

Montana Water Supply Outlook Report February 1, 2013



Picture: Madison Plateau SNOTEL Site near West Yellowstone

Water Supply Outlook Report 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 high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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Montana Water Supply Outlook Report as of February 1, 2013

The majority of January 2013 was dry with only two significant storms impacting the state, one at the beginning of the month, the other at the end. Statewide snowpack dipped from 103 percent of median on January 1, to 96 percent of median on February 1. Similarly, continuing the downward slide that began after a great start in October, year-to-date precipitation remains slightly above average at 106 percent. Given the current trends in both snowpack accumulation and precipitation, reservoirs are currently poised to better anticipate below average runoff. Storage levels are slightly above average at 105 percent statewide. With nearly 35 percent of the snow accumulation season remaining, significant changes in snowpack are possible. Streamflow forecasts assume near normal snowfall, precipitation and temperature for the remainder of the year and are estimated to average 94 percent during the April-July runoff season. The majority of the Surface Water Supply Indices saw the same negative progression, but changed little from last month.

Snowpack

As we optimistically entered the New Year most basins across the state of Montana saw slightly above to near normal snowpack conditions, with the exception being some locations along the Rocky Mountain Front and North Central Montana which were slightly below normal. The first week of January started a decline in snowpack across the state as a high pressure blocking pattern centered itself across much of the western states. The Northwest part of Montana did see a brief period of relief from this during the second week and saw some return to snowy weather helping the basins to stay near normal.

The high pressure sank back into the state after the middle of the month bringing along with it first cold dry air from Canada followed by warm dry air from the Southwest. During this time all basins in Montana saw a decrease in the basin snowpack numbers as we sat high and dry waiting for the snow to return. Luckily, the last week of the month provided ample snowfall in most basins as we returned to a more seasonal weather pattern. Of special note is the Bridger Range in Southwest Montana which under the "Bridger Cloud" received 2 inches of Snow Water Equivalent in a five day period under moist Northwest flow. As we ended the month, the last storm provided some relief to most of the basins decrease in snowpack median experienced during the month, returning most basins to near where we started January percentage wise. Be sure to view individual reports online at <http://www.mt.nrcs.usda.gov/snow/>

RIVER BASIN	% OF MEDIAN	LAST YEAR % OF MEDIAN	JANUARY % CHANGE
COLUMBIA	92	103	-8
KOOTENAI	97	105	-17
FLATHEAD	93	94	-7
UPPER CLARK FORK	93	114	0
BITTERROOT	86	111	-4
LOWER CLARK FORK	89	112	-7
MISSOURI	99	95	-4
MISSOURI HEADWATERS	103	89	-7
JEFFERSON	102	96	-7
MADISON	102	86	-5
GALLATIN	106	80	-9
MISSOURI MAINSTEM	89	110	+1
HEADWATERS MAINSTEM	96	123	+2
SMITH-JUDITH-MUSSELSHELL	97	103	+1
SUN-TETON-MARIAS	77	110	-1
MILK (Bearpaw Mtns)	106	53	+46
ST. MARY	102	105	-9
ST. MARY & MILK	103	101	-6
YELLOWSTONE	91	109	-8
UPPER YELLOWSTONE	98	103	-8
LOWER YELLOWSTONE	86	114	-7
STATE-WIDE	96	101	-7

Precipitation

At 83 percent of average, January produced the lowest monthly total precipitation since October 1, 2012, in nearly all Montana watersheds. According to SNOTEL data, only the Milk River Basin received above average precipitation during January. Despite a below average month, year-to-date statewide precipitation remains slightly above average. East of the Divide precipitation at 100 percent of average, and West of the divide precipitation is better at 113 percent of average. The next few months will be critical as March through June is typically the wettest period in Montana. At the time of this report the typical basin precipitation summaries based on National Weather Service COOP station and SNOTEL data were not available. Only

automated SNOTEL station data in the mountainous areas of Montana and Wyoming were available for basin summaries. Be sure to view individual reports online at <http://www.mt.nrcs.usda.gov/snow/>

Reservoirs

State-wide reservoir storage was 105 percent of average and 90 percent of last year. Reservoir storage west of the divide was 115 percent of average and 95 percent of last year. East of the Divide, reservoir storage was 101 percent of average and 88 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	115	95
KOOTENAI	112	86
FLATHEAD	118	103
UPPER CLARK FORK	112	77
BITTERROOT	115	124
LOWER CLARK FORK	100	100
MISSOURI	101	87
JEFFERSON	103	74
MADISON	107	98
GALLATIN	98	102
MISSOURI MAINSTEM	100	87
SMITH-JUDITH-MUSSELSHELL	106	77
SUN-TETON-MARIAS	101	96
MILK	125	82
ST. MARY	187	212
YELLOWSTONE	108	97
UPPER YELLOWSTONE	115	75
LOWER YELLOWSTONE	108	97
STATEWIDE	105	90

Streamflow

State-wide, streamflows are forecast to be 94 percent of average. West of the divide streamflows are forecast to be 98 percent of average and east of the divide are forecast to be 91 percent of average.

Following are streamflow forecasts for the period April 1 through July 31. THE FIGURES IN THE TABLE BELOW ARE AN AVERAGE OF ALL FORECASTS WITHIN THE PARTICULAR BASIN AT THE 50 PERCENT EXCEEDANCE ONLY. FOR FORECASTS ABOVE AND BELOW THE 50 PERCENT EXCEEDANCE, LOOK TO THE SPECIFIC BASIN REPORTS.

RIVER BASIN	April-July THIS YEAR % OF AVERAGE	April-July LAST YEAR % OF AVERAGE
COLUMBIA	98	92
KOOTENAI	102	86
FLATHEAD	103	89
UPPER CLARK FORK	97	98
BITTERROOT	88	99
LOWER CLARK FORK	90	87
MISSOURI	94	84
JEFFERSON	92	72
MADISON	96	83
GALLATIN	96	85
MISSOURI MAINSTEM	94	82
SMITH-JUDITH-MUSSELSHELL	91	83
SUN-TETON-MARIAS	95	101
MILK	105	90
ST. MARY	101	106
YELLOWSTONE	85	98
UPPER YELLOWSTONE	91	91
LOWER YELLOWSTONE	79	105
STATE-WIDE	94	91

NOTE: The APRIL-JULY LAST YEAR % OF AVERAGE column above is what was forecast last year at this same time, NOT what actually occurred.

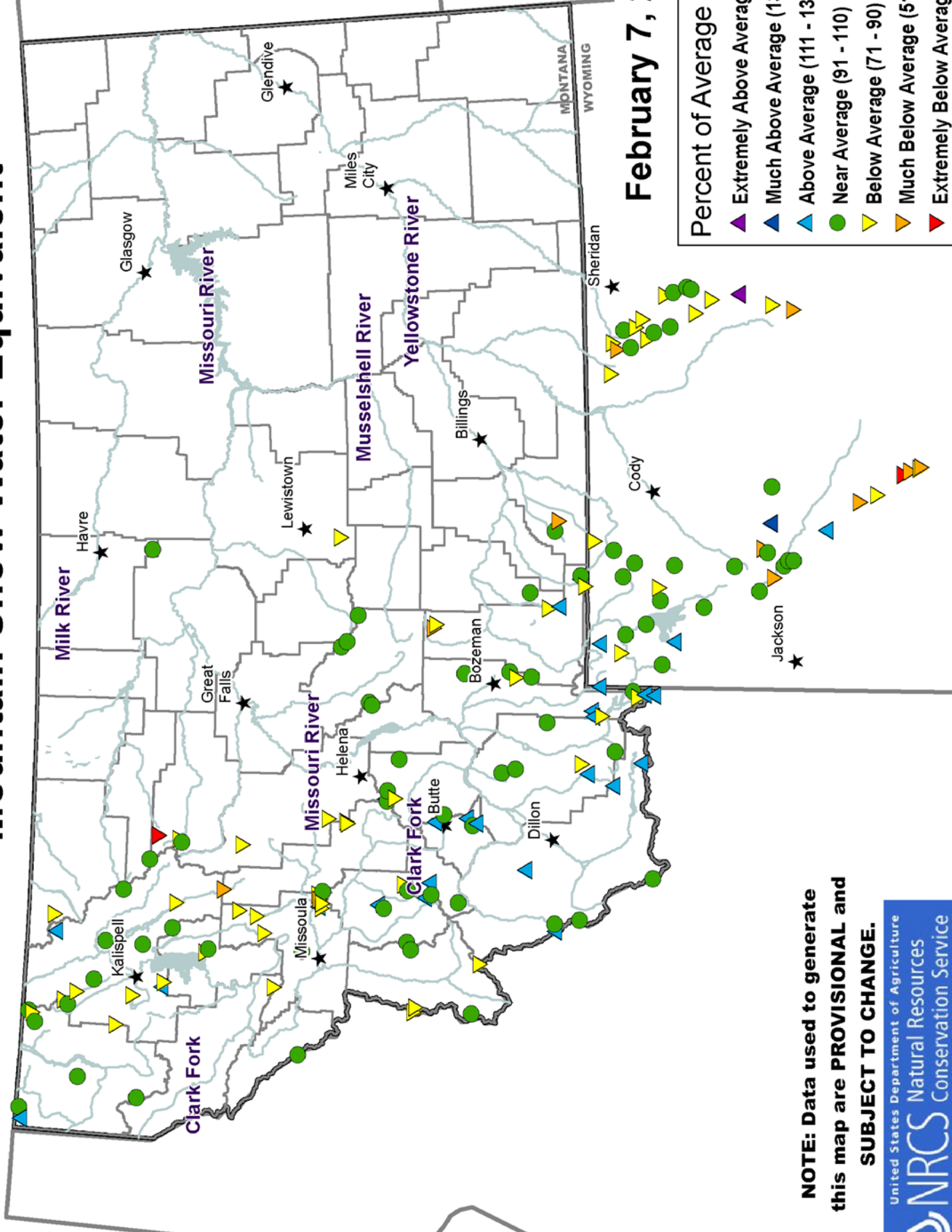
Surface Water Supply Index

The Surface Water Supply Index (SWSI) is a measure of available surface water availability for the spring and summer months. Water users that rely on mountain precipitation can use the index to evaluate seasonal surface water supplies. The SWSI accounts for mountain snowpack, mountain precipitation, streamflow, reservoir storage, and soil moisture.

SWSI RATING	SURFACE WATER CONDITION
+3.0 to +4.0	Extremely Wet
+2.0 to +3.0	Moderately Wet
+1.0 to +2.0	Slightly Wet
-1.0 to +1.0	Near Average
-1.0 to -2.0	Slightly Dry
-2.0 to -3.0	Moderately Dry
-3.0 to -4.0	Extremely Dry

This Year SWSI	Last Year SWSI	Basin
0.0	-0.8	Tobacco River
+0.2	-1.1	Kootenai Ft. Steele to Libby Dam
+0.7	+0.6	Kootenai River below Libby Dam
-0.3	+0.1	Fisher River
+1.3	+0.8	Yaak River
+0.6	-1.4	North Fork Flathead River
+1.2	-0.6	Middle Fork Flathead River
+3.1	-0.2	South Fork Flathead River
+0.9	-0.7	Flathead River at Columbia Falls
-0.3	-1.4	Swan River
+1.0	-2.6	Flathead River at Polson
-2.4	-1.9	Mission Valley
+1.3	+0.9	Little Bitterroot River
-0.3	+0.7	Clark Fork River above Milltown
-1.6	+0.6	Clark Fork above Missoula
-0.6	+0.5	Blackfoot River
-1.5	+0.6	Bitterroot River
-1.6	+0.6	Clark Fork River below Bitterroot River
+0.1	-1.4	Clark Fork River below Flathead River
-0.3	+0.2	Beaverhead River
-0.8	-0.7	Ruby River
-1.0	-0.9	Big Hole River
-0.9	+0.2	Boulder River (Jefferson)
+0.5	-0.6	Jefferson River
-0.3	-1.3	Madison River
-0.8	-0.8	Gallatin River
+0.1	0.0	Missouri River above Canyon Ferry
+0.2	+0.1	Missouri River below Canyon Ferry
+1.3	+2.9	Smith River
-0.7	+0.7	Sun River
+0.4	+1.8	Teton River
-2.5	+1.4	Birch/Dupuyer Creeks
+0.2	+2.0	Upper Judith River
-2.0	+0.3	Marias River above Tiber
+0.7	+2.1	Marias River below Tiber
0.0	+1.2	Musselshell River
+0.7	+0.9	Missouri River above Ft. Peck
-1.2	+0.2	Missouri River below Ft. Peck
+1.2	+1.6	St. Mary River
+1.1	+2.1	Milk River
-1.0	+0.7	Dearborn River near Craig
0.0	+0.1	Yellowstone River above Livingston
-1.7	-1.7	Shields River
-0.8	-1.4	Boulder River (Yellowstone)
-2.0	-1.0	Stillwater River
-2.2	+0.8	Rock/Red Lodge Creeks
-0.9	+0.7	Clarks Fork River
-0.5	0.0	Yellowstone River above Bighorn River
-0.9	+0.1	Bighorn River below Bighorn Lake
-2.7	+2.0	Little Bighorn River
-0.7	+0.1	Yellowstone River below Bighorn River
-1.9	+2.7	Tongue River
-0.4	+1.7	Powder River

Mountain Snow Water Equivalent



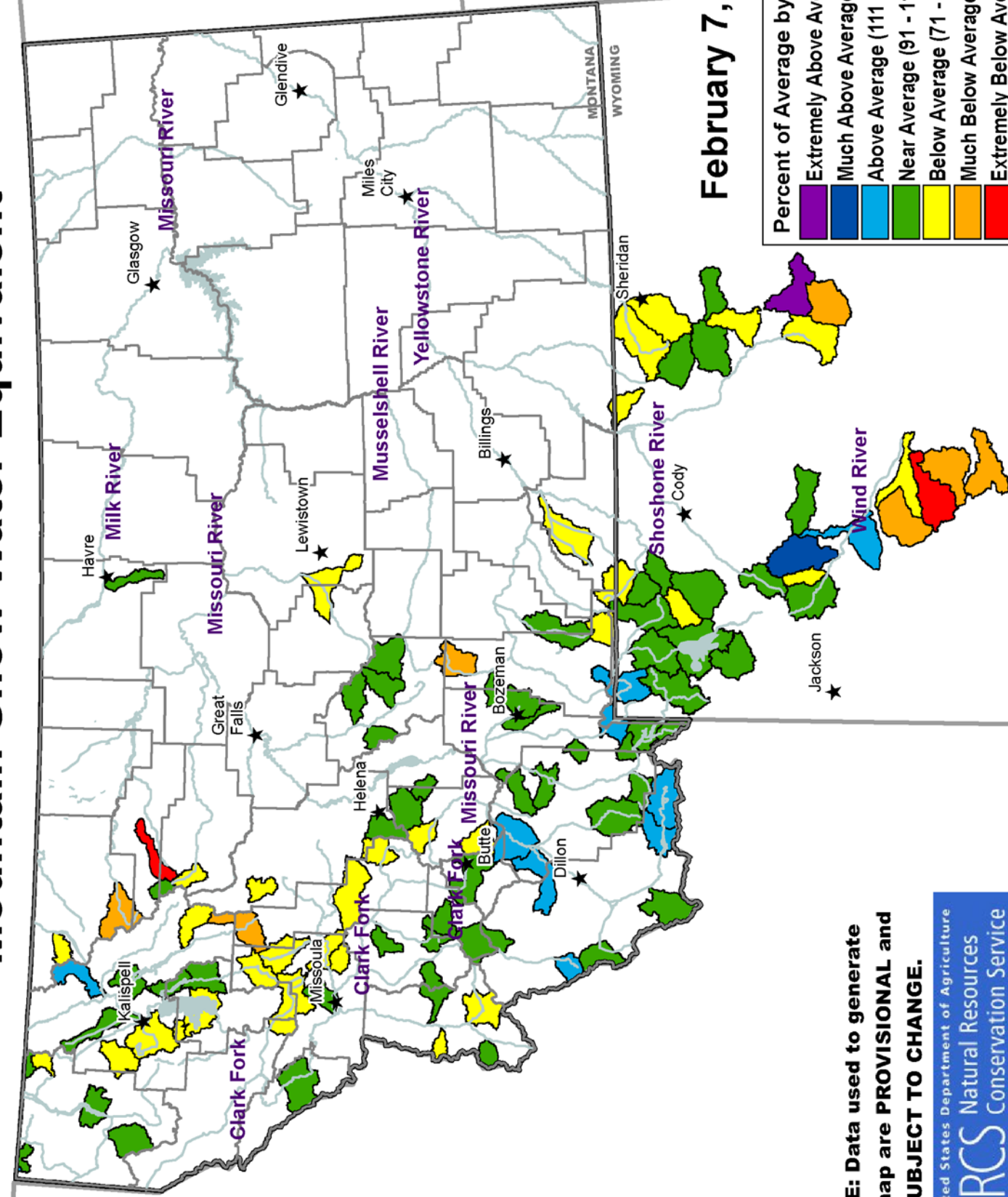
February 7, 2013

Percent of Average

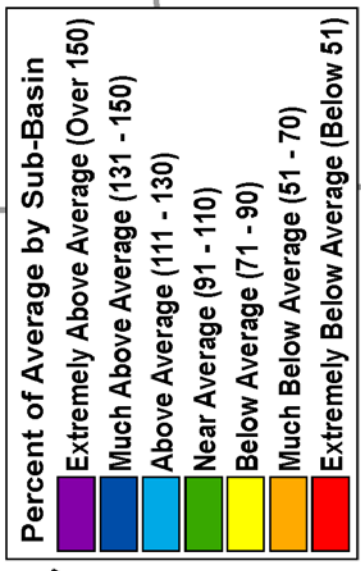
- Extremely Above Average (Over 150)
- Much Above Average (131 - 150)
- Above Average (111 - 130)
- Near Average (91 - 110)
- Below Average (71 - 90)
- Much Below Average (51 - 70)
- Extremely Below Average (Below 51)

NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

Mountain Snow Water Equivalent

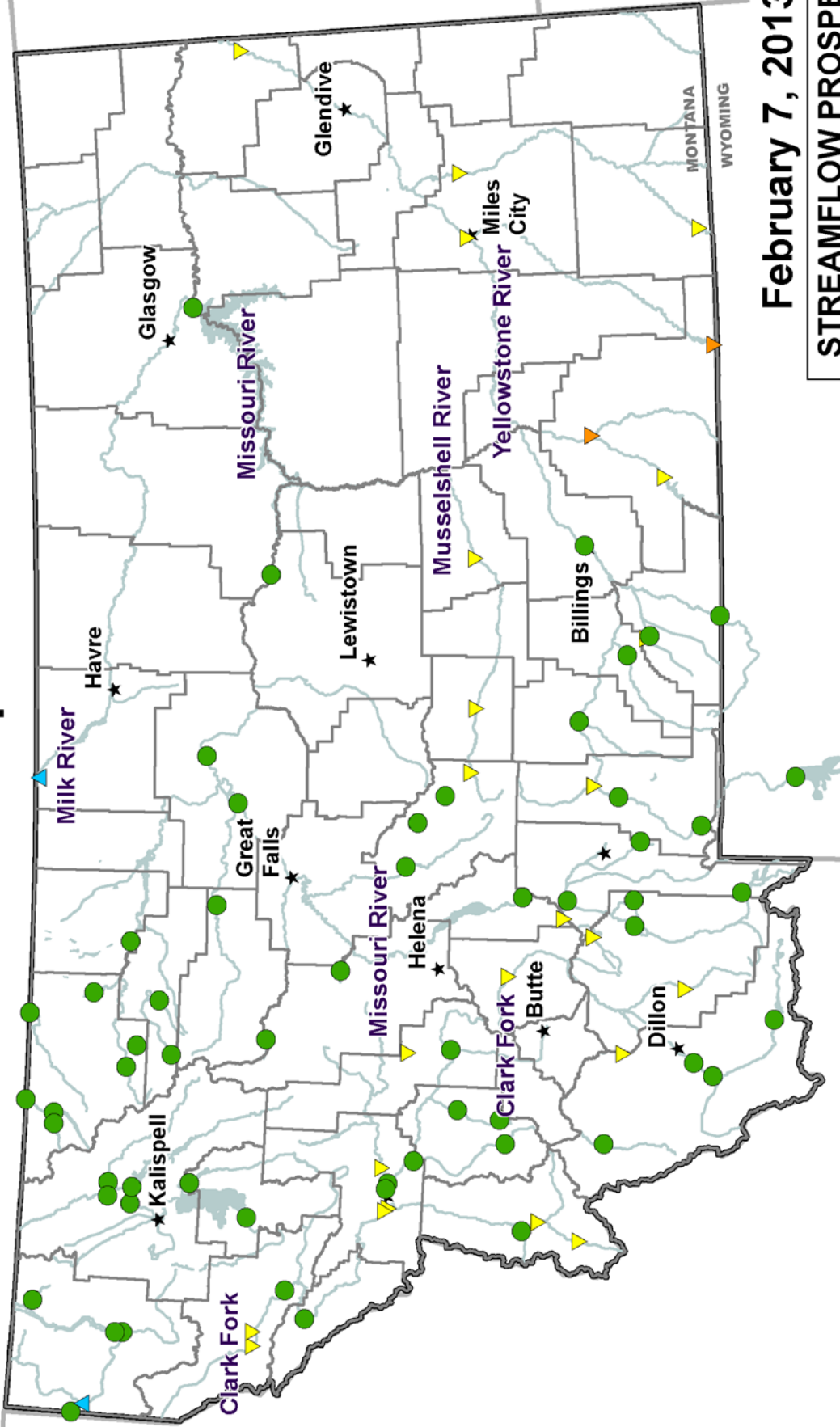


February 7, 2013



NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.

Streamflow Prospects for Montana



February 7, 2013

STREAMFLOW PROSPECTS

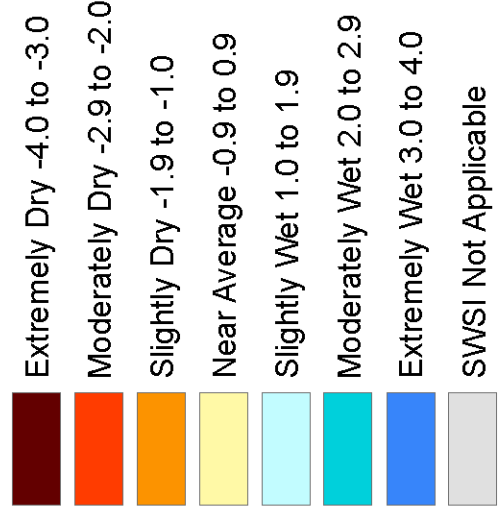
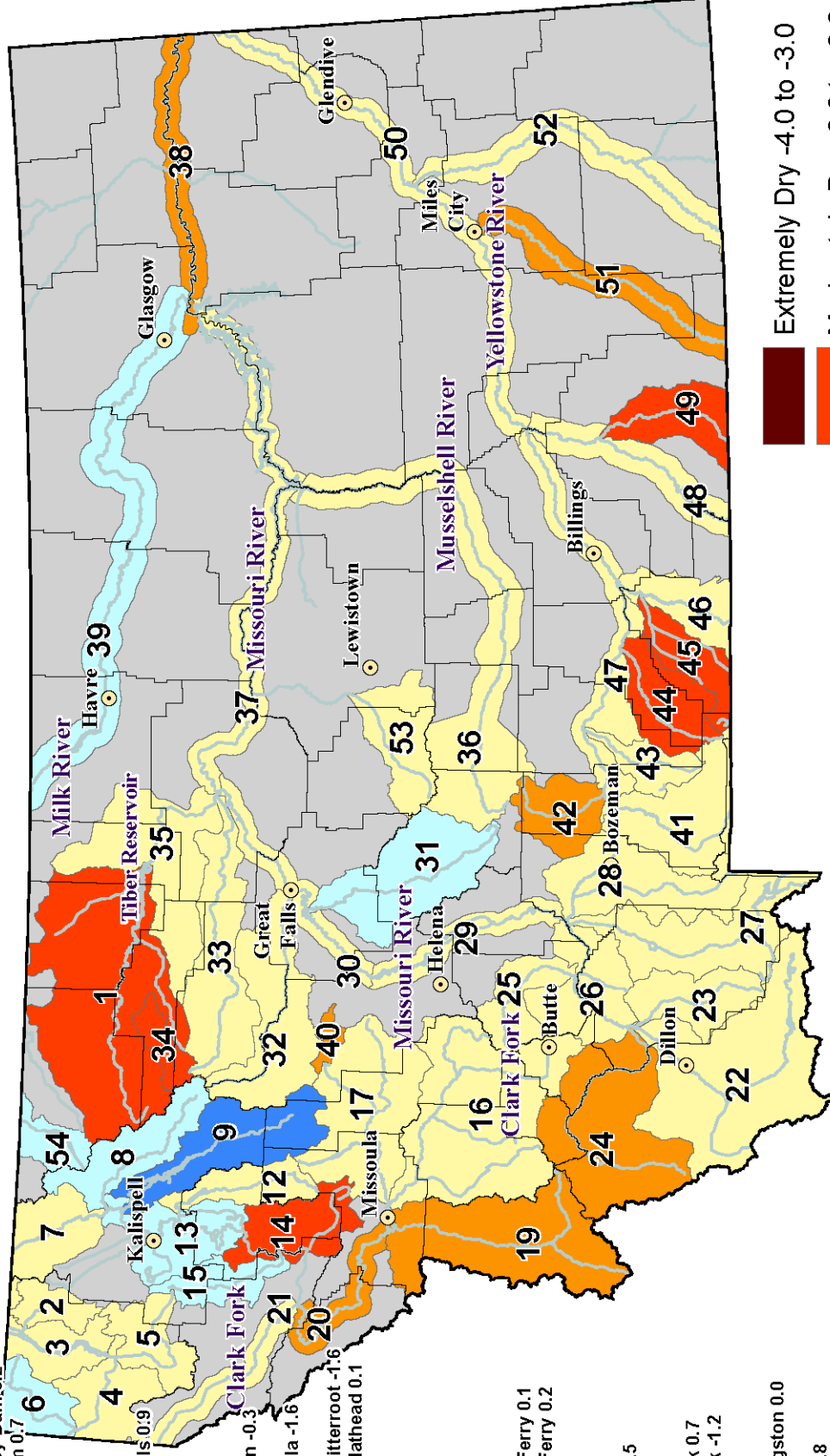
- ▲ Extremely Above Average (Over 150)
- ▲ Much Above Average (131 - 150)
- ▲ Above Average (111 - 130)
- Near Average (91 - 110)
- ▲ Below Average (71 - 90)
- ▲ Much Below Average (51 - 70)
- ▲ Extremely Below Average (Below 51)

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Surface Water Supply Index (SWSI) Values

RIVER INDEX & SWSI VALUES

- 1 Marias above Tiber Reservoir -2.0
- 2 Tobacco 0.0
- 3 Kootenai Ft. Steele to Libby Dam 0.2
- 4 Kootenai below Libby Dam 0.7
- 5 Fisher -0.3
- 6 Yaak 1.3
- 7 North FK. Flathead 0.6
- 8 Middle FK. Flathead 1.2
- 9 South FK. Flathead 3.1
- 10 Flathead at Columbia Falls 0.9
- 11 Swan -0.3
- 12 Flathead at Polson 1.0
- 13 Mission Valley -2.4
- 14 Little Bitterroot 1.3
- 15 Clark Fork above Milltown -0.3
- 16 Blackfoot -0.6
- 17 Clark Fork above Missoula -1.6
- 18 Bitterroot -1.5
- 19 Clark Fork River below Bitterroot -1.6
- 20 Clark Fork River below Flathead 0.1
- 21 Beaverhead -0.3
- 22 Ruby -0.8
- 23 Big Hole -1.0
- 24 Boulder (Jefferson) -0.9
- 25 Jefferson 0.5
- 26 Madison -0.3
- 27 Gallatin -0.8
- 28 Missouri above Canyon Ferry 0.1
- 29 Missouri below Canyon Ferry 0.2
- 30 Smith 1.3
- 31 Sun -0.7
- 32 Teton 0.4
- 33 Birch/Dupuyer Creeks -2.5
- 34 Marias 0.7
- 35 Musselshell 0.0
- 36 Missouri above Fort Peck 0.7
- 37 Missouri below Fort Peck -1.2
- 38 Milk 1.1
- 39 Dearborn near Craig -1.0
- 40 Yellowstone above Livingston 0.0
- 41 Shields -1.7
- 42 Boulder (Yellowstone) -0.8
- 43 Stillwater -2.0
- 44 Rock/Red Lodge Creeks -2.2
- 45 Clarks Fork Yellowstone -0.9
- 46 Yellowstone above Bighorn River -0.5
- 47 Bighorn below Bighorn Lake -0.9
- 48 Little Bighorn -2.7
- 49 Yellowstone below Bighorn -0.7
- 50 Tongue -1.9
- 51 Powder -0.4
- 52 Upper Judith 0.2
- 53 Saint Mary 1.2



February 7, 2013

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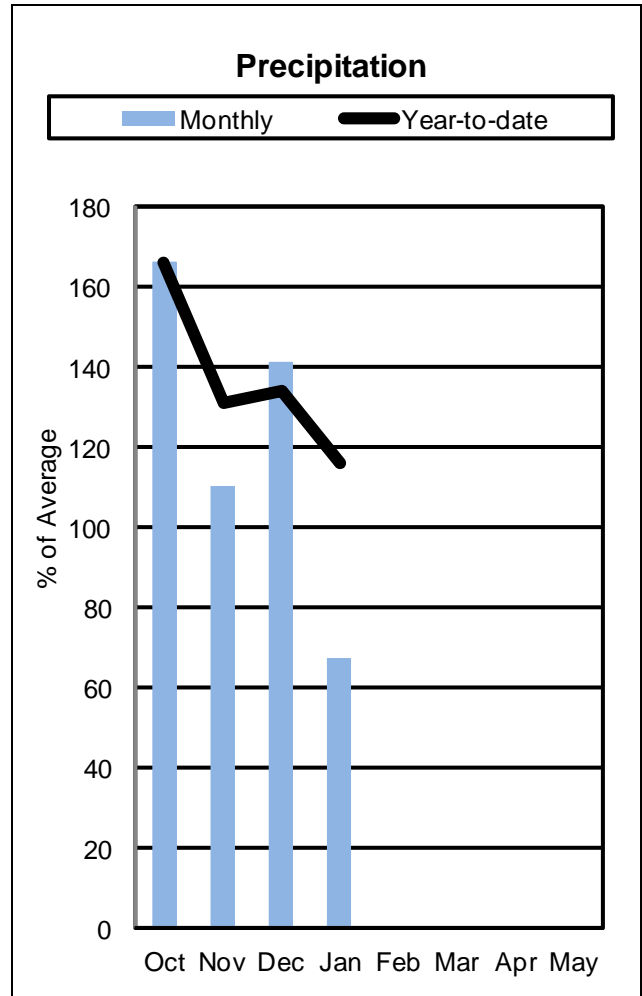
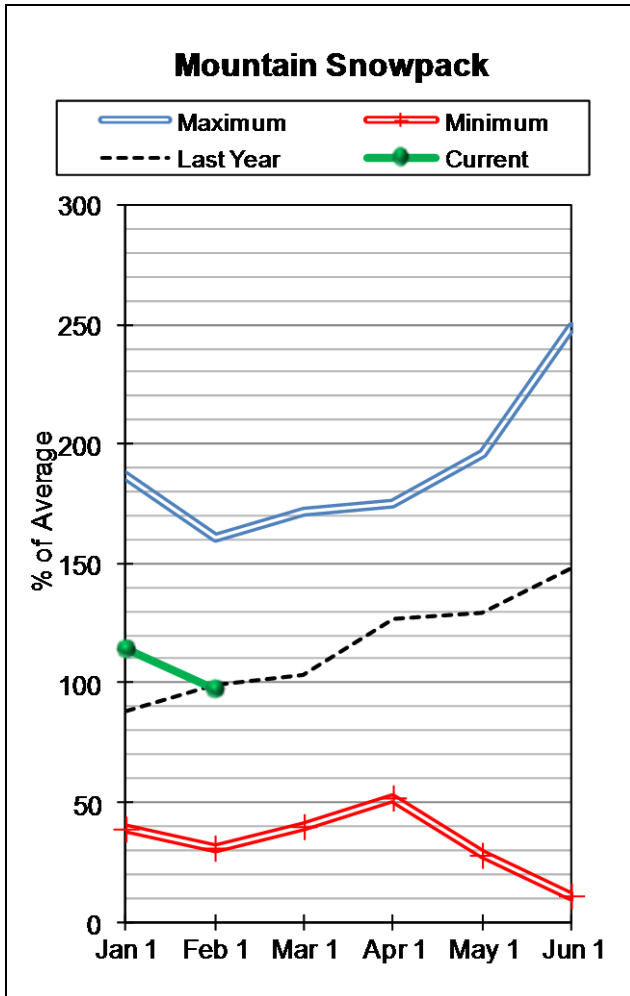
B A S I N S U M M A R Y O F
S N O W C O U R S E D A T A

FEBRUARY 2013

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	MEDIAN 81-10
ALBRO LAKE SNOTEL	8300	2/01/13	37	10.4	9.1	11.0
ASHLEY DIVIDE	4820	1/31/13	16	3.2	4.4	4.5
BADGER PASS SNOTEL	6900	2/01/13	71	19.7	24.6	19.5
BANFIELD MTN SNOTEL	5600	2/01/13	43	12.5	13.1	12.1
BARKER LAKES SNOTEL	8250	2/01/13	37	8.9	6.8	8.0
BASIN CREEK SNOTEL	7180	2/01/13	24	4.2	3.5	4.5
BEAGLE SPGS SNOTEL	8850	2/01/13	27	5.4	3.9	5.2
BEAVER CREEK SNOTEL	7850	2/01/13	53	13.2	7.5	11.5
BISSON CREEK SNOTEL	4920	2/01/13	20	4.7	6.3	6.3
BLACK BEAR SNOTEL	7950	2/01/13	92	26.4	22.8	23.3
BLACK PINE SNOTEL	7100	2/01/13	31	6.2	8.3	6.2
BLACKTAIL	5650	1/31/13	28	7.5	8.0	8.8
BLACKTAIL MTN SNOTEL	5650	2/01/13	31	7.6	8.6	--
BLOODY DICK SNOTEL	7550	2/01/13	36	8.3	7.1	7.6
BOULDER MTN SNOTEL	7950	2/01/13	50	12.8	13.4	12.6
BOX CANYON SNOTEL	6700	2/01/13	22	4.7	5.6	5.8
BRACKETT CR SNOTEL	7320	2/01/13	46	11.9	7.2	11.4
BURNT MTN SNOTEL	5880	2/01/13	13	2.4	4.6	2.4
CALVERT CR SNOTEL	6430	2/01/13	25	5.5	8.4	5.5
CARROT BASIN SNOTEL	9000	2/01/13	67	18.6	13.2	16.7
CHICKEN CREEK	4060	1/29/13	37	8.9	8.2	10.8
CLOVER MDW SNOTEL	8800	2/01/13	41	8.5	8.2	10.3
COLE CREEK SNOTEL	7850	2/01/13	23	5.6	10.4	8.4
COMBINATION SNOTEL	5600	2/01/13	15	3.4	3.8	3.0
COPPER BOTTOM SNOTEL	5200	2/01/13	12	2.9	6.4	--
COPPER CAMP SNOTEL	6950	2/01/13	72	26.7	38.2	--
COPPER MOUNTAIN	7700	1/26/13	24	5.6	5.0	6.2
COYOTE HILL	4200	2/01/13	23	4.8	6.6	6.0
CRYSTAL LAKE SNOTEL	6050	2/01/13	34	6.4	7.3	7.4
DAISY PEAK SNOTEL	7600	2/01/13	25	5.4	5.9	5.9
DALY CREEK SNOTEL	5780	2/01/13	30	7.0	7.8	6.6
DARKHORSE LK. SNOTEL	8700	2/01/13	74	20.1	15.1	17.6
DEADMAN CR SNOTEL	6450	2/01/13	28	6.1	6.5	6.5
DISCOVERY BASIN	7050	1/30/13	32	5.4	6.4	5.9
DIVIDE SNOTEL	7800	2/01/13	31	7.0	4.6	6.2
DIX HILL	6400	1/25/13	18	4.9	9.9	6.6
DUPUYER CREEK SNOTEL	5750	2/01/13	12	2.1	5.1	5.0
EMERY CREEK SNOTEL	4350	2/01/13	---	9.2	7.8	9.5
FISH CREEK	8000	1/31/13	31	6.1	4.6	5.5
FISHER CREEK SNOTEL	9100	2/01/13	82	23.3	22.8	20.6
FLATTOP MTN SNOTEL	6300	2/01/13	107	32.1	28.8	28.5
FROHNER MDWS SNOTEL	6480	2/01/13	19	4.5	6.8	4.5
GARVER CREEK SNOTEL	4250	2/01/13	27	6.6	9.0	6.8
GRAVE CRK SNOTEL	4300	2/01/13	39	9.4	9.9	10.9
HAND CREEK SNOTEL	5030	2/01/13	26	5.9	6.8	7.7
HAWKINS LAKE SNOTEL	6450	2/01/13	59	19.2	21.8	16.1
HEBGEN DAM	6550	2/01/13	27	6.0	5.0	6.8
HELL ROARING DIVIDE	5770	1/28/13	61	19.4	17.4	19.9
HERRIG JUNCTION	4850	1/29/13	54	14.3	13.2	17.6
HOLBROOK	4530	1/30/13	20	3.5	5.5	6.0
HOODOO BASIN SNOTEL	6050	2/01/13	93	24.9	29.5	26.3
KRAFT CREEK SNOTEL	4750	2/01/13	30	6.8	9.4	--
LAKEVIEW RDG. SNOTEL	7400	2/01/13	27	7.8	3.7	6.5
LEMHI RIDGE SNOTEL	8100	2/01/13	32	6.1	5.0	6.4
LICK CREEK SNOTEL	6860	2/01/13	27	5.3	7.2	5.9
LONE MOUNTAIN SNOTEL	8880	2/01/13	48	11.6	9.5	11.2
LOWER TWIN SNOTEL	7900	2/01/13	42	10.8	9.2	11.0

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
LUBRECHT SNOTEL	4680	2/01/13	12	3.0	6.5	3.8
LUBRECHT FOREST NO 3	5450	1/31/13	14	2.5	4.2	3.2
LUBRECHT FOREST NO 4	4650	1/31/13	8	1.4	2.8	1.8
LUBRECHT FOREST NO 6	4040	1/31/13	13	2.6	5.0	2.0
LUBRECHT HYDROPLOT	4200	2/01/13	11	2.2	5.7	3.2
MADISON PLT SNOTEL	7750	2/01/13	60	15.8	13.5	14.1
MANY GLACIER SNOTEL	4900	2/01/13	26	6.8	11.2	9.5
MARIAS PASS	5250	1/29/13	35	9.8	11.3	10.6
MONUMENT PK SNOTEL	8850	2/01/13	58	14.7	10.2	12.0
MOSS PEAK SNOTEL	6780	2/01/13	78	22.9	21.7	21.7
MOULTON RESERVOIR	6850	1/30/13	34	4.9	3.8	4.2
MT LOCKHART SNOTEL	6400	2/01/13	41	11.4	16.9	12.2
MULE CREEK SNOTEL	8300	2/01/13	40	10.1	7.9	8.8
N.E. ENTRANCE SNOTEL	7350	2/01/13	26	5.0	6.0	6.4
NEVADA RIDGE SNOTEL	7020	2/01/13	32	7.6	12.8	8.6
NEW WORLD	6900	2/01/13	---	7.3	--	7.8
NEZ PERCE CMP SNOTEL	5650	2/01/13	36	7.8	9.4	8.6
N.F. ELK CR SNOTEL	6250	2/01/13	28	6.2	8.8	6.7
NF JOCKO SNOTEL	6330	2/01/13	87	24.0	21.6	27.1
NOISY BASIN SNOTEL	6040	2/01/13	89	27.8	16.9	25.4
OPHIR PARK	7150	1/25/13	25	6.8	11.3	8.7
PETERSON MDW SNOTEL	7200	2/01/13	30	6.2	5.8	5.5
PICKFOOT CRK SNOTEL	6650	2/01/13	32	7.1	8.0	6.5
PIKE CREEK SNOTEL	5930	2/01/13	30	5.4	8.7	16.0
PIPESTONE PASS	7200	1/26/13	14	2.8	2.2	2.4
PLACER BASIN SNOTEL	8830	2/01/13	50	10.6	10.8	10.5
POORMAN CR SNOTEL	5100	2/01/13	73	22.9	27.4	23.4
PORCUPINE SNOTEL	6500	2/01/13	15	2.6	3.3	4.1
ROCKER PEAK SNOTEL	8000	2/01/13	31	6.7	9.0	8.2
ROCKY BOY SNOTEL	4700	2/01/13	19	3.4	1.7	3.2
SACAJAWEA SNOTEL	6550	2/01/13	39	8.3	4.8	8.9
SADDLE MTN SNOTEL	7900	2/01/13	51	14.1	16.2	15.8
S.F. SHIELDS SNOTEL	8100	2/01/13	31	6.6	7.0	9.2
SHORT CREEK SNOTEL	7000	2/01/13	17	4.1	3.5	3.6
SHOWER FALLS SNOTEL	8100	2/01/13	58	11.4	11.5	12.1
SKALKAHO SNOTEL	7260	2/01/13	50	12.7	15.7	14.0
SLEEPING WOMAN SNTL	6150	2/01/13	36	8.3	12.1	9.6
SPOTTED BEAR MTN.	7000	1/31/13	28	7.0	9.4	8.7
SPUR PARK SNOTEL	8100	2/01/13	52	13.7	14.8	12.8
STAHL PEAK SNOTEL	6030	2/01/13	76	20.0	19.2	22.1
STORM LAKE	7780	1/30/13	36	7.0	7.8	7.4
STRYKER BASIN	6180	1/29/13	65	19.2	14.7	19.6
STUART MOUNTAIN SNTL	7400	2/01/13	70	20.5	21.3	20.4
TEN MILE LOWER	6600	2/01/13	24	5.2	5.8	4.0
TEN MILE MIDDLE	6800	2/01/13	27	5.8	7.0	6.0
TEPEE CREEK SNOTEL	8000	2/01/13	38	9.0	6.4	8.5
TIZER BASIN SNOTEL	6840	2/01/13	25	5.5	6.6	6.0
TRINKUS LAKE	6100	2/02/13	85	25.7	23.7	25.2
TRUMAN CREEK	4060	1/31/13	11	3.2	4.4	2.9
TWELVEMILE SNOTEL	5600	2/01/13	38	9.1	15.1	11.0
TWENTY-ONE MILE	7150	2/01/13	47	13.0	9.0	10.0
TWIN LAKES SNOTEL	6400	2/01/13	72	19.8	25.8	24.9
UPPER HOLLAND LAKE	6200	2/02/13	65	17.6	19.1	20.6
WALDRON SNOTEL	5600	2/01/13	25	5.6	10.0	6.6
WARM SPRINGS SNOTEL	7800	2/01/13	46	10.9	13.6	12.3
WEASEL DIVIDE	5450	1/30/13	64	18.9	20.2	20.6
WEST YELL 'ST SNOTEL	6700	2/01/13	27	6.4	7.0	7.0
WHISKEY CREEK SNOTEL	6800	2/01/13	38	7.8	9.3	9.6
WHITE MILL SNOTEL	8700	2/01/13	59	14.8	14.0	14.6
WOOD CREEK SNOTEL	5960	2/01/13	22	4.7	6.8	5.8

Kootenai River Basin in Montana



Snowpack conditions in the Kootenai River Basin as of February 1 were near normal. Snow water content was 97 percent of median and 92 percent of last year.

Mountain precipitation according to SNOTEL stations during January was 67 percent of average and 63 percent of last year. Water year precipitation, beginning October 1, 2012, was 116 percent of average and 117 percent of last year.

Lake Koocanusa storage at the end of January was 112 percent of average and 86 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 102 percent.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		30%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Tobacco R nr Eureka	APR-JUL	97	114	125	99	136	153	126
	APR-SEP	106	125	138	99	151	170	140
Libby Reservoir Inflow (1,2)	APR-JUL	4480	5110	5390	101	5670	6300	5340
	APR-SEP	5420	6000	6270	100	6540	7120	6250
Fisher River nr Libby	APR-JUL	128	171	200	98	230	270	205
	APR-SEP	140	185	215	98	245	290	220
Yaak River nr Troy	APR-JUL	365	425	465	111	505	565	420
	APR-SEP	385	445	485	110	525	585	440
Kootenai R at Leonia (1,2)	APR-JUL	5430	6270	6650	101	7030	7870	6600
	APR-SEP	6430	7230	7600	100	7970	8770	7590

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000 AF) - End of January

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - February 1, 2013

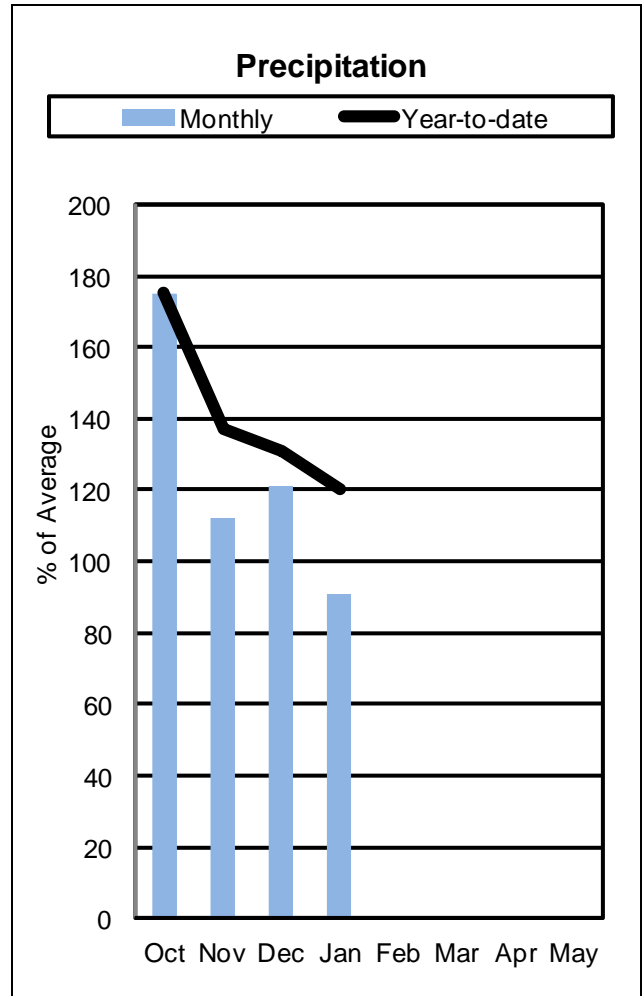
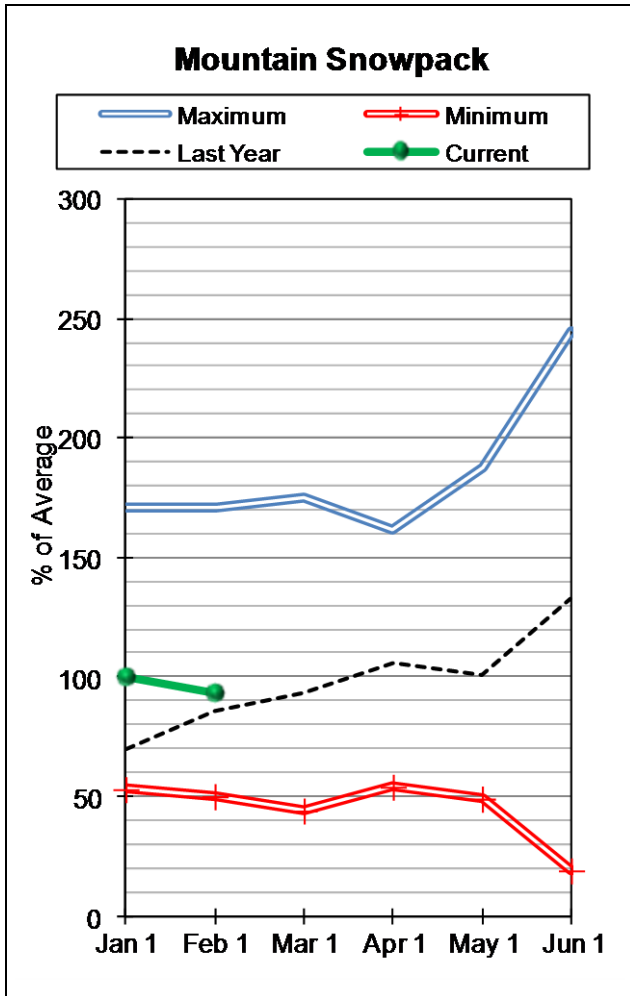
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Median
LAKE KOOCANUSA	5748.0	3219.0	3723.0	2865.0	KOOTENAY in CANADA	2	80	94
					KOOTENAI MAINTSTEM	3	92	99
					TOBACCO	3	98	90
					FISHER	1	87	77
					YAAK	2	84	113
					KOOTENAI in MONTANA	9	92	97
					KOOTENAI ab BONNERS FERRY	11	90	96

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1981-2010 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Flathead River Basin



Snowpack conditions in the Flathead River Basin were near normal on February 1. Snow water content was 93 percent of median and 99 percent of last year.

Mountain precipitation during January was 91 percent of average and 78 percent of last year. Water year precipitation, beginning October 1, 2012, was 120 percent of average and 118 percent of last year.

Hungry Horse Reservoir storage at the end of January was 125 percent of average and 103 percent of last year. Flathead Lake storage at the end of January was 101 percent of average and 103 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 103 percent.

FLATHEAD RIVER BASIN
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>					30-Yr Avg. (1000AF)					
		90% (1000AF)		70% (1000AF)		Chance Of Exceeding * 50% (1000AF) (% AVG.)		30% (1000AF)		10% (1000AF)		
NF Flathead R nr Columbia Falls	APR-JUL	1370	1520	1620	105	1720	1870	1540				
	APR-SEP	1530	1690	1790	105	1890	2050	1700				
MF Flathead R nr West Glacier	APR-JUL	1370	1540	1650	110	1760	1930	1500				
	APR-SEP	1500	1670	1790	110	1910	2080	1630				
SF Flathead R nr Hungry Horse	APR-JUL	1060	1190	1280	109	1370	1500	1180				
	APR-SEP	1130	1270	1360	108	1450	1590	1260				
Hungry Horse Reservoir Inflow (1,2)	APR-JUL	1630	1900	2030	109	2160	2430	1860				
	APR-SEP	1740	2030	2160	109	2290	2580	1980				
Flathead R at Columbia Falls (2)	APR-JUL	4620	5090	5400	108	5710	6180	5020				
	APR-SEP	5050	5530	5860	108	6190	6670	5450				
Ashley Ck nr Marion (2)	APR-JUL	4.2	5.6	6.6	102	7.6	9.0	6.5				
	MARCH	0.5	1.0	1.3	108	1.6	2.1	1.2				
Swan R nr Bigfork	APR-JUL	430	485	525	101	565	620	520				
	APR-SEP	495	555	600	101	645	705	595				
Flathead Lake Inflow (1,2)	APR-JUL	5030	5870	6250	108	6630	7470	5810				
	APR-SEP	5450	6340	6750	108	7160	8050	6270				
Mill Ck ab Bassoo Ck nr Niarada	APR-JUL	2.2	3.2	3.9	98	4.6	5.6	4.0				
	APR-SEP	2.6	3.6	4.3	98	5.0	6.0	4.4				
South Crow Ck nr Ronan	APR-JUL	7.6	9.0	10.0	99	11.0	12.4	10.1				
	APR-SEP	8.7	10.3	11.4	98	12.5	14.1	11.6				
Mission Ck nr St. Ignatius	APR-JUL	21	23	25	100	27	29	25				
	APR-SEP	25	28	30	100	32	35	30				
Sf Jocko R nr Arlee	APR-JUL	24	29	32	97	35	40	33				
	APR-SEP	27	32	36	97	40	45	37				
NF Jocko R bl Tabor Feeder Canal	APR-JUL	25	28	30	97	32	35	31				
	APR-SEP	27	30	32	97	34	37	33				

FLATHEAD RIVER BASIN Reservoir Storage (1000 AF) - End of January					FLATHEAD RIVER BASIN Watershed Snowpack Analysis - February 1, 2013			
Reservoir	Usable Capacity	*** Usable Storage This Year	Last Year	*** Avg	Watershed	Number of Data Sites	This Year as % of Last Yr	% of Median
CAMAS (4)	45.2	26.9	26.0	18.2	NF FLATHEAD in CANADA	0	0	0
LOWER JOCKO LAKE	6.4	0.0	0.0	0.0	NF FLATHEAD in MONTANA	7	101	94
MISSION VALLEY (8)	100.0	21.9	32.0	30.9	MIDDLE FORK FLATHEAD	5	94	90
HUNGRY HORSE	3451.0	2973.3	2896.0	2375.0	SOUTH FORK FLATHEAD	6	110	95
FLATHEAD LAKE	1791.0	966.5	933.9	955.6	STILLWATER-WHITEFISH	6	110	89
					SWAN	5	111	98
					MISSION VALLEY	3	97	95
					LITTLE BITTERROOT-ASHLEY	3	83	86
					JOCKO	3	96	92
FLATHEAD in MONTANA	27	99	91					
FLATHEAD RIVER BASIN	27	99	91					

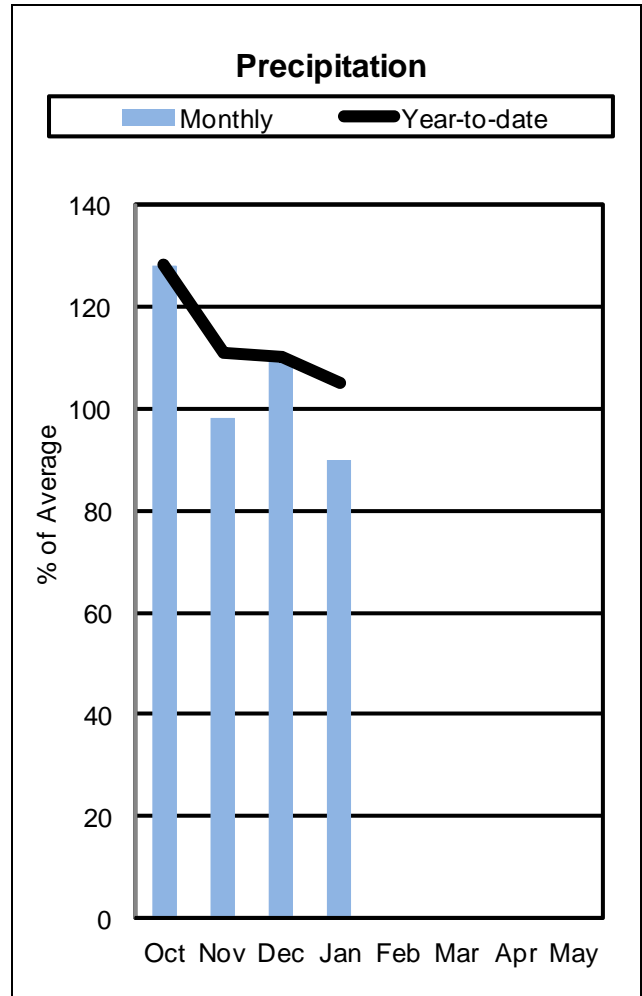
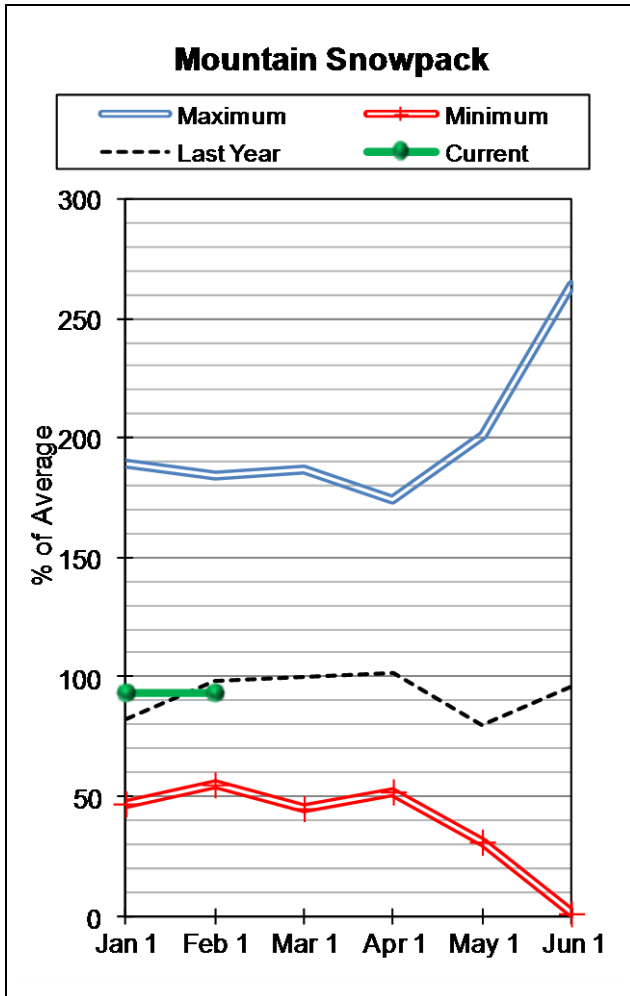
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1981-2010 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

(2) - The value is natural volume - actual volume may be affected by upstream water management.

Upper Clark Fork River Basin



Snowpack conditions in the Upper Clark Fork River Basin were near normal on February 1. Snow water content was 93 percent of median and 81 percent of last year.

Mountain precipitation according to SNOTEL stations during January was 90 percent of average and 70 percent of last year. Water year precipitation, beginning October 1, 2012, was 105 percent of average and 96 percent of last year.

East Fork Rock Creek storage was 123 percent of average and 83 percent of last year; and Nevada Creek storage was 96 percent of average and 67 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 97 percent.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>					30-Yr Avg. (1000AF)					
		90% (1000AF)		70% (1000AF)		Chance Of Exceeding * 50% (% AVG.)		30% (1000AF)		10% (1000AF)		
Little Blackfoot R nr Garrison	APR-JUL	36	54	66	94	78	96	70				
	APR-SEP	41	60	73	95	86	105	77				
Flint Ck nr Southern Cross	APR-JUL	6.2	10.1	12.7	102	15.3	19.2	12.4				
	APR-SEP	6.8	11.7	15.0	103	18.3	23	14.6				
Flint Ck bl Boulder Ck	APR-JUL	28	43	53	102	63	78	52				
	APR-SEP	38	56	68	103	80	98	66				
Lower Willow Ck Reservoir Inflow (2)	APR-MAY	4.0	6.4	8.0	110	9.6	12.0	7.3				
	APR-JUL	5.8	9.5	12.0	113	14.5	18.2	10.6				
MF Rock Ck nr Philipsburg	APR-JUL	40	50	57	98	64	74	58				
	APR-SEP	46	57	64	99	71	82	65				
Rock Ck nr Clinton	APR-JUL	159	210	245	98	280	330	250				
	APR-SEP	182	235	275	98	315	370	280				
Clark Fork R ab Milltown	APR-JUL	270	415	515	97	615	760	530				
	APR-SEP	335	495	605	98	715	875	615				
Nevada Ck nr Helmville	APR-MAY	1.4	4.7	6.9	82	9.1	12.4	8.4				
	APR-JUL	2.7	8.1	11.7	82	15.3	21	14.2				
Blackfoot R nr Bonner	APR-JUL	440	560	640	89	720	840	720				
	APR-SEP	500	630	715	89	800	930	800				
Clark Fork R ab Missoula	APR-JUL	750	1000	1170	94	1340	1590	1250				
	APR-SEP	890	1160	1340	94	1520	1790	1420				

UPPER CLARK FORK RIVER BASIN
Reservoir Storage (1000 AF) - End of January

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - February 1, 2013

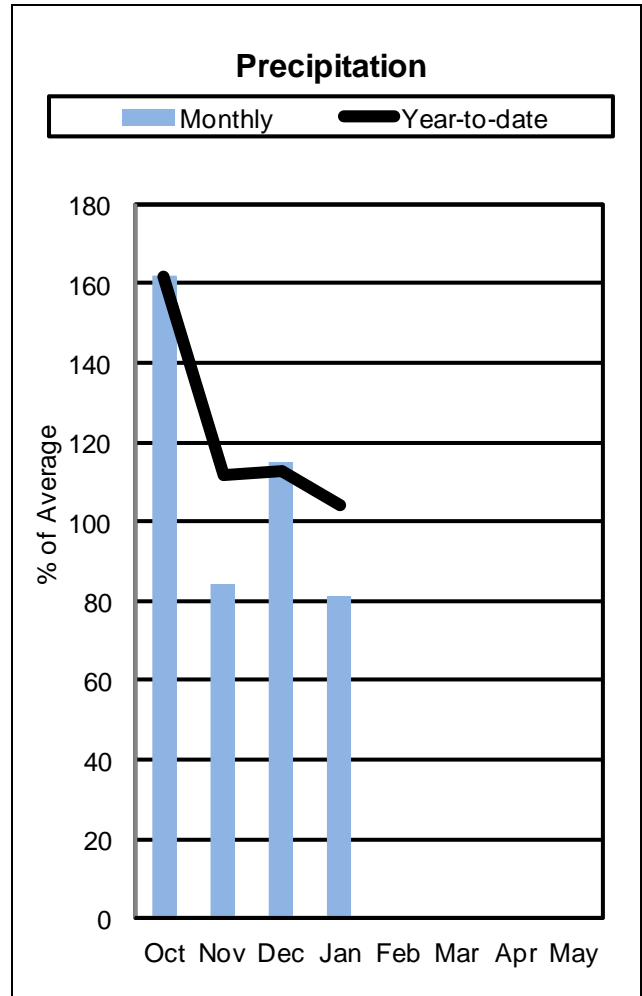
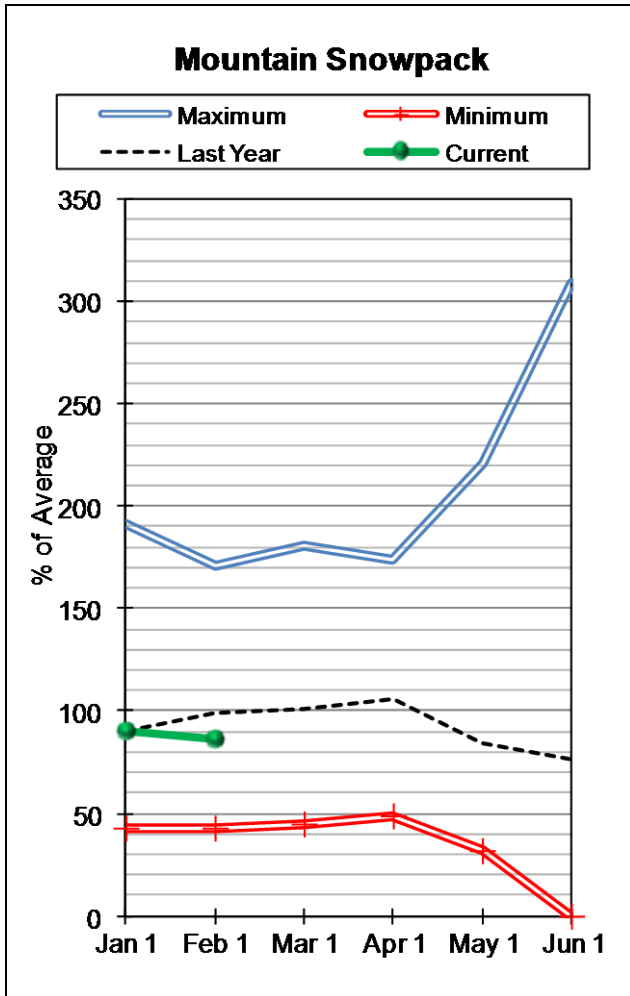
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Median
EAST FORK ROCK CREEK	15.6	9.2	11.1	7.5	CLARK FORK ab FLINT CREEK	10	79	93
GEORGETOWN LAKE		NO REPORT			FLINT CREEK	5	88	101
LOWER WILLOW CREEK		NO REPORT			ROCK CREEK	3	88	96
NEVADA CREEK	12.6	4.8	7.2	5.0	CLARK FORK ab BLACKFOOT	15	82	95
					BLACKFOOT	12	72	88
					UPPER CLARK FORK BASIN	25	79	93

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1981-2010 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Bitterroot River Basin



Snowpack conditions in the Bitterroot River Basin were below normal on February 1. Snow water content was 86 percent of median and 77 percent of last year.

Mountain precipitation according to SNOTEL stations during January was 81 percent of average and 60 percent of last year. Water year precipitation, beginning October 1, 2012, was 104 percent of average and 92 percent of last year.

Como storage was 115 percent of average and 124 percent of last year.

Assuming near average precipitation, April through July streamflows are forecast to average 88 percent.

BITTERROOT RIVER BASIN
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		10%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
WF Bitterroot R nr Conner (2)	APR-JUL	61	90	109	85	128	157	128
	APR-SEP	66	98	120	86	142	174	139
Bitterroot R nr Darby	APR-JUL	210	295	355	87	415	500	410
	APR-SEP	270	355	415	88	475	560	470
Como Reservoir Inflow (2)	APR-JUL	58	65	70	92	75	82	76
	APR-SEP	61	68	73	92	78	85	79
Bitterroot R nr Missoula	APR-JUL	710	890	1010	88	1130	1310	1150
	APR-SEP	790	980	1110	89	1240	1430	1250

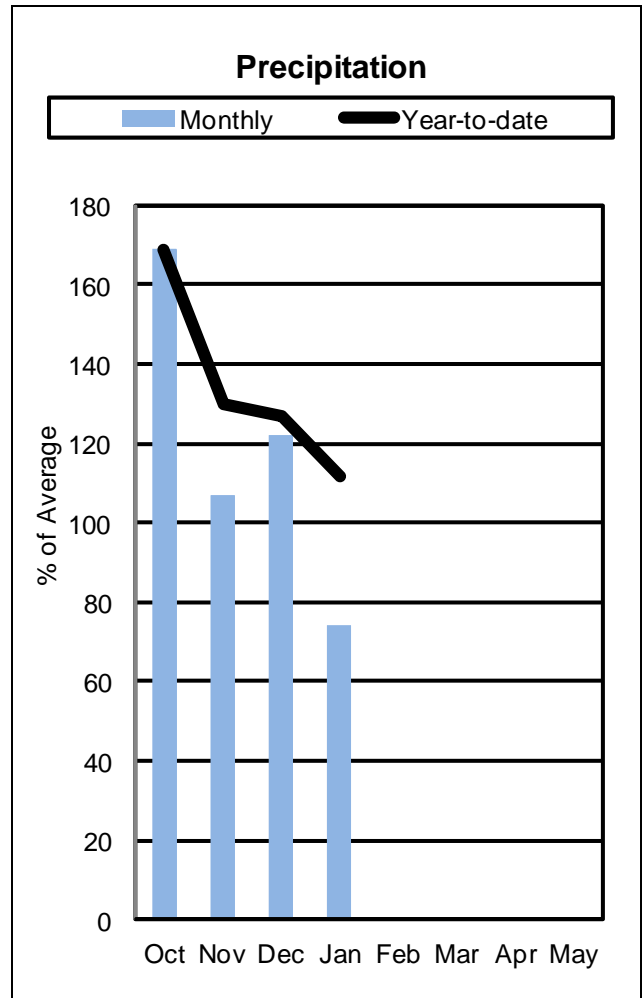
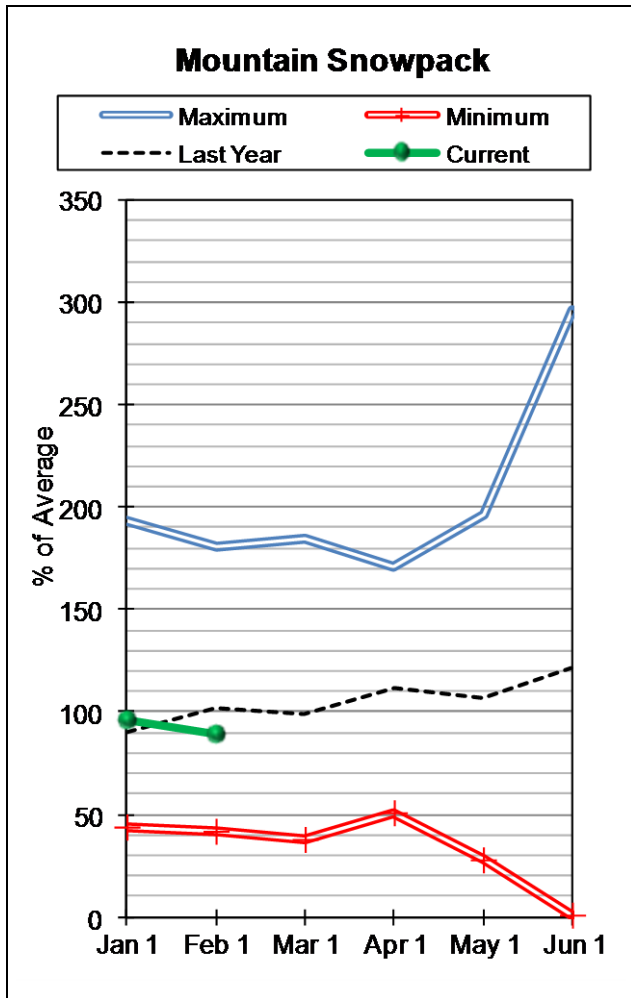
BITTERROOT RIVER BASIN Reservoir Storage (1000 AF) - End of January					BITTERROOT RIVER BASIN Watershed Snowpack Analysis - February 1, 2013			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Median
PAINTED ROCKS LAKE		NO REPORT			WEST FORK BITTERROOT	2	86	90
COMO	34.9	12.6	10.2	11.0	EAST SIDE BITTERROOT	3	85	93
					WEST SIDE BITTERROOT	3	71	80
					BITTERROOT RIVER BASIN	7	77	86

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1981-2010 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Lower Clark Fork River Basin



Snowpack conditions in the Lower Clark Fork River Basin were below above normal on February 1. Snow water content was 89 percent of median and 80 percent of last year.

Mountain precipitation according to SNOTEL stations during January was 74 percent of average and 67 percent of last year. Water year precipitation, beginning October 1, 2012, was 112 percent of average and 114 percent of last year.

Storage at the end of January in Noxon Rapids was 100 percent of average and 100 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 90 percent.

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LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - February 1, 2013

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Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>				30-Yr Avg. (1000AF)		
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (1000AF) (% AVG.)			30% (1000AF)	10% (1000AF)
Clark Fork R bl Missoula	APR-JUL	1470	1880	2160	90	2440	2850	2400
	APR-SEP	1690	2130	2430	91	2730	3170	2670
Clark Fork R at St. Regis (1)	APR-JUL	1800	2530	2860	91	3190	3920	3160
	APR-SEP	2100	2870	3220	92	3570	4340	3510
Clark Fork R nr Plains (1,2)	APR-JUL	7130	8700	9420	102	10100	11700	9200
	APR-SEP	7870	9540	10300	102	11100	12700	10100
Thompson R nr Thompson Falls	APR-JUL	81	118	143	79	168	205	181
Thompson R Nr Thompson Falls	APR-SEP	96	136	163	80	190	230	205
Prospect Ck at Thompson Falls	APR-JUL	52	69	80	78	91	108	102
	APR-SEP	57	74	86	78	98	115	110
Clark Fork at Whitehorse Rpds (1,2)	APR-JUL	8103	9820	10600	101	11380	13097	10500
	APR-SEP	9052	10873	11700	102	12527	14348	11500

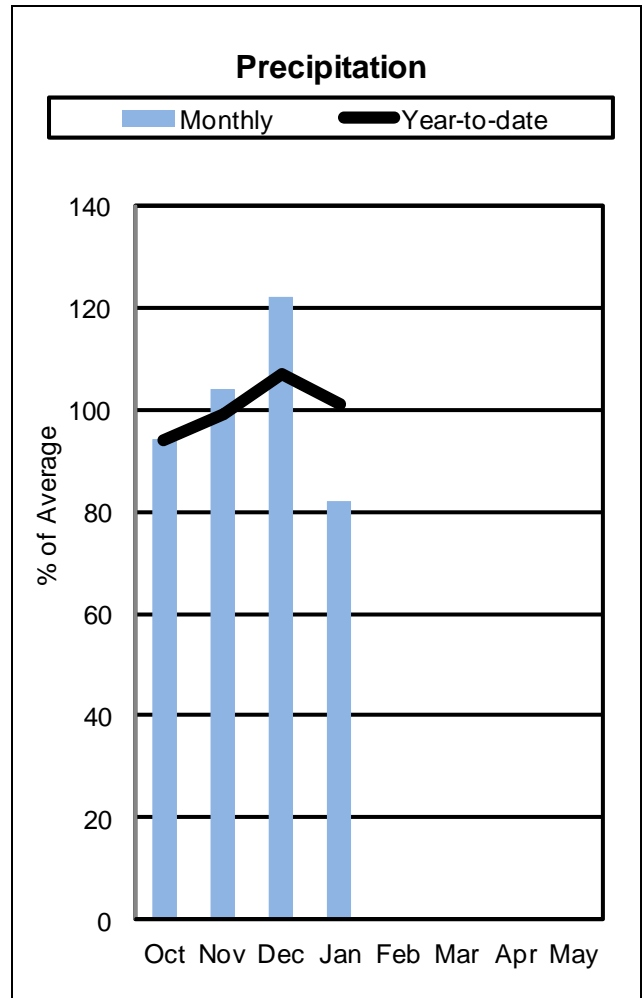
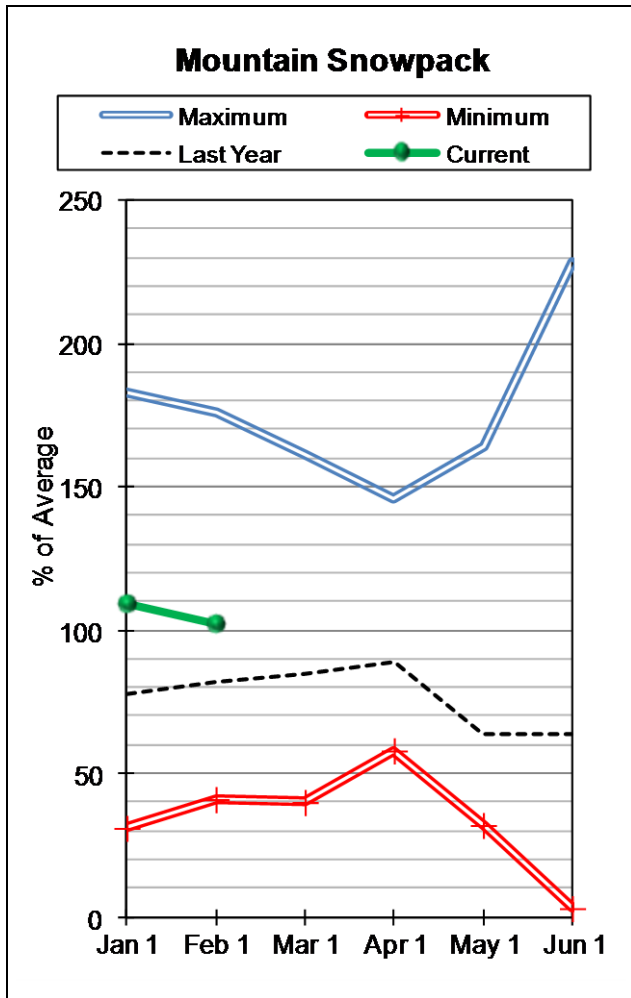
LOWER CLARK FORK RIVER BASIN Reservoir Storage (1000 AF) - End of January					LOWER CLARK FORK RIVER BASIN Watershed Snowpack Analysis - February 1, 2013			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Median
NOXON RAPIDS	335.0	316.5	316.2	315.0	LOWER CLARK FORK BASIN	7	86	89

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1981-2010 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Jefferson River Basin



Snowpack conditions in the Jefferson River Basin were near normal on February 1. Snow water content was 102 percent of median and 111 percent of last year.

Mountain precipitation according to SNOTEL stations during January was 82 percent of average and 77 percent of last year. Water year precipitation, beginning October 1, 2012, was 101 percent of average and 104 percent of last year.

Lima storage was 133 percent of average and 81 percent of last year; Clark Canyon storage was 96 percent of average and 72 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 92 percent.

JEFFERSON RIVER BASIN
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		30%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Lima Reservoir Inflow (2)	APR-JUL	51	71	84	102	97	117	82
	APR-SEP	53	75	91	102	107	129	89
Clark Canyon Reservoir Inflow (2)	APR-JUL	14.0	66	101	100	136	188	101
	APR-SEP	26	83	121	101	159	215	120
Beaverhead R at Barretts (2)	APR-JUL	12.0	85	135	105	185	260	129
	APR-SEP	17.0	103	161	103	220	305	156
Ruby R Reservoir Inflow (2)	APR-JUL	42	57	68	88	79	94	77
	APR-SEP	50	68	80	88	92	110	91
Big Hole R at Wisdom	APR-JUL	25	66	93	91	120	161	102
	APR-SEP	25	68	98	91	128	171	108
Big Hole R nr Melrose	APR-JUL	250	370	450	87	530	650	515
	APR-SEP	270	400	490	88	580	710	560
Jefferson R nr Twin Bridges (2)	APR-JUL	255	450	585	85	720	915	690
	APR-SEP	250	475	625	86	775	1000	730
Boulder R nr Boulder	APR-JUL	33	49	60	87	71	87	69
	APR-SEP	35	52	64	87	76	93	74
Willow Ck Reservoir Inflow (2)	APR-JUL	4.0	10.4	14.8	88	19.2	26	16.8
	APR-SEP	5.2	12.2	16.9	88	22	29	19.3
Jefferson R nr Three Forks (2)	APR-JUL	275	500	650	88	800	1030	740
	APR-SEP	275	525	695	87	865	1120	800

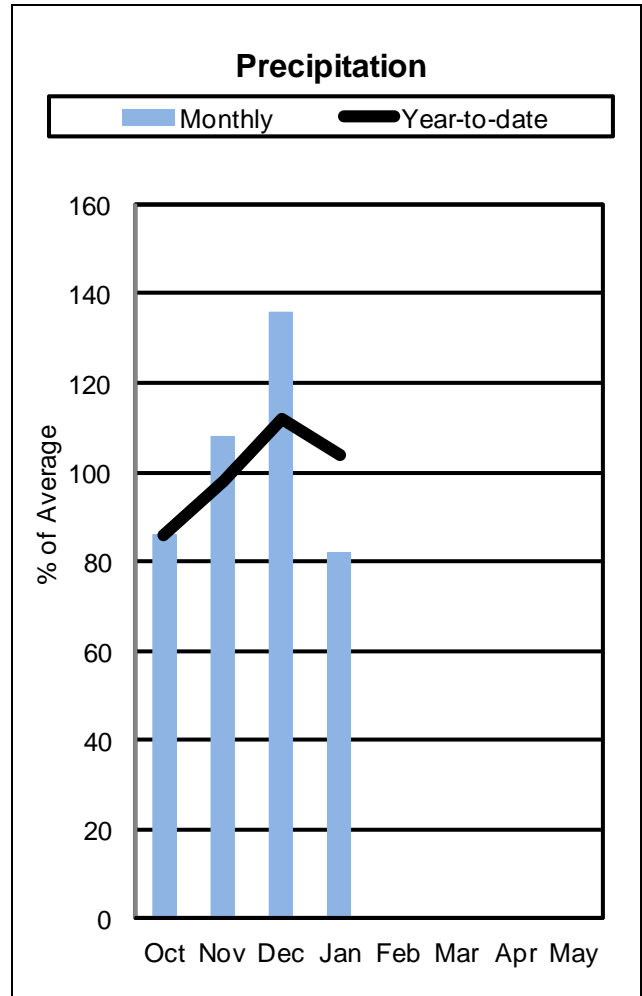
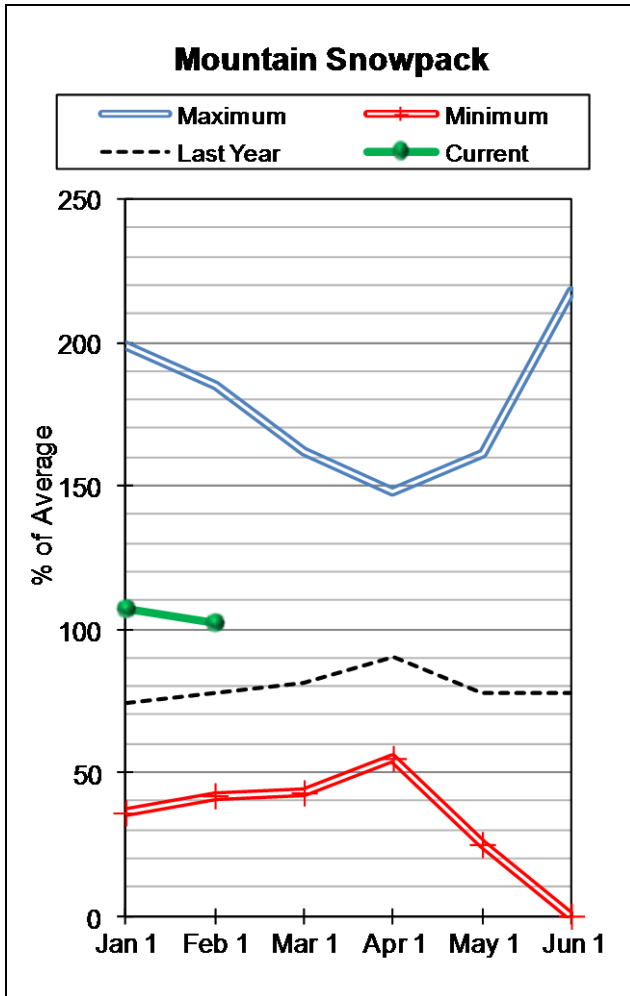
JEFFERSON RIVER BASIN Reservoir Storage (1000 AF) - End of January					JEFFERSON RIVER BASIN Watershed Snowpack Analysis - February 1, 2013			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Median
LIMA	84.0	38.9	48.2	29.3	BEAVERHEAD	8	139	115
CLARK CANYON	255.6	116.6	162.7	121.7	RUBY	5	118	97
RUBY RIVER		NO REPORT			BIGHOLE	10	105	101
					BOULDER	7	92	96
					JEFFERSON RIVER BASIN	25	111	102

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1981-2010 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Madison River Basin



Snowpack conditions in the Madison River Basin were near normal on February 1. Snow water content was 103 percent of median and 107 percent of last year.

Mountain precipitation according to SNOTEL stations during January was 82 percent of average and 88 percent of last year. Water year precipitation, beginning October 1, 2012, was 104 percent of average and 111 percent of last year.

Ennis Lake storage at the end of January was 92 percent of average and 95 percent of last year and Hebgen Lake storage was 108 percent of average and 98 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 96 percent.

MADISON RIVER BASIN
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		30%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Hebgen Reservoir Inflow (2)	APR-JUL	290	330	360	97	390	430	370
	APR-SEP	375	425	460	98	495	545	470
Ennis Reservoir Inflow (2)	APR-JUL	445	535	595	95	655	745	625
	APR-SEP	560	665	735	95	805	910	775

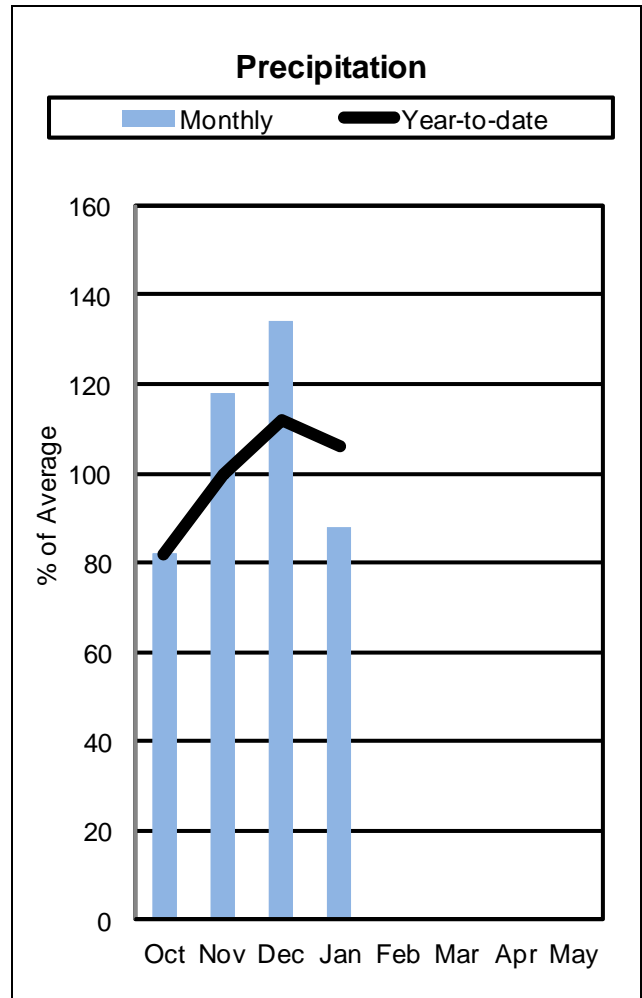
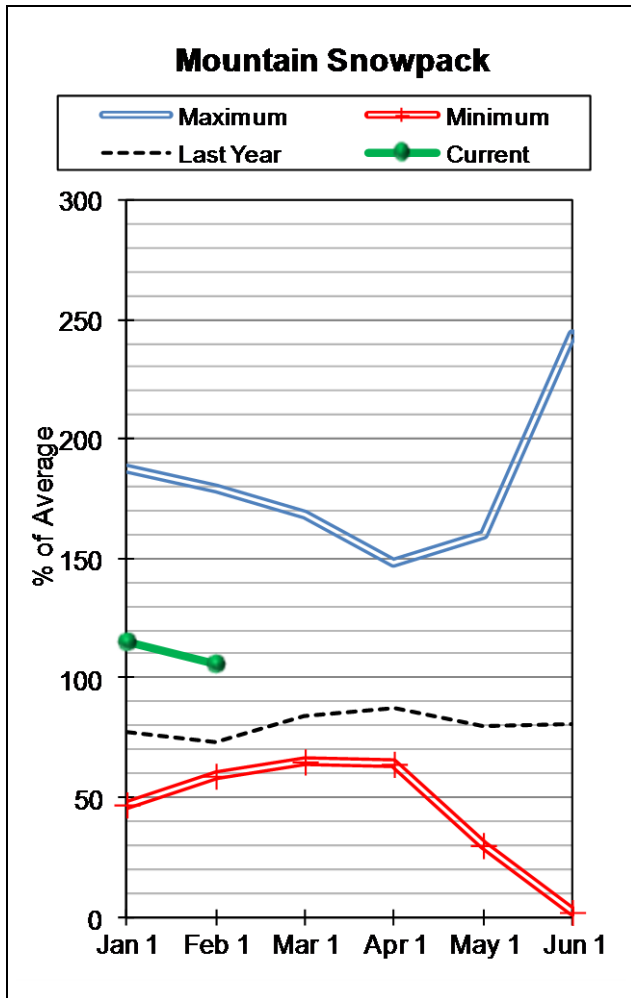
Reservoir	MADISON RIVER BASIN Reservoir Storage (1000 AF) - End of January				MADISON RIVER BASIN Watershed Snowpack Analysis - February 1, 2013			
	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Median
ENNIS LAKE	41.0	27.5	28.9	29.8	MADISON abv HEBGEN LAKE	6	107	103
HEBGEN LAKE	377.5	302.2	309.0	279.0	MADISON blw HEBGEN LAKE	8	129	101
					MADISON RIVER BASIN	14	118	102

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1981-2010 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Gallatin River Basin



Snowpack conditions in the Gallatin River Basin were near normal on February 1. Snow water content was 106 percent of median and 133 percent of last year.

Mountain precipitation according to SNOTEL stations during January was 88 percent of average and 131 percent of last year. Water year precipitation, beginning October 1, 2012, was 106 percent of average and 118 percent of last year.

Middle Creek storage was 98 percent of average and 102 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 96 percent.

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GALLATIN RIVER BASIN
Streamflow Forecasts - February 1, 2013

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Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>				30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
		Chance Of Exceeding *		Chance Of Exceeding *				
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)			
Gallatin R nr Gateway	APR-JUL	295	350	390	98	430	485	400
	APR-SEP	345	410	455	97	500	565	470
Hyalite Reservoir Inflow (2)	APR-JUL	15.2	17.5	19.0	95	21	23	20
	APR-SEP	18.1	20	22	96	24	26	23
Gallatin R at Logan	APR-JUL	250	350	420	96	490	590	440
	APR-SEP	295	410	485	96	560	675	505

GALLATIN RIVER BASIN Reservoir Storage (1000 AF) - End of January					GALLATIN RIVER BASIN Watershed Snowpack Analysis - February 1, 2013			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Median
MIDDLE CREEK	10.2	5.2	5.1	5.3	UPPER GALLATIN	4	144	114
					HYALITE	3	89	93
					BRIDGER	2	168	100
					GALLATIN RIVER BASIN	9	133	105

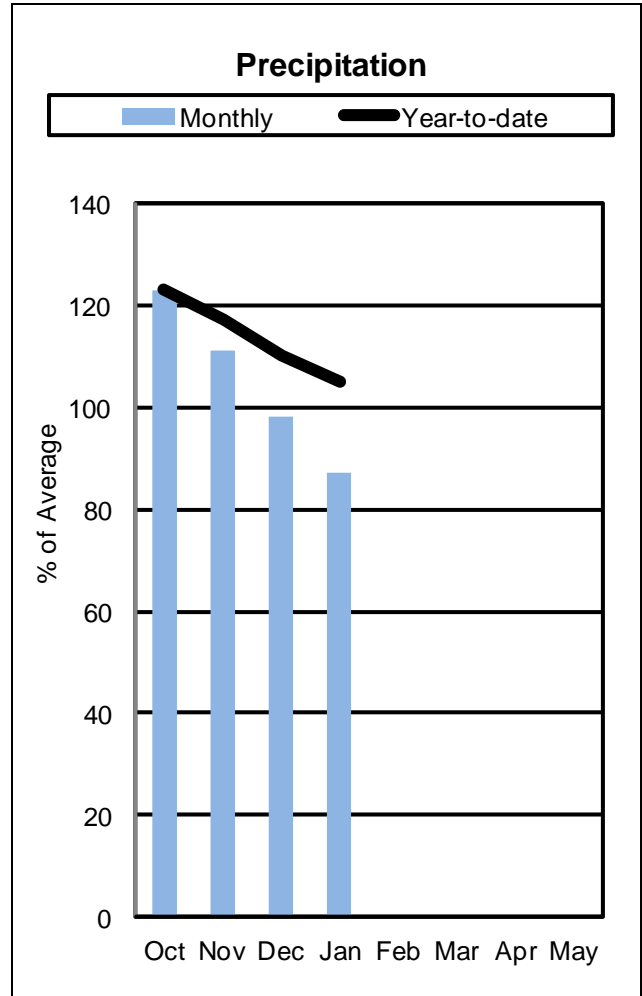
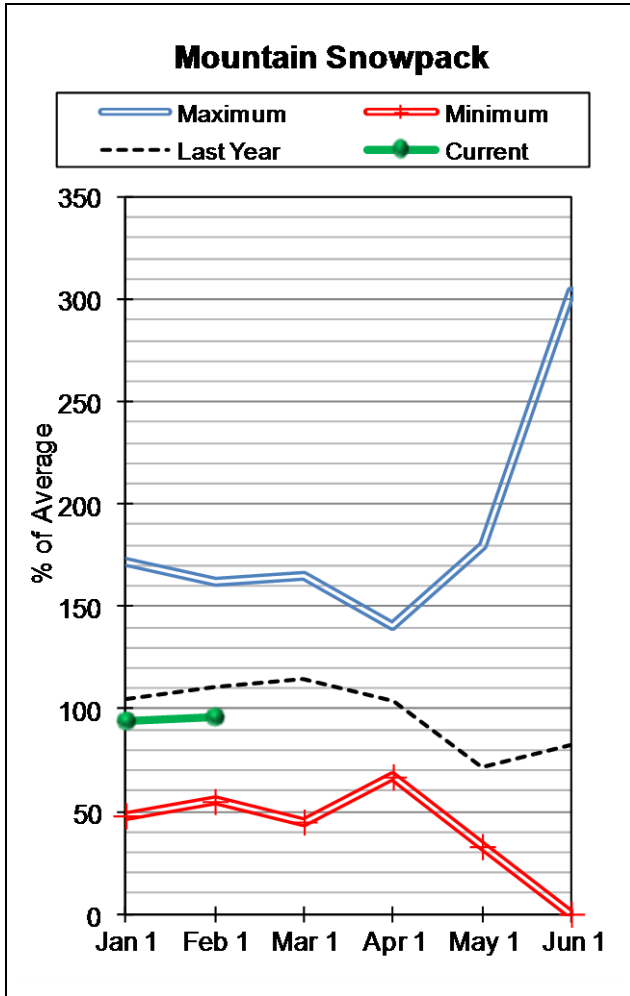
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* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1981-2010 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Missouri Mainstem River Basin



Snowpack conditions in the Headwaters Missouri Mainstem River Basin were near normal on February 1. Snow water content was 96 percent of median and 78 percent of last year.

Mountain precipitation according to SNOTEL stations during January was 87 percent of average and 63 percent of last year. Water year precipitation, beginning October 1, 2012, was 105 percent of average and 88 percent of last year.

Canyon Ferry Lake storage was 101 percent of average and 97 percent of last year; Helena Valley storage was 121 percent of average and 95 percent of last year; Lake Helena storage was 91 percent of average and 101 percent of last year; Hauser & Helena storage was 95 percent of average and 100 percent of last year; Holter Lake storage was 101 percent of average and 100 percent of last year; and Fort Peck Lake storage was 100 percent of average and 86 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 94 percent.

MISSOURI MAINSTEM RIVER BASIN
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<==== Drier =====		=====		====>> Wetter =====		
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
Missouri R at Toston (2)	APR-JUL	1050	1430	1690	94	1950	2330	1790
	APR-SEP	1180	1630	1940	94	2250	2700	2070
Dearborn R nr Craig	APR-JUL	39	66	84	94	102	129	89
	APR-SEP	43	72	91	96	110	139	95
Missouri R at Fort Benton (2)	APR-JUL	1530	2080	2450	94	2820	3370	2610
	APR-SEP	1790	2450	2900	93	3350	4010	3110
Missouri R nr Virgelle (2)	APR-JUL	1780	2390	2810	94	3230	3840	3000
	APR-SEP	2010	2750	3260	93	3770	4510	3520
Missouri R nr Landusky (2)	APR-JUL	1900	2540	2980	94	3420	4060	3160
	APR-SEP	2160	2940	3470	93	4000	4780	3720
Missouri R bl Ft Peck Dam (2)	APR-JUL	1870	2570	3050	94	3530	4230	3240
	APR-SEP	1900	2800	3410	92	4020	4920	3700
Lake Sakakawea Inflow (2)	APR-JUL	4910	6510	7600	92	8690	10300	8310
	APR-SEP	5190	7170	8520	91	9870	11800	9400

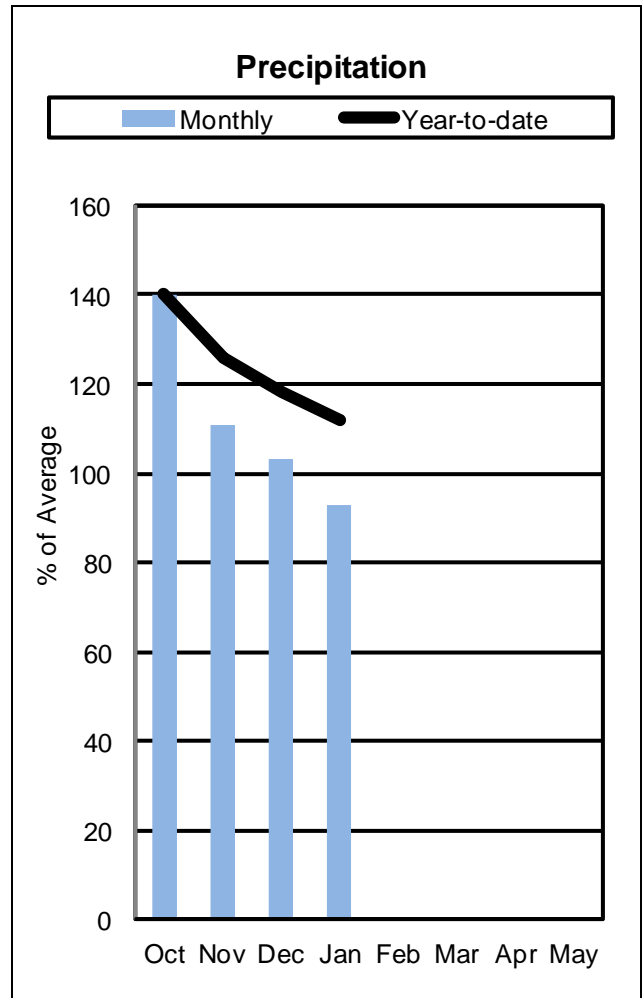
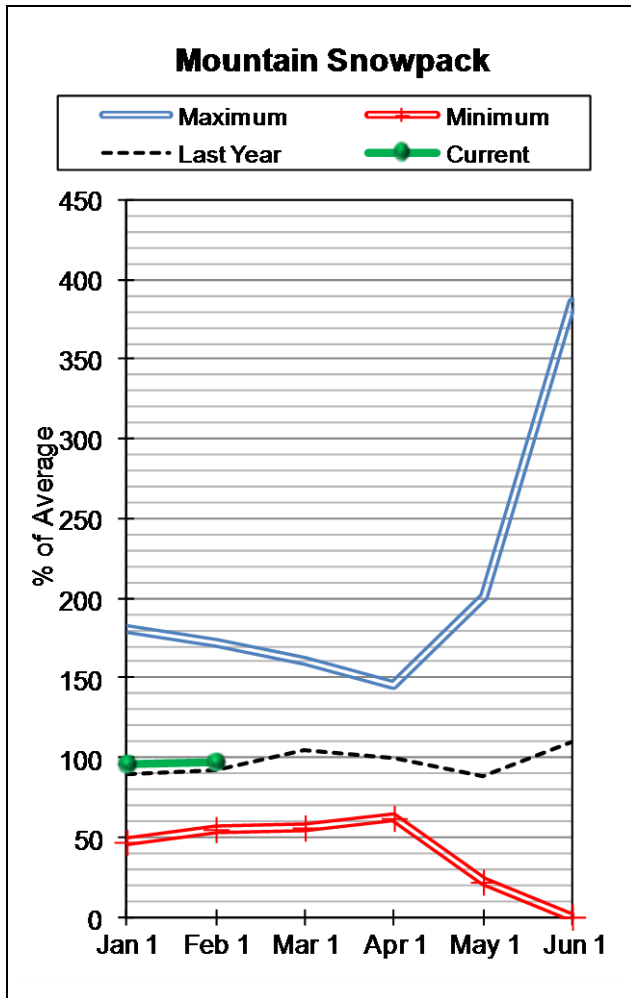
MISSOURI MAINSTEM RIVER BASIN Reservoir Storage (1000 AF) - End of January					MISSOURI MAINSTEM RIVER BASIN Watershed Snowpack Analysis - February 1, 2013			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Median
CANYON FERRY LAKE	2043.0	1542.7	1590.0	1531.0	HEADWATERS MAINSTEM	7	78	96
HELENA VALLEY	9.2	5.7	6.0	4.7	SMITH-JUDITH-MUSSELSHELL	9	101	97
LAKE HELENA	12.7	9.9	9.8	10.9	SUN-TETON-MARIAS	7	70	77
HAUSER & HELENA	74.6	70.0	69.8	73.5	MAINSTEM ab FT PECK RES	22	83	88
HOLTER LAKE	81.9	81.2	81.0	80.7	MILK RIVER BASIN	1	200	106
FORT PECK LAKE	18910.0	13011.0	15160.0	12953.0	MISSOURI MAINSTEM BASIN	22	85	94

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1981-2010 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Smith-Judith-Musselshell River Basins



Snowpack conditions in the Smith-Judith-Musselshell River Basins were near normal February 1. Snow water content was 97 percent of median and 94 percent of last year. Snow water content in the Smith River Basin was 102 percent of median and 96 percent of last year; the Judith River Basin was 97 percent of median and 92 percent of last year; and the Musselshell Basin River was 80 percent of median and 87 percent of last year.

Mountain precipitation according to SNOTEL stations during January in all three basins was 93 percent of average and 86 percent of last year. Water year precipitation for the greater basin, beginning October 1, 2012, was 112 percent of average and 103 percent of last year.

Ackley storage was 112 percent of average and 74 percent of last year; Bair storage was 148 percent of average and 77 percent of last year; Martinsdale storage was 88 percent of average and 78 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 91 percent.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		10%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Sheep Ck nr White Sulphur Springs	APR-JUL	10.4	13.6	15.8	102	18.0	21	15.5
	APR-SEP	12.5	16.2	18.7	102	21	25	18.4
Smith R bl Eagle Ck (2)	APR-JUL	57	89	110	104	131	163	106
	APR-SEP	61	97	122	105	147	183	116
NF Musselshell R nr Delpine	APR-JUL	2.1	3.4	4.2	98	5.0	6.3	4.3
	APR-SEP	2.6	4.0	5.0	100	6.0	7.4	5.0
SF Musselshell R ab Martinsdale	APR-JUL	5.0	14.0	27	77	40	59	35
	APR-SEP	5.0	15.2	29	76	43	63	38
Musselshell R at Harlowton (2)	APR-JUL	0.0	28	50	88	72	105	57
	APR-SEP	0.0	28	52	88	76	110	59
Musselshell R nr Roundup (2)	APR-JUL	-20.0	6.3	52	78	98	165	67
	APR-SEP	-20.0	6.6	52	79	97	164	66

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000 AF) - End of January

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - February 1, 2013

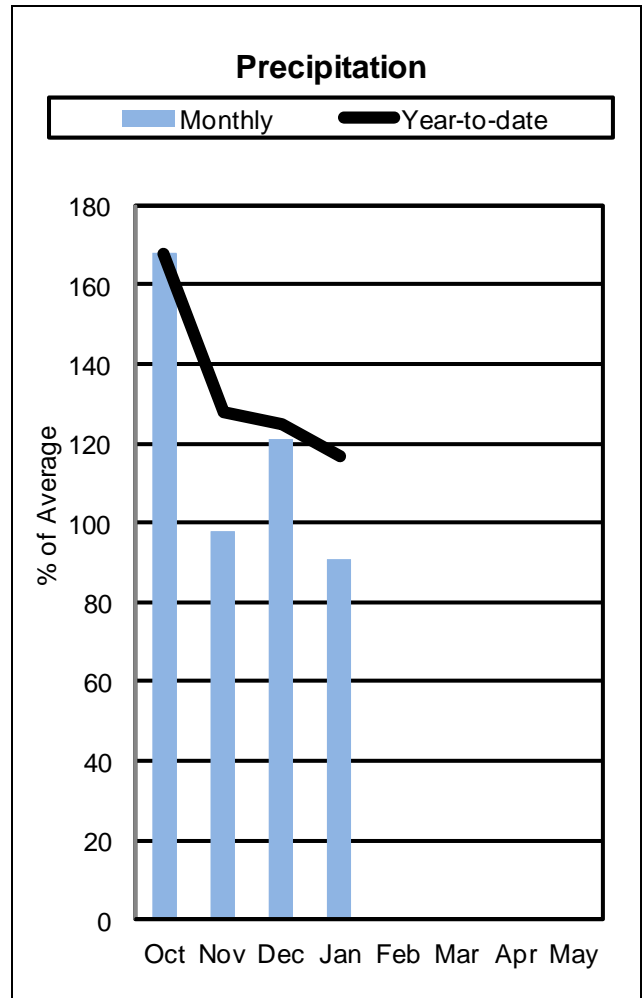
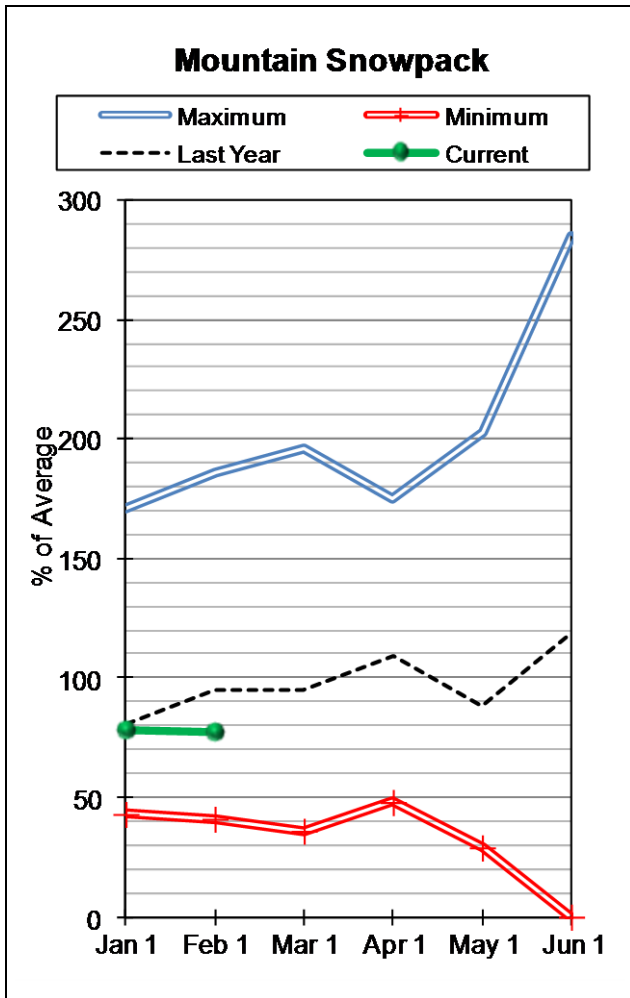
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Median
SMITH RIVER		NO REPORT			SMITH	6	107	102
ACKLEY LAKE	7.0	2.9	3.9	2.6	HIGHWOOD	0	80	0
BAIR	7.0	4.3	5.6	2.9	JUDITH	4	92	97
MARTINSDALE	23.1	6.8	8.7	7.7	MUSSELSHELL	2	130	80
DEADMAN'S BASIN		NO REPORT			SMITH-JUDITH-MUSSELSHELL	9	101	97

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1981-2010 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Sun-Teton-Marias River Basins



Snowpack conditions in the Sun-Teton-Marias River Basins were below normal on February 1. Snow water content was 77 percent of median and 70 percent of last year. Snow water content in the Sun River Basin was 89 percent of median and 68 percent of last year; the Teton River Basin was 80 percent of median and 60 percent of last year; and the Marias River Basin was 72 percent of median and 74 percent of last year.

Mountain precipitation according to SNOTEL stations during January in all three basins was 91 percent of average and 62 percent of last year. Mountain water year precipitation for the greater basin according to SNOTEL stations, beginning October 1, 2012, was 117 percent of average and 103 percent of last year.

Gibson storage was 39 percent of average and 82 percent of last year; Pishkun storage was 10 percent of average and 9 percent of last year; Willow Creek storage was 120 percent of average and 96 percent of last year; Swift storage was 91 percent of average and 108 percent of last year; Lake Frances storage was 70 percent of average and 49 percent of last year; and Lake Elwell (Tiber) storage was 109 percent of average and 103 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 95 percent.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	Future Conditions				Wetter		30-Yr Avg. (1000AF)
		<<===== Drier =====>>		=====		=====		
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
Gibson Reservoir Inflow (2)	APR-JUL	285	340	380	96	420	475	395
	APR-SEP	320	380	420	96	460	520	440
Two Medicine R nr Browning (2)	APR-JUL	130	155	172	94	189	215	183
	APR-SEP	140	166	183	94	200	225	194
Badger Ck nr Browning	APR-JUL	54	71	82	93	93	110	88
	APR-SEP	64	82	94	91	106	124	103
Swift Reservoir Inflow (2)	APR-JUL	34	45	53	93	61	72	57
	APR-SEP	42	54	63	94	72	84	67
Dupuyer Ck nr Valier	APR-JUL	1.6	5.5	10.3	93	15.1	22	11.1
	APR-SEP	1.8	6.2	11.5	91	16.8	25	12.7
Cut Bank Ck nr Browning	APR-JUL	43	57	67	97	77	91	69
	APR-SEP	47	62	72	96	82	97	75
Marias R nr Shelby (2)	APR-JUL	161	270	340	99	410	520	345
	APR-SEP	156	270	345	96	420	535	360
Teton R nr Dutton	APR-JUL	5.0	19.5	38	91	56	84	42
	APR-SEP	5.0	24	44	92	64	93	48

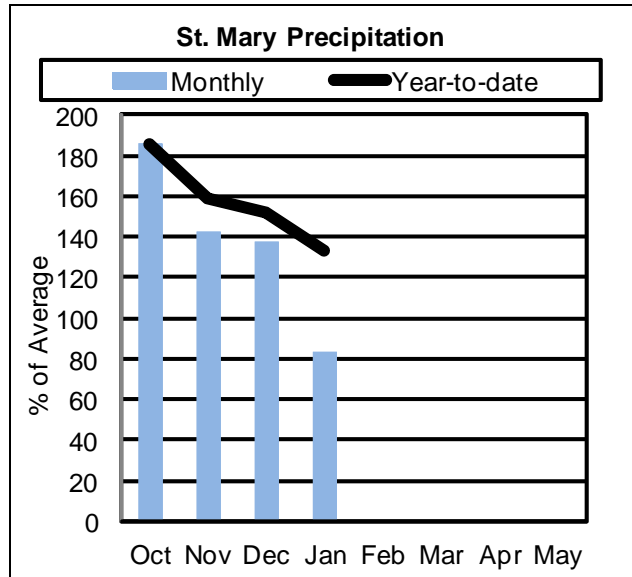
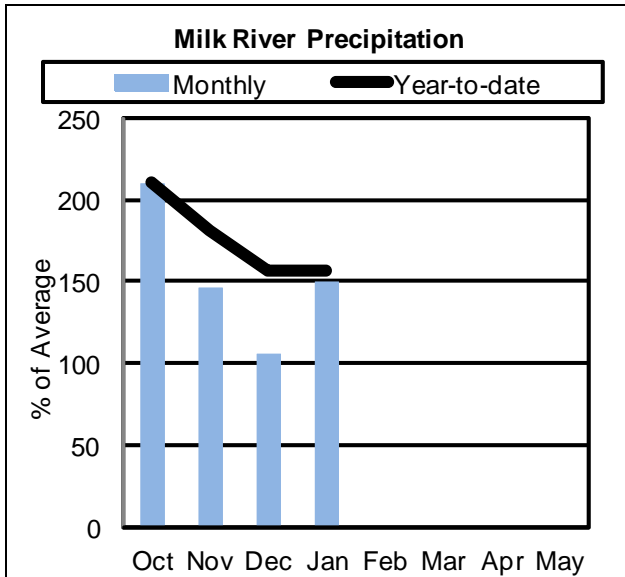
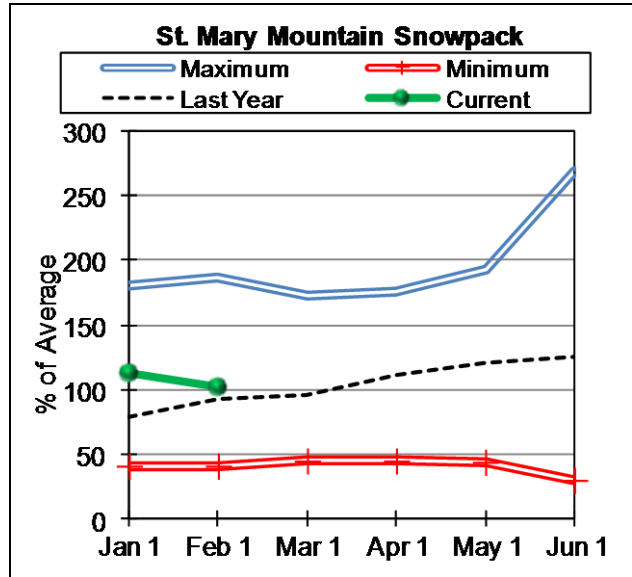
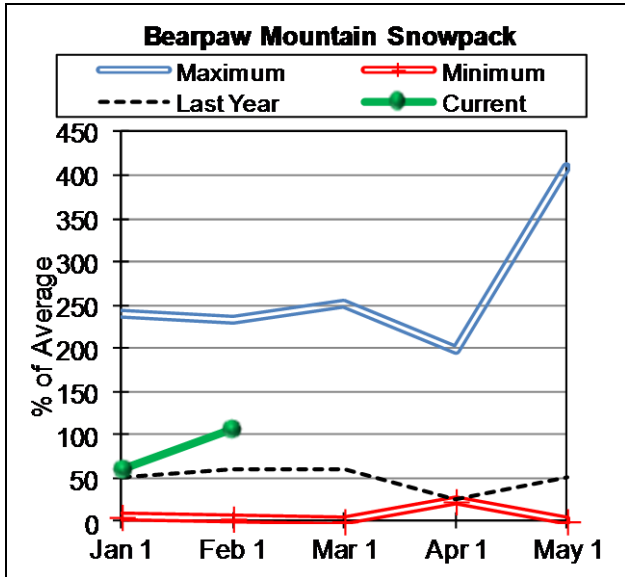
SUN-TETON-MARIAS RIVER BASINS Reservoir Storage (1000 AF) - End of January					SUN-TETON-MARIAS RIVER BASINS Watershed Snowpack Analysis - February 1, 2013			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Median
GIBSON	99.1	15.6	19.1	39.9	SUN	2	68	89
PISHKUN	32.0	1.8	19.8	17.5	TETON	3	60	80
WILLOW CREEK	32.2	27.5	28.6	22.9	MARIAS	4	74	72
LOWER TWO MEDICINE LAKE		NO REPORT			SUN-TETON-MARIAS	7	70	77
FOUR HORNS LAKE		NO REPORT						
SWIFT	30.0	13.9	12.9	15.3				
LAKE FRANCES	112.0	40.4	81.9	57.5				
LAKE ELWELL (TIBER)	1347.0	760.9	738.2	700.8				

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1981-2010 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

St. Mary and Milk River Basins



Snowpack in the Saint Mary River Basin was near normal on February 1. Snow water content was 102 percent of median and 97 percent of last year. Snowpack in the Milk River Basin was near average at 106 percent of median and 200 percent of last year. The combined basins had a snowpack at 103 percent of median and 101 percent of last year.

Mountain precipitation, according to SNOTEL stations, in the St. Mary River Basin during January was 83 percent of average and 67 percent of last year; and in the Milk River Basin during January was 150 percent of average and 200 percent of last year. Water year precipitation for both basins, beginning October 1, 2012, was 135 percent of average and 132 percent of last year.

Lake Sherburne storage was 187 percent of average and 212 percent of last year; Fresno storage was 115 percent of average and 80 percent of last year; and Nelson storage was 138 percent of average and 85 percent of last year.

Assuming average precipitation, April through July streamflows in the St. Mary are forecast to average 101 percent. Assuming average precipitation, April through July streamflows in the Milk are forecast to average 105 percent.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		10%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Lake Sherburne Inflow	APR-JUL	82	91	97	100	103	112	97
	APR-SEP	99	108	114	102	120	129	112
St. Mary R nr Babb (2)	APR-JUL	305	345	375	101	405	445	370
	APR-SEP	365	405	435	102	465	505	425
St. Mary R at Int'l Boundary (2)	APR-JUL	340	400	440	101	480	540	435
	APR-SEP	400	460	500	99	540	600	505
Milk R at Western Crossing	MAR-JUL	9.3	24	34	92	44	59	37
	MAR-SEP	9.1	25	36	92	47	63	39
	APR-JUL	6.1	19.2	28	90	37	50	31
	APR-SEP	5.9	20	30	91	40	54	33
Milk R at Eastern Crossing	MAR-JUL	1.0	39	66	118	93	132	56
	MAR-SEP	2.9	46	75	119	104	147	63
	APR-JUL	1.5	30	52	116	74	106	45
	APR-SEP	2.6	39	64	116	89	125	55

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000 AF) - End of January

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - February 1, 2013

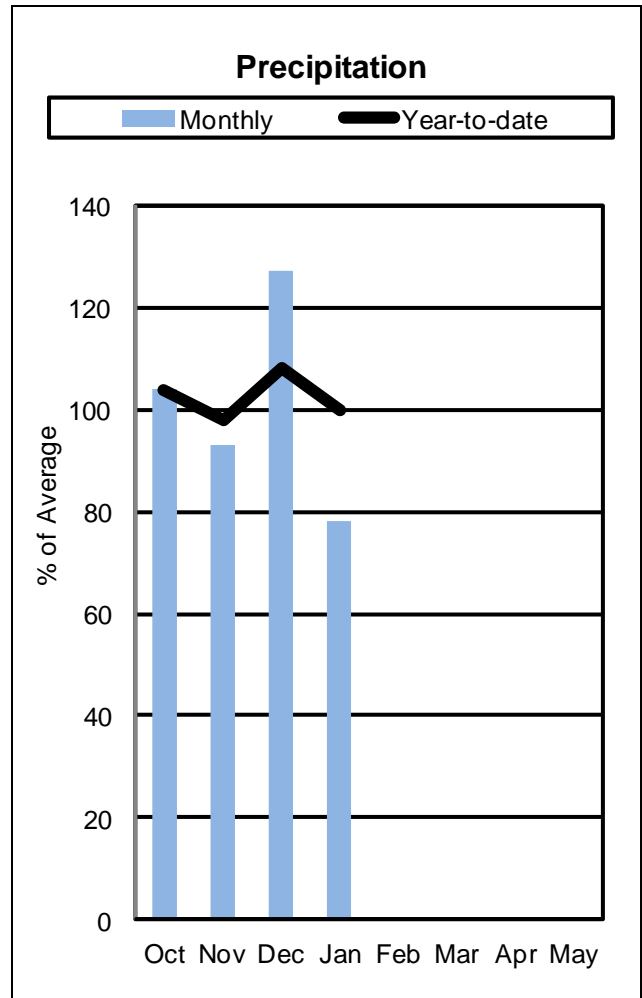
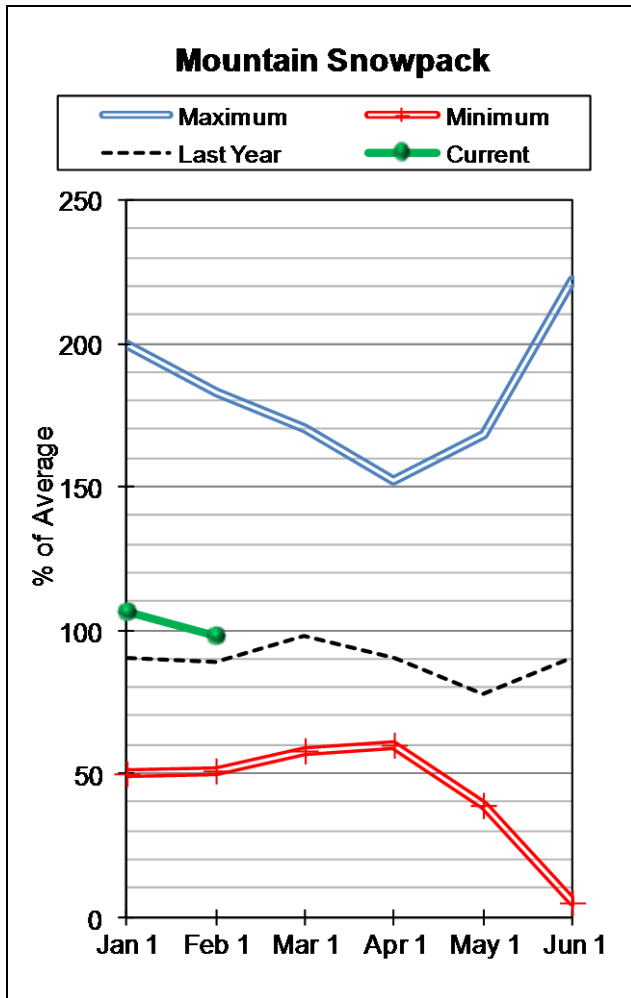
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Median
LAKE SHERBURNE	64.3	53.3	25.1	28.5	ST. MARY	2	97	102
FRESNO	127.0	47.8	59.7	41.7	BEARPAW MOUNTAINS	1	200	106
BEAVER CREEK		NO REPORT			CYPRESS HILLS, CANADA	0	0	0
NELSON	66.8	43.5	51.0	31.5	MILK RIVER BASIN	1	200	106
					ST. MARY & MILK BASINS	3	101	103

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1981-2010 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Upper Yellowstone River Basin



Snowpack conditions in the Upper Yellowstone River Basin were near normal on February 1. Snow water content was 98 percent of median and 95 percent of last year.

Mountain precipitation according to SNOTEL stations during January was 78 percent of average and 81 percent of last year. Water year precipitation, beginning October 1, 2012, was 100 percent of average and 98 percent of last year.

Mystic Lake storage was 115 percent of average and 75 percent of last year and Cooney storage was not available at the time of this report.

Assuming average precipitation, April through July streamflows are forecast to average 91 percent.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>				30%	10%	30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)			
Yellowstone R at Yellowstone Lake	APR-JUL	450	515	555	97	595	660	575
	APR-SEP	600	680	735	96	790	870	770
Yellowstone R at Corwin Springs	APR-JUL	1280	1430	1540	97	1650	1800	1590
	APR-SEP	1500	1680	1810	96	1940	2120	1880
Yellowstone R at Livingston	APR-JUL	1440	1630	1760	98	1890	2080	1800
	APR-SEP	1690	1920	2070	97	2220	2450	2140
Shields R nr Livingston	APR-JUL	19.0	65	97	75	129	175	129
	APR-SEP	21	71	106	74	141	191	143
Boulder R at Big Timber	APR-JUL	200	240	270	96	300	340	280
	APR-SEP	210	260	290	97	320	370	300
West Rosebud Ck nr Roscoe (2)	APR-JUL	45	50	53	90	56	61	59
	APR-SEP	57	64	68	92	72	79	74
Stillwater R nr Absarokee (2)	APR-JUL	310	370	410	92	450	510	445
	APR-SEP	365	435	480	92	525	595	520
Clarks Fk Yellowstone R nr Belfry	APR-JUL	395	450	485	95	520	575	510
	APR-SEP	430	485	525	96	565	620	550
Yellowstone R at Billings	APR-JUL	2280	2750	3060	95	3370	3840	3230
	APR-SEP	2600	3150	3520	94	3890	4440	3730

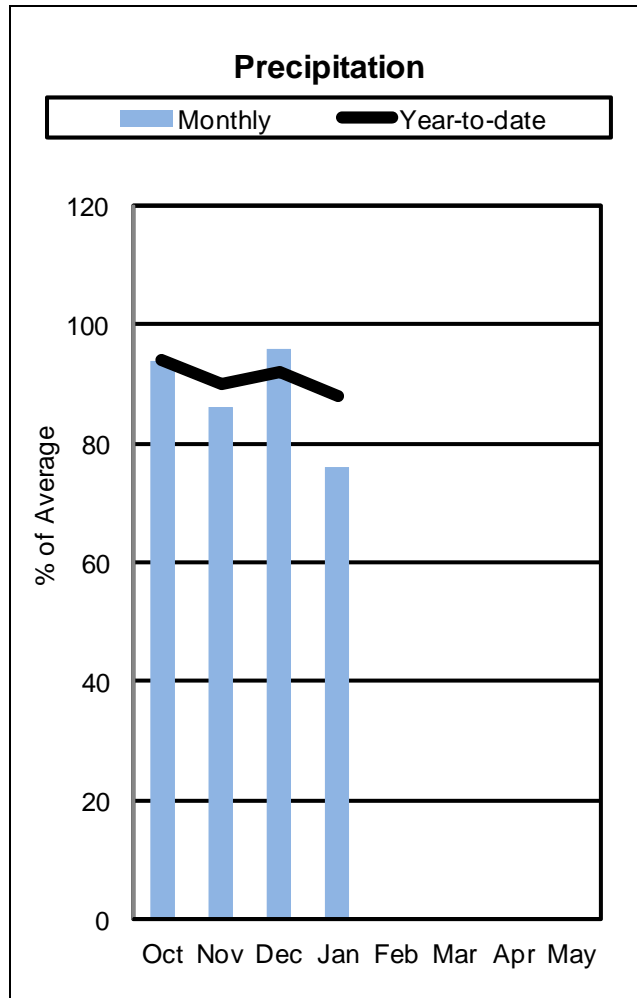
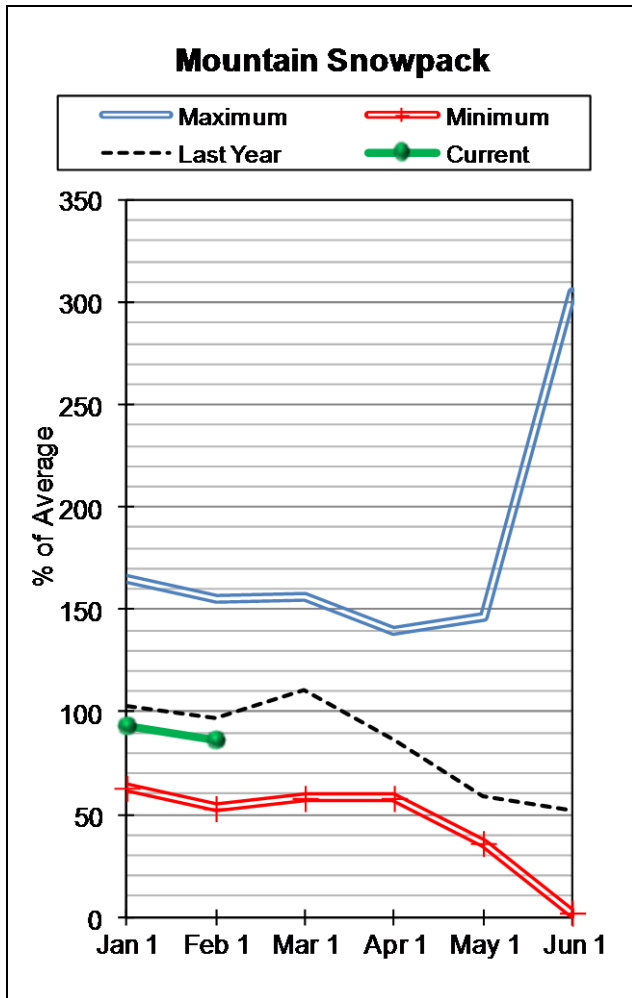
UPPER YELLOWSTONE RIVER BASIN Reservoir Storage (1000 AF) - End of January					UPPER YELLOWSTONE RIVER BASIN Watershed Snowpack Analysis - February 1, 2013			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Median
MYSTIC LAKE	21.0	6.1	8.1	5.3	YELLOWSTONE ab LIVINGSTON	14	95	101
COONEY		NO REPORT			SHIELDS	4	132	88
					BOULDER-STILLWATER	3	107	106
					RED LODGE-ROCK CREEK	2	53	74
					CLARK'S FORK	7	90	100
					UPPER YELLOWSTONE BASIN	26	94	98

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1981-2010 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

Lower Yellowstone River Basin



Snowpack conditions in the Lower Yellowstone River Basin were below normal on February 1. Snow water content was 86 percent of median and 76 percent of last year.

Mountain precipitation according to SNOTEL stations during January was 76 percent of average and 81 percent of last year. Water year precipitation, beginning October 1, 2012, was 88 percent of average and 77 percent of last year.

Bighorn Lake storage was 106 percent of average and 98 percent of last year and Tongue River storage was 175 percent of average and 86 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 79 percent.

LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - February 1, 2013

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>					30-Yr Avg. (1000AF)	
		90%		50%		30%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)		(1000AF)
Bighorn R nr St. Xavier (2)	APR-JUL	565	930	1180	86	1430	1790	1380
	APR-SEP	570	975	1250	86	1520	1930	1460
Little Bighorn R nr Hardin	APR-JUL	17.1	46	65	66	84	113	98
	APR-SEP	20	52	73	66	94	126	111
Tongue R nr Dayton (2)	APR-JUL	34	52	65	76	78	96	86
	APR-SEP	41	61	74	76	87	107	98
Big Goose Ck nr Sheridan	APR-JUL	12.8	24	32	70	40	51	46
	APR-SEP	19.4	31	39	72	47	59	54
Little Goose Ck nr Bighorn	APR-JUL	10.6	18.0	23	74	28	35	31
	APR-SEP	16.6	25	30	77	35	43	39
Tongue River Reservoir Inflow (2)	APR-JUL	18.0	82	125	65	168	230	193
	APR-SEP	29	96	141	66	186	255	215
Yellowstone R at Miles City (2)	APR-JUL	2870	3720	4290	90	4860	5710	4780
	APR-SEP	3220	4220	4890	90	5560	6560	5450
Powder R at Moorhead	APR-JUL	52	111	152	86	193	250	177
	APR-SEP	71	132	174	89	215	275	196
Powder R nr Locate	APR-JUL	47	121	171	86	220	295	199
	APR-SEP	62	141	195	89	250	330	220
Yellowstone R nr Sidney (2)	APR-JUL	2700	3650	4300	89	4950	5900	4830
	APR-SEP	2920	4050	4820	89	5590	6720	5430

LOWER YELLOWSTONE RIVER BASIN Reservoir Storage (1000 AF) - End of January					LOWER YELLOWSTONE RIVER BASIN Watershed Snowpack Analysis - February 1, 2013			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Median
BIGHORN LAKE	1356.0	875.8	894.0	825.9	WIND RIVER (Wyoming)	19	80	82
TONGUE RIVER	79.1	46.6	54.4	26.7	SHOSHONE RIVER (Wyoming)	5	84	96
					BIGHORN RIVER (Wyoming)	18	83	93
					LITTLE BIGHORN (Wyoming)	3	60	73
					TONGUE RIVER (Wyoming)	10	60	82
					POWDER RIVER (Wyoming)	9	81	96
					LOWER YELLOWSTONE BASIN (46	76	87

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1981-2010 base period.

- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

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Montana
Water Supply Outlook
Report
Natural Resources Conservation Service

