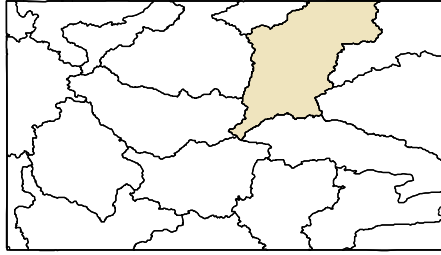
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

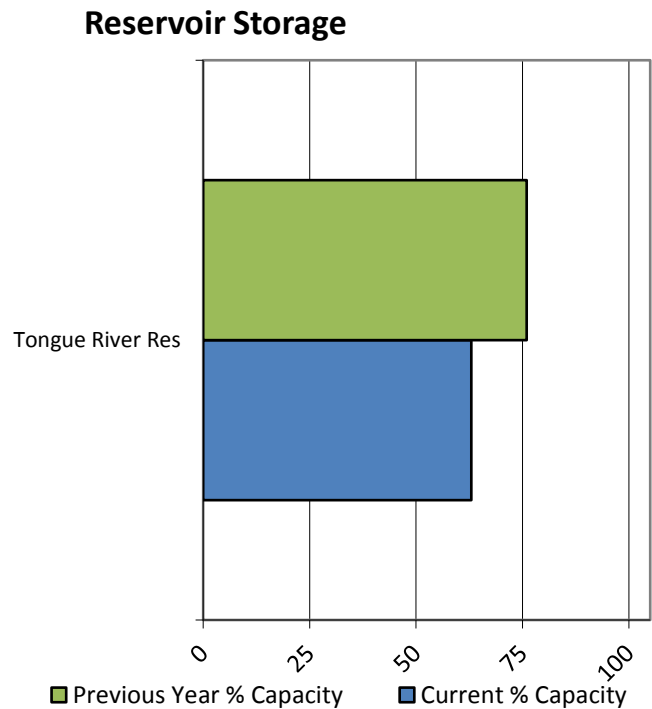
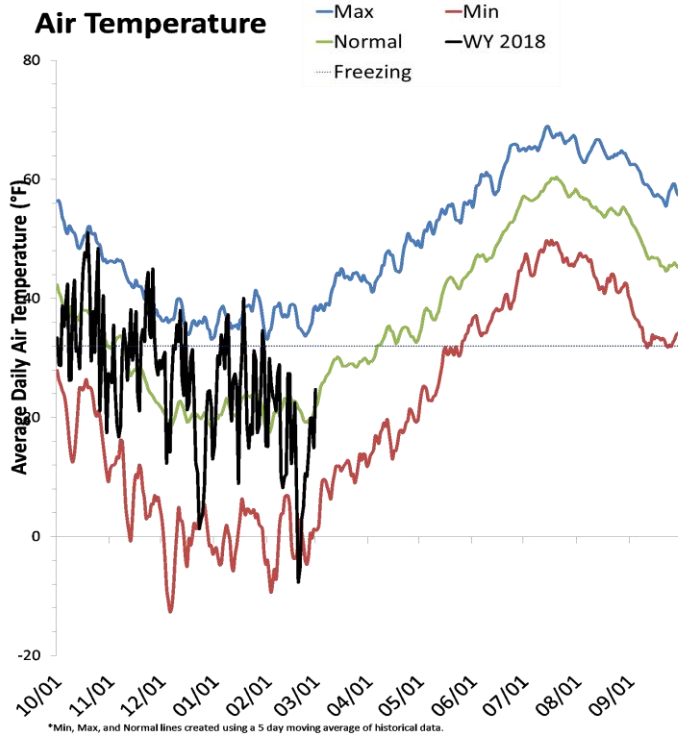
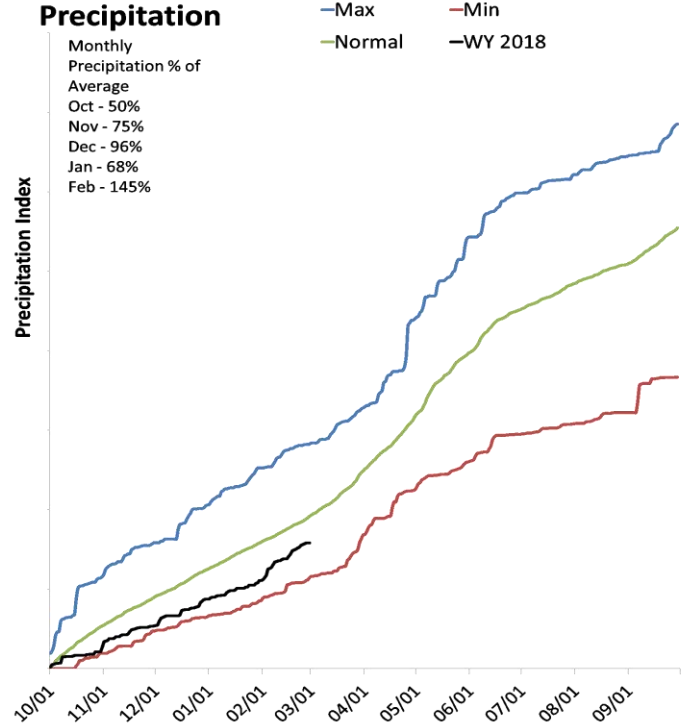
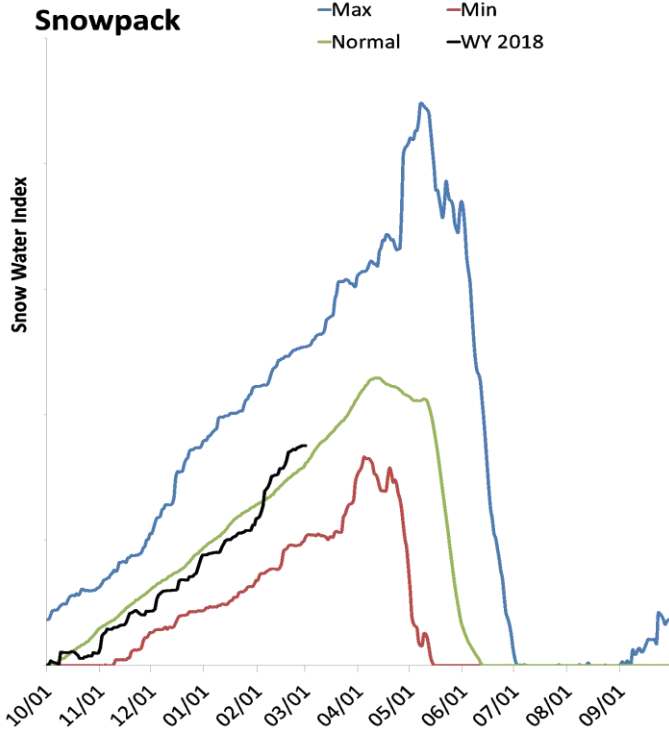
- 128% of Normal SWE
- 104% of Normal Precipitation
- 168% of Normal Precipitation Last Month



Tongue River Basin

March 1, 2018

Snowpack in the Tongue River Basin is near normal at 109% of normal, compared to 104% last year. Precipitation in February was much above average at 144%, which brings the seasonal accumulation (Oct-Feb) to 82% of average. Reservoir storage is at 63% of capacity, compared to 76% last year. Forecast streamflow volumes range from 83% to 94% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Tongue River Basin Streamflow Forecasts - March 1, 2018

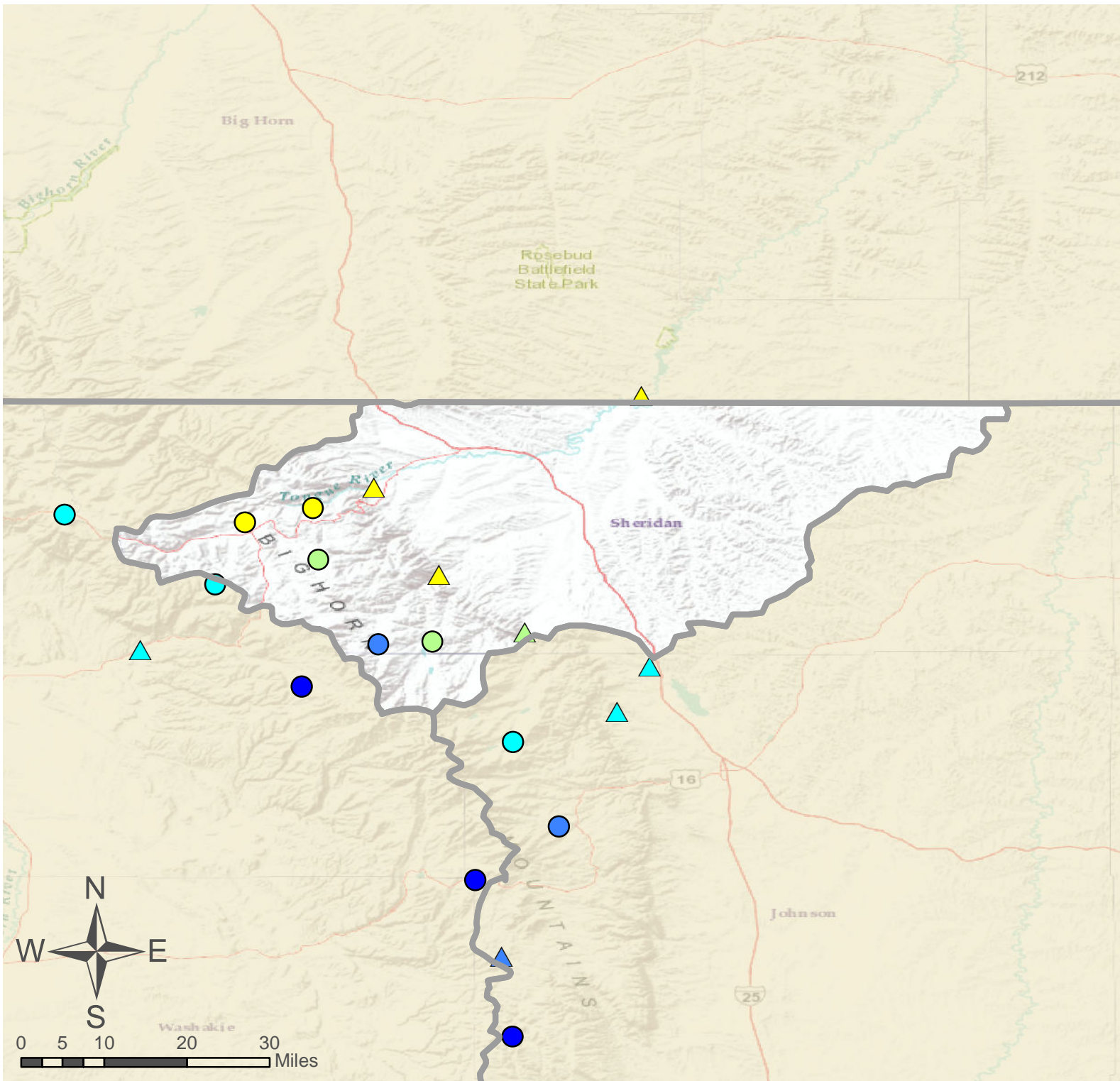
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

TONGUE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Tongue R nr Dayton	APR-JUL	43	61	73	85%	86	104	86
	APR-SEP	51	71	85	87%	98	118	98
Big Goose Ck nr Sheridan	APR-JUL	20	33	41	89%	50	62	46
	APR-SEP	28	40	49	91%	58	71	54
Little Goose Ck nr Big Horn	APR-JUL	15.9	24	29	94%	34	42	31
	APR-SEP	23	31	37	95%	43	52	39
Tongue River Reservoir Inflow	APR-JUL	52	117	161	83%	205	270	193
	APR-SEP	68	137	184	86%	230	300	215

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

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Tongue River Res	49.5	60.3	28.2	79.1
Basin-wide Total	49.5	60.3	28.2	79.1
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
GOOSE CREEK	3	119%	102%
TONGUE RIVER	9	108%	99%



Tongue River Basin

- SNOTEL Site
- △ Forecast Point

% of Normal

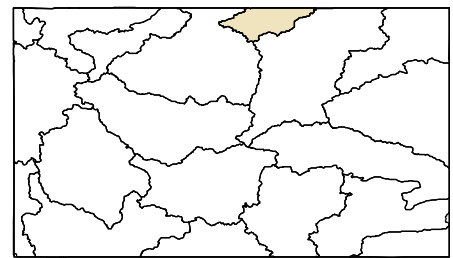
- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

109% of Normal SWE

82% of Normal Precipitation

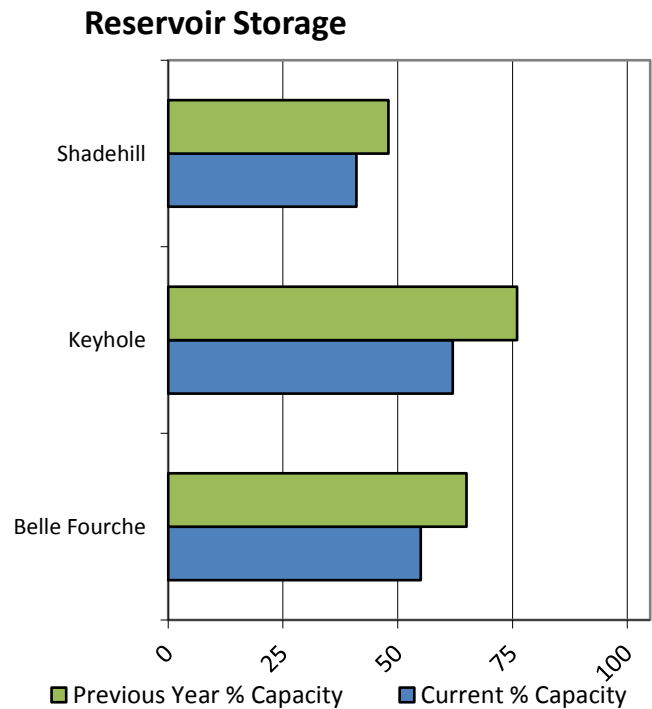
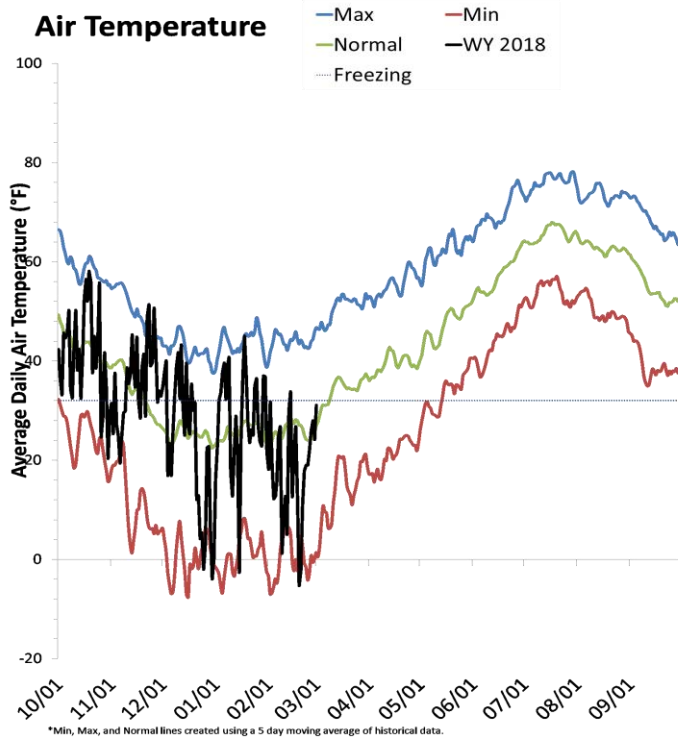
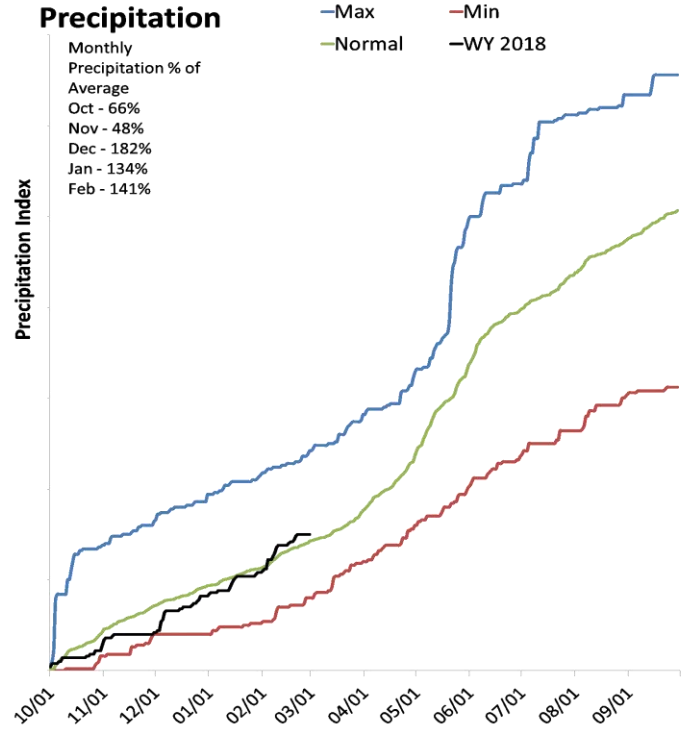
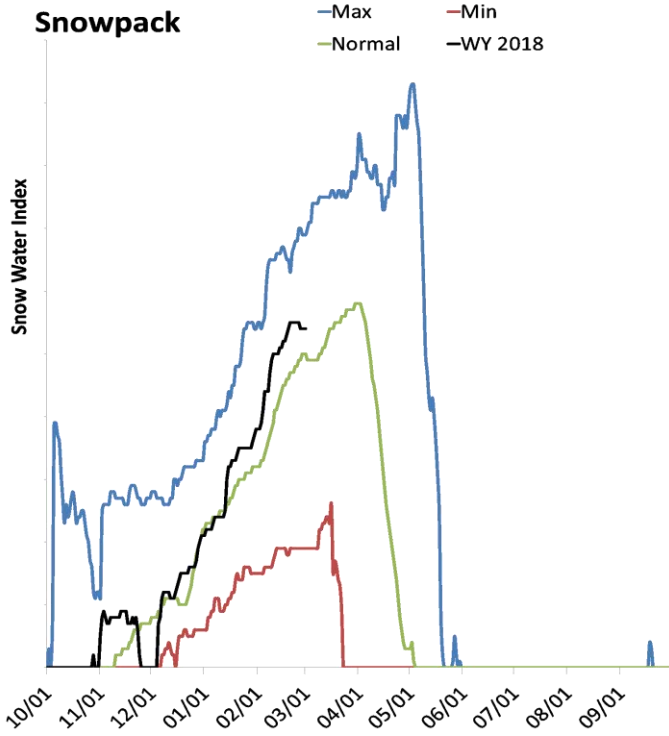
144% of Normal Precipitation Last Month



Belle Fourche River Basin

March 1, 2018

Snowpack in the Belle Fourche River Basin is near normal at 108% of normal, compared to 60% last year. Precipitation in February was much above average at 140%, which brings the seasonal accumulation (Oct-Feb) to 106% of average. Reservoir storage is at 55% of capacity, compared to 67% last year. Forecast streamflow volumes range from 0% to 0% of average.



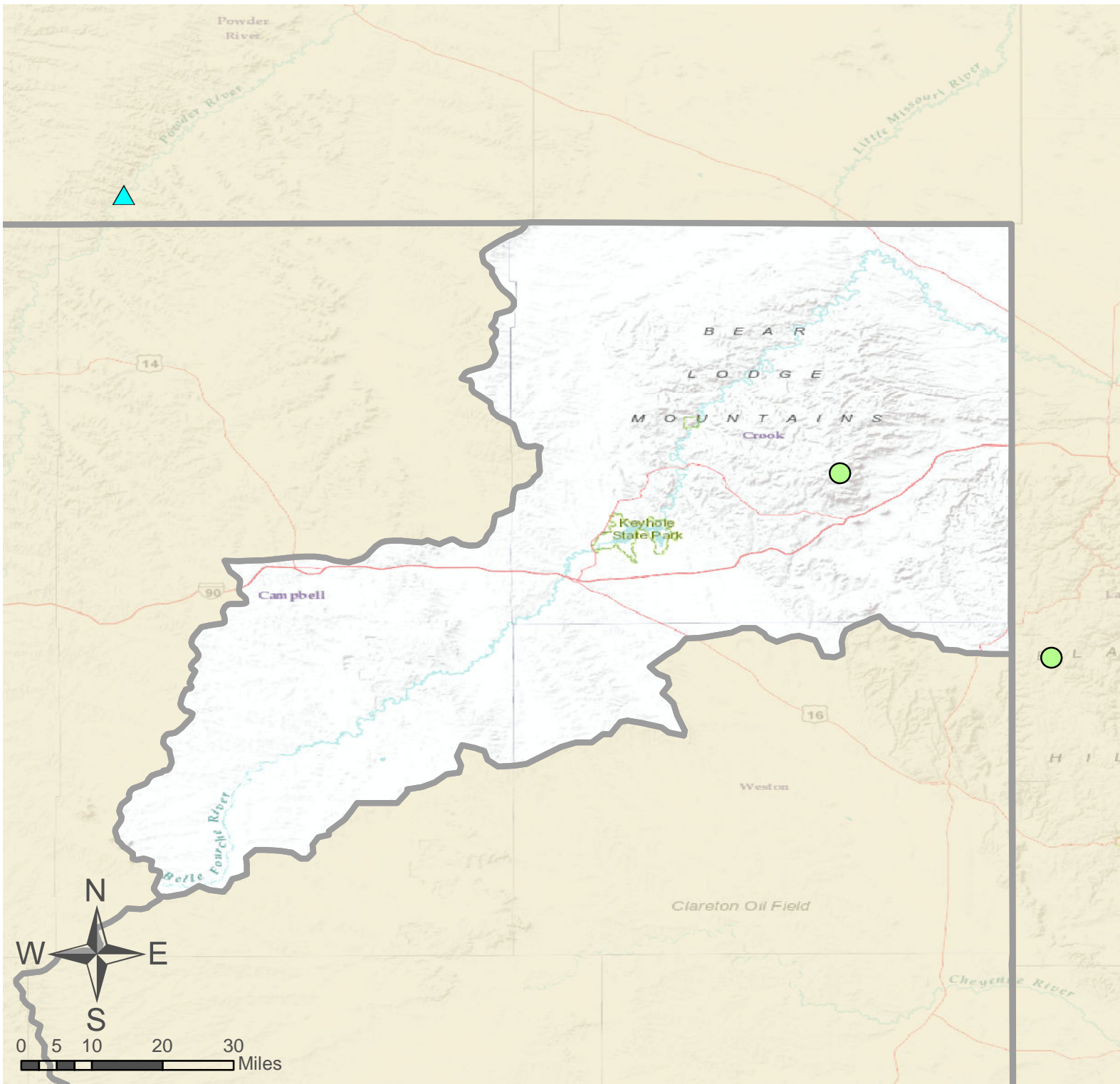
*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Data Current as of: 3/6/2018 8:24:12 AM

Belle Fourche River Basin - March 1, 2018

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Belle Fourche	98.6	116.4	119.4	178.4
Keyhole	119.3	146.5	90.6	193.8
Shadehill	33.4	38.8	45.1	81.4
Basin-wide Total	251.4	301.8	255.1	453.6
# of reservoirs	3	3	3	3

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
BELLE FOURCHE RIVER	6	122%	64%



Belle Fourche River Basin

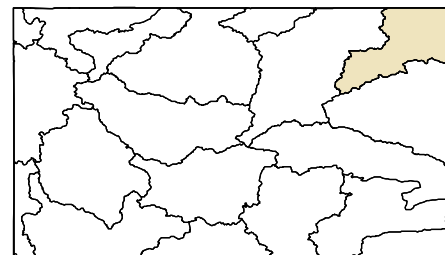
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

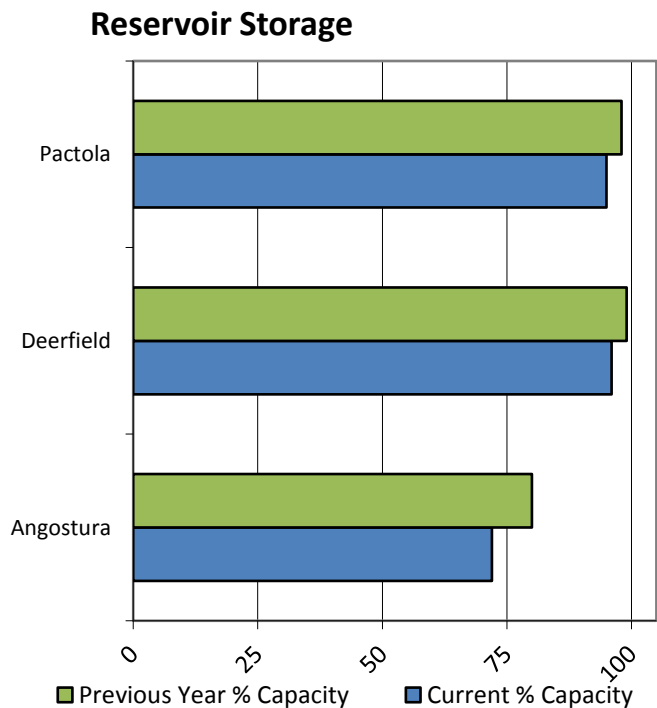
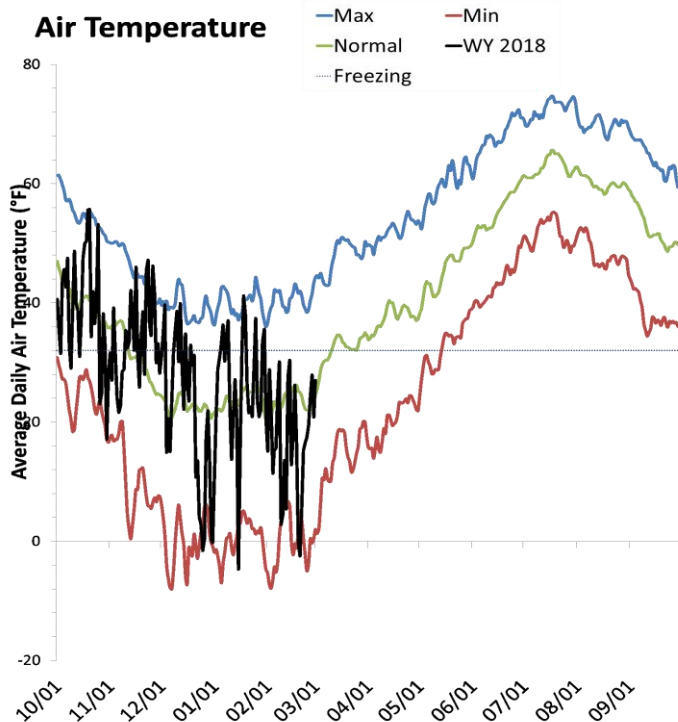
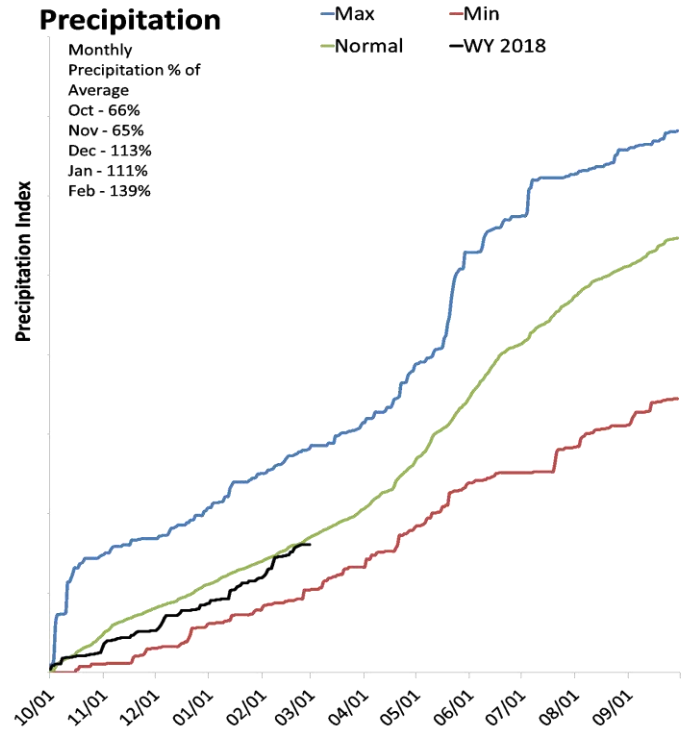
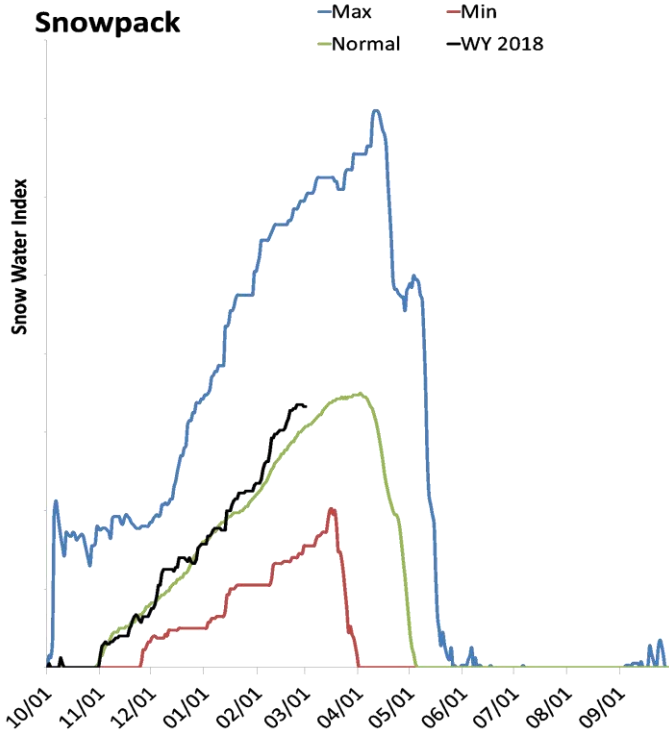
- 108% of Normal SWE
- 106% of Normal Precipitation
- 140% of Normal Precipitation Last Month



Cheyenne River Basin

March 1, 2018

Snowpack in the Cheyenne River Basin is near normal at 108% of normal, compared to 71% last year. Precipitation in February was much above average at 135%, which brings the seasonal accumulation (Oct-Feb) to 95% of average. Reservoir storage is at 81% of capacity, compared to 87% last year. Forecast streamflow volumes range from 112% to 116% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Cheyenne River Basin Streamflow Forecasts - March 1, 2018

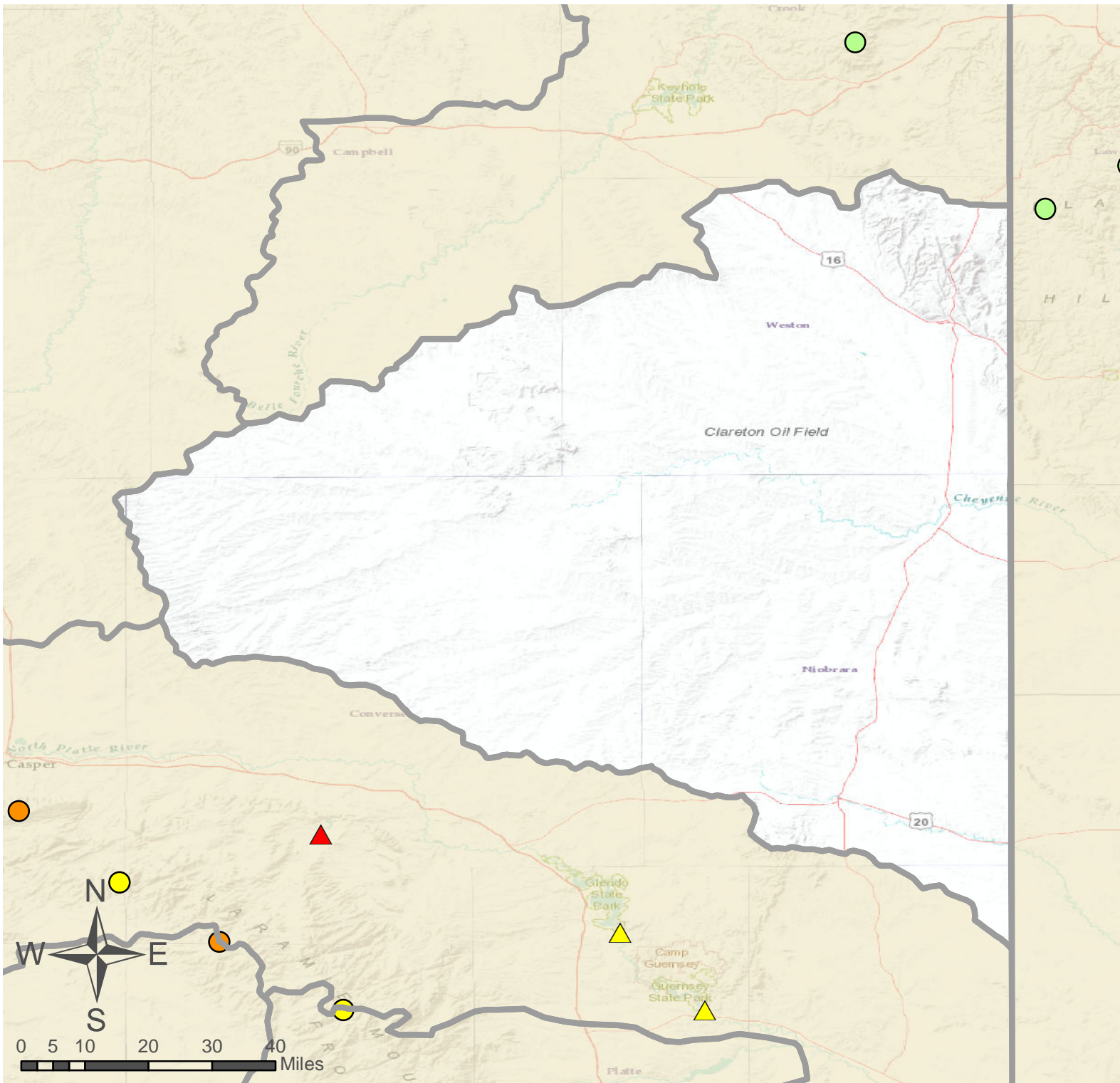
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

CHEYENNE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Deerfield Reservoir Inflow	MAR-JUL	3.6	5.8	7.2	116%	8.7	10.9	6.2
	APR-JUL	2.7	4.7	6	115%	7.3	9.3	5.2
Pactola Reservoir Inflow	MAR-JUL	11.7	21	28	112%	34	44	25
	APR-JUL	9.1	18.2	24	109%	31	40	22

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

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Angostura	88.4	97.5	87.6	122.1
Deerfield	14.6	15.0	13.9	15.2
Pactola	52.1	53.9	45.6	55.0
Basin-wide Total	155.1	166.4	147.1	192.3
# of reservoirs	3	3	3	3

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
CHEYENNE RIVER	7	123%	82%



Cheyenne River Basin

- SNOTEL Site
- △ Forecast Point

% of Normal

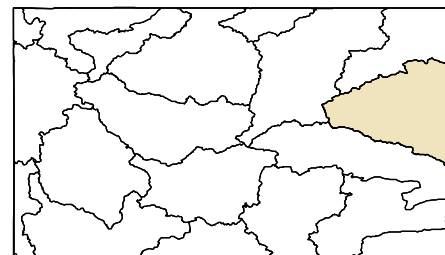
- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

108% of Normal SWE

95% of Normal Precipitation

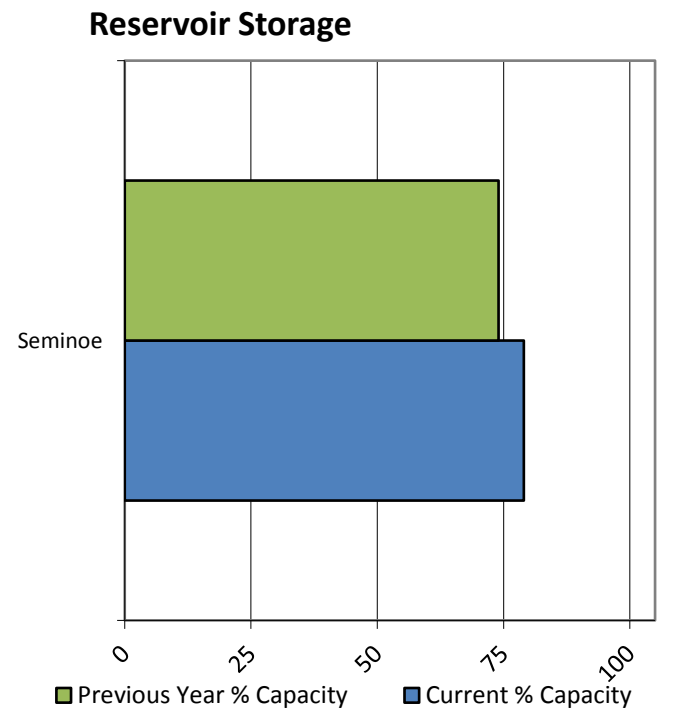
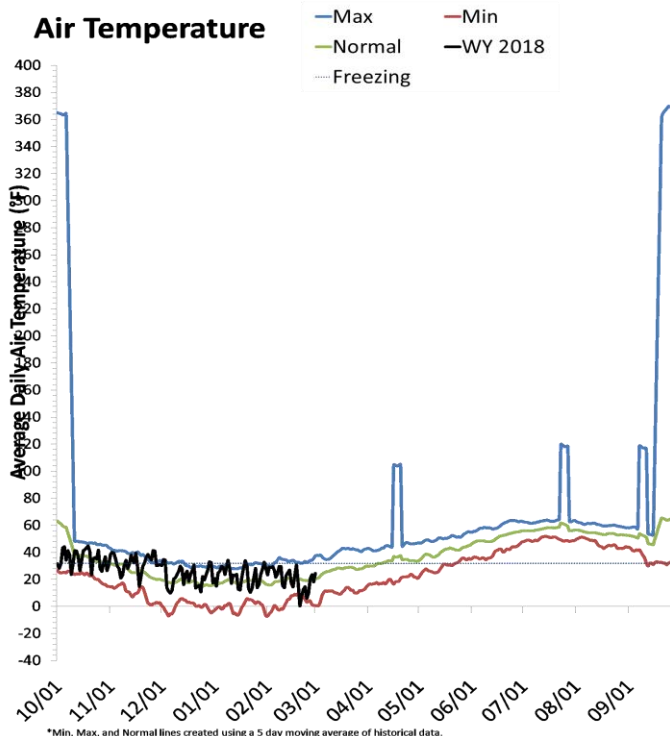
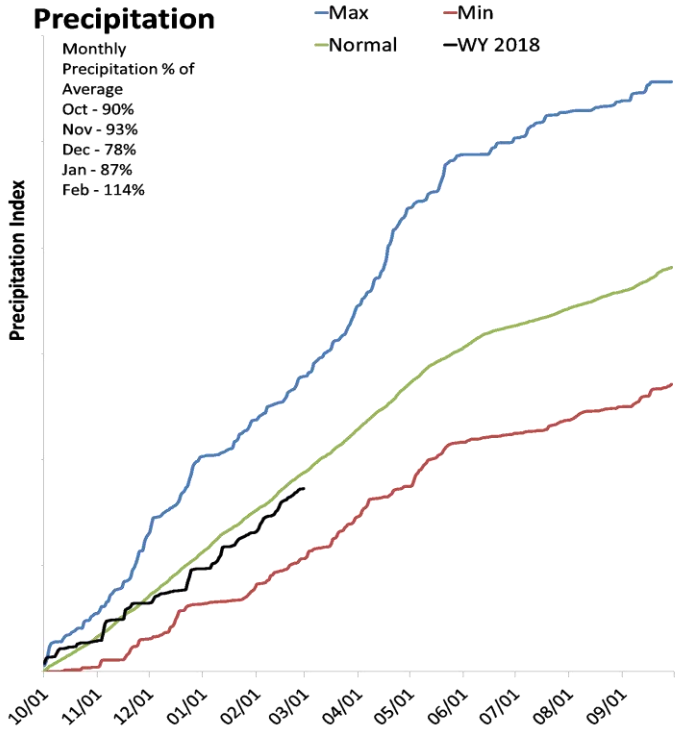
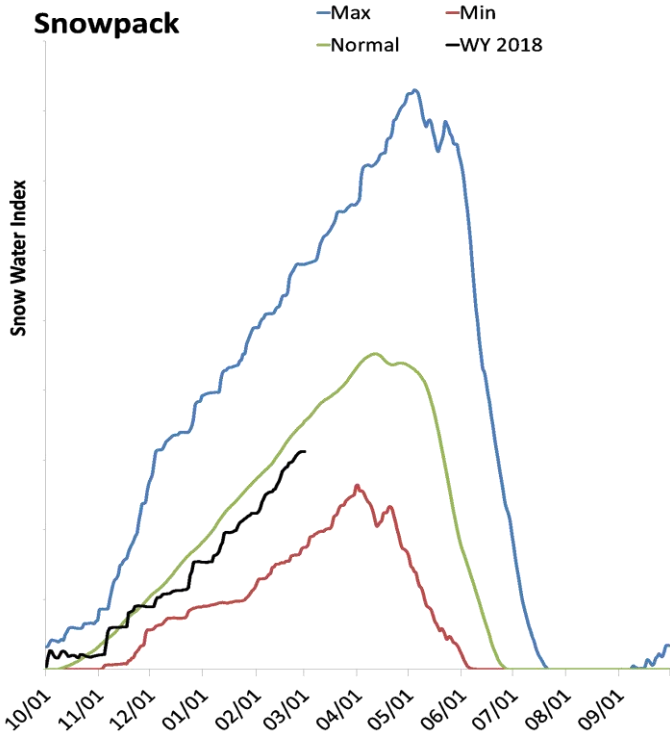
135% of Normal Precipitation Last Month



Upper North Platte River Basin

March 1, 2018

Snowpack in the Upper North Platte River Basin is below normal at 88% of normal, compared to 124% last year. Precipitation in February was above average at 113%, which brings the seasonal accumulation (Oct-Feb) to 92% of average. Soil moisture at sites with sensors is at 49% of saturation. Reservoir storage is at 79% of capacity, compared to 74% last year. The forecast streamflow volume for Manti Creek is 88% of average.



Upper North Platte River Basin Streamflow Forecasts - March 1, 2018

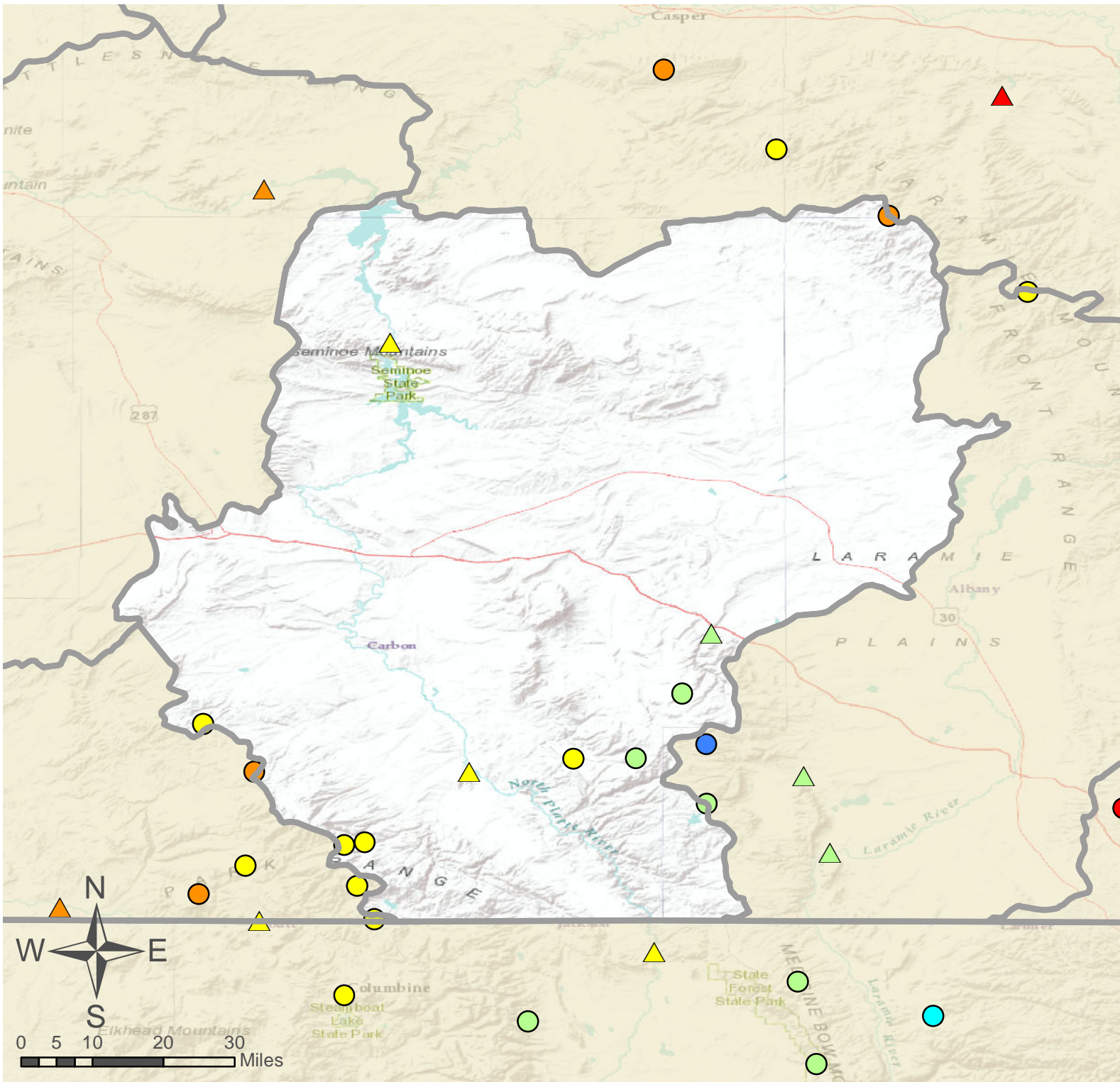
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

UPPER NORTH PLATTE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
<hr/>								
North Platte R nr Northgate	APR-JUL	72	147	199	88%	250	325	225
	APR-SEP	79	163	220	88%	275	360	250
Encampment R nr Encampment ²	APR-JUL	35	69	92	71%	115	149	129
	APR-SEP	37	73	97	70%	121	157	138
Rock Ck ab King Canyon Cnl nr Arlington	APR-JUL	33	44	51	104%	58	68	49
	APR-SEP	35	46	54	104%	61	72	52
Sweetwater R nr Alcova	APR-JUL	1.7	21	34	58%	48	67	59
	APR-SEP	2.3	23	38	59%	52	73	64
Seminoe Reservoir Inflow	APR-JUL	245	465	610	85%	760	975	715
	APR-SEP	275	505	660	86%	815	1040	770

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

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Seminoe	805.5	754.7	493.1	1016.7
Basin-wide Total	805.5	754.7	493.1	1016.7
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
N PLATTE above Northgate	11	88%	127%
ENCAMPMENT RIVER	4	86%	137%
BRUSH CREEK	5	98%	106%
MEDICINE BOW & ROCK CREEKS	3	105%	119%
UPPER NORTH PLATTE RIVER	24	91%	123%



Upper North Platte River Basin

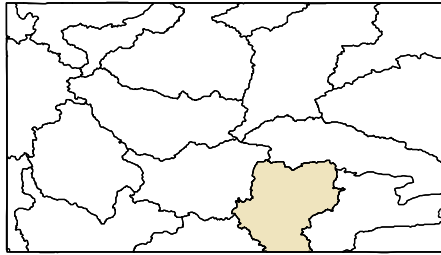
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

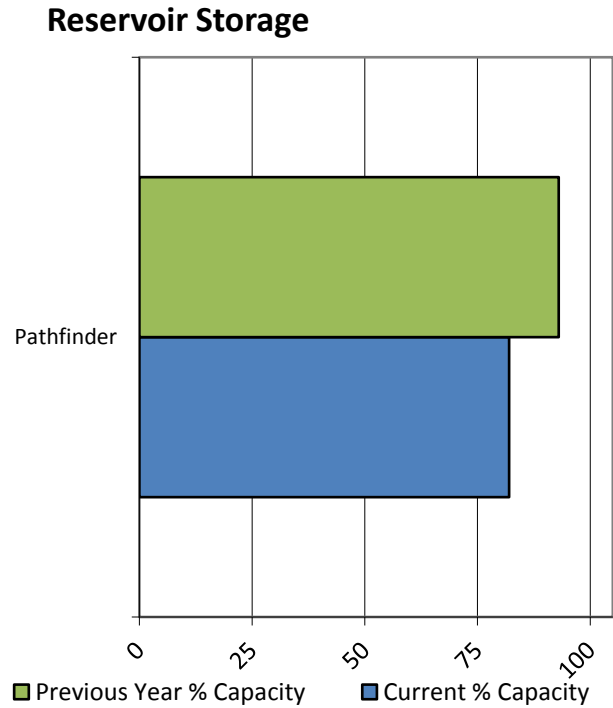
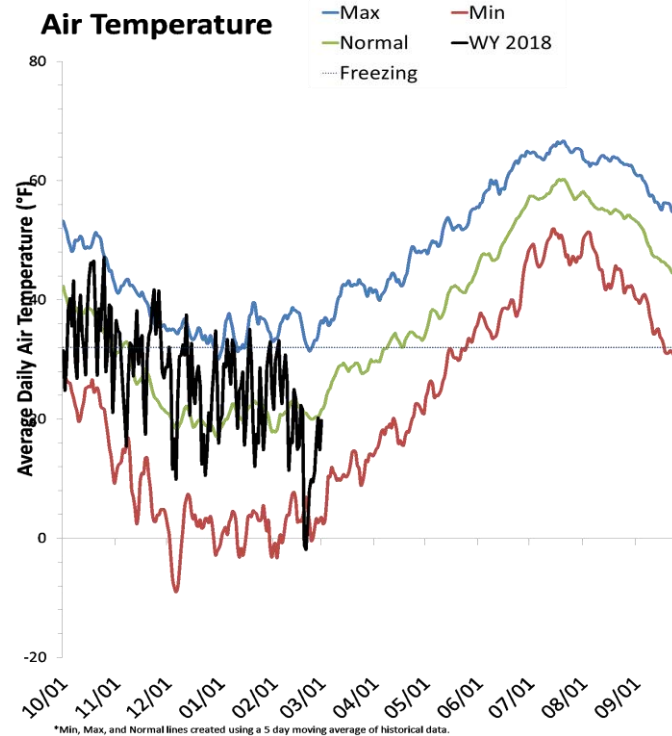
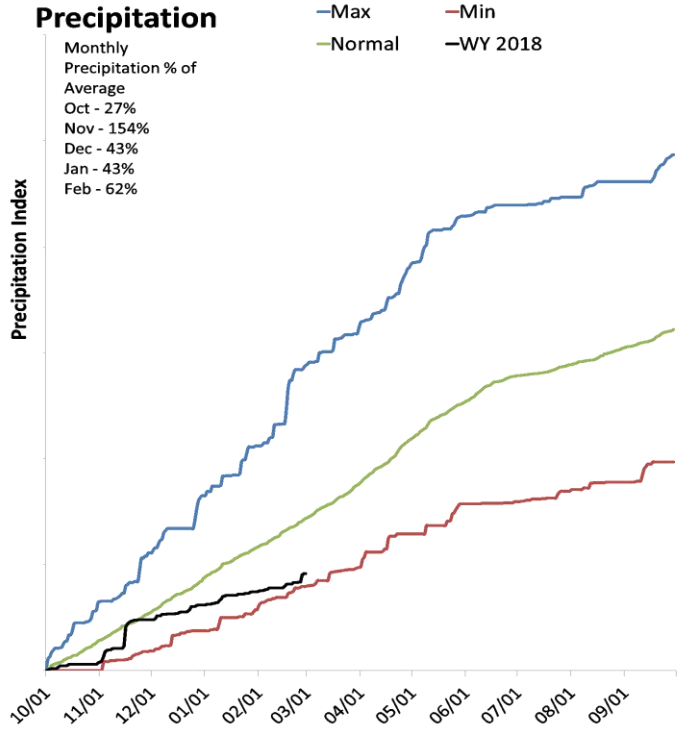
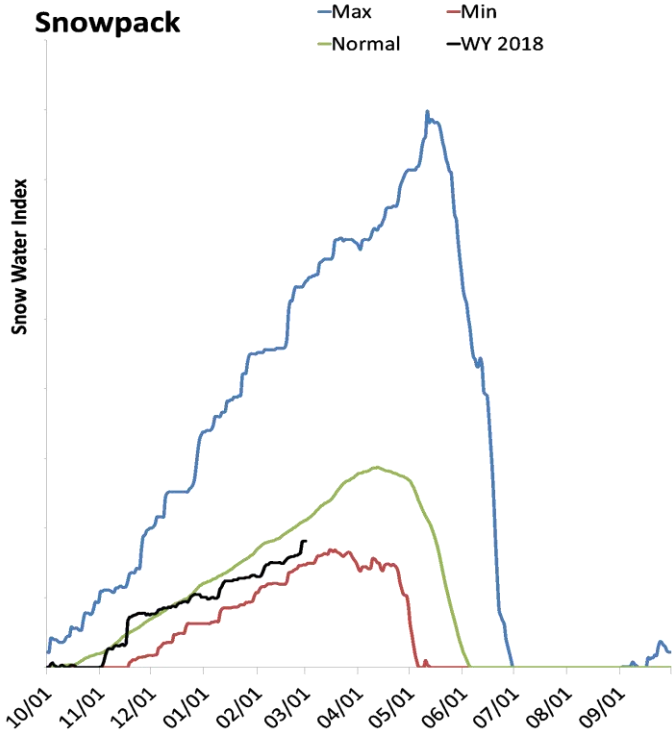
88% of Normal SWE
 92% of Normal Precipitation
 113% of Normal Precipitation Last Month



Sweetwater River Basin

March 1, 2018

Snowpack in the Sweetwater River Basin is below normal at 86% of normal, compared to 225% last year. Precipitation in February was much below average at 63%, which brings the seasonal accumulation (Oct-Feb) to 64% of average. Soil moisture at sites with sensors is at 19% of saturation. Reservoir storage is at 82% of capacity, compared to 93% last year. Forecast streamflow volumes range from 58% to 58% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Sweetwater River Basin Streamflow Forecasts - March 1, 2018

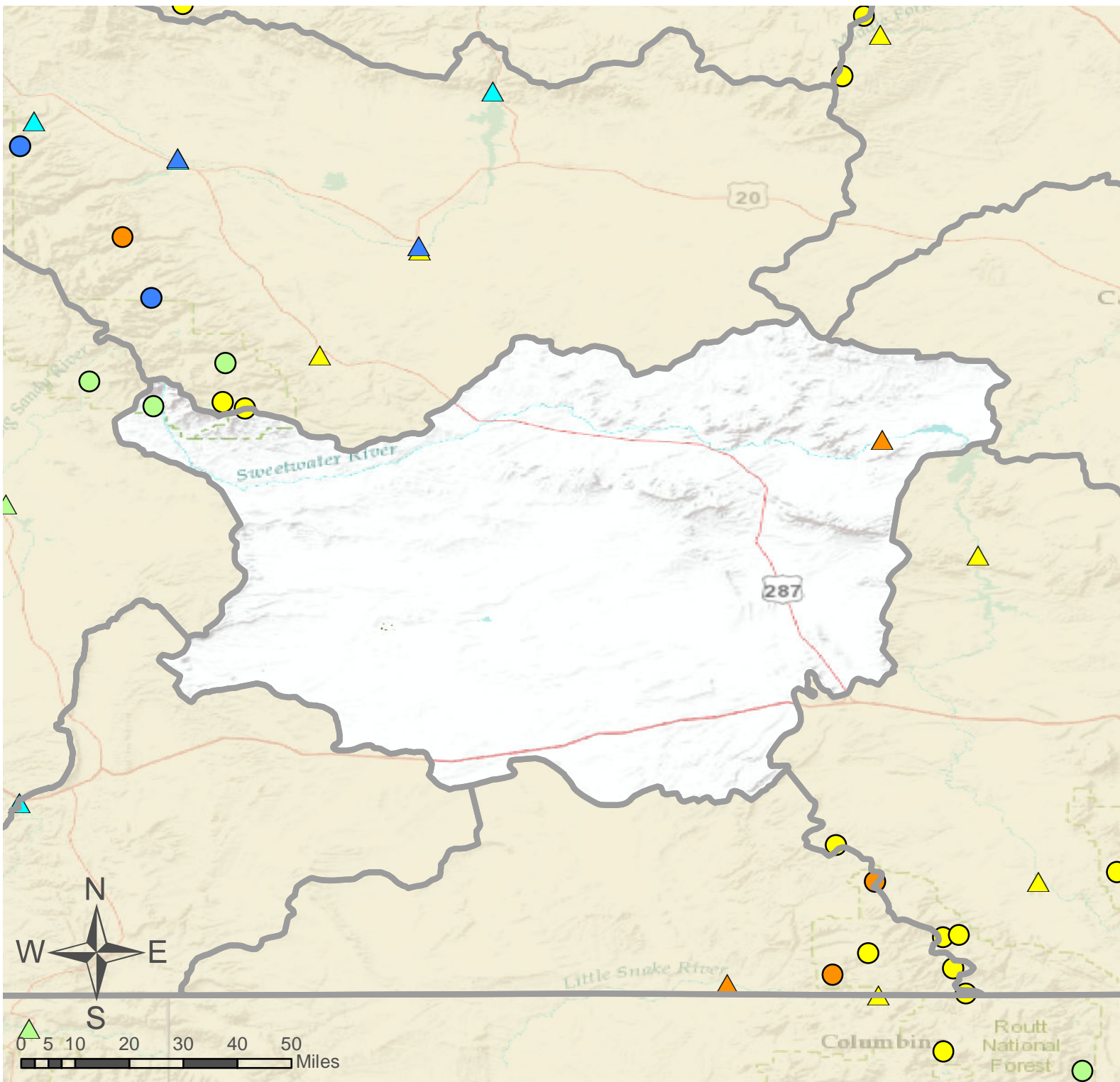
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

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	1.7	21	34	58%	48	67	59
	APR-SEP	2.3	23	38	59%	52	73	64

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

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Pathfinder	838.5	940.3	582.4	1016.5
Basin-wide Total	838.5	940.3	582.4	1016.5
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
SWEETWATER RIVER	5	80%	229%



Sweetwater River Basin

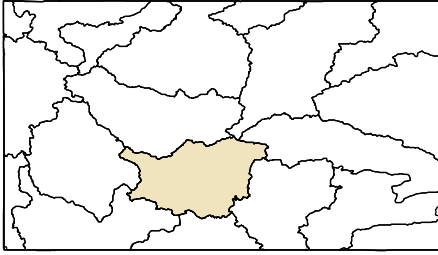
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

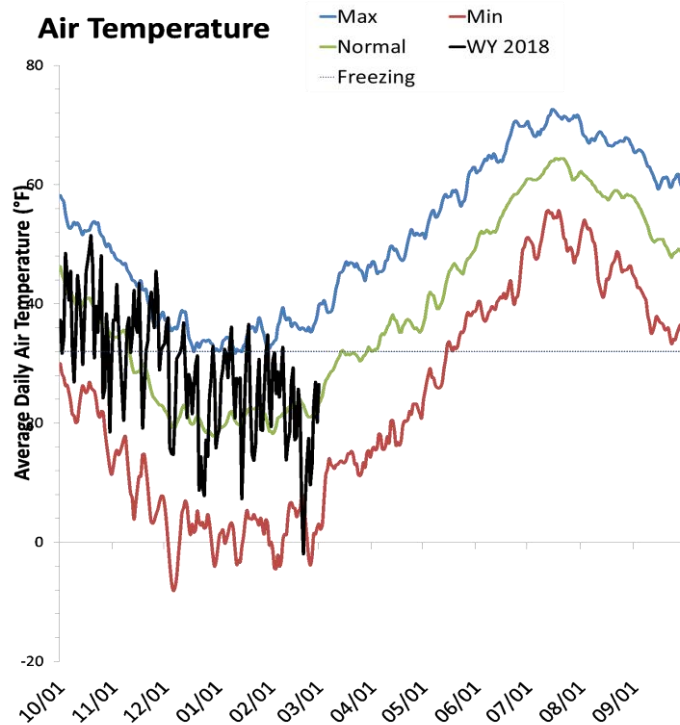
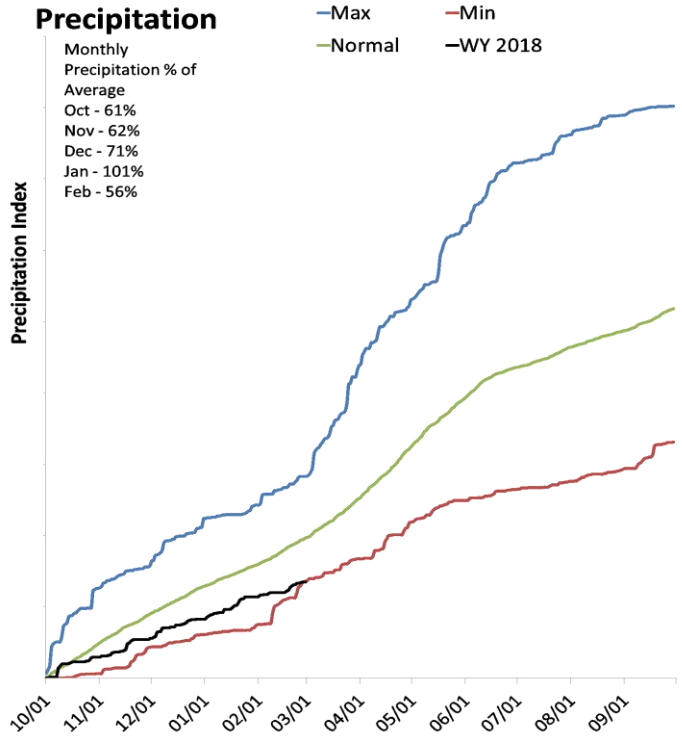
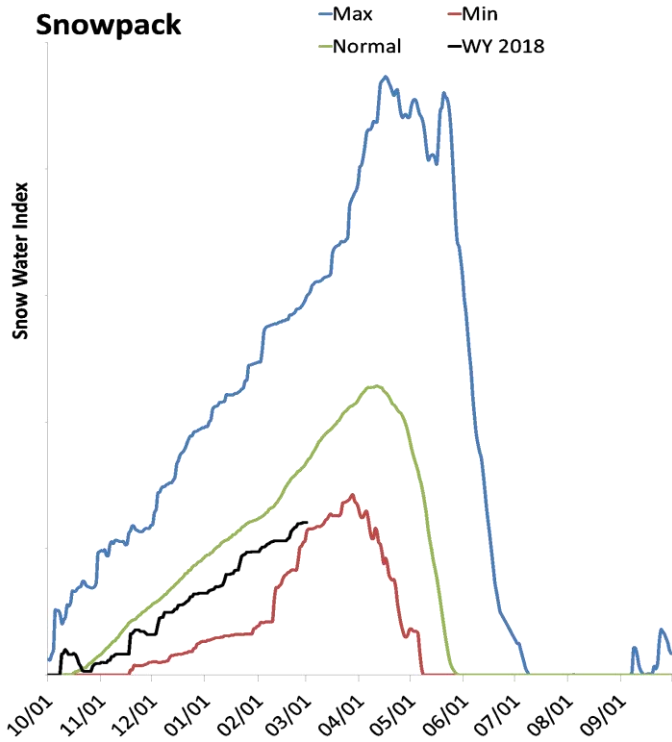
86% of Normal SWE
 64% of Normal Precipitation
 63% of Normal Precipitation Last Month



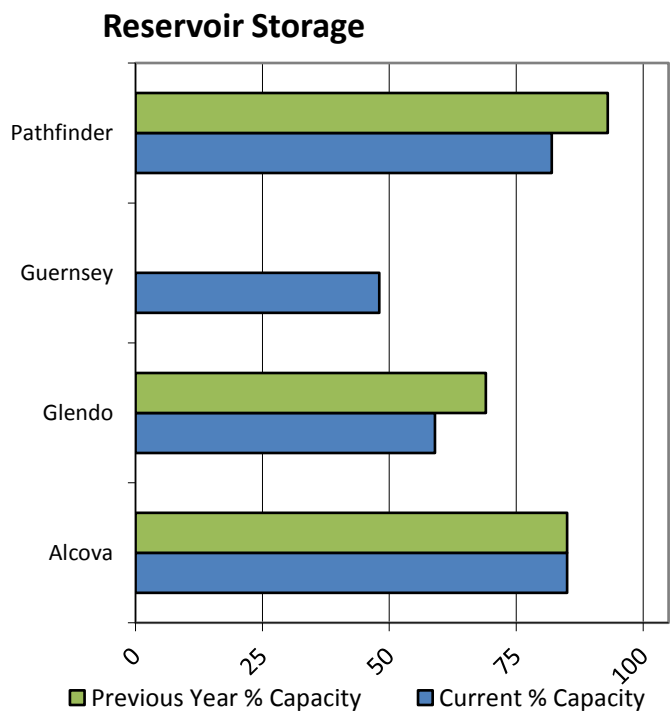
Lower North Platte River Basin

March 1, 2018

Snowpack in the Lower North Platte River Basin is below normal at 72% of normal, compared to 113% last year. Precipitation in February was much below average at 56%, which brings the seasonal accumulation (Oct-Feb) to 68% of average. Soil moisture at sites with sensors is at 13% of saturation. Reservoir storage is at 75% of capacity, compared to 83% last year. The forecast streamflow volume for the Beaver River is 77% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.



Lower North Platte River Basin Streamflow Forecasts - March 1, 2018

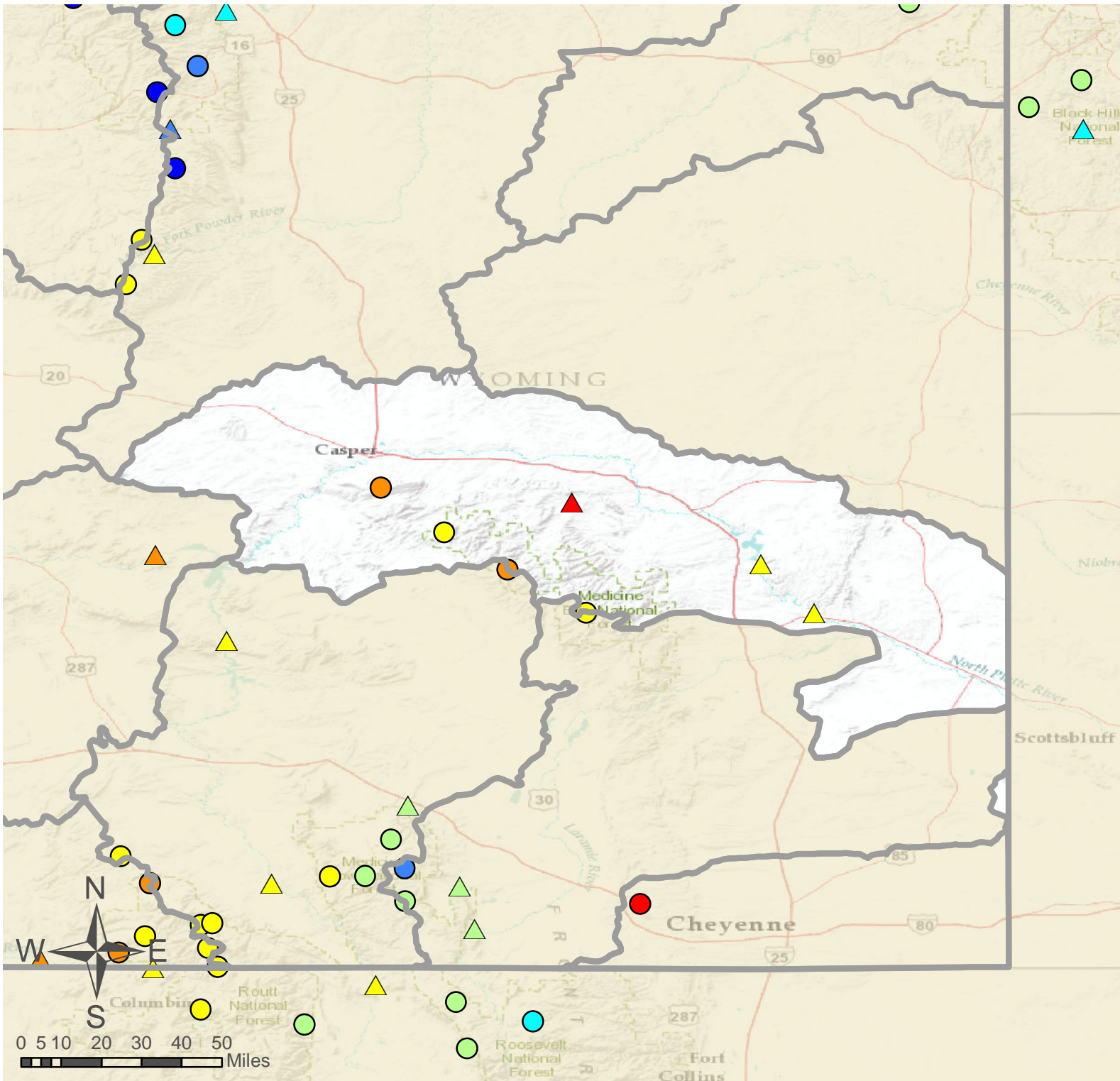
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

LOWER NORTH PLATTE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
La Prele Ck nr Douglas	APR-JUL	0.1	0.75	7.9	40%	15	25	19.9
	APR-SEP	0.1	1	8.2	41%	15.4	26	19.9
North Platte R bl Glendo Reservoir	APR-JUL	128	430	635	77%	840	1140	820
	APR-SEP	138	450	660	78%	875	1190	850
North Platte R bl Guernsey Reservoir	APR-JUL	106	420	630	77%	840	1150	820
	APR-SEP	116	435	655	77%	870	1190	850

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

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Alcova	156.1	157.3	155.8	184.3
Glendo	297.3	350.4	342.9	506.4
Guernsey	21.7	0.0	15.2	45.6
Pathfinder	838.5	940.3	582.4	1016.5
Basin-wide Total	1313.7	1448.0	1096.3	1752.8
# of reservoirs	4	4	4	4

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
DEER & LaPRELE CREEKS	2	72%	113%
LOWER NORTH PLATTE RIVER	4	72%	113%



Lower North Platte River Basin

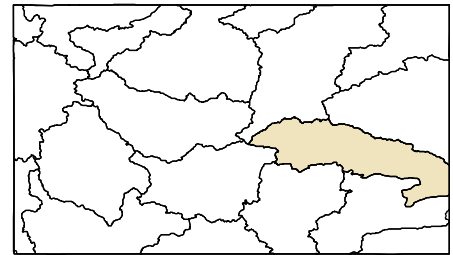
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

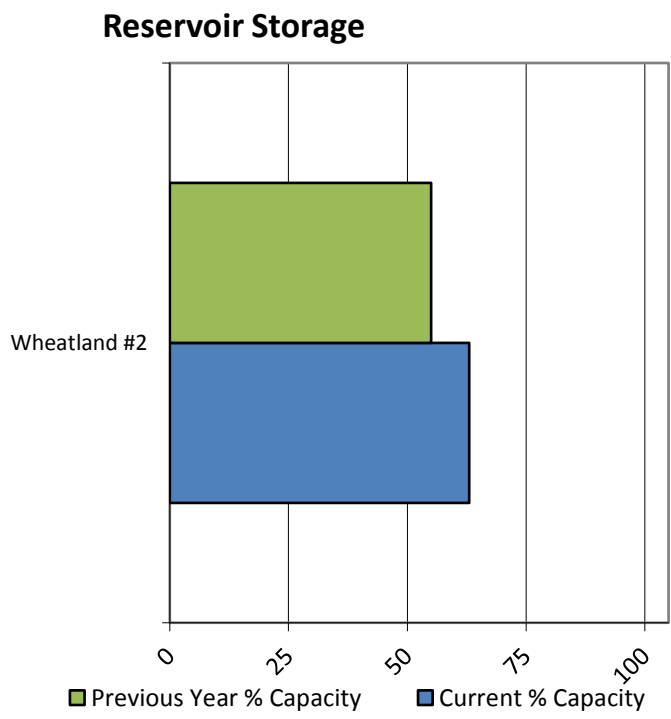
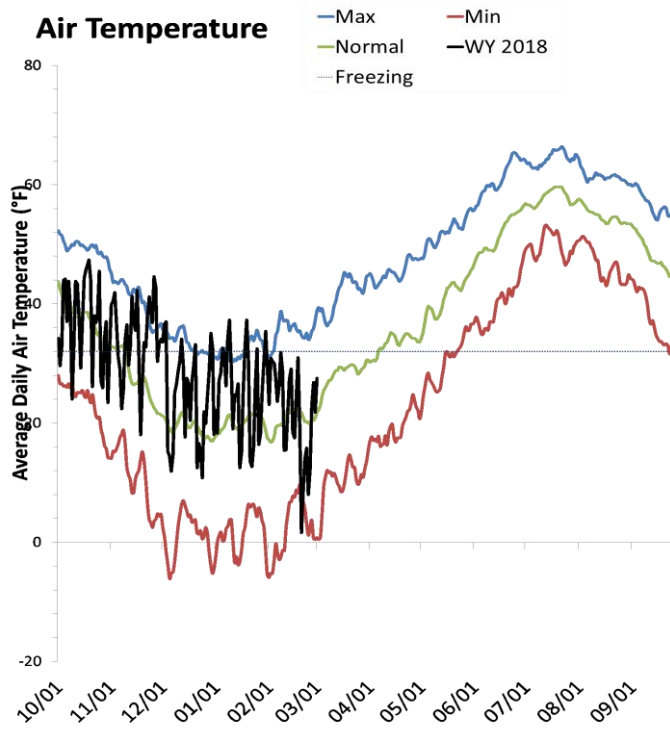
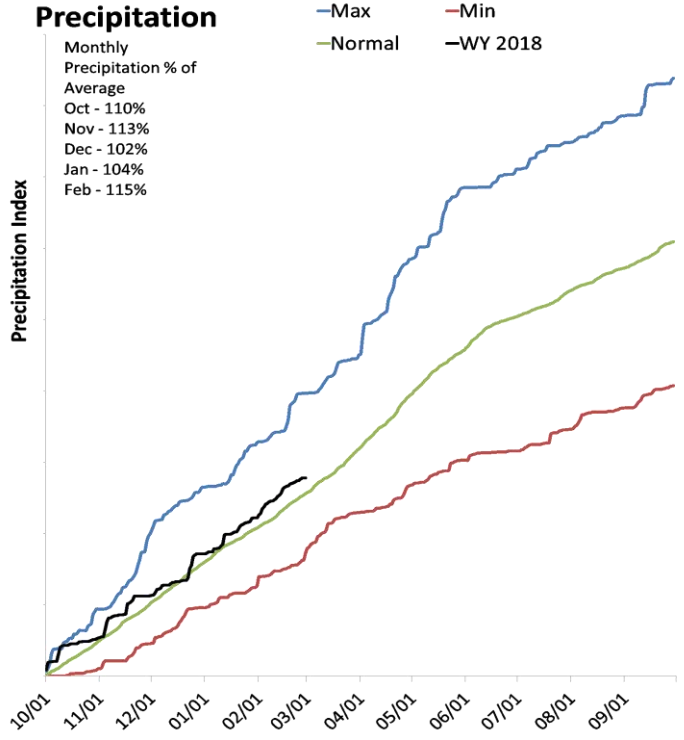
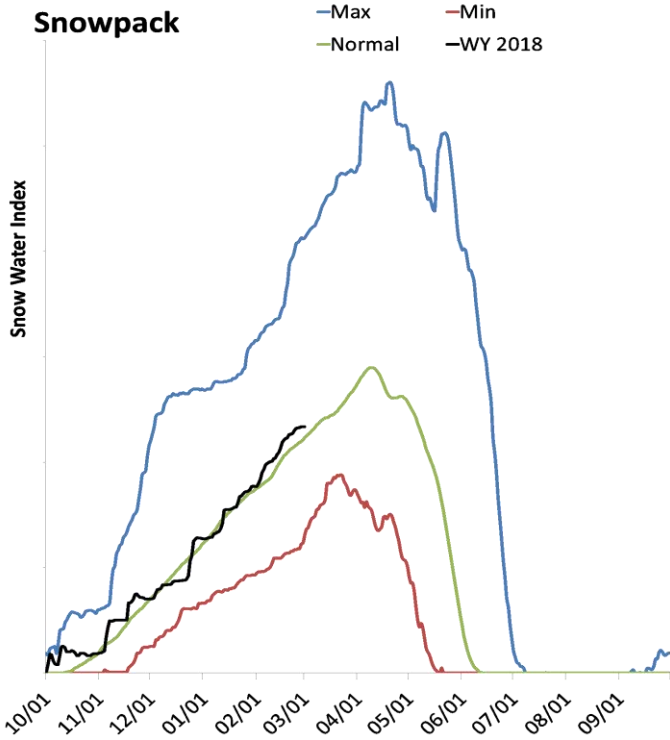
- 72% of Normal SWE
- 68% of Normal Precipitation
- 56% of Normal Precipitation Last Month



Laramie River Basin

March 1, 2018

Snowpack in the Laramie River Basin is near normal at 105% of normal, compared to 125% last year. Precipitation in February was above average at 115%, which brings the seasonal accumulation (Oct-Feb) to 109% of average. Soil moisture at sites with sensors is at 39% of saturation. Reservoir storage is at 63% of capacity, compared to 55% last year. The forecast streamflow volume for the Beaver River is 106% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Laramie River Basin Streamflow Forecasts - March 1, 2018

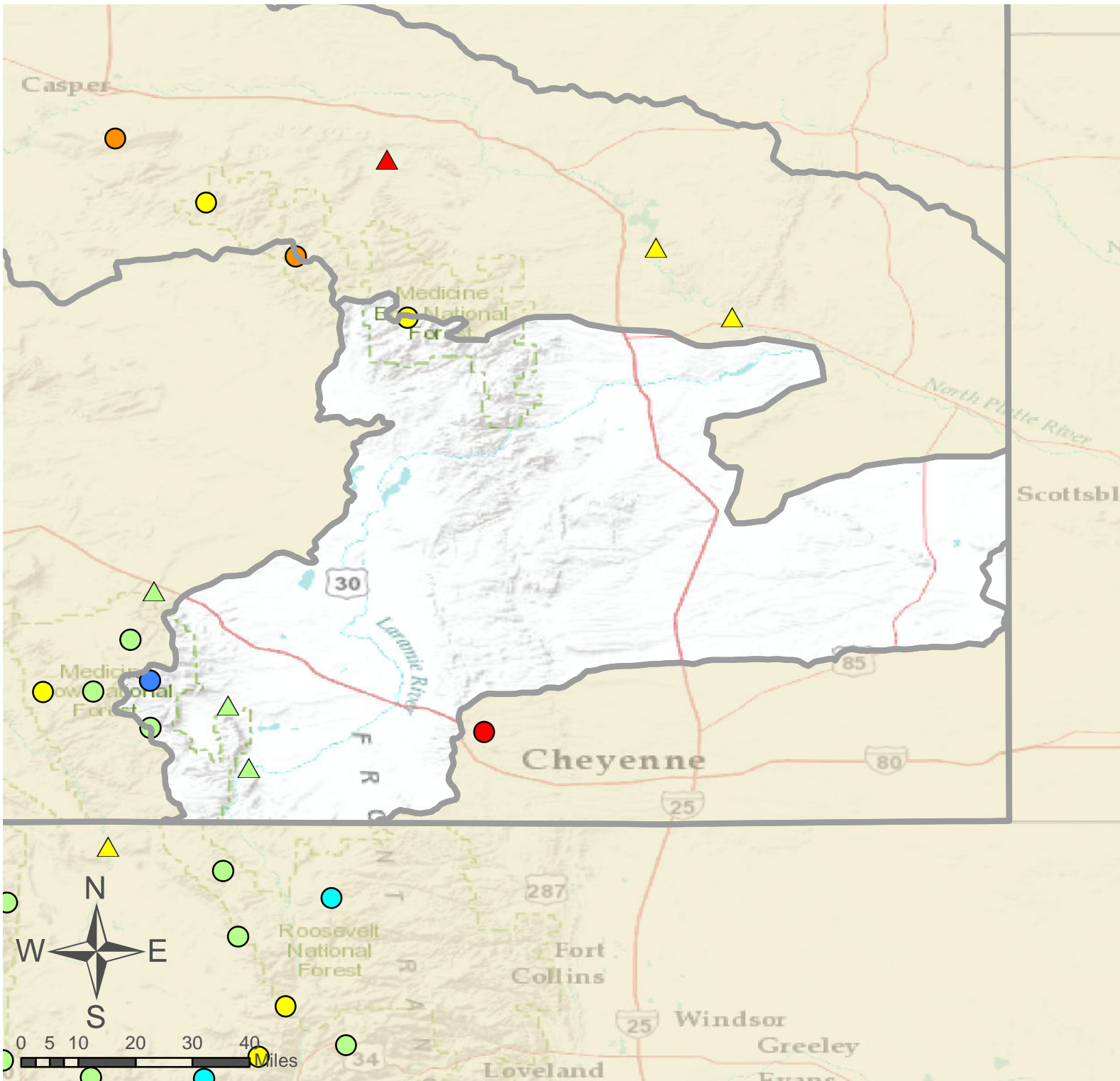
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

LARAMIE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Laramie R and Pioneer Cnl nr Woods Lg	APR-JUL	54	89	112	97%	135	170	115
	APR-SEP	60	98	123	98%	148	186	126
Little Laramie R nr Filmore	APR-JUL	32	45	54	106%	63	76	51
	APR-SEP	34	48	58	105%	68	82	55

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

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Wheatland #2	62.3	54.6	43.9	98.9
Basin-wide Total	62.3	54.6	43.9	98.9
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
LARAMIE RIVER abv Laramie	7	84%	124%
LITTLE LARAMIE RIVER	5	118%	130%
LARAMIE RIVER	13	101%	129%
NORTH PLATTE TOTAL RIVER	40	91%	132%



Laramie River Basin

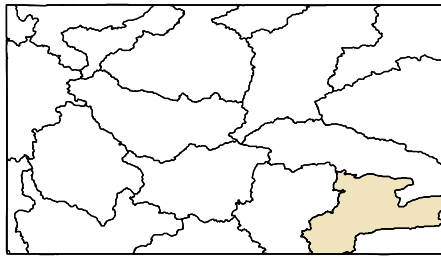
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

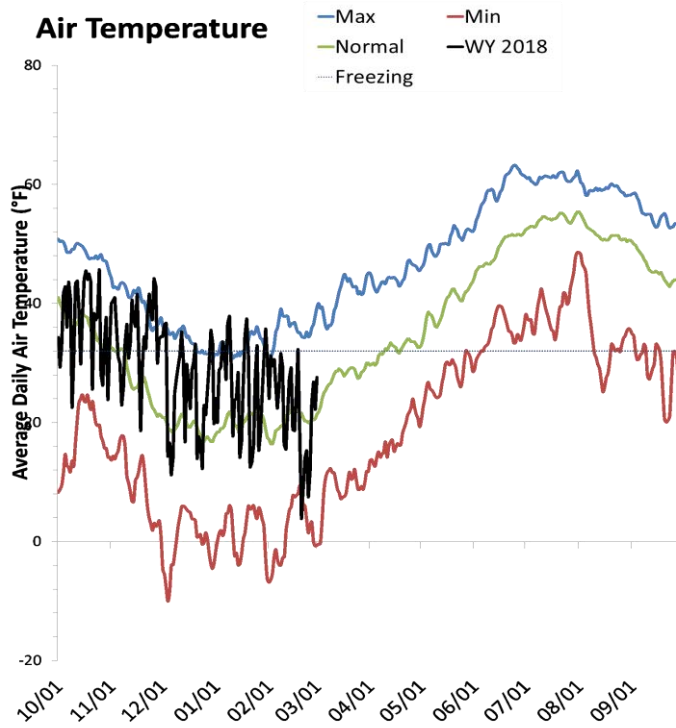
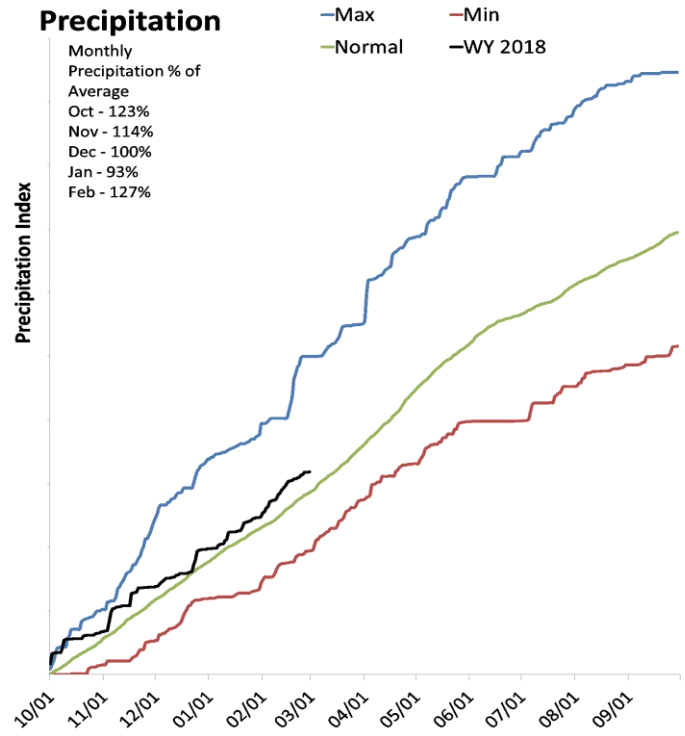
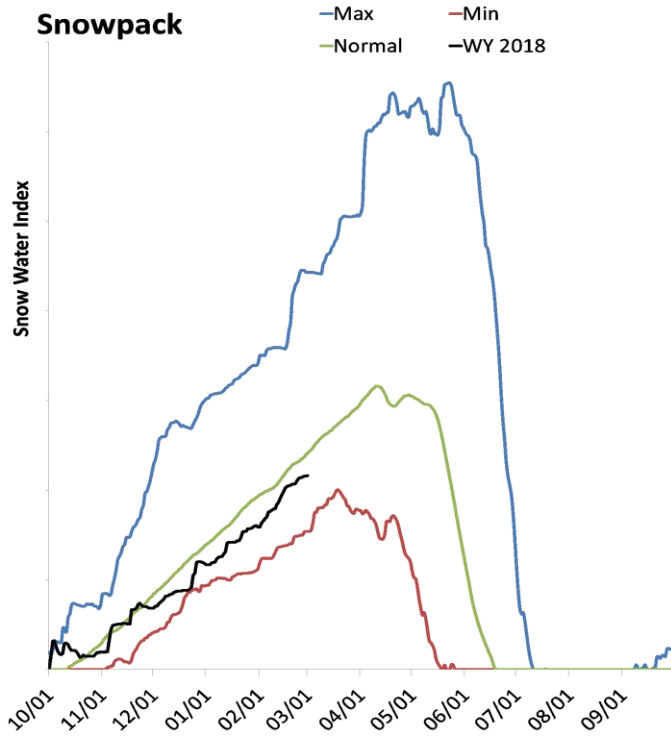
- 105% of Normal SWE
- 109% of Normal Precipitation
- 115% of Normal Precipitation Last Month



South Platte River Basin

March 1, 2018

Snowpack in the South Platte River Basin is near normal at 90% of normal, compared to 117% last year. Precipitation in February was above average at 127%, which brings the seasonal accumulation (Oct-Feb) to 111% of average. Soil moisture at sites with sensors is at 42% of saturation. Forecast streamflow volumes range from 0% to 0% of average.

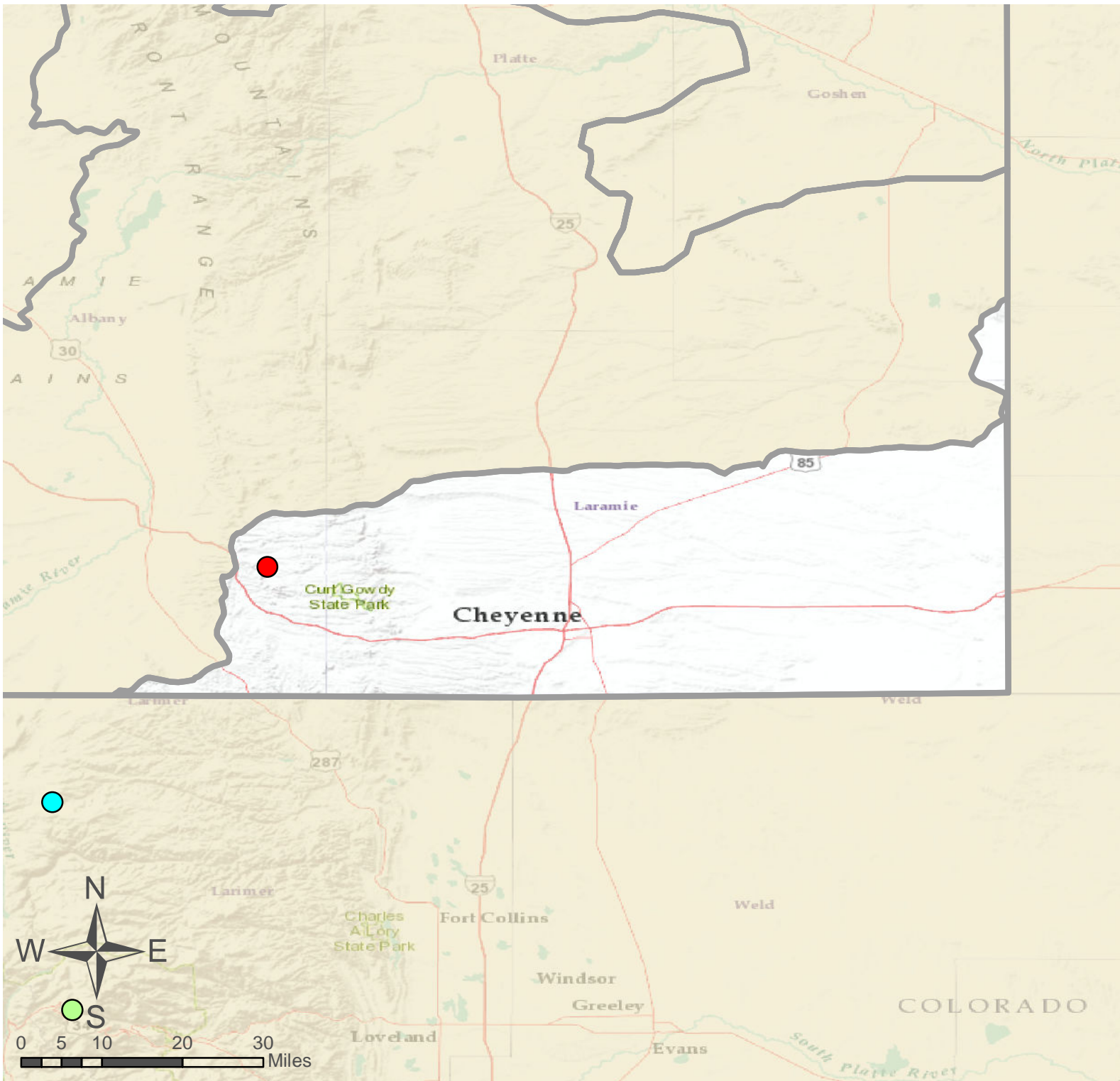


*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Data Current as of: 3/6/2018 8:24:34 AM

South Platte River Basin - March 1, 2018

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
SOUTH PLATTE RIVER	8	91%	125%



South Platte River Basin

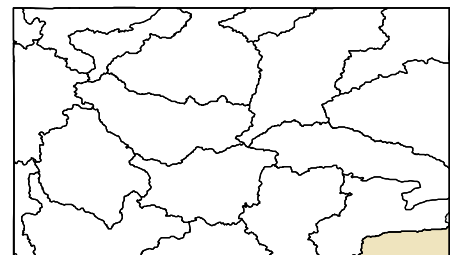
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

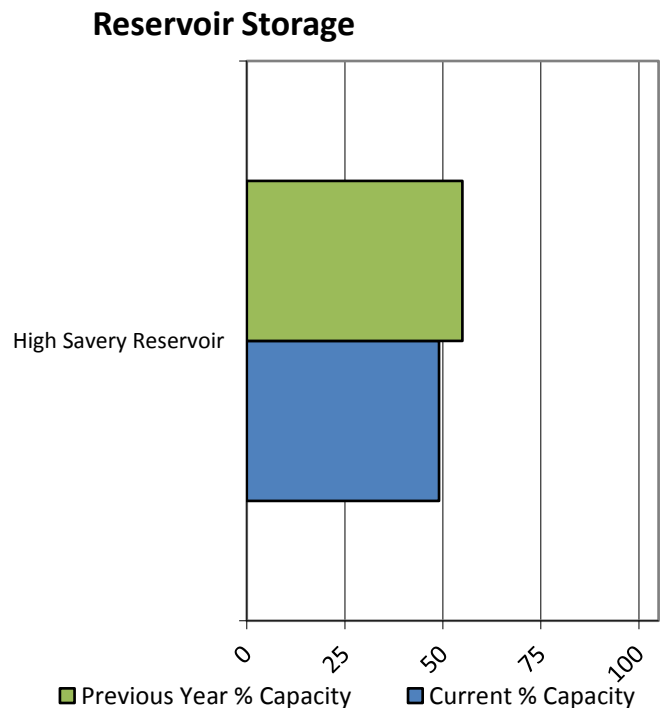
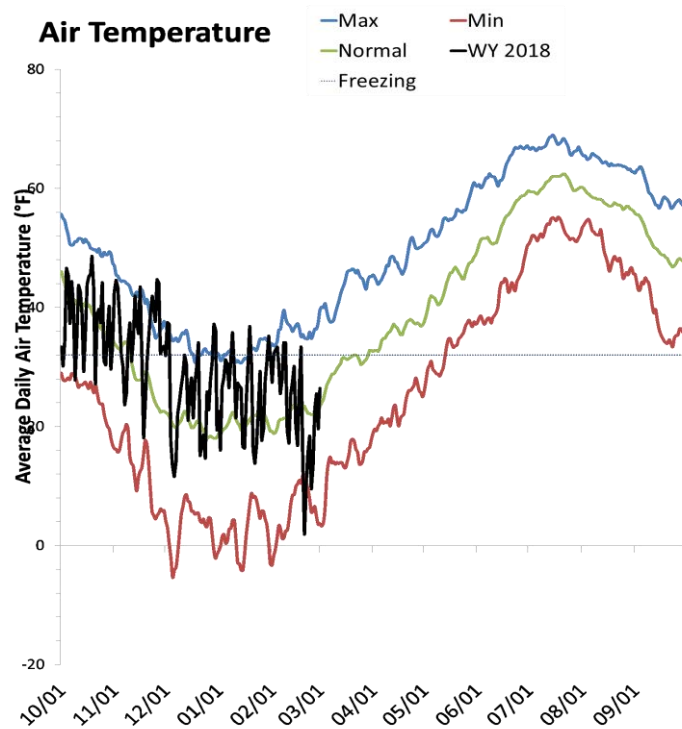
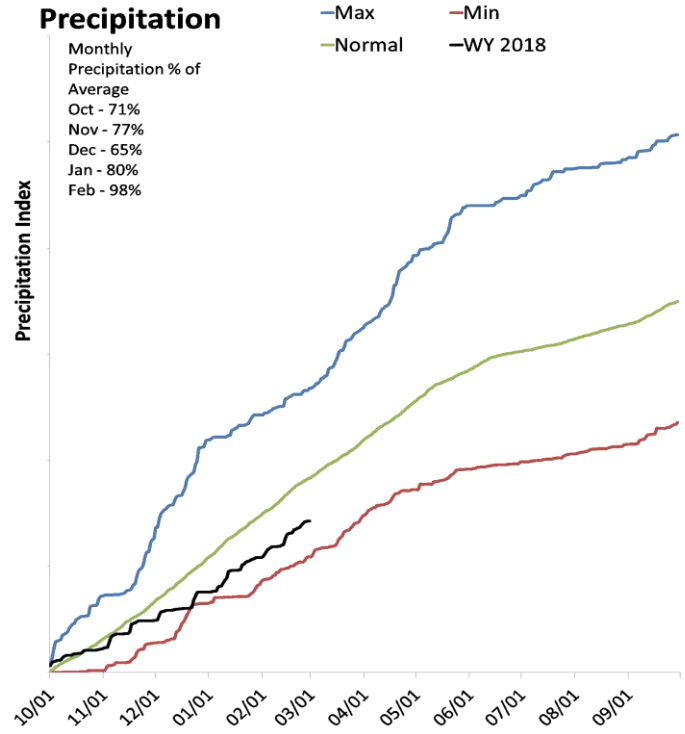
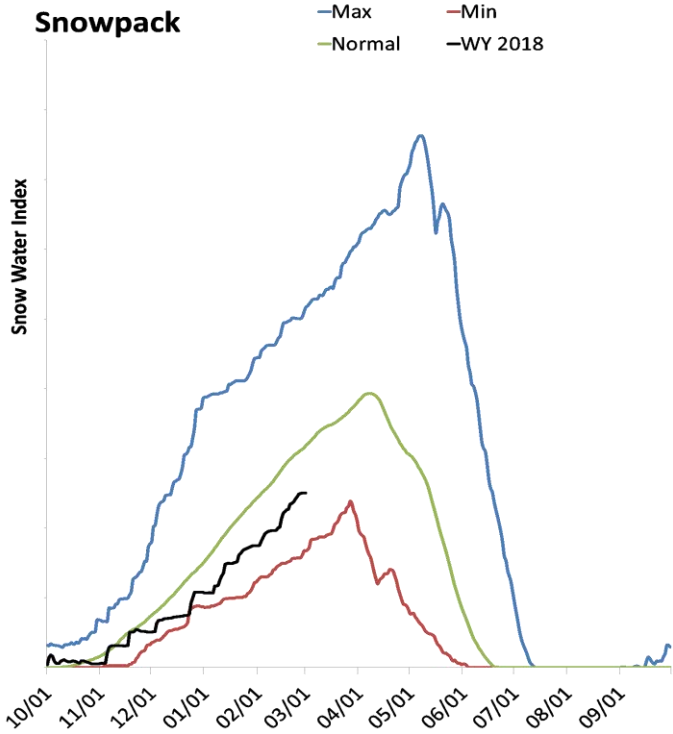
- 90% of Normal SWE
- 111% of Normal Precipitation
- 127% of Normal Precipitation Last Month



Little Snake River Basin

March 1, 2018

Snowpack in the Little Snake River Basin is below normal at 79% of normal, compared to 128% last year. Precipitation in February was near average at 98%, which brings the seasonal accumulation (Oct-Feb) to 78% of average. Soil moisture at sites with sensors is at 69% of saturation. Reservoir storage is at 49% of capacity, compared to 55% last year. Forecast streamflow volumes range from 56% to 71% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Little Snake River Basin Streamflow Forecasts - March 1, 2018

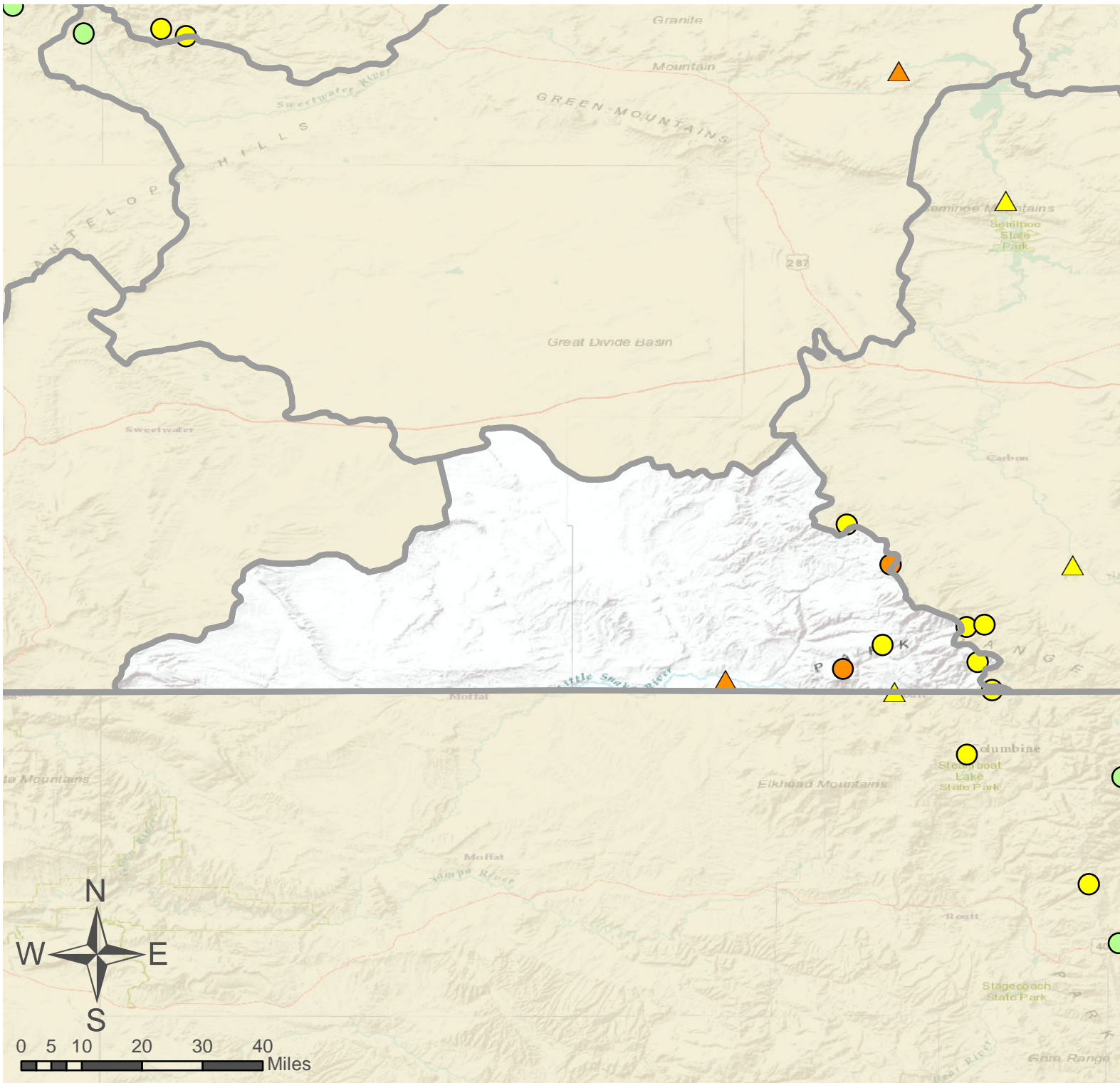
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

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	72	94	110	71%	128	156	156
Little Snake R nr Dixon ²	APR-JUL	91	147	192	56%	245	330	345

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

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
High Savery Reservoir	10.9	12.3	12.0	22.4
Basin-wide Total	10.9	12.3	12.0	22.4
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
LITTLE SNAKE RIVER	10	79%	127%



Little Snake River Basin

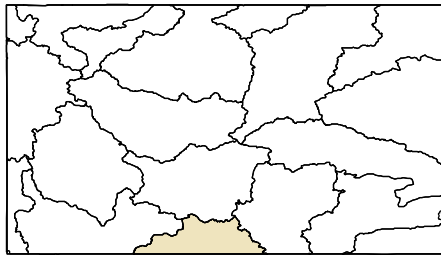
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

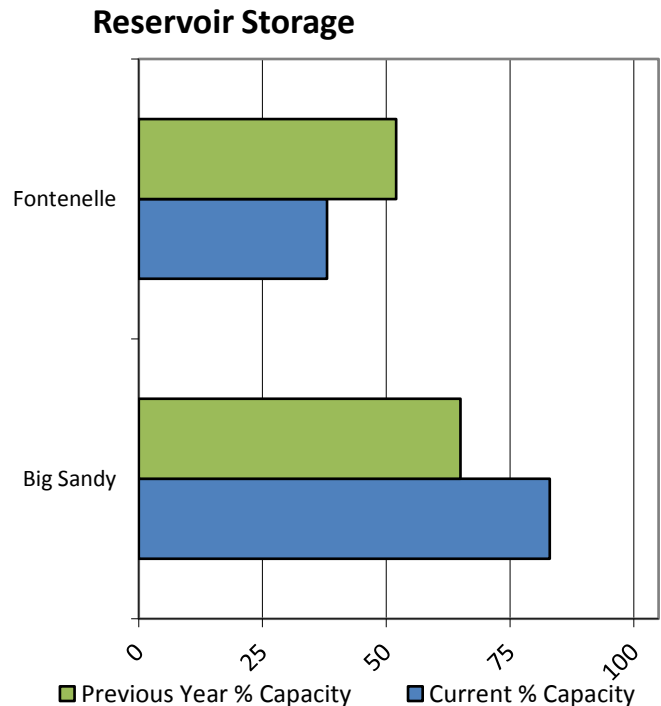
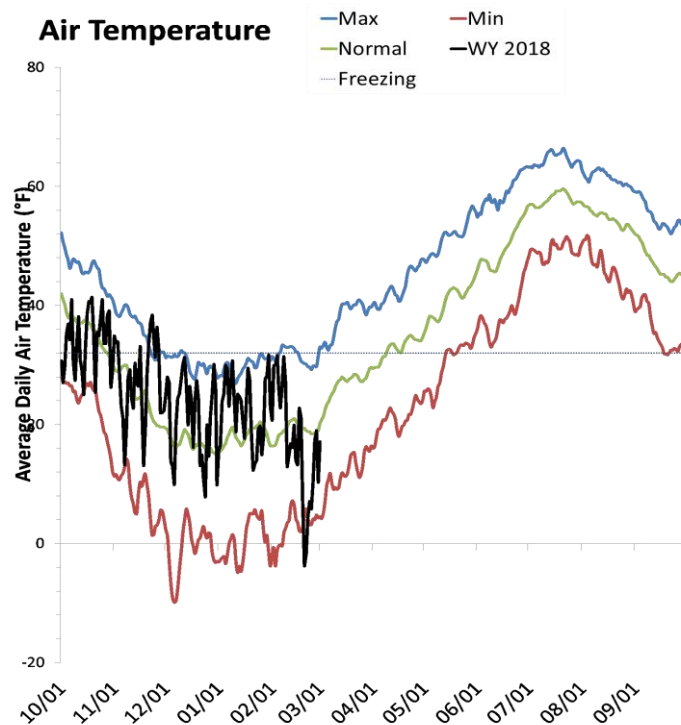
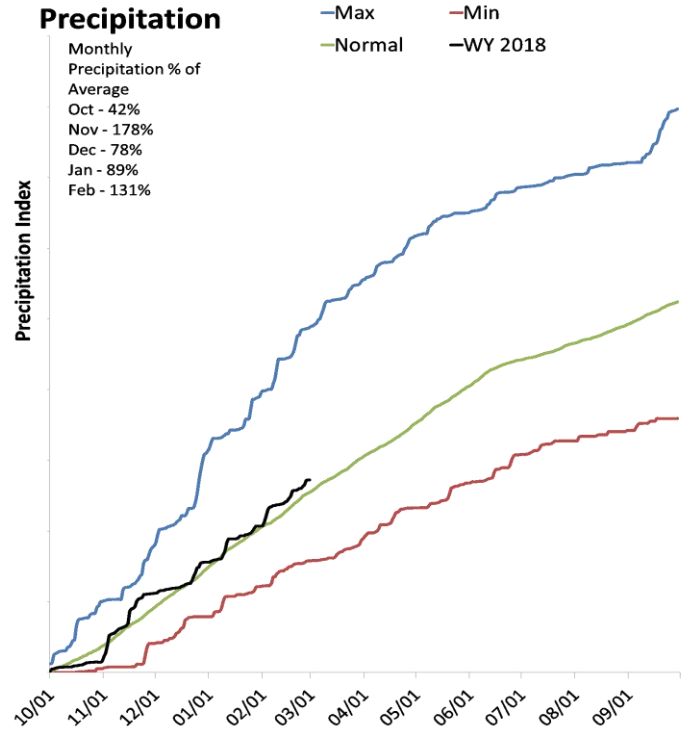
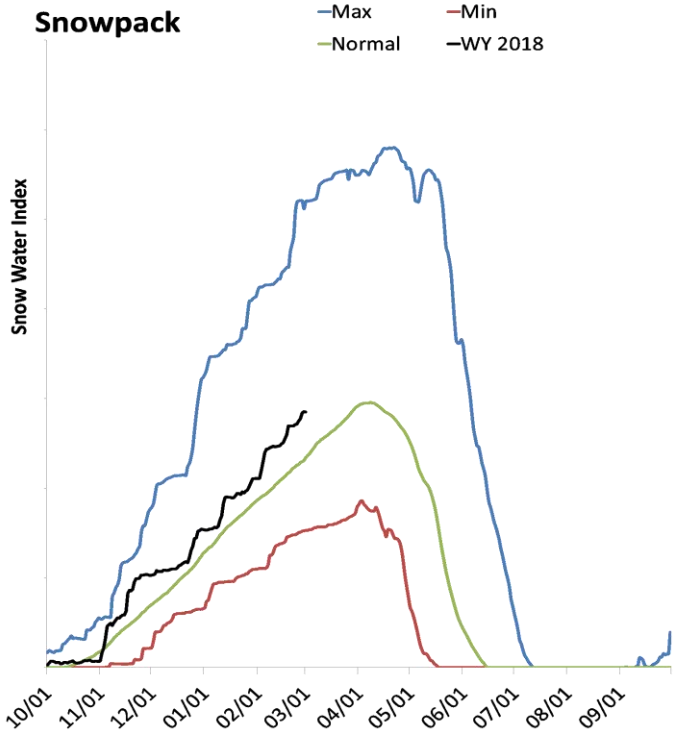
- 79% of Normal SWE
- 78% of Normal Precipitation
- 98% of Normal Precipitation Last Month



Upper Green River Basin

March 1, 2018

Snowpack in the Upper Green River Basin is above normal at 122% of normal, compared to 191% last year. Precipitation in February was much above average at 131%, which brings the seasonal accumulation (Oct-Feb) to 107% of average. Soil moisture at sites with sensors is at 45% of saturation. Reservoir storage is at 42% of capacity, compared to 53% last year. Forecast streamflow volumes range from 96% to 114% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Upper Green River Basin Streamflow Forecasts - March 1, 2018

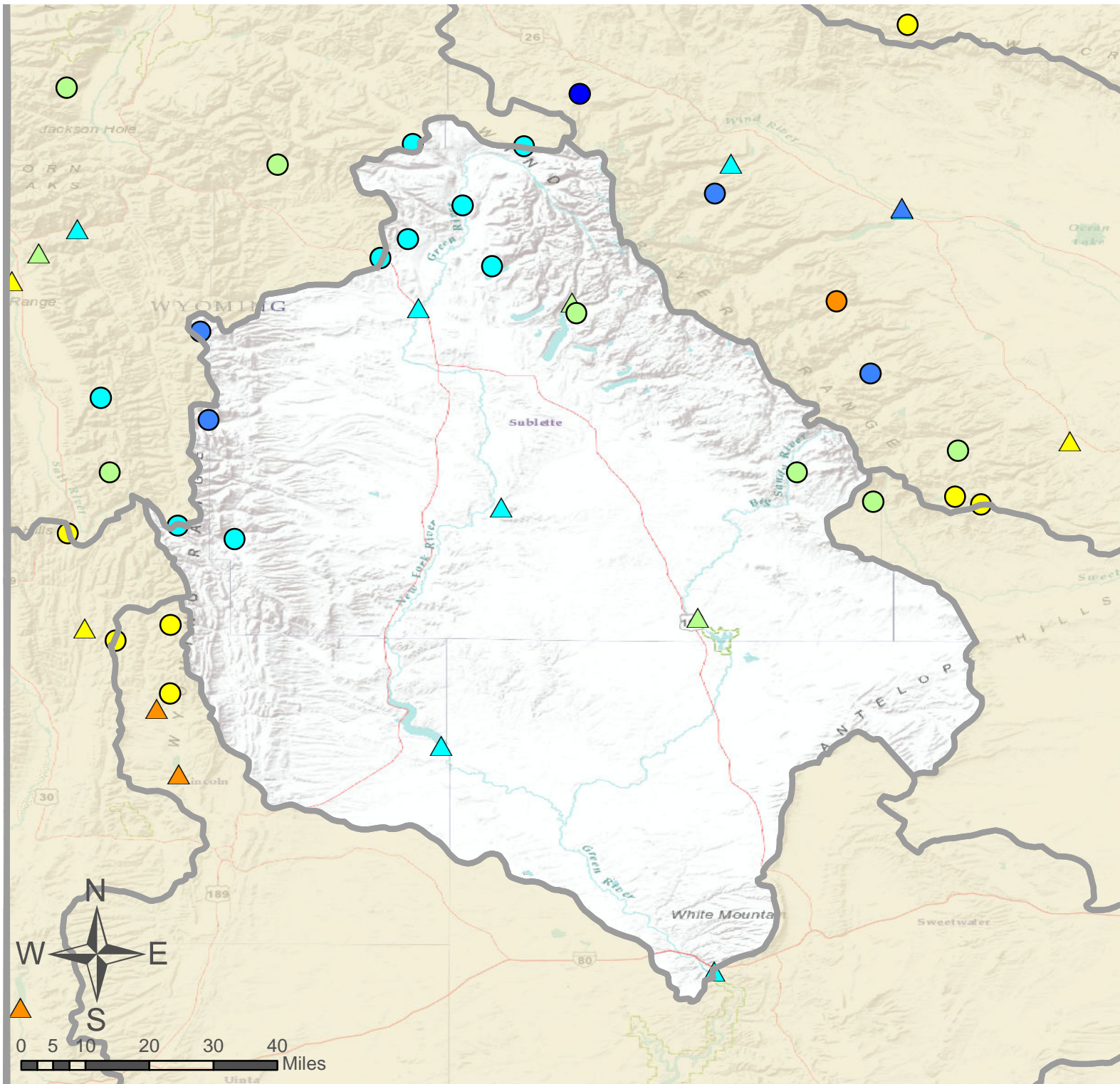
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

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	215	250	275	112%	300	335	245
Pine Creek ab Fremont Lake	APR-JUL	82	91	98	100%	104	114	98
New Fork R nr Big Piney	APR-JUL	270	340	390	110%	440	510	355
Fontenelle Reservoir Inflow	APR-JUL	570	725	830	114%	935	1090	725
Big Sandy R nr Farson	APR-JUL	32	43	50	96%	57	68	52

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

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Big Sandy	31.6	24.7	17.7	38.3
Fontenelle	130.9	177.6	127.6	344.8
Basin-wide Total	162.5	202.3	145.3	383.1
# of reservoirs	2	2	2	2

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
GREEN above Warren Bridge	5	121%	195%
UPPER GREEN - West Side	5	131%	196%
NEWFORK RIVER	3	109%	183%
BIG SANDY-EDEN VALLEY	3	91%	201%
GREEN above Fontenelle	15	120%	192%
UPPER GREEN RIVER	15	120%	192%



Upper Green River Basin

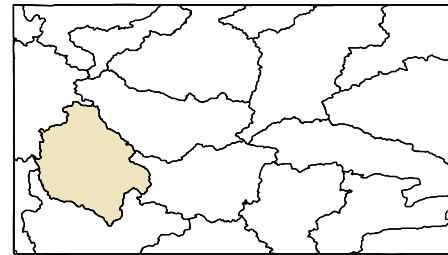
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

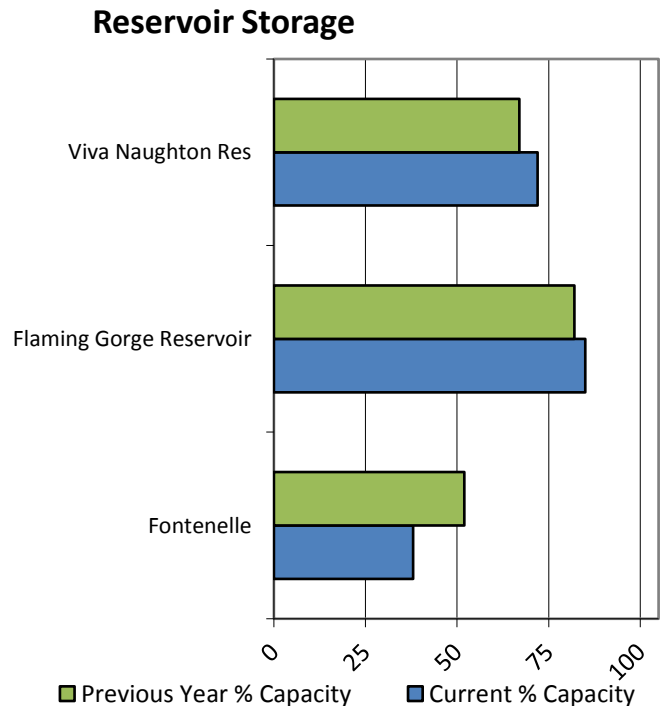
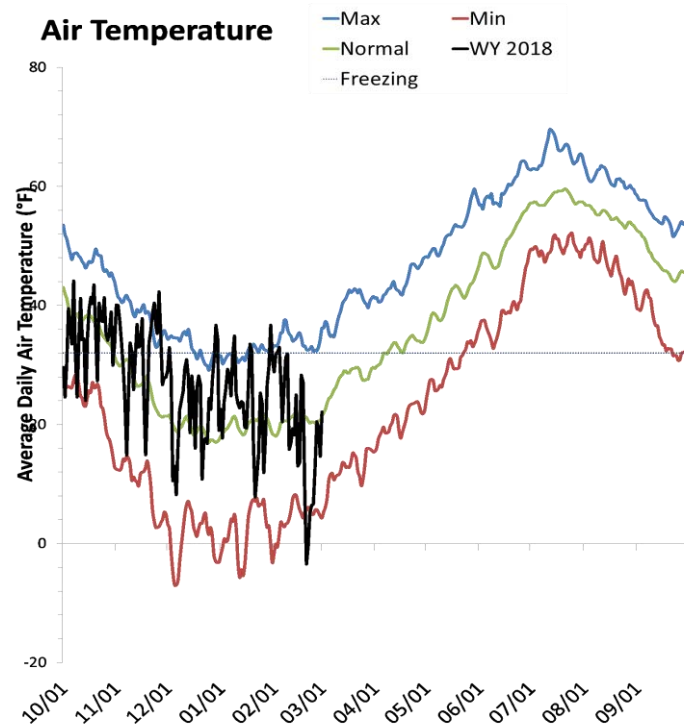
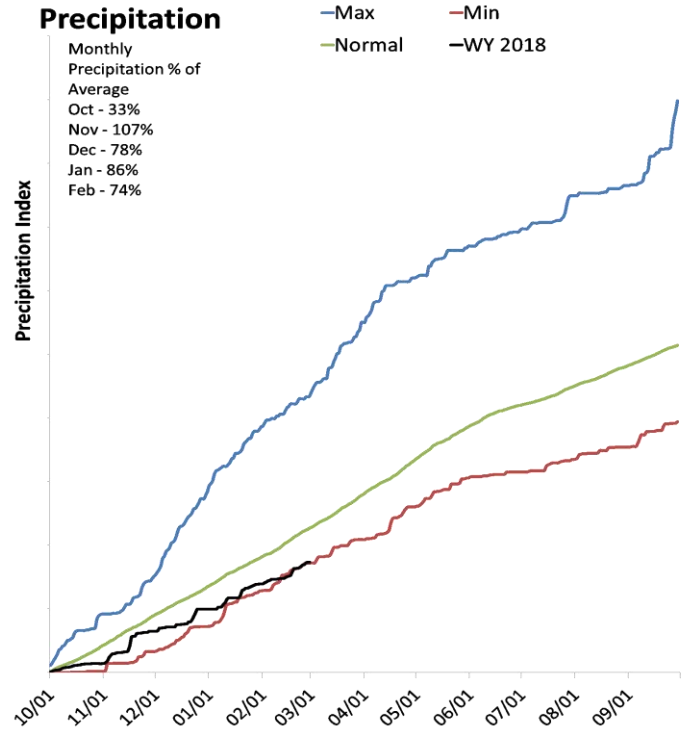
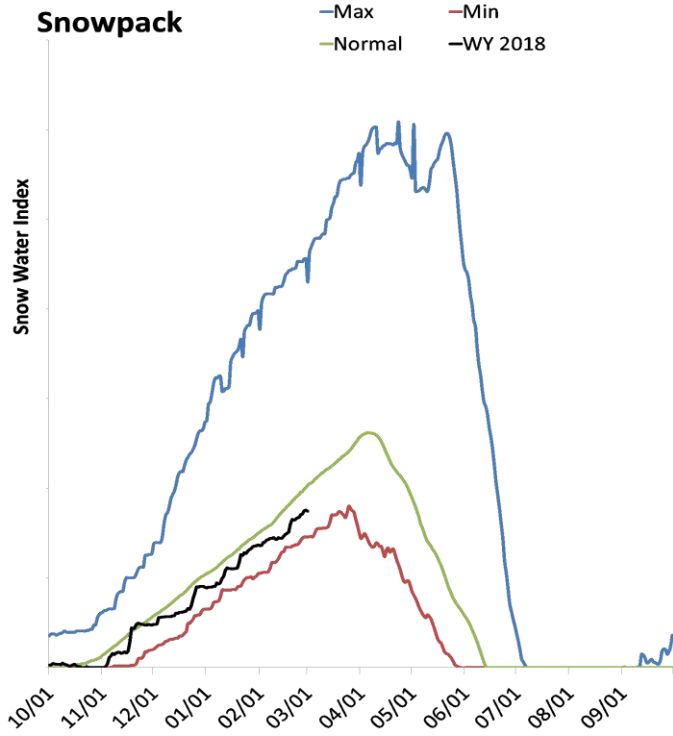
- 122% of Normal SWE
- 107% of Normal Precipitation
- 131% of Normal Precipitation Last Month



Lower Green River Basin

March 1, 2018

Snowpack in the Lower Green River Basin is below normal at 86% of normal, compared to 161% last year. Precipitation in February was below average at 73%, which brings the seasonal accumulation (Oct-Feb) to 76% of average. Soil moisture at sites with sensors is at 53% of saturation. Reservoir storage is at 81% of capacity, compared to 80% last year. Forecast streamflow volumes range from 61% to 116% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Lower Green River Basin Streamflow Forecasts - March 1, 2018

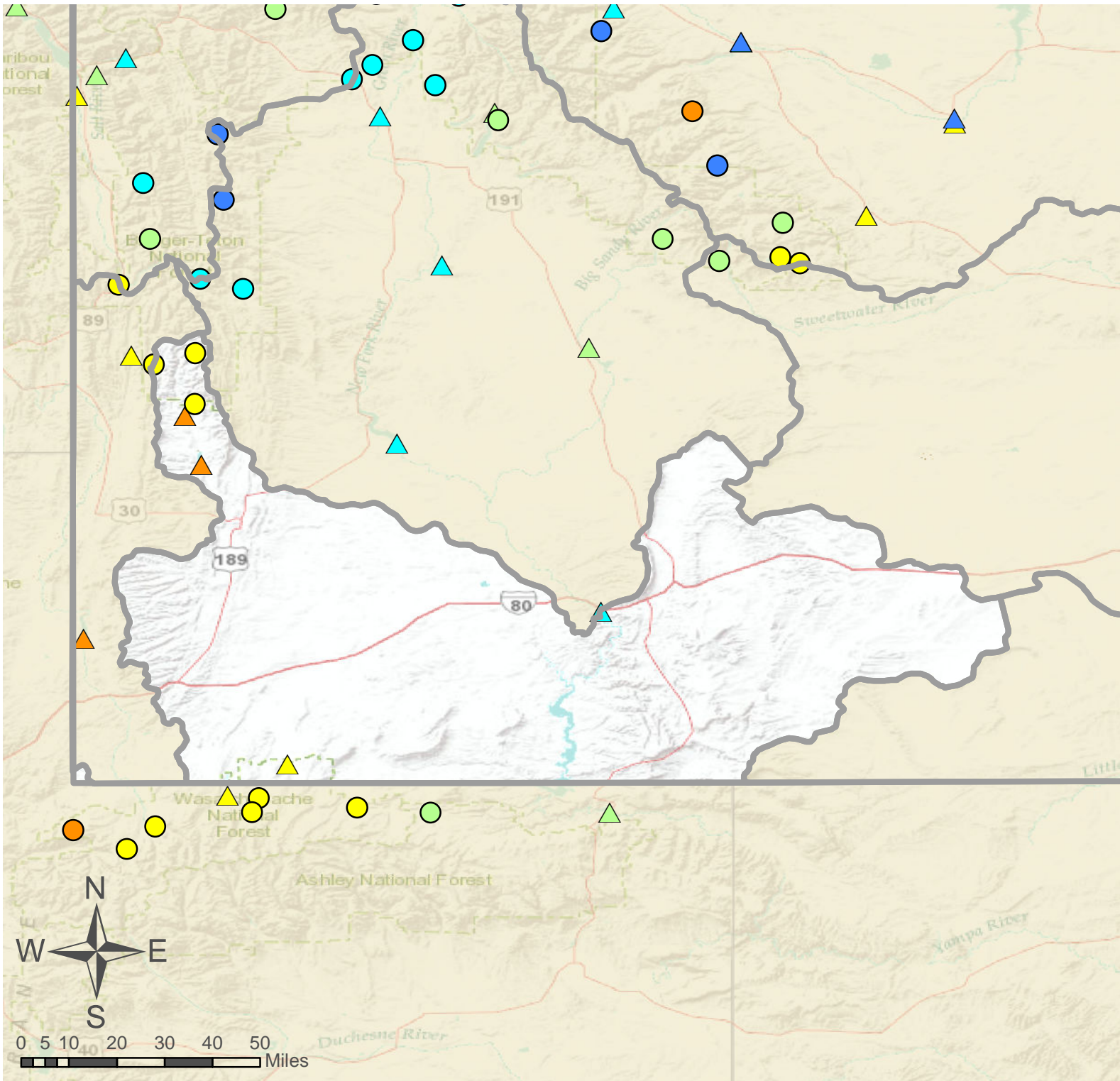
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

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	565	730	845	116%	960	1120	730
Blacks Fk nr Robertson	APR-JUL	36	53	64	74%	76	93	86
EF of Smiths Fork nr Robertson ²	APR-JUL	11.7	16.4	20	74%	24	30	27
Hams Fk bl Pole Ck nr Frontier	APR-JUL	15.8	27	35	65%	43	54	54
Viva Naughton Reservoir Inflow	APR-JUL	11.7	32	45	61%	58	78	74
Flaming Gorge Reservoir Inflow ²	APR-JUL	500	765	945	96%	1120	1380	980

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

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Fontenelle	130.9	177.6	127.6	344.8
Flaming Gorge Reservoir	3194.0	3088.1	3014.0	3749.0
Viva Naughton Res	30.4	28.6	28.8	42.4
Basin-wide Total	3355.2	3294.3	3170.4	4136.2
# of reservoirs	3	3	3	3

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
HAMS FORK RIVER	4	87%	182%
BLACKS FORK	2	85%	139%
HENRYS FORK	2	93%	129%
LOWER GREEN RIVER	8	87%	165%
GREEN above FLAMING GORGE	22	110%	183%



Lower Green River Basin

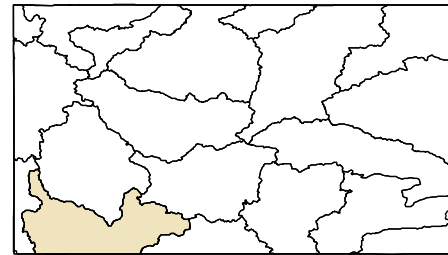
- SNOTEL Site
- △ Forecast Point

% of Normal

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%

As of March 1, 2018:

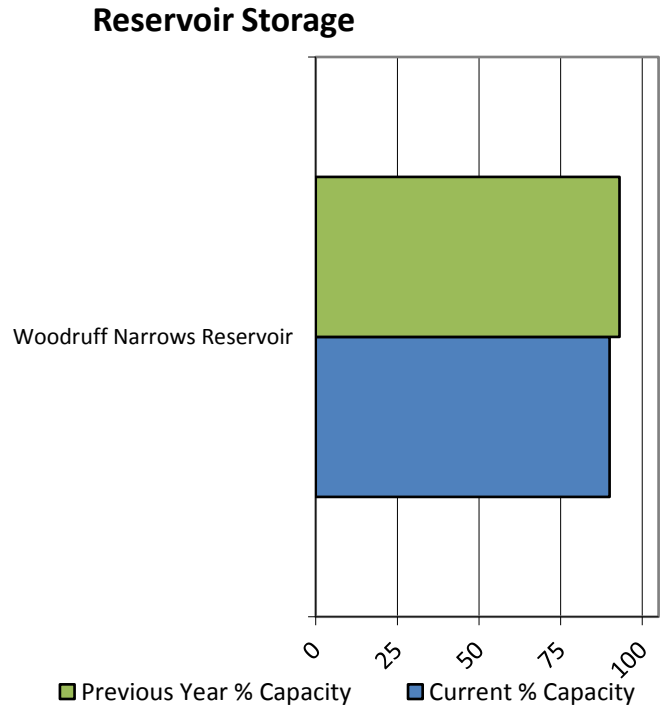
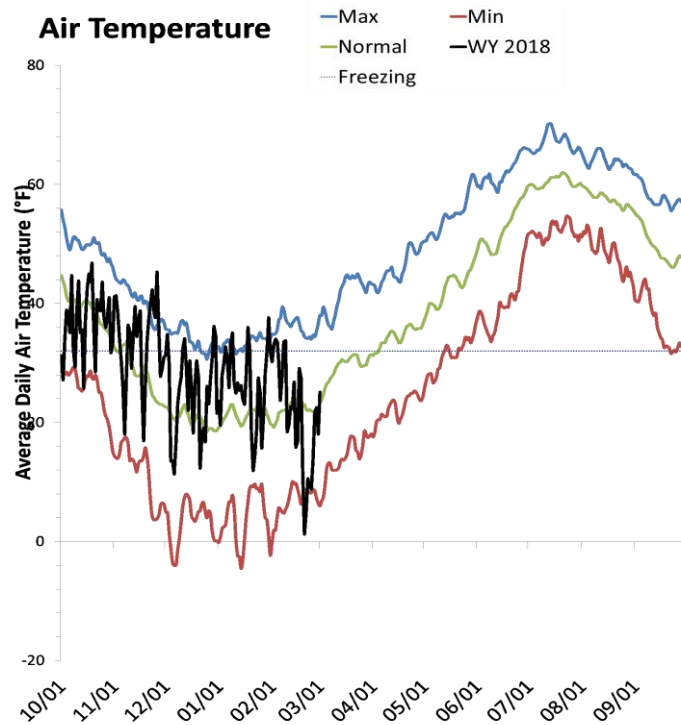
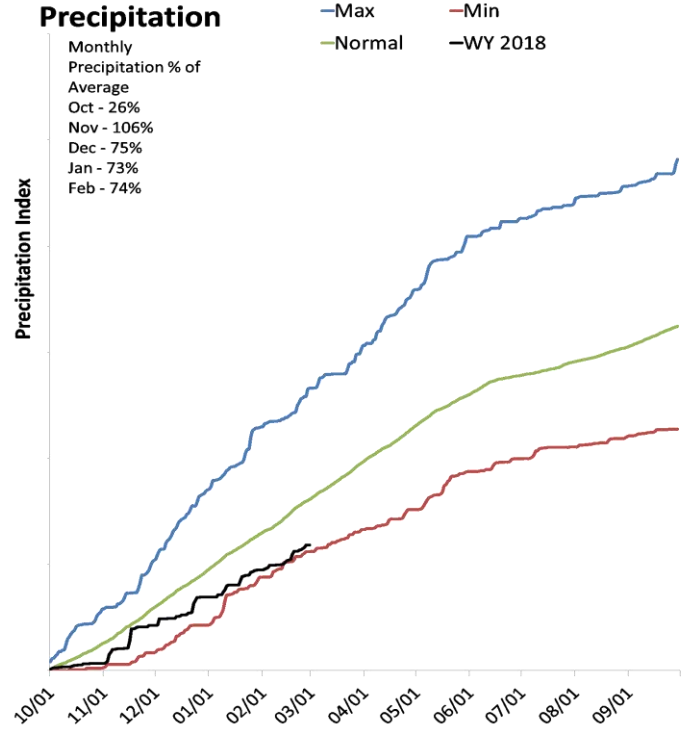
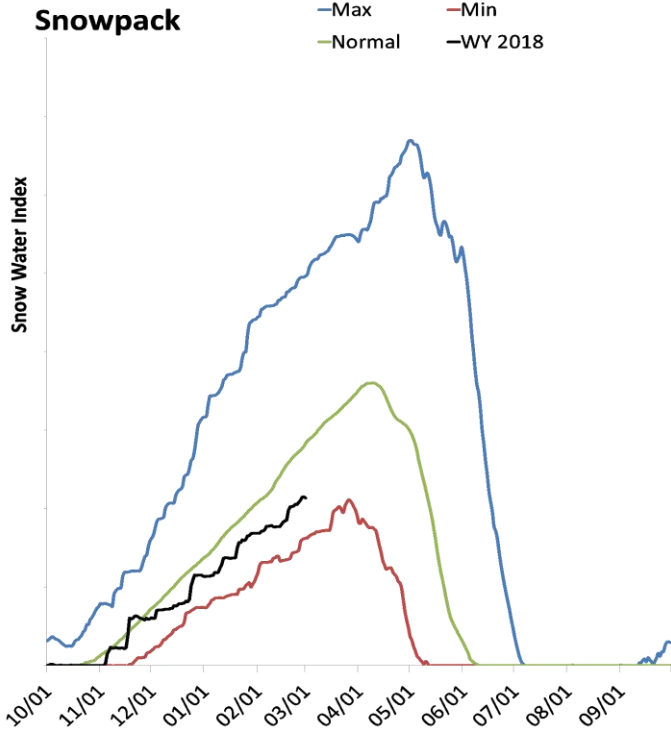
- 86% of Normal SWE
- 76% of Normal Precipitation
- 73% of Normal Precipitation Last Month



Upper Bear River Basin

March 1, 2018

Snowpack in the Upper Bear River Basin is below normal at 75% of normal, compared to 170% last year. Precipitation in February was below average at 74%, which brings the seasonal accumulation (Oct-Feb) to 73% of average. Soil moisture at sites with sensors is at 69% of saturation. Reservoir storage is at 90% of capacity, compared to 93% last year. Forecast streamflow volumes range from 56% to 84% of average.



*Min, Max, and Normal lines created using a 5 day moving average of historical data.

Upper Bear River Basin Streamflow Forecasts - March 1, 2018

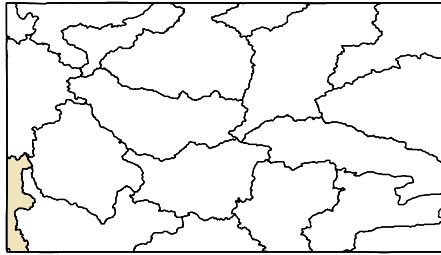
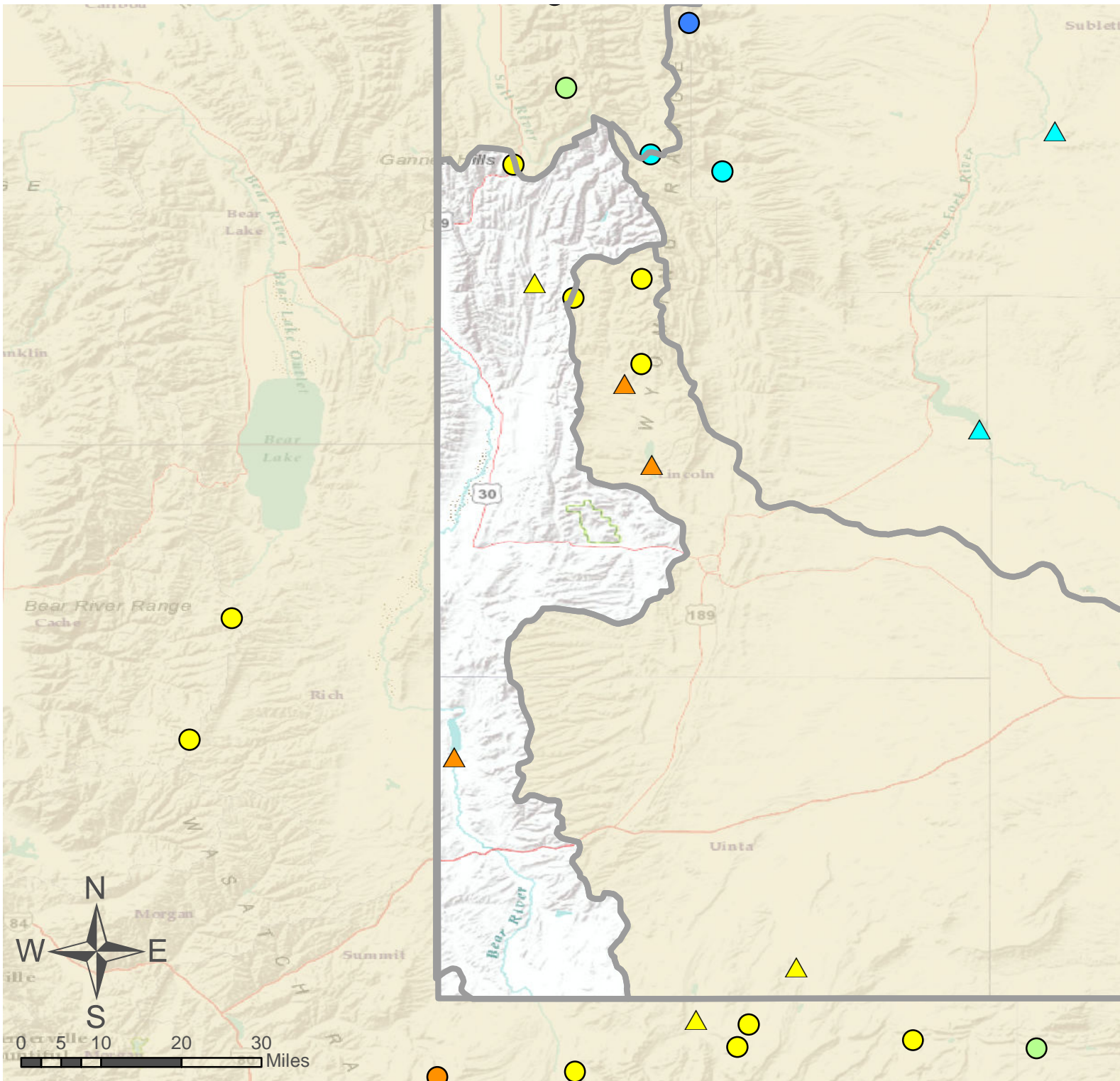
Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

UPPER BEAR RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
<hr/>								
Bear R nr UT-WY State Line	APR-JUL	35	56	71	63%	86	107	112
	APR-SEP	39	63	79	64%	96	120	123
Bear R ab Resv nr Woodruff	APR-JUL	12.1	36	68	56%	100	148	121
	APR-SEP	7.7	34	70	55%	106	158	128
Smiths Fk nr Border	APR-JUL	47	64	75	84%	86	103	89
	APR-SEP	58	77	90	87%	103	122	104

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

Reservoir Storage End of February, 2018	Current (KAF)	Last Year (KAF)	Average (KAF)	Capacity (KAF)
Woodruff Narrows Reservoir	51.6	53.3	31.6	57.3
Basin-wide Total	51.6	53.3	31.6	57.3
# of reservoirs	1	1	1	1

Watershed Snowpack Analysis March 1, 2018	# of Sites	% Median	Last Year % Median
UPPER BEAR RIVER in Utah	3	71%	164%
SMITHS & THOMAS FORKS	4	95%	183%
UPPER BEAR RIVER	8	78%	172%



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Wyoming Water Supply Outlook Report

Natural Resources Conservation Service
Casper, WY

