

Montana

Water Supply

Outlook Report

April 1, 2012



Picture: Madison Plateau SNOTEL Site near West Yellowstone

Water Supply Outlook Report and Federal - State - Private Cooperative Snow Surveys

For more water supply and resource management information, contact:

**Brian Domonkos
Water Supply Specialist
Federal Building
10 East Babcock, Room 443
Bozeman, MT 59715
Phone 406-587-6991**

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.

The United States Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs and marital or familial status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C., 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

Montana Water Supply Outlook Report as of April 1, 2012

The month of March could be best characterized with one word, variable. The weather patterns and storm activity across the state helped to bring the statewide snowpack average to above one-hundred percent, but the storms favored some parts of the state over others. The northern and western parts of the state saw well above average and consistent snowfall throughout the month, while some areas like the Milk River basin in north-central Montana were largely missed by the storms and continue to be well below average. This variability was very evident in southwest Montana where several storms helped to increase basin averages during the month, but this weather was quickly followed by extended periods of warm and dry weather. This warm weather pattern has had an impact on the low-elevation snow in the southwestern basins of Montana and in mountains of northern Wyoming, transitioning the low-elevation snow into an isothermal spring snowpack primed for runoff. The Lower Yellowstone River basin has seen the snowpack turn to a melt pattern at all but the high elevations during the second half of the month, decreasing basin averages and seasonal runoff forecasts. The weather patterns of April will help to dictate the timing and volumes of spring runoff, and we will monitor any snowpack accumulations or losses during the month.

Snowpack

Typical snowpack accumulation on April 1 for the Columbia is 99 percent of yearly maximum snowpack; Missouri is 95 percent; and Yellowstone is 95 percent. State-wide mountain snow water content was 101 percent of average and 84 percent of last year. West of the Divide snowpack was 110 percent of average and 90 percent of last year. East of the Divide snowpack was 92 percent of average and 80 percent of last year.

RIVER BASIN	% OF AVERAGE	LAST YEAR % OF AVERAGE	MARCH % CHANGE
COLUMBIA	110	122	+12
KOOTENAI	127	126	+24
FLATHEAD	106	130	+12
UPPER CLARK FORK	102	115	+2
BITTERROOT	106	107	+5
LOWER CLARK FORK	112	123	+13
MISSOURI	93	117	+2
MISSOURI HEADWATERS	90	113	+5
JEFFERSON	89	110	+3
MADISON	92	113	+11
GALLATIN	87	116	+3
MISSOURI MAINSTEM	104	125	+1
HEADWATERS MAINSTEM	115	114	0
SMITH-JUDITH-MUSSELSHELL	100	122	-5
SUN-TETON-MARIAS	109	118	+6
MILK (Bearpaw Mtns)	25	170	-26
ST. MARY	112	111	+17
ST. MARY & MILK	99	140	+15
YELLOWSTONE	88	115	-18
UPPER YELLOWSTONE	90	122	-8
LOWER YELLOWSTONE	86	107	-26
STATE-WIDE	101	120	+5

Precipitation

March mountain and valley precipitation across the state was 140 percent of average and 105 percent of last year, while the water year precipitation was 103 percent of average and 89 percent of last year. West of the Continental Divide, March mountain and valley precipitation was 171 percent of average and 119 percent of last year and the water year precipitation was 109 percent of average and 91 percent of last year. East of the Divide, March mountain and valley precipitation was 118 percent of average and 93 percent of last year and the water year precipitation was 98 percent of average and 87 percent of last year.

RIVER BASIN	MARCH % OF AVERAGE	WATER YEAR % OF AVERAGE
COLUMBIA	171	109
KOOTENAI	223	114
FLATHEAD	178	109
UPPER CLARK FORK	127	104
BITTERROOT	130	109
LOWER CLARK FORK	184	108
MISSOURI	130	102
JEFFERSON	125	97
MADISON	154	101
GALLATIN	123	95
MISSOURI MAINSTEM	116	108
SMITH-JUDITH-MUSSELSHELL	113	112
SUN-TETON-MARIAS	149	108
MILK	188	108
ST. MARY	245	117
YELLOWSTONE	72	99
UPPER YELLOWSTONE	98	98
LOWER YELLOWSTONE	50	100
STATEWIDE	140	103

Reservoirs

State-wide reservoir storage was 113 percent of average and 103 percent of last year. Reservoir storage west of the divide was 154 percent of average and 129 percent of last year. East of the Divide, reservoir storage was 102 percent of average and 96 percent of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
COLUMBIA	154	129
KOOTENAI	197	147
FLATHEAD	130	118
UPPER CLARK FORK	119	222
BITTERROOT	125	89
LOWER CLARK FORK	113	101
MISSOURI	102	96
JEFFERSON	119	109
MADISON	89	84
GALLATIN	91	67
MISSOURI MAINSTEM	102	96
SMITH-JUDITH-MUSSELSHELL	121	95
SUN-TETON-MARIAS	105	94
MILK	111	92
ST. MARY	116	65
YELLOWSTONE	108	98
UPPER YELLOWSTONE	0	0
LOWER YELLOWSTONE	108	99
STATEWIDE	113	103

Streamflow

State-wide, streamflows are forecast to be 101 percent of average. west of the divide streamflows are forecast to be 109 percent of average and east of the divide are forecast to be 94 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. The figures below are the combined averages of the individual forecast points within the particular basin. Specific forecast probabilities are available in each individual River Basin Report.

RIVER BASIN	April-July THIS YEAR % OF AVERAGE	April-July LAST YEAR % OF AVERAGE
COLUMBIA	109	124
KOOTENAI	114	115
FLATHEAD	111	137
UPPER CLARK FORK	106	116
BITTERROOT	104	109
LOWER CLARK FORK	109	126
MISSOURI	96	118
JEFFERSON	84	106
MADISON	95	110
GALLATIN	90	110
MISSOURI MAINSTEM	89	115
SMITH-JUDITH-MUSSELSHELL	101	127
SUN-TETON-MARIAS	119	117
MILK	87	117
ST. MARY	119	164
YELLOWSTONE	91	112
UPPER YELLOWSTONE	93	117
LOWER YELLOWSTONE	89	107
STATE-WIDE	101	119

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

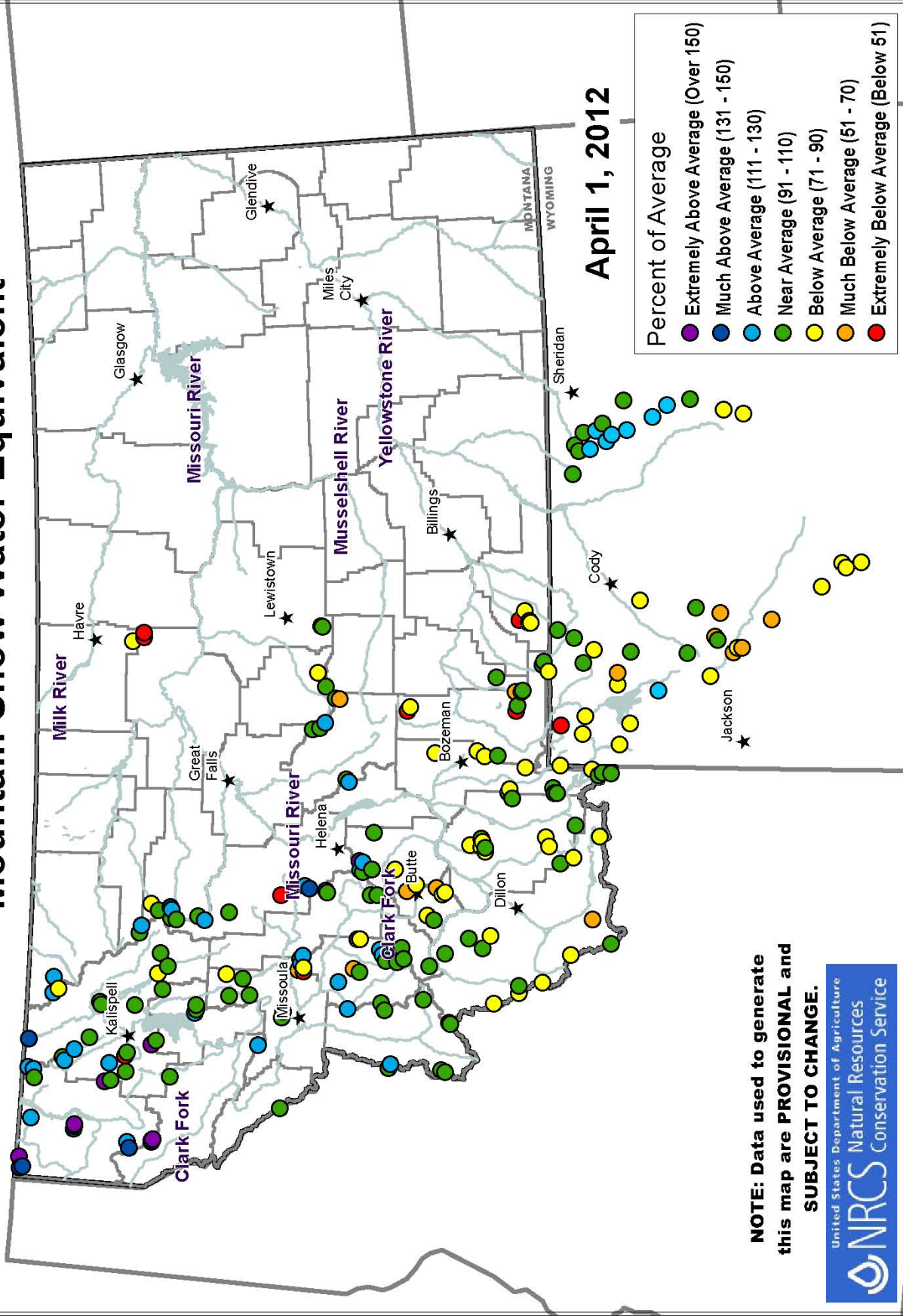
Surface Water Supply Index

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
+1.7	+2.4	Tobacco River
+2.5	+1.9	Kootenai Ft. Steele to Libby Dam
+4.0	+2.6	Kootenai River below Libby Dam
+1.4	+2.1	Fisher River
+2.8	+1.3	Yaak River
+1.9	+2.5	North Fork Flathead River
+1.6	+2.8	Middle Fork Flathead River
+4.0	+3.9	South Fork Flathead River
+2.4	+3.5	Flathead River at Columbia Falls
+1.3	+3.8	Swan River
+1.3	+2.9	Flathead River at Polson
+0.9	----	Mission Valley
+3.1	+1.7	Little Bitterroot River
+1.1	+2.1	Clark Fork River above Milltown
+1.2	----	Clark Fork above Missoula
+1.2	+2.5	Blackfoot River
+1.2	+1.9	Bitterroot River
+1.2	+2.3	Clark Fork River below Bitterroot River
+1.3	+2.7	Clark Fork River below Flathead River
+0.7	+1.0	Beaverhead River
-0.7	+1.3	Ruby River
-0.2	+1.5	Big Hole River
+0.1	+0.8	Boulder River (Jefferson)
+1.0	+1.9	Jefferson River
-0.4	+1.0	Madison River
-0.4	+2.1	Gallatin River
+0.2	+1.6	Missouri River above Canyon Ferry
-0.6	0.0	Missouri River below Canyon Ferry
+3.2	+2.2	Smith River
+1.5	+1.4	Sun River
+1.8	+1.8	Teton River
+2.4	+2.1	Birch/Dupuyer Creeks
+2.6	+3.6	Upper Judith River
+1.7	+1.2	Marias River above Tiber
+2.6	+2.6	Marias River below Tiber
+1.4	+2.8	Musselshell River
+0.9	+0.7	Missouri River above Ft. Peck
+0.6	+2.4	Missouri River below Ft. Peck
+2.8	+2.8	St. Mary River
+1.3	+2.9	Milk River
+1.7	+2.1	Dearborn River near Craig
+0.3	+2.2	Yellowstone River above Livingston
-0.3	+2.6	Shields River
-0.2	+3.1	Boulder River (Yellowstone)
-0.9	+1.7	Stillwater River
----	0.0	Rock/Red Lodge Creeks
+1.2	+2.6	Clarks Fork River
+0.2	+2.3	Yellowstone River above Bighorn River
-0.4	+1.4	Bighorn River below Bighorn Lake
+1.2	+1.2	Little Bighorn River
-0.1	+1.9	Yellowstone River below Bighorn River
+1.8	+2.4	Tongue River
0.0	+1.7	Powder River

Mountain Snow Water Equivalent



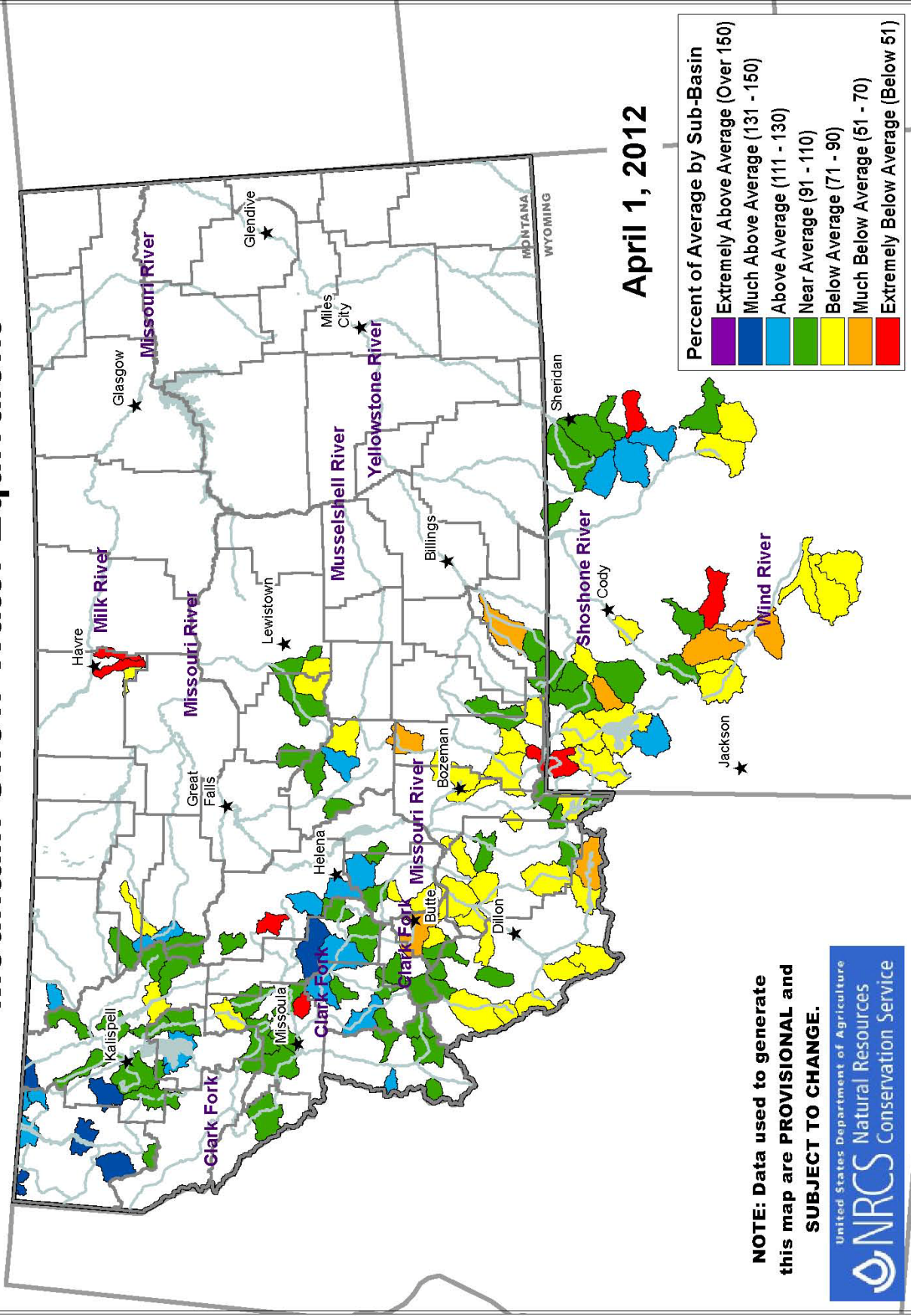
April 1, 2012

- 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.



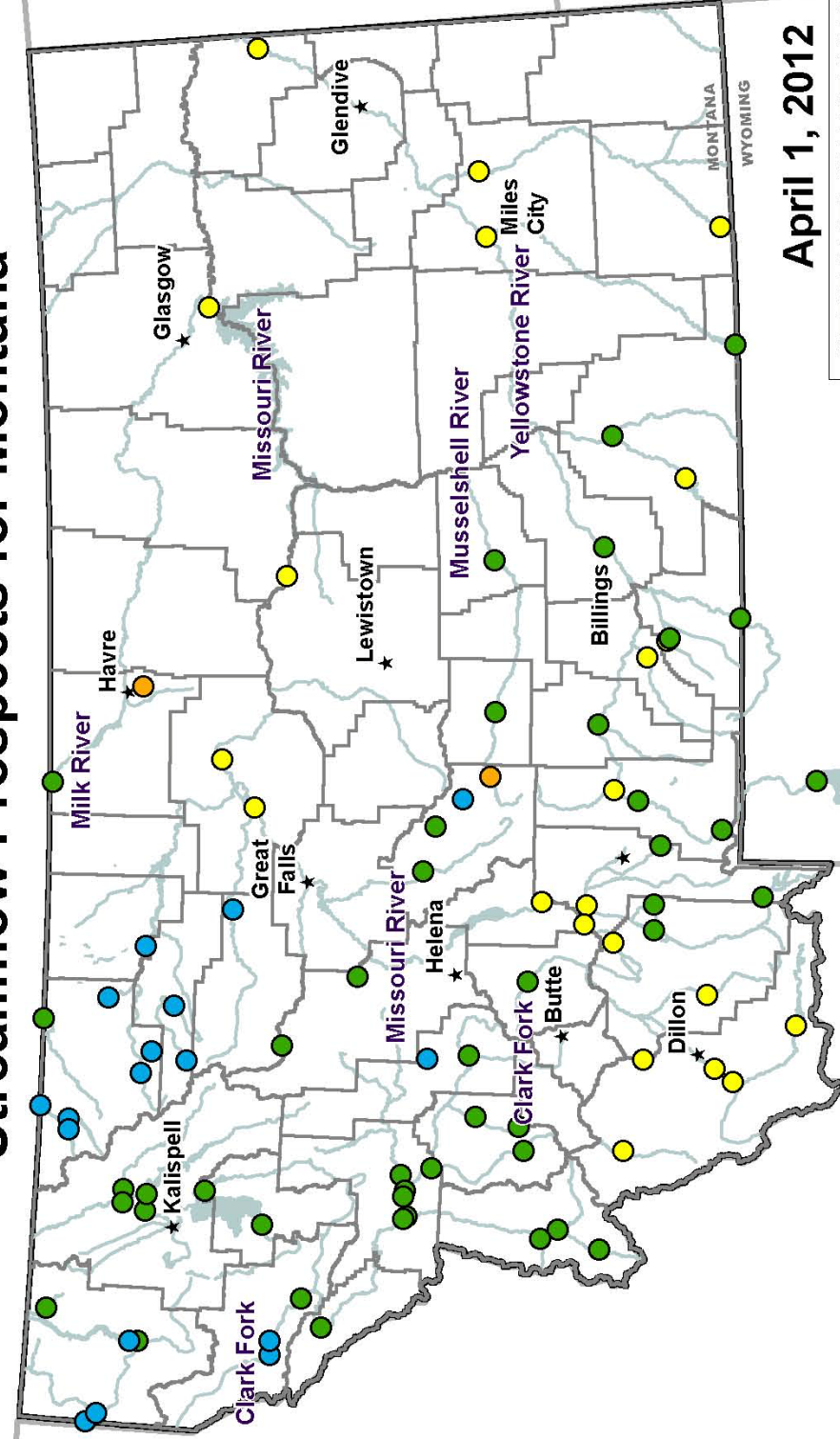
Mountain Snow Water Equivalent



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



Streamflow Prospects for Montana



April 1, 2012

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)

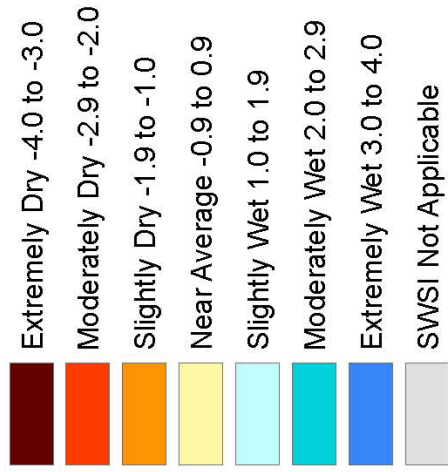
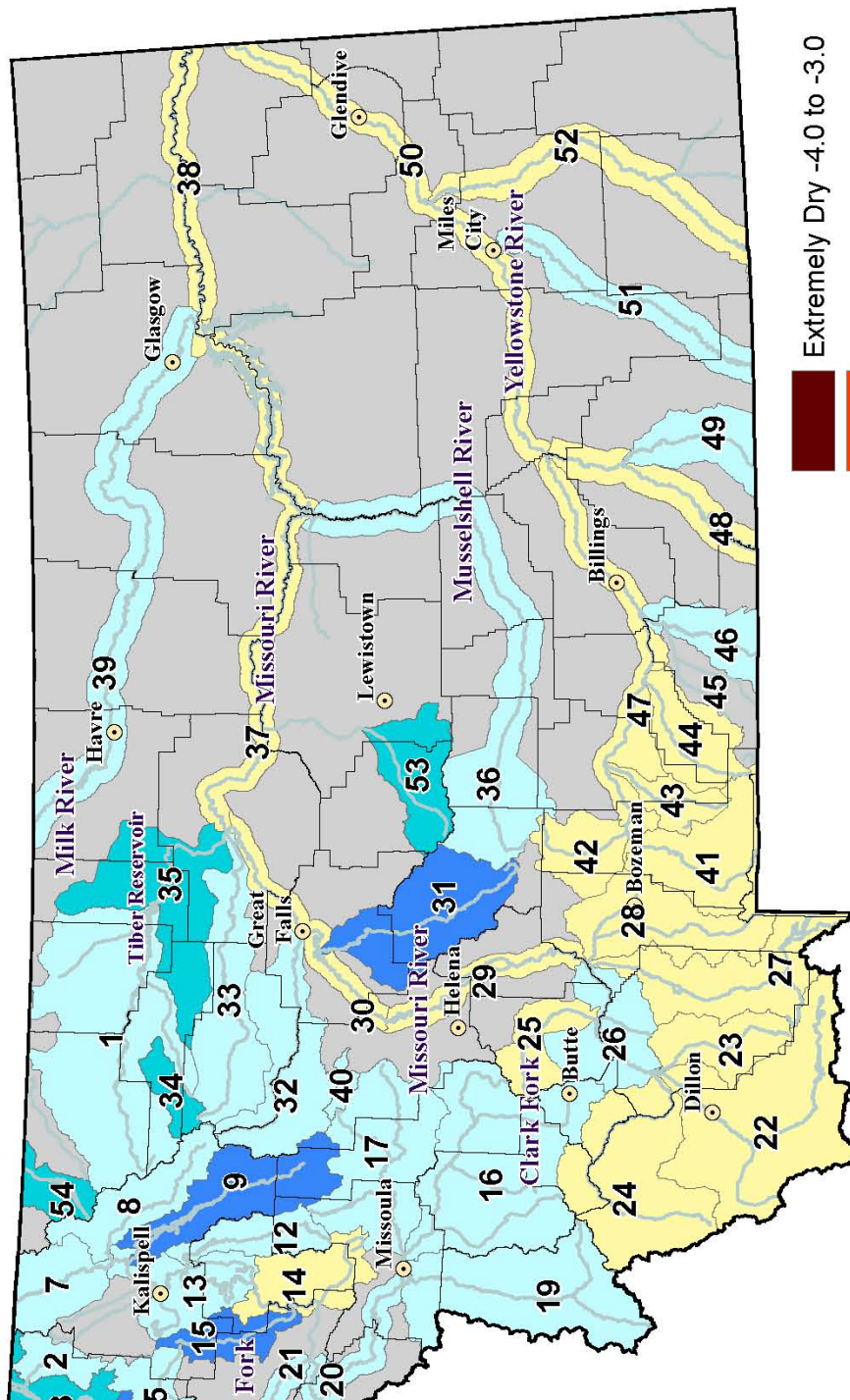
NOTE: Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE.



Surface Water Supply Index (SWSI) Values

RIVER INDEX & SWSI VALUES

- 1 Marias above Tiber Reservoir 1.7
- 2 Tobacco 1.7
- 3 Kootenai Ft. Steele to Libby Dam 2.5
- 4 Kootenai below Libby Dam 4
- 5 Fisher 1.4
- 6 Yaak 2.8
- 7 North FK. Flathead 1.9
- 8 Middle FK. Flathead 1.6
- 9 South FK. Flathead 4.0
- 10 Flathead at Columbia Falls 2.4
- 12 Swan 1.3
- 13 Flathead at Polson 1.3
- 14 Mission Valley 0.9
- 15 Little Bitterroot 3.1
- 16 Clark Fork above Milltown 1.1
- 17 Blackfoot 1.2
- 18 Clark Fork above Missoula 1.2
- 19 Bitterroot 1.2
- 20 Clark Fork River below Bitterroot 1.2
- 21 Clark Fork River below Flathead 1.3
- 22 Beaverhead 0.7
- 23 Ruby -0.7
- 24 Big Hole -0.2
- 25 Boulder (Jefferson) 0.1
- 26 Jefferson 1.0
- 27 Madison -0.4
- 28 Gallatin -0.4
- 29 Missouri above Canyon Ferry 0.2
- 30 Missouri below Canyon Ferry -0.6
- 31 Smith 3.2
- 32 Sun 1.5
- 33 Teton 1.8
- 34 Birch/Dupuyer Creeks 2.4
- 35 Marias 2.6
- 36 Musselshell 1.4
- 37 Missouri above Fort Peck 0.9
- 38 Missouri below Fort Peck 0.6
- 39 Milk 1.3
- 40 Dearborn near Craig 1.7
- 41 Yellowstone above Livingston 0.3
- 42 Shields -0.3
- 43 Boulder (Yellowstone) -0.2
- 44 Stillwater -0.9
- 45 Rock/Red Lodge Creeks
- 46 Clarks Fork Yellowstone 1.2
- 47 Yellowstone above Bighorn River 0.2
- 48 Bighorn below Bighorn Lake -0.4
- 49 Little Bighorn 1.2
- 50 Yellowstone below Bighorn -0.1
- 51 Tongue 1.8
- 52 Powder 0
- 53 Upper Judith 2.6
- 54 Saint Mary 2.8



April 5, 2012

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

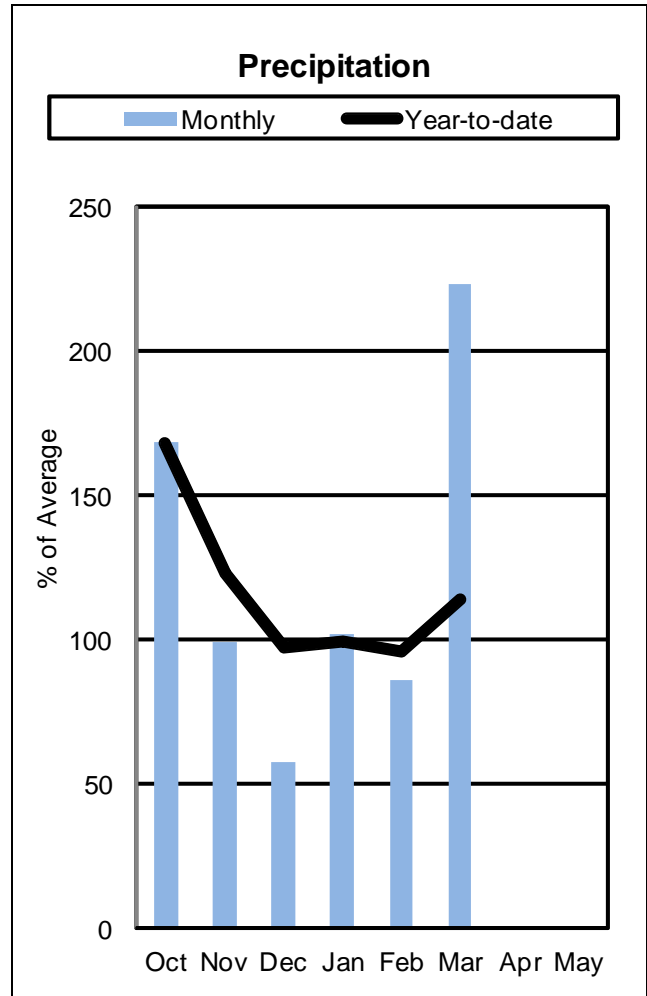
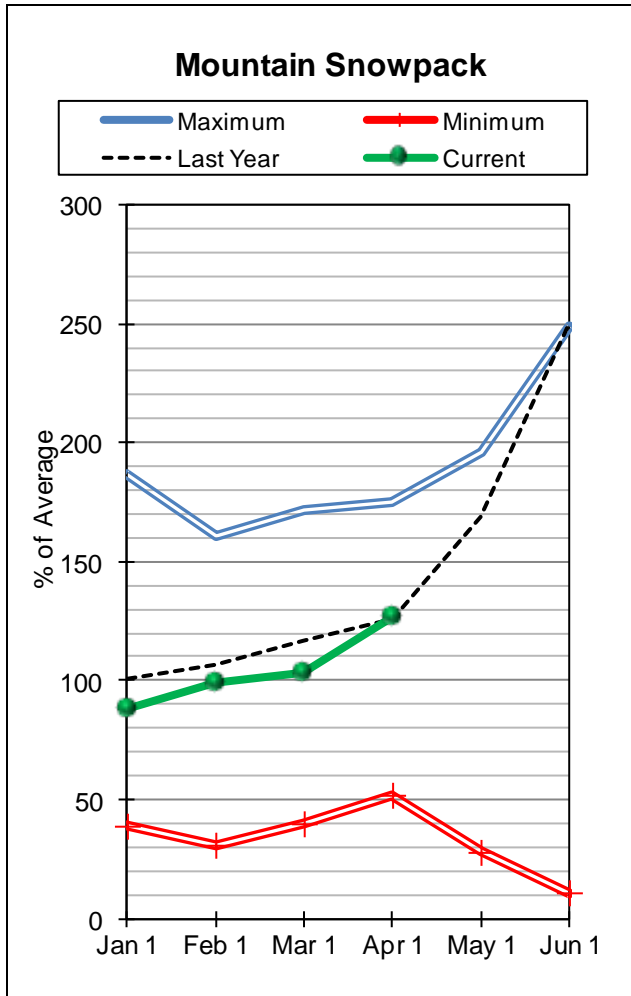
B A S I N S U M M A R Y O F
S N O W C O U R S E D A T A

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
ABUNDANCE LAKE	8800	3/27/12	59	19.4	24.0	20.6
ALBRO LAKE SNOTEL	8300	4/01/12	53	16.6	16.7	20.8
AMBROSE	6480	3/28/12	11	14.2	16.5	12.4
ASHLEY DIVIDE	4820	3/30/12	21	6.6	11.0	6.0
ASHLEY LAKE	4000	3/30/12	6	2.1	7.0	5.5
BADGER PASS SNOTEL	6900	4/01/12	100	42.3	37.7	35.3
BANFIELD MTN SNOTEL	5600	4/01/12	88	26.1	21.1	19.8
BAREE CREEK	5500	3/27/12	115	42.7	51.7	43.1
BAREE MIDWAY	4600	3/27/12	102	36.0	35.2	33.0
BAREE TRAIL	3800	3/27/12	36	12.2	14.3	7.7
BARKER LAKES SNOTEL	8250	4/01/12	47	13.6	15.3	14.6
BASIN CREEK SNOTEL	7180	4/01/12	20	6.4	8.2	8.7
BASSOO PEAK	5150	3/29/12	33	10.5	14.3	9.7
BEAGLE SPGS SNOTEL	8850	4/01/12	31	8.9	11.5	9.3
BEAR BASIN	8150	3/30/12	50	18.7	25.2	20.4
BEAVER CREEK SNOTEL	7850	4/01/12	52	16.8	23.5	18.2
BERRY MEADOW	7000	3/26/12	20	6.3	6.7	7.4
BIG SNOWY	7150	3/29/12	55	19.7	24.2	20.2
BISSON CREEK SNOTEL	4920	4/01/12	34	11.3	18.2	9.9
BLACK BEAR SNOTEL	7950	4/01/12	112	41.3	48.5	39.8
BLACK MOUNTAIN	7750	3/28/12	49	15.5	16.2	14.6
BLACK PINE SNOTEL	7100	4/01/12	35	13.2	15.1	12.5
BLACKTAIL	5650	3/31/12	45	14.7	20.4	14.2
BLACKTAIL MTN SNOTEL	5650	4/01/12	47	16.1	21.5	--
BLOODY DICK SNOTEL	7550	4/01/12	37	12.4	13.5	12.6
BLUE LAKE	5900	3/27/12	65	23.2	26.8	23.7
BOTS SOTS	7750	3/28/12	15	6.0	10.8	7.8
BOULDER MTN SNOTEL	7950	4/01/12	69	22.9	22.4	20.4
BOX CANYON SNOTEL	6700	4/01/12	20	7.3	16.3	10.4
BOXELDER CREEK	5100	3/28/12	5	1.2	9.4	7.6
BRACKETT CR SNOTEL	7320	4/01/12	52	18.9	27.0	21.5
BRANHAM LAKES	8850	3/28/12	73	24.4	29.2	28.9
BRISTOW CREEK	3900	3/26/12	41	13.3	12.1	8.4
BRUSH CREEK TIMBER	5000	3/27/12	42	15.7	19.9	8.1
BULL MOUNTAIN	6600	3/29/12	14	4.4	7.6	5.9
BURNT MTN SNOTEL	5880	4/01/12	0	.0	5.9	6.2
CABIN CREEK	5200	3/27/12	17	5.2	8.2	5.4
CALVERT CR SNOTEL	6430	4/01/12	24	8.9	10.7	8.1
CAMP SENIA	7890	3/28/12	39	13.5	15.2	6.2
CARROT BASIN SNOTEL	9000	4/01/12	83	26.2	30.7	28.1
CEDAR GROVE	3760	3/30/12	40	13.0	13.4	11.4
CHESSMAN RESERVOIR	6200	3/26/12	17	5.5	6.4	3.5
CHICKEN CREEK	4060	3/27/12	55	18.6	20.8	15.2
CLOVER MDW SNOTEL	8800	4/01/12	43	13.8	17.4	18.0
COLE CREEK SNOTEL	7850	4/01/12	39	13.5	12.1	16.4
COLLEY CREEK	6300	3/28/12	12	3.8	10.8	7.9
COMBINATION SNOTEL	5600	4/01/12	8	2.9	6.0	4.9
COPPER BOTTOM SNOTEL	5200	4/01/12	14	5.5	7.0	11.0
COPPER CAMP SNOTEL	6950	4/01/12	115	53.0	52.7	--
COPPER MOUNTAIN	7700	3/27/12	31	8.7	14.0	11.2
COTTONWOOD CREEK	6400	3/28/12	27	8.0	8.0	8.3
COYOTE HILL	4200	3/30/12	26	9.1	11.2	8.7
CRYSTAL LAKE SNOTEL	6050	4/01/12	34	12.8	19.1	12.3
DAD CREEK LAKE	8400	3/27/12	48	13.0	17.4	14.9
DAISY PEAK SNOTEL	7600	4/01/12	34	10.3	10.8	11.0
DALY CREEK SNOTEL	5780	4/01/12	33	11.2	12.4	11.1
DARKHORSE LK. SNOTEL	8700	4/01/12	87	27.7	34.9	32.5
DAVIS CREEK	5400	3/27/12	94	34.7	28.5	24.2
DEADMAN CR SNOTEL	6450	4/01/12	26	10.5	13.5	10.0
DESERT MOUNTAIN	5600	3/27/12	48	14.8	17.7	14.7

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
DISCOVERY BASIN	7050	3/26/12	38	11.8	12.7	10.4
DIVIDE SNOTEL	7800	4/01/12	32	9.7	12.3	11.3
DIX HILL	6400	4/01/12	28	10.4	12.1	10.3
DUPUYER CREEK SNOTEL	5750	4/01/12	27	8.7	12.3	9.9
EAST FORK R.S.	5400	3/26/12	15	5.0	4.9	4.7
EL DORADO MINE	7800	3/24/12	54	16.3	12.1	20.2
ELK HORN SPRINGS	7800	3/27/12	28	8.3	11.2	9.1
EMERY CREEK SNOTEL	4350	4/01/12	38	14.6	19.4	15.3
FATTY CREEK	5500	3/27/12	71	26.8	35.2	24.3
FISH CREEK	8000	3/29/12	30	7.9	10.7	9.9
FISHER CREEK SNOTEL	9100	4/01/12	102	36.6	42.9	35.4
FLATTOP MTN SNOTEL	6300	4/01/12	160	53.4	53.5	45.1
FLEECER RIDGE	7500	3/29/12	35	10.2	12.3	10.9
FOOLHEN	8280	3/27/12	51	15.6	18.6	16.2
FOUR MILE	6900	3/27/12	25	8.2	8.0	8.4
FREIGHT CREEK	6000	3/30/12	45	16.3	16.1	14.8
FROHNER MDWS SNOTEL	6480	4/01/12	24	9.1	8.5	8.0
GARVER CREEK SNOTEL	4250	4/01/12	52	16.4	13.3	9.9
GIBBONS PASS	7100	3/26/12	65	23.0	22.7	22.7
GOAT MOUNTAIN	7000	3/26/12	36	11.3	14.0	9.7
GOLD CREEK LAKE	7200	3/24/12	72	22.4	20.1	14.7
GRAVE CRK SNOTEL	4300	4/01/12	51	18.3	21.1	15.6
GRIFFIN CR DIVIDE	5150	3/29/12	34	9.7	14.1	10.3
GUNSIGHT LAKE	6300	3/27/12	103	37.4	45.3	39.3
HAND CREEK SNOTEL	5030	4/01/12	40	12.9	14.9	11.7
HAWKINS LAKE SNOTEL	6450	4/01/12	123	39.2	34.6	27.4
HAYMAKER	8050	4/01/12	---	11.4	13.5	11.8
HEBGEN DAM	6550	4/04/12	18	6.2	13.4	12.0
HELL ROARING DIVIDE	5770	3/28/12	88	29.8	35.1	29.5
HERRIG JUNCTION	4850	3/27/12	79	27.1	30.9	26.0
HOODOO BASIN SNOTEL	6050	4/01/12	137	48.6	49.7	45.3
INDEPENDENCE	7850	3/23/12	49	16.7	23.3	17.4
INTERGAARD	6450	3/24/12	26	7.8	8.1	7.7
JOHNSON PARK	6450	4/02/12	12	3.4	6.7	5.5
KINGS HILL	7500	3/28/12	41	13.8	13.0	13.7
KISHENEHN	3890	3/28/12	27	9.5	10.5	6.8
KRAFT CREEK SNOTEL	4750	4/01/12	33	13.4	16.3	14.1
LAKEVIEW CANYON	6930	3/27/12	23	7.4	13.0	11.1
LAKEVIEW RDG. SNOTEL	7400	4/01/12	23	8.4	13.5	11.8
LEMHI RIDGE SNOTEL	8100	4/01/12	34	9.8	13.3	11.2
LICK CREEK SNOTEL	6860	4/01/12	25	9.4	12.2	13.0
LITTLE PARK	7400	3/29/12	39	13.0	19.1	15.9
LOGAN CREEK	4300	3/27/12	29	7.8	11.4	6.7
LONE MOUNTAIN SNOTEL	8880	4/01/12	46	17.4	24.7	18.7
LOST SOUL	4800	3/26/12	60	17.7	16.9	14.0
LOWER TWIN SNOTEL	7900	4/01/12	52	17.0	17.6	19.0
LUBRECHT SNOTEL	4680	4/01/12	11	4.0	6.8	3.6
LUBRECHT FOREST NO 3	5450	3/31/12	16	4.8	7.1	5.7
LUBRECHT FOREST NO 4	4650	3/31/12	2	.6	2.5	1.3
LUBRECHT FOREST NO 6	4040	3/31/12	4	1.1	4.9	1.6
LUBRECHT HYDROPLOT	4200	3/31/12	12	3.7	6.7	2.9
MADISON PLT SNOTEL	7750	4/01/12	70	25.6	30.6	25.5
MANY GLACIER SNOTEL	4900	4/01/12	47	18.3	21.0	15.3
MIDDLE MILL CREEK	7850	3/28/12	45	15.4	16.6	15.6
MILL CREEK	7500	3/28/12	33	11.6	18.5	12.6
MINERAL CREEK	4000	3/29/12	40	15.4	21.2	17.4
MONUMENT PK SNOTEL	8850	4/01/12	62	20.1	28.4	21.0
MOSS PEAK SNOTEL	6780	4/01/12	116	41.1	56.0	38.2
MOULTON RESERVOIR	6850	3/29/12	20	4.6	10.3	6.9
MT LOCKHART SNOTEL	6400	4/01/12	65	26.0	28.1	21.1
MULE CREEK SNOTEL	8300	4/01/12	46	14.0	18.9	15.8
N.E. ENTRANCE SNOTEL	7350	4/01/12	23	8.0	15.0	11.3
NEVADA RIDGE SNOTEL	7020	4/01/12	54	20.3	19.4	15.5

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
NEW WORLD	6900	4/01/12	---	11.8	15.0	14.6
NEZ PERCE CMP SNOTEL	5650	4/01/12	42	14.4	15.0	14.7
NEZ PERCE PASS	6570	3/27/12	50	18.6	16.0	17.8
N.F. ELK CR SNOTEL	6250	4/01/12	45	14.2	15.9	12.4
NF JOCKO SNOTEL	6330	4/01/12	105	45.4	55.5	45.3
NOISY BASIN SNOTEL	6040	4/01/12	111	39.5	62.4	40.9
NOTCH	8500	3/27/12	54	15.4	18.1	16.7
OPHIR PARK	7150	4/01/12	36	15.8	18.2	16.7
PETERSON MDW SNOTEL	7200	4/01/12	34	10.2	10.5	10.5
PICKFOOT CRK SNOTEL	6650	4/01/12	34	11.8	14.1	11.7
PIKE CREEK SNOTEL	5930	4/01/12	47	16.5	21.7	--
PIPESTONE PASS	7200	3/27/12	15	3.8	7.8	5.7
PLACER BASIN SNOTEL	8830	4/01/12	50	17.4	22.3	17.8
POORMAN CR SNOTEL	5100	4/01/12	117	49.1	50.1	32.7
PORCUPINE SNOTEL	6500	4/01/12	8	2.8	8.5	6.9
POTOMAGETON PARK	7150	4/03/12	34	14.1	17.5	13.8
RED MOUNTAIN	6000	3/28/12	68	23.8	21.7	18.8
ROCK CREEK	5600	3/29/12	21	7.4	14.4	9.8
ROCK CREEK MEADOW	8160	3/26/12	54	17.2	22.6	20.7
ROCKER PEAK SNOTEL	8000	4/01/12	49	15.2	16.4	14.3
ROCKY BOY SNOTEL	4700	4/01/12	2	.8	7.7	4.4
SACAJAWEA SNOTEL	6550	4/01/12	29	11.5	18.3	14.8
SADDLE MTN SNOTEL	7900	4/01/12	75	26.1	29.4	25.8
S.F. SHIELDS SNOTEL	8100	4/01/12	40	14.3	18.0	17.7
SHORT CREEK SNOTEL	7000	4/01/12	12	4.5	7.3	6.1
SHOWER FALLS SNOTEL	8100	4/01/12	56	21.2	24.7	22.7
SKALKAHO SNOTEL	7260	4/01/12	71	24.7	26.7	24.3
SLAG-A-MELT LAKE	8750	3/27/12	64	21.2	28.6	24.5
SLEEPING WOMAN SNTL	6150	4/01/12	58	20.5	23.4	17.2
SLIDE ROCK MOUNTAIN	7100	3/25/12	54	18.4	15.2	15.5
SMUGGLER MINE	6960	3/28/12	27	8.6	11.4	9.7
SPOTTED BEAR MTN.	7000	3/27/12	42	15.0	19.3	14.1
SPUR PARK SNOTEL	8100	4/01/12	76	25.5	26.7	21.5
STAHL PEAK SNOTEL	6030	4/01/12	114	38.9	47.9	35.3
STEMPLE PASS	6600	3/27/12	45	12.7	12.7	10.2
STORM LAKE	7780	3/27/12	44	13.1	14.8	13.3
STRYKER BASIN	6180	3/27/12	97	35.9	40.9	31.9
STUART MOUNTAIN SNTL	7400	4/01/12	93	34.1	44.7	34.2
TAYLOR ROAD	4080	3/28/12	5	1.4	6.2	1.7
TEN MILE LOWER	6600	3/27/12	28	8.9	8.6	7.0
TEN MILE MIDDLE	6800	3/27/12	40	11.4	11.0	11.4
TEPEE CREEK SNOTEL	8000	4/01/12	38	12.3	15.6	13.5
TIMBERLINE CREEK	8850	3/28/12	38	11.4	17.7	14.2
TIZER BASIN SNOTEL	6840	4/01/12	30	9.5	8.9	10.3
TRINKUS LAKE	6100	3/27/12	111	42.6	54.1	42.0
TRUMAN CREEK	4060	3/30/12	16	5.9	7.0	3.7
TV MOUNTAIN	6800	3/27/12	53	17.1	23.1	18.3
TWELVEMILE SNOTEL	5600	4/01/12	50	21.5	17.7	17.5
TWENTY-ONE MILE	7150	3/29/12	44	15.0	20.0	16.9
TWIN CREEKS	3580	3/27/12	27	8.1	11.7	9.6
TWIN LAKES SNOTEL	6400	4/01/12	100	43.0	41.9	39.7
UPPER HOLLAND LAKE	6200	3/27/12	82	30.5	46.5	34.6
WALDRON SNOTEL	5600	4/01/12	41	14.1	14.1	10.8
WARM SPRINGS SNOTEL	7800	4/01/12	72	23.6	25.3	21.2
WEASEL DIVIDE	5450	3/29/12	102	37.9	40.5	32.9
WEST YELL 'ST SNOTEL	6700	4/01/12	29	9.7	15.1	12.8
WHISKEY CREEK SNOTEL	6800	4/01/12	44	16.2	21.4	17.4
WHITE MILL SNOTEL	8700	4/01/12	65	23.4	29.5	24.6
WHITE PINE RIDGE	8850	3/27/12	17	3.6	7.0	6.0
WOOD CREEK SNOTEL	5960	4/01/12	32	10.4	12.6	10.0
WRONG CREEK	5700	3/28/12	37	13.2	15.6	12.3
WRONG RIDGE	6800	3/29/12	45	16.5	21.4	18.0

Kootenai River Basin in Montana



Snowpack conditions in the Kootenai River Basin as of April 1 were well above average. Snow water content was 127 percent of average and 101 percent of last year. Snowpack in the Kootenai in Canada was well above average. Snow water content was 129 percent of average and 113 percent of last year.

Mountain precipitation during March was 220 percent of average and 124 percent of last year. Valley precipitation during March was 258 percent of average and 203 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2011, was 114 percent of average and 94 percent of last year.

Lake Koocanusa storage at the end of March was 197 percent of average and 147 percent of average.

Assuming average precipitation, April through July streamflows are forecast to average 114 percent.

Surface Water Supply Index (SWSI) was 1.7 in the Tobacco River; +2.5 in the Kootenai Ft. Steele to Libby Dam; +4.0 in the Kootenai River below Libby Dam; +1.4 in the Fisher River; and +2.8 in the Yaak River.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - April 1, 2012

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		10%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Tobacco R nr Eureka	APR-JUL	112	131	143	105	155	174	136
	APR-SEP	122	144	158	105	172	194	150
Libby Reservoir Inflow (1,2)	APR-JUL	5780	6390	6660	118	6940	7540	5640
	APR-SEP	6910	7530	7810	118	8090	8710	6640
Fisher River nr Libby	APR-JUL	205	230	250	109	270	295	230
	APR-SEP	215	245	265	108	285	315	245
Yaak River nr Troy	APR-JUL	465	520	560	120	600	655	465
	APR-SEP	490	550	590	120	630	690	490
Kootenai R at Leonia (1,2)	APR-JUL	7280	8010	8350	119	8690	9420	7040
	APR-SEP	8490	9240	9580	118	9920	10700	8120

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

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - April 1, 2012

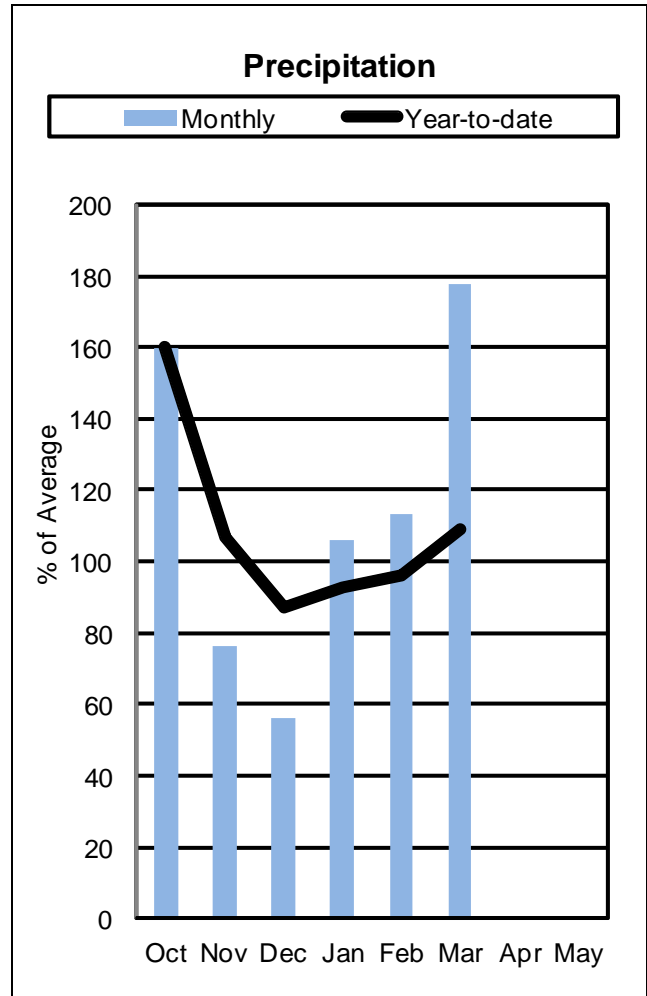
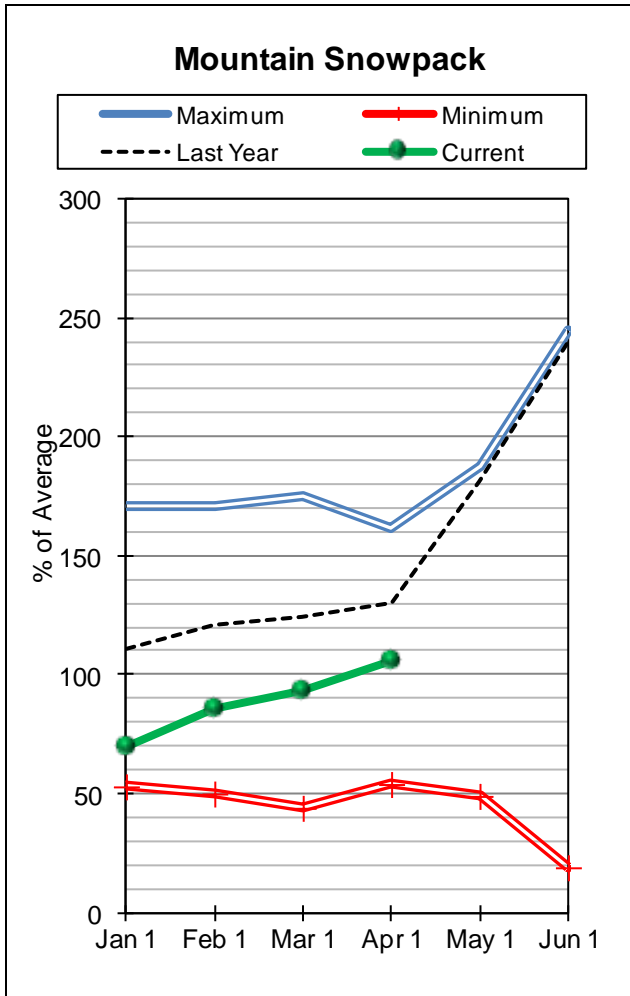
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
LAKE KOOCANUSA	5748.0	3442.0	2345.0	1743.7	KOOTENAY in CANADA	20	115	132
					KOOTENAI MAINTSTEM	7	111	133
					TOBACCO	3	87	113
					FISHER	5	88	115
					YAAK	4	116	142
					KOOTENAI in MONTANA	18	101	127
					KOOTENAI ab BONNERS FERRY	38	106	129

* 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 1971-2000 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.
- (3) - Median value used in place of average.

Flathead River Basin



Snowpack conditions in the Flathead River Basin were near average on April 1. Snow water content was 106 percent of average and 80 percent of last year. Snowpack in the Flathead of Canada was well above average. Snow water content was 122 percent of average and 94 percent of last year.

Mountain precipitation during March was 178 percent of average and 115 percent of last year. Valley precipitation during March was 176 percent of average and 139 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2011, was 109 percent of average and 87 percent of last year.

Hungry Horse Reservoir storage at the end of March was 145 percent of average and 126 percent of last year. Flathead Lake storage at the end of March was 95 percent of average and 87 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 111 percent.

Surface Water Supply Index (SWSI) was +1.9 in the North Fork Flathead River; +1.6 in the Middle Fork Flathead River; +4.0 in the South Fork Flathead River; +2.4 in the Flathead River at Columbia Falls; +1.3 in the Swan River; +1.3 in the Flathead River at Polson; +0.9 in the Mission Valley; +3.1 in the Little Bitterroot River.

FLATHEAD RIVER BASIN
Streamflow Forecasts - April 1, 2012

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		10%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
NF Flathead R nr Columbia Falls	APR-JUL	1580	1700	1780	110	1860	1980	1620
	APR-SEP	1740	1880	1970	109	2060	2200	1800
MF Flathead R nr West Glacier	APR-JUL	1500	1630	1720	108	1810	1940	1590
	APR-SEP	1660	1800	1900	109	2000	2140	1740
SF Flathead R nr Hungry Horse	APR-JUL	1210	1300	1370	110	1440	1530	1250
	APR-SEP	1280	1390	1460	110	1530	1640	1330
Hungry Horse Reservoir Inflow (1,2)	APR-JUL	1700	1950	2070	104	2190	2440	2000
	APR-SEP	1800	2080	2200	104	2320	2600	2120
Flathead R at Columbia Falls (2)	APR-JUL	5100	5490	5750	108	6010	6400	5350
	APR-SEP	5500	5940	6240	107	6540	6980	5820
Ashley Ck nr Marion (2)	APR-JUL	5.4	6.8	7.7	107	8.6	10.0	7.2
	APRIL	1.4	2.2	2.8	104	3.4	4.2	2.7
Swan R nr Bigfork	APR-JUL	500	555	590	104	625	680	565
	APR-SEP	570	635	675	105	715	780	645
Flathead Lake Inflow (1,2)	APR-JUL	5520	6250	6570	106	6900	7630	6180
	APR-SEP	6000	6820	7200	108	7580	8400	6700
Mill Ck ab Bassoo Ck nr Niarada	APR-JUL	3.9	4.7	5.2	127	5.7	6.5	4.1
	APR-SEP	4.3	5.1	5.6	127	6.1	6.9	4.4
South Crow Ck nr Ronan	APR-JUL	8.5	9.9	10.9	108	11.9	13.3	10.1
	APR-SEP	9.7	11.3	12.4	108	13.5	15.1	11.5
Mission Ck nr St. Ignatius	APR-JUL	22	24	26	104	28	30	25
	APR-SEP	26	29	31	103	33	36	30
Sf Jocko R nr Arlee	APR-JUL	30	34	37	123	40	44	30
	APR-SEP	34	39	42	124	45	50	34
NF Jocko R bl Tabor Feeder Canal	APR-JUL	33	35	37	119	39	41	31
	APR-SEP	35	37	39	118	41	43	33

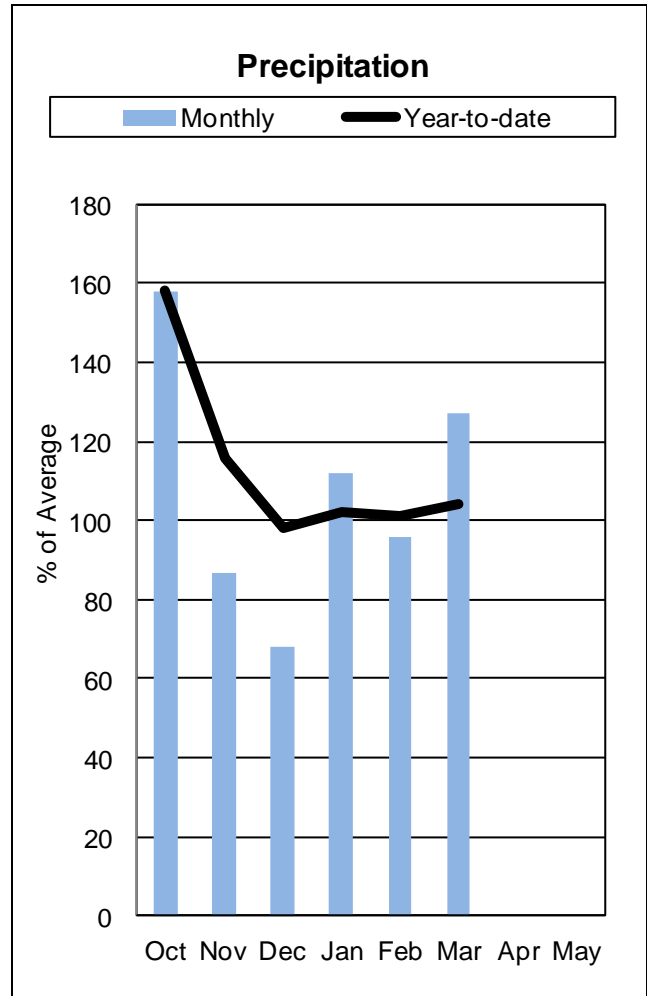
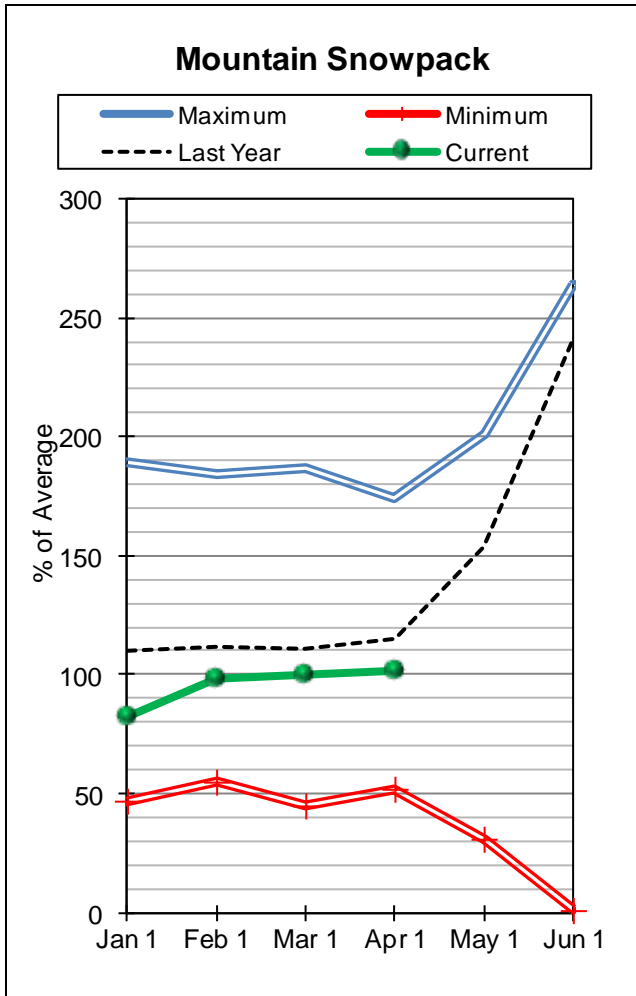
FLATHEAD RIVER BASIN Reservoir Storage (1000 AF) - End of March					FLATHEAD RIVER BASIN Watershed Snowpack Analysis - April 1, 2012			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CAMAS (4)	45.2	28.9	---	25.4	NF FLATHEAD in CANADA	4	94	122
LOWER JOCKO LAKE	6.4	0.0	---	0.1	NF FLATHEAD in MONTANA	9	88	111
MISSION VALLEY (8)	100.0	33.7	---	38.8	MIDDLE FORK FLATHEAD	5	92	109
HUNGRY HORSE	3451.0	2734.0	2165.0	1886.7	SOUTH FORK FLATHEAD	7	73	96
FLATHEAD LAKE	1791.0	705.0	810.1	738.5	STILLWATER-WHITEFISH	10	81	110
					SWAN	7	73	100
					MISSION VALLEY	4	73	108
					LITTLE BITTERROOT-ASHLEY	6	69	100
					JOCKO	4	80	102
					FLATHEAD in MONTANA	37	80	106
FLATHEAD RIVER BASIN	41	81	108					

* 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 1971-2000 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.
- (3) - Median value used in place of average.

Upper Clark Fork River Basin



Snowpack conditions in the Upper Clark Fork River Basin were near average on April 1. Snow water content was 102 percent of average and 89 percent of last year.

Mountain precipitation during March was 126 percent of average and 105 percent of last year. Valley precipitation during March was 163 percent of average and 176 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2011, was 104 percent of average and 92 percent of last year.

East Fork Rock Creek storage was 126 percent of average and 102 percent of last year; and Nevada Creek storage was 147 percent of average and 100 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 106 percent.

Surface Water Supply Index (SWSI) was +1.1 in the Clark Fork River above Milltown; and +1.2 in the Blackfoot River.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - April 1, 2012

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		30%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Little Blackfoot R nr Garrison	APR-JUL	53	69	80	105	91	107	76
	APR-SEP	57	75	87	104	99	117	84
Flint Ck nr Southern Cross	APR-JUL	7.6	11.3	13.8	101	16.3	20	13.7
	APR-SEP	8.5	13.1	16.3	101	19.5	24	16.2
Flint Ck bl Boulder Ck	APR-JUL	34	48	58	104	68	82	56
	APR-SEP	44	61	73	103	85	102	71
Lower Willow Ck Reservoir Inflow (2)	APR-MAY	4.5	6.6	8.0	98	9.4	11.5	8.2
	APR-JUL	6.4	9.7	12.0	96	14.3	17.6	12.5
MF Rock Ck nr Philipsburg	APR-JUL	50	60	66	103	72	82	64
	APR-SEP	56	67	74	103	81	92	72
Rock Ck nr Clinton	APR-JUL	215	260	290	107	320	365	270
	APR-SEP	245	295	330	108	365	415	305
Clark Fork R ab Milltown	APR-JUL	405	540	630	104	720	855	605
	APR-SEP	480	630	730	104	830	980	705
Nevada Ck nr Helmville	APR-MAY	7.3	10.4	12.5	121	14.6	17.7	10.3
	APR-JUL	12.4	17.5	21	121	24	30	17.3
Blackfoot R nr Bonner	APR-JUL	685	790	860	107	930	1040	805
	APR-SEP	760	875	950	107	1030	1140	890
Clark Fork R ab Missoula	APR-JUL	1130	1350	1500	106	1650	1870	1410
	APR-SEP	1300	1540	1700	106	1860	2100	1600

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

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - April 1, 2012

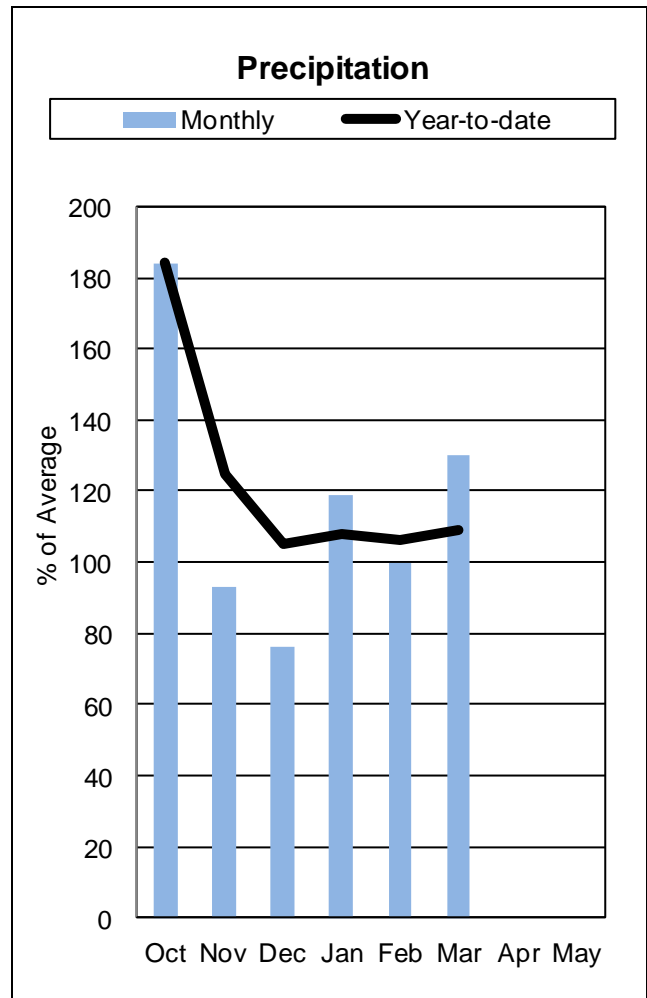
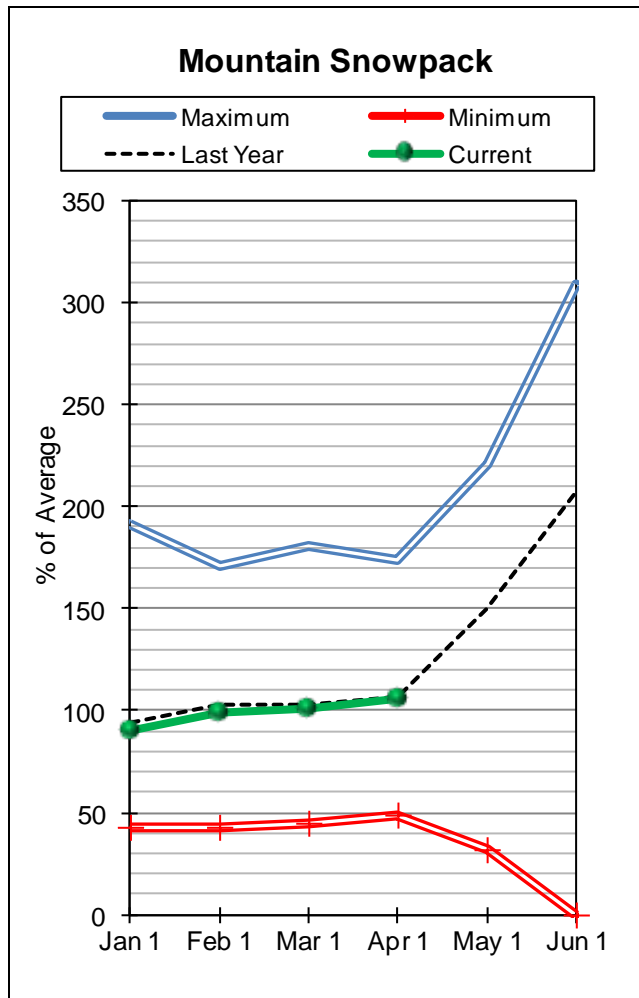
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
EAST FORK ROCK CREEK	15.6	12.5	12.2	9.9	CLARK FORK ab FLINT CREEK	15	94	103
GEORGETOWN LAKE	31.0	28.3	---	26.2	FLINT CREEK	6	88	99
LOWER WILLOW CREEK		NO REPORT			ROCK CREEK	5	96	106
NEVADA CREEK	12.6	11.2	11.2	7.6	CLARK FORK ab BLACKFOOT	24	94	104
					BLACKFOOT	14	85	101
					UPPER CLARK FORK BASIN	35	89	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 1971-2000 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.
- (3) - Median value used in place of average.

Bitterroot River Basin



Snowpack conditions in the Bitterroot River Basin were near average on April 1. Snow water content was 106 percent of average and 99 percent of last year.

Mountain precipitation during March was 128 percent of average and 95 percent of last year. Valley precipitation during March was 166 percent of average and 178 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2011, was 109 percent of average and 96 percent of last year.

Painted Rocks Lake storage was 160 percent of average and 92 percent of last year and Como storage was 103 percent of average and 86 percent of last year.

Assuming near average precipitation, April through July streamflows are forecast to average 104 percent.

Surface Water Supply Index (SWSI) was +1.2 in the Bitterroot River.

BITTERROOT RIVER BASIN
Streamflow Forecasts - April 1, 2012

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	105	130	147	103	164	189	143
	APR-SEP	116	142	160	102	178	205	157
Bitterroot R nr Darby	APR-JUL	345	415	465	101	515	585	460
	APR-SEP	395	465	515	100	565	635	515
Como Reservoir Inflow (2)	APR-JUL	71	78	83	106	88	95	78
	APR-SEP	74	82	87	106	92	100	82
Bitterroot R nr Missoula	APR-JUL	1060	1220	1320	106	1420	1580	1250
	APR-SEP	1160	1330	1440	105	1550	1720	1370

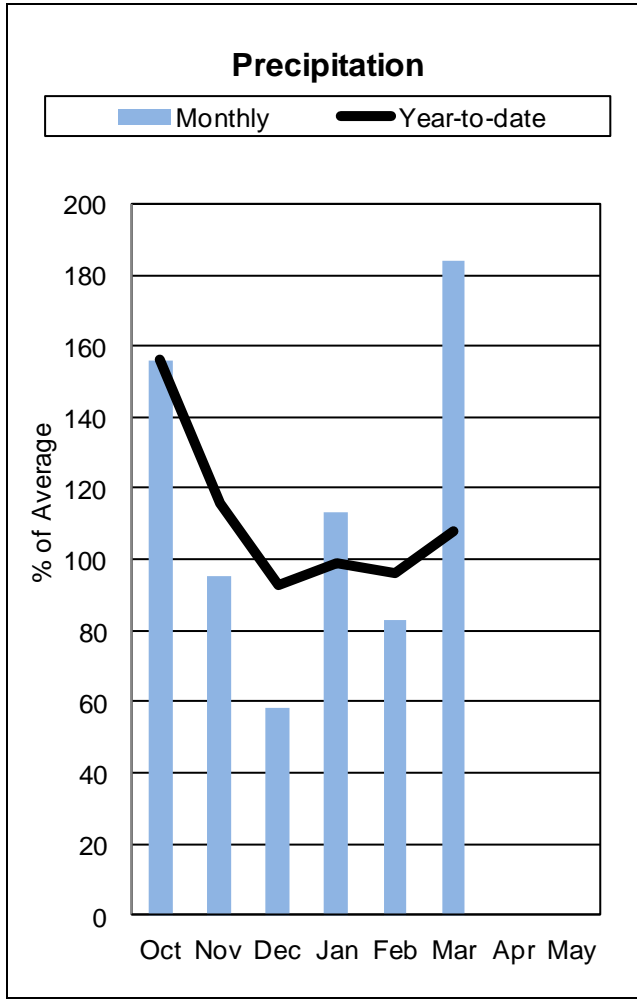
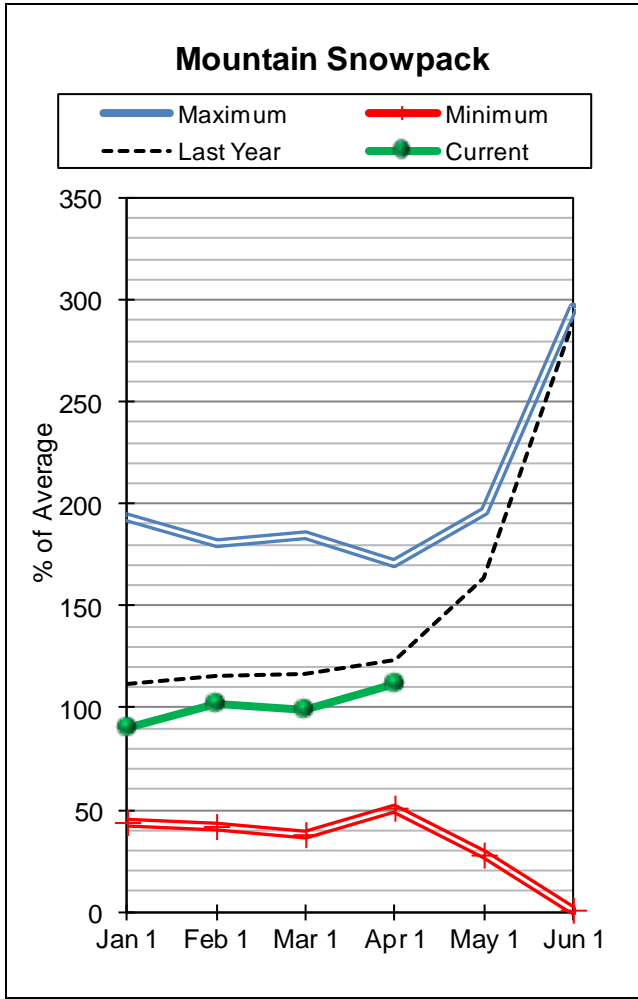
BITTERROOT RIVER BASIN Reservoir Storage (1000 AF) - End of March					BITTERROOT RIVER BASIN Watershed Snowpack Analysis - April 1, 2012			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
PAINTED ROCKS LAKE	31.7	15.4	16.7	9.6	WEST FORK BITTERROOT	3	98	101
COMO	34.9	15.3	17.7	14.9	EAST SIDE BITTERROOT	6	93	103
					WEST SIDE BITTERROOT	3	105	110
					BITTERROOT RIVER BASIN	11	99	106

* 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 1971-2000 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.
- (3) - Median value used in place of average.

Lower Clark Fork River Basin



Snowpack conditions in the Lower Clark Fork River Basin were above average on April 1. Snow water content was 112 percent of average and 91 percent of last year.

Mountain precipitation during March was 180 percent of average and 119 percent of last year. Valley precipitation during March was 210 percent of average and 143 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2011, was 108 percent of average and 89 percent of last year.

Storage at the end of March in Noxon Rapids was 113 percent of average and 101 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 93 percent.

Surface Water Supply Index (SWSI) was +1.2 in the Clark Fork River below Bitterroot River and +1.3 in the Clark Fork River below Flathead River.

=====

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - April 1, 2012

=====

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		30%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Clark Fork R bl Missoula	APR-JUL	2200	2560	2800	105	3040	3400	2660
	APR-SEP	2470	2860	3120	105	3380	3770	2960
Clark Fork R at St. Regis (1)	APR-JUL	2940	3570	3860	110	4150	4780	3520
	APR-SEP	3240	3930	4240	108	4550	5240	3910
Clark Fork R nr Plains (1,2)	APR-JUL	8750	10100	10700	106	11300	12700	10100
	APR-SEP	9570	11100	11800	106	12500	14000	11100
Thompson R nr Thompson Falls	APR-JUL	180	215	235	115	255	290	205
	APR-SEP	205	240	265	115	290	325	230
Prospect Ck at Thompson Falls	APR-JUL	110	121	129	111	137	148	116
	APR-SEP	117	129	137	111	145	157	124
Clark Fork at Whitehorse Rpds (1,2)	APR-JUL	10200	11700	12300	109	12900	14400	11300
	APR-SEP	11200	12800	13500	108	14200	15800	12500

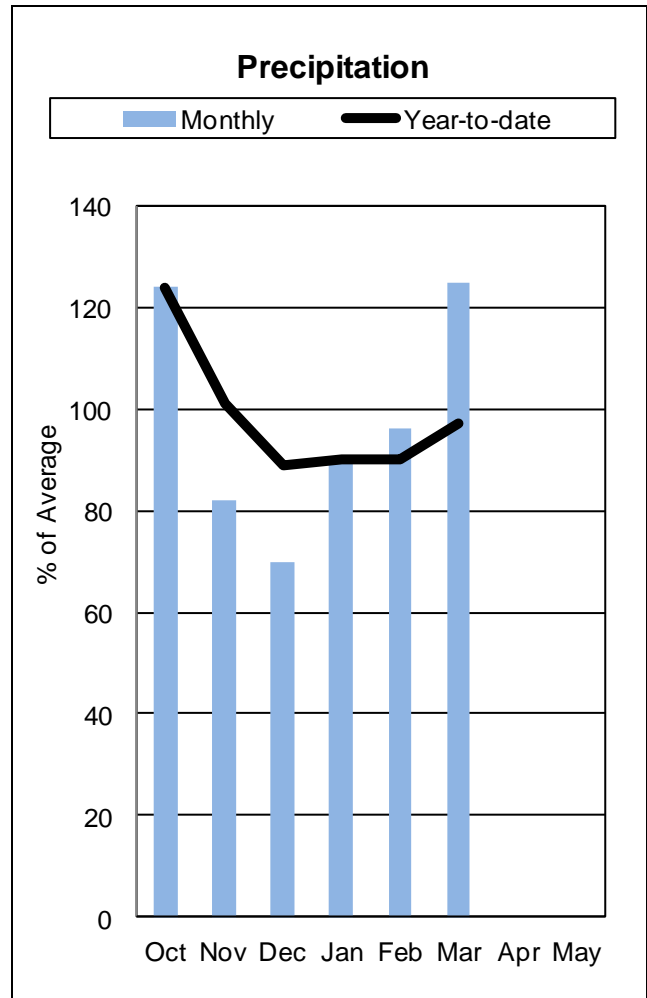
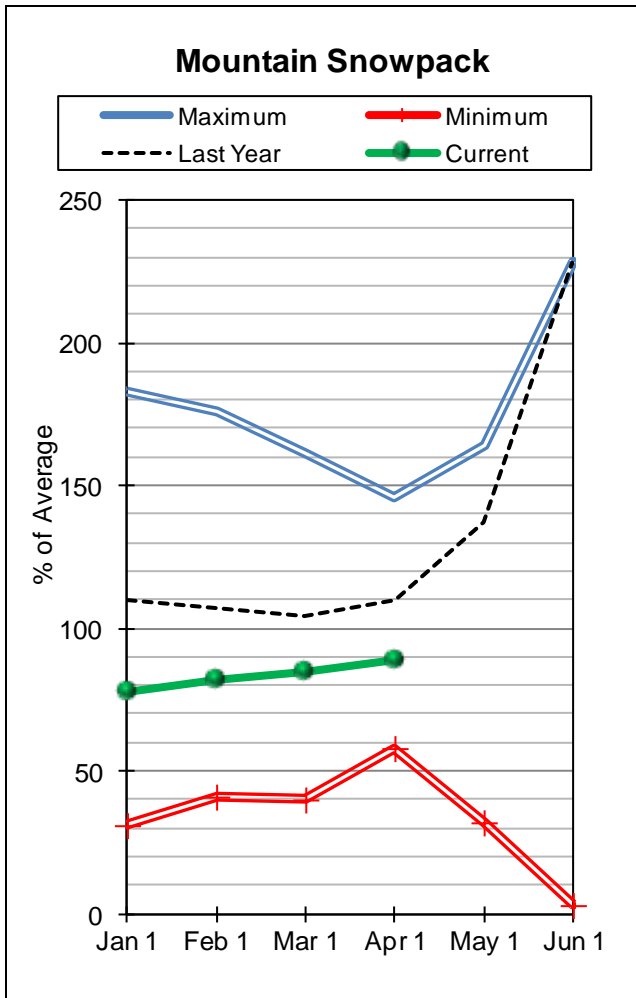
LOWER CLARK FORK RIVER BASIN Reservoir Storage (1000 AF) - End of March					LOWER CLARK FORK RIVER BASIN Watershed Snowpack Analysis - April 1, 2012			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
NOXON RAPIDS	335.0	308.3	305.3	272.9	LOWER CLARK FORK BASIN	13	91	112

* 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 1971-2000 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.
- (3) - Median value used in place of average.

Jefferson River Basin



Snowpack conditions in the Jefferson River Basin were below average on April 1. Snow water content was 89 percent of average and 81 percent of last year.

Mountain precipitation during March was 126 percent of average and 94 percent of last year. Valley precipitation during March was 110 percent of average and 335 percent of last year based on one station. Mountain and valley water year precipitation, beginning October 1, 2011, was 97 percent of average and 87 percent of last year.

Lima storage was 156 percent of average and 121 percent of last year; Clark Canyon storage was 110 percent of average and 104 percent of last year; Ruby River storage was 120 percent of average and 115 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 84 percent.

Surface Water Supply Index (SWSI) was +0.7 in the Beaverhead River; -0.7 in the Ruby River; -0.2 in the Big Hole River; +0.1 in the Boulder River; and +1.0 in the Jefferson River near Three Forks.

JEFFERSON RIVER BASIN
Streamflow Forecasts - April 1, 2012

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		10%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Lima Reservoir Inflow (2)	APR-JUL	67	77	84	88	91	101	96
	APR-SEP	69	81	89	86	97	109	104
Clark Canyon Reservoir Inflow (2)	APR-JUL	35	75	102	78	129	169	131
	APR-SEP	48	90	119	76	148	190	156
Beaverhead R at Barretts (2)	APR-JUL	31	94	136	81	178	240	168
	APR-SEP	35	109	159	80	210	285	200
Ruby R Reservoir Inflow (2)	APR-JUL	42	56	65	77	74	88	84
	APR-SEP	52	67	78	77	89	104	101
Big Hole R at Wisdom	APR-JUL	34	73	99	82	125	164	121
	APR-SEP	34	76	105	81	134	176	130
Big Hole R nr Melrose	APR-JUL	365	455	520	85	585	675	610
	APR-SEP	390	490	560	85	630	730	660
Jefferson R nr Twin Bridges (2)	APR-JUL	320	515	650	83	785	980	785
	APR-SEP	320	545	695	79	845	1070	880
Boulder R nr Boulder	APR-JUL	49	63	73	94	83	97	78
	APR-SEP	52	68	79	93	90	106	85
Willow Ck Reservoir Inflow (2)	APR-JUL	6.8	11.4	14.5	81	17.6	22	17.9
	APR-SEP	7.6	12.7	16.2	81	19.7	25	20
Jefferson R nr Three Forks (2)	APR-JUL	335	535	675	87	815	1020	780
	APR-SEP	345	570	725	84	880	1110	860

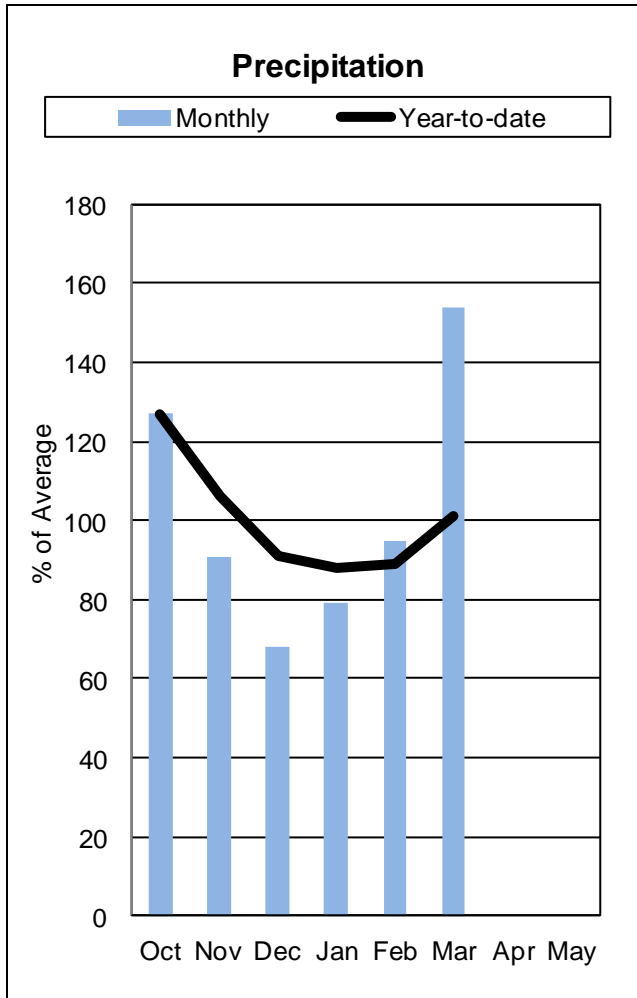
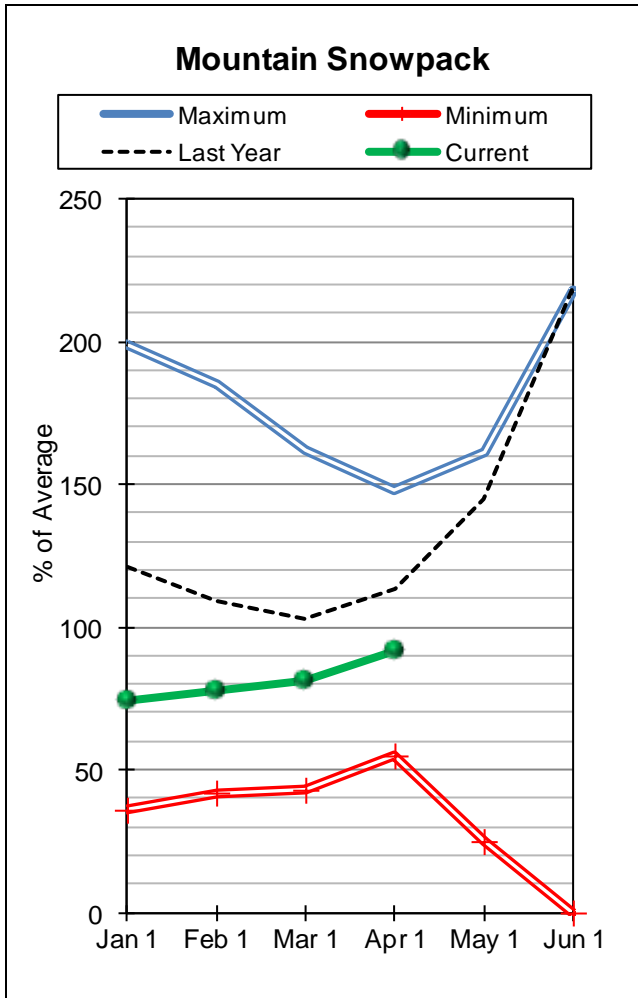
JEFFERSON RIVER BASIN Reservoir Storage (1000 AF) - End of March					JEFFERSON RIVER BASIN Watershed Snowpack Analysis - April 1, 2012			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
LIMA	84.0	61.0	50.6	39.1	BEAVERHEAD	14	77	88
CLARK CANYON	255.6	167.1	160.5	152.0	RUBY	9	86	86
RUBY RIVER	38.8	37.7	32.9	31.5	BIGHOLE	17	82	92
					BOULDER	8	79	89
					JEFFERSON RIVER BASIN	41	81	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 1971-2000 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.
- (3) - Median value used in place of average.

Madison River Basin



Snowpack conditions in the Madison River Basin were below average on April 1. Snow water content was 92 percent of average and 81 percent of last year.

Mountain and valley precipitation during March was 154 percent of average and 110 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2011, was 101 percent of average and 90 percent of last year.

Ennis Lake storage was 95 percent of average and 100 percent of last year and Hebgen Lake storage was 88 percent of average and 82 percent of last year.

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

Surface Water Supply Index (SWSI) was -0.4 for the Madison River.

MADISON RIVER BASIN
Streamflow Forecasts - April 1, 2012

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						
		90%		50%		30%		30-Yr Avg.
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Hebgen Reservoir Inflow (2)	APR-JUL	330	360	380	96	400	430	395
	APR-SEP	425	460	485	96	510	545	505
Ennis Reservoir Inflow (2)	APR-JUL	515	585	635	93	685	755	680
	APR-SEP	660	740	795	94	850	930	850

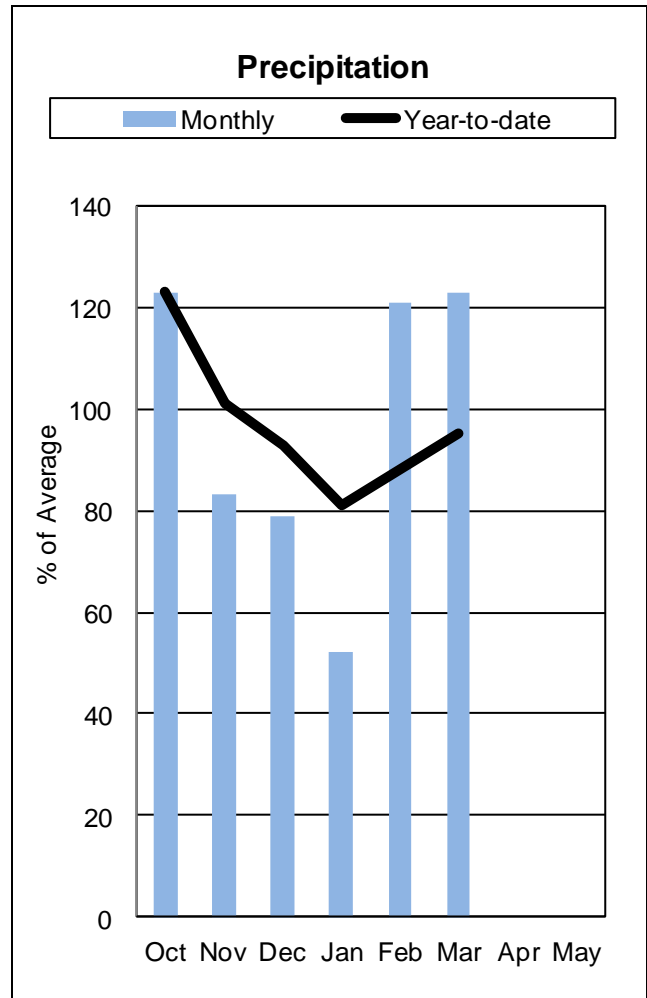
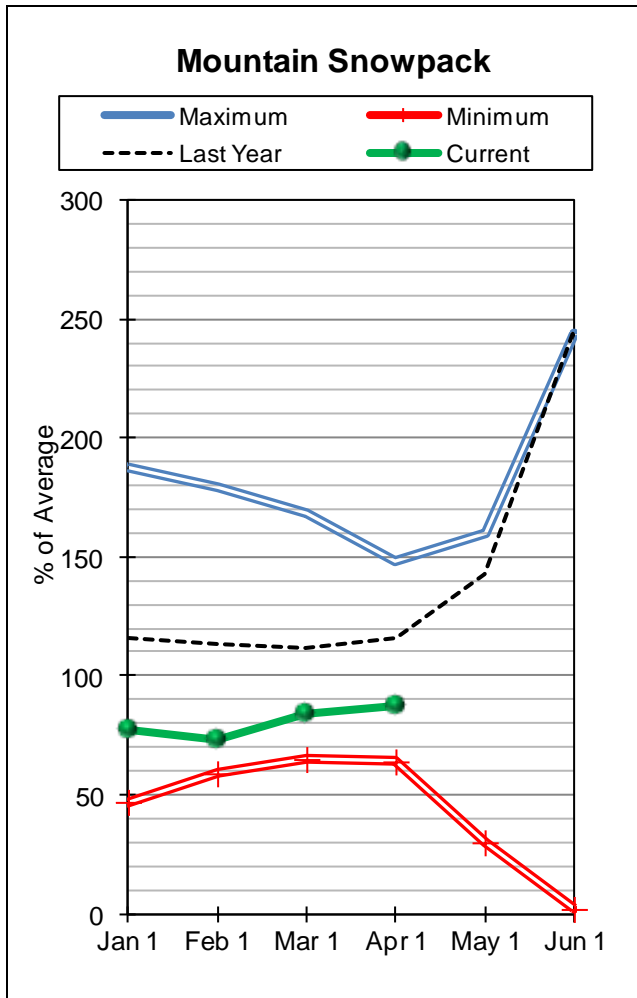
Reservoir	MADISON RIVER BASIN Reservoir Storage (1000 AF) - End of March				MADISON RIVER BASIN Watershed Snowpack Analysis - April 1, 2012			
	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
ENNIS LAKE	41.0	29.6	29.6	31.2	MADISON abv HEBGEN LAKE	6	78	94
HEBGEN LAKE	377.5	227.8	276.8	259.6	MADISON blw HEBGEN LAKE	10	80	87
					MADISON RIVER BASIN	16	79	90

* 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 1971-2000 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.
- (3) - Median value used in place of average.

Gallatin River Basin



Snowpack conditions in the Gallatin River Basin were below average on April 1. Snow water content was 87 percent of average and 75 percent of last year.

Mountain precipitation during March was 123 percent of average and 90 percent of last year. Valley precipitation during March was 121 percent of average and 111 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2011, was 95 percent of average and 82 percent of last year.

Middle Creek storage was 91 percent of average and 67 percent of last year.

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

Surface Water Supply Index (SWSI) was -0.4 for the Gallatin River.

=====

GALLATIN RIVER BASIN
Streamflow Forecasts - April 1, 2012

=====

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		30%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Gallatin R nr Gateway	APR-JUL	310	365	400	91	435	490	440
	APR-SEP	365	430	470	91	510	575	515
Hyalite Reservoir Inflow (2)	APR-JUL	17.1	19.1	20	91	22	24	22
	APR-SEP	19.5	22	23	92	24	26	25
Gallatin R at Logan	APR-JUL	275	370	435	88	500	595	495
	APR-SEP	325	435	510	90	585	695	570

GALLATIN RIVER BASIN Reservoir Storage (1000 AF) - End of March					GALLATIN RIVER BASIN Watershed Snowpack Analysis - April 1, 2012			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
MIDDLE CREEK	10.2	4.3	6.4	4.7	UPPER GALLATIN	7	75	89
					HYALITE	3	82	84
					BRIDGER	2	67	84
					GALLATIN RIVER BASIN	12	75	87

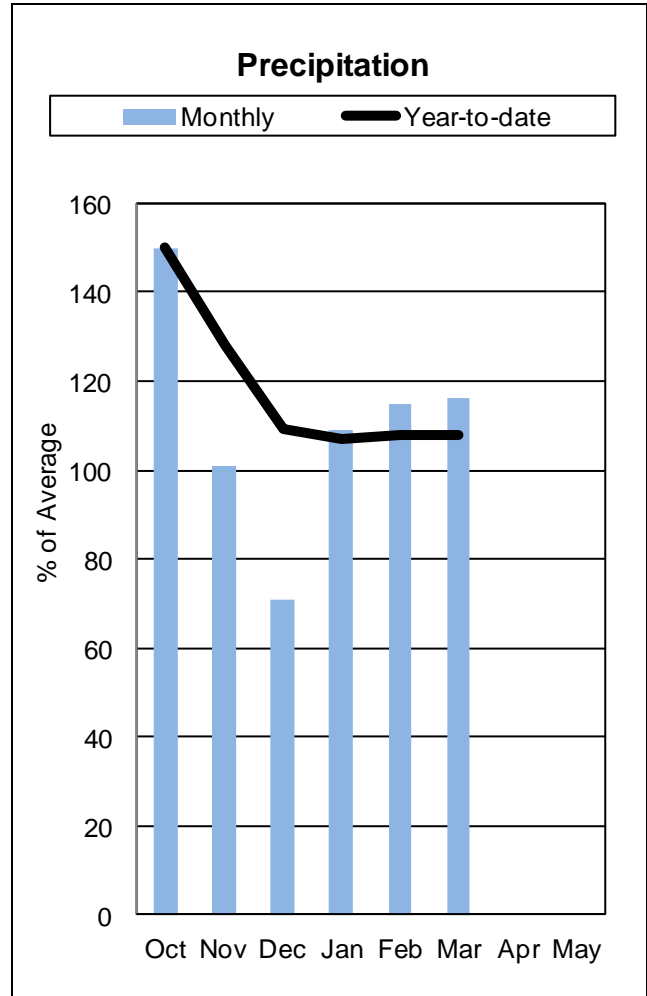
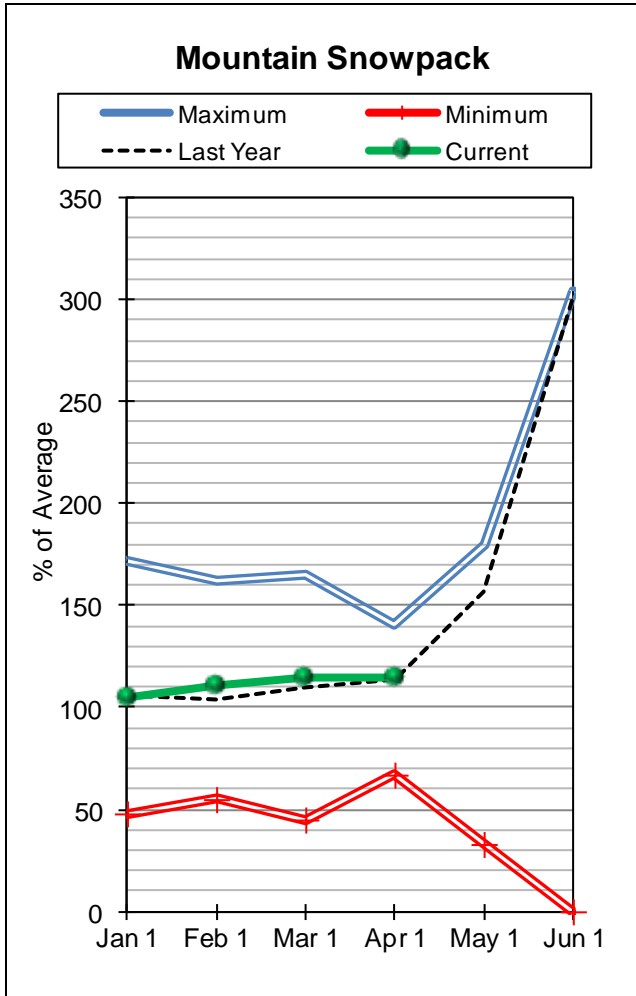
=====

* 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 1971-2000 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.
- (3) - Median value used in place of average.

Missouri Mainstem River Basin



Snowpack conditions in the Headwaters Missouri Mainstem River Basin were well above average on April 1. Snow water content was 115 percent of average and 101 percent of last year.

Mountain precipitation during March was 125 percent of average and 102 percent of last year. Valley precipitation during March was 89 percent of average and 120 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2011, was 108 percent of average and 93 percent of last year.

Canyon Ferry Lake storage was 104 percent of average and 110 percent of last year; Helena Valley storage was 141 percent of average and 104 percent of last year; Lake Helena storage was 76 percent of average and 100 percent of last year; Hauser & Helena storage was 112 percent of average and 100 percent of last year; Holter Lake storage was 110 percent of average and 101 percent of last year; and Fort Peck Lake storage was 101 percent of average and 95 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 89 percent.

Surface Water Supply Index (SWSI) was +0.2 in the Missouri River above Canyon Ferry; -0.6 in the Missouri River below Canyon Ferry; +0.9 in the Missouri River above Fort Peck; and +0.6 in the Missouri River below Fort Peck.

MISSOURI MAINSTEM RIVER BASIN
Streamflow Forecasts - April 1, 2012

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		Drier		Wetter				
		90% (1000AF)	70% (1000AF)	50% (1000AF)	30% (1000AF)	10% (1000AF)	Chance Of Exceeding * (% AVG.)	
Missouri R at Toston (2)	APR-JUL	1210	1550	1780	87	2010	2350	2050
	APR-SEP	1380	1790	2070	87	2350	2760	2390
Dearborn R nr Craig	APR-JUL	70	99	118	98	137	166	121
	APR-SEP	75	106	126	101	146	177	125
Missouri R at Fort Benton (2)	APR-JUL	1680	2260	2660	89	3060	3640	2990
	APR-SEP	2000	2710	3180	89	3650	4360	3570
Missouri R nr Virgelle (2)	APR-JUL	1970	2640	3100	90	3560	4230	3450
	APR-SEP	2310	3110	3650	90	4190	4990	4060
Missouri R nr Landusky (2)	APR-JUL	2070	2790	3280	89	3770	4490	3690
	APR-SEP	2430	3290	3870	89	4450	5310	4350
Missouri R bl Fort Peck Dam (2)	APR-JUL	2150	2870	3370	90	3870	4590	3740
	APR-SEP	2470	3330	3900	90	4470	5330	4330
Lake Sakakawea Inflow (2)	APR-JUL	4890	6790	8080	83	9370	11300	9740
	APR-SEP	5550	7780	9260	83	10700	13000	11200

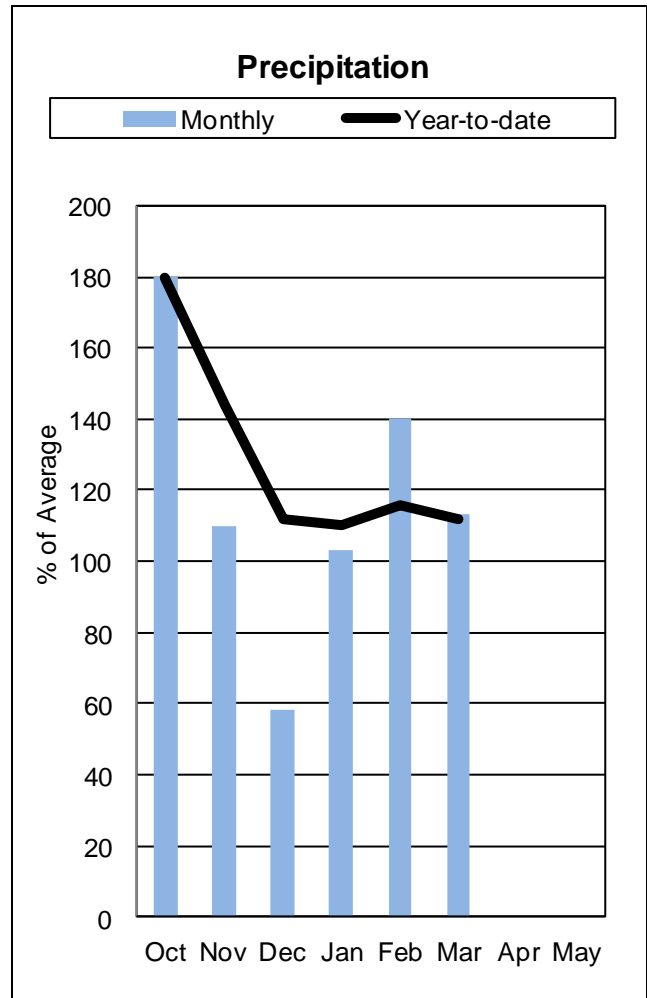
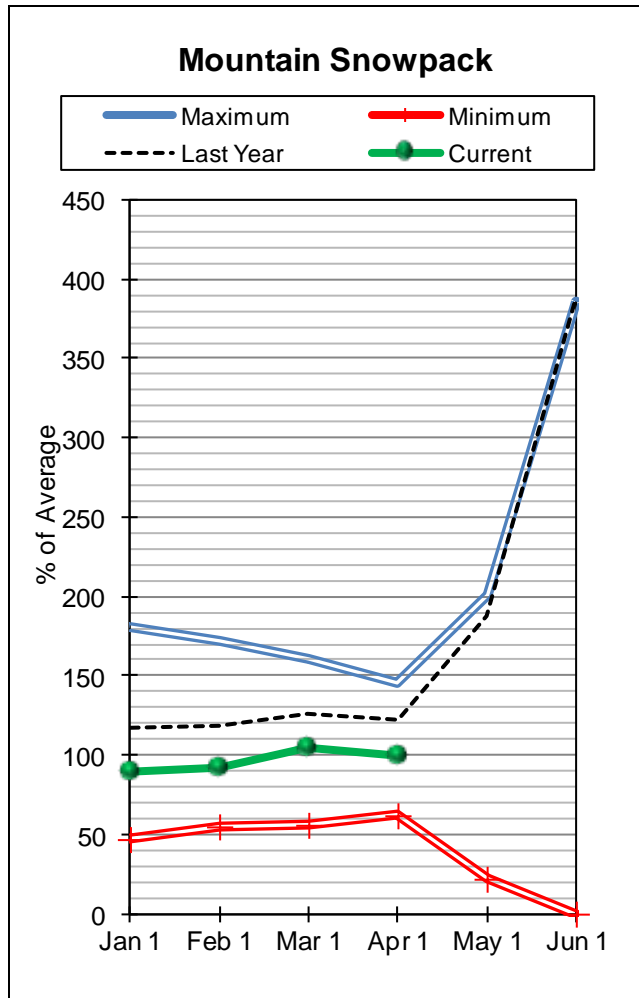
MISSOURI MAINSTEM RIVER BASIN Reservoir Storage (1000 AF) - End of March					MISSOURI MAINSTEM RIVER BASIN Watershed Snowpack Analysis - April 1, 2012			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CANYON FERRY LAKE	2043.0	1529.0	1390.0	1467.8	HEADWATERS MAINSTEM	9	101	115
HELENA VALLEY	9.2	5.5	5.3	3.9	SMITH-JUDITH-MUSSELSHELL	16	82	100
LAKE HELENA	12.7	10.0	10.0	13.1	SUN-TETON-MARIAS	11	89	109
HAUSER & HELENA	74.6	70.6	70.6	62.8	MAINSTEM ab FT PECK RES	35	88	106
HOLTER LAKE	81.9	81.4	80.5	74.1	MILK RIVER BASIN	3	15	25
FORT PECK LAKE	18910.0	15190.0	16020.0	14966.0	MISSOURI MAINSTEM BASIN	38	85	104

* 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 1971-2000 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.
- (3) - Median value used in place of average.

Smith-Judith-Musselshell River Basins



Snowpack conditions in the Smith-Judith-Musselshell River Basins were near average April 1. Snow water content was 100 percent of average and 82 percent of last year. Snow water content in the Smith River Basin was 109 percent of average and 91 percent of last year; the Judith River Basin was 101 percent of average and 82 percent of last year; and the Musselshell Basin River was 79 percent of average and 74 percent of last year.

Mountain and valley precipitation during March in the Smith-Belts was 127 percent of average and 130 percent of last year; in the Judith was 97 percent of average and 103 percent of last year; and in the Musselshell was 95 percent of average and 113 percent of last year. Mountain and valley water year precipitation for the greater basin, beginning October 1, 2011, was 112 percent of average and 97 percent of last year.

Smith River storage was 116 percent of average and 101 percent of last year; Ackley storage was 106 percent of average and 81 percent of last year; Bair storage was 140 percent of average and 102 percent of last year; Martinsdale storage was 102 percent of average and 62 percent of last year; and Deadman's Basin was 121 percent of average and 95 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 101 percent.

Surface Water Supply Index (SWSI) was +3.2 in the Smith River, +2.6 in the Upper Judith River, and +1.4 in the Musselshell River.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - April 1, 2012

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	13.1	16.3	18.5	108	21	24	17.1
	APR-SEP	14.4	18.3	21	105	24	28	20
Smith R bl Eagle Ck (2)	APR-JUL	93	124	145	109	166	197	133
	APR-SEP	95	132	158	106	184	220	149
NF Musselshell R nr Delpine	APR-JUL	3.4	4.5	5.3	115	6.1	7.2	4.6
	APR-SEP	3.9	5.2	6.1	113	7.0	8.3	5.4
SF Musselshell R ab Martinsdale	APR-JUL	8.8	25	36	69	47	63	52
	APR-SEP	9.4	27	39	70	51	69	56
Musselshell R at Harlowton (2)	APR-JUL	28	59	79	103	99	130	77
	APR-SEP	24	57	79	98	101	134	81
Musselshell R nr Roundup (2)	APR-JUL	40	60	102	103	144	205	99
	APR-SEP	39	56	98	96	140	200	102

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

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - April 1, 2012

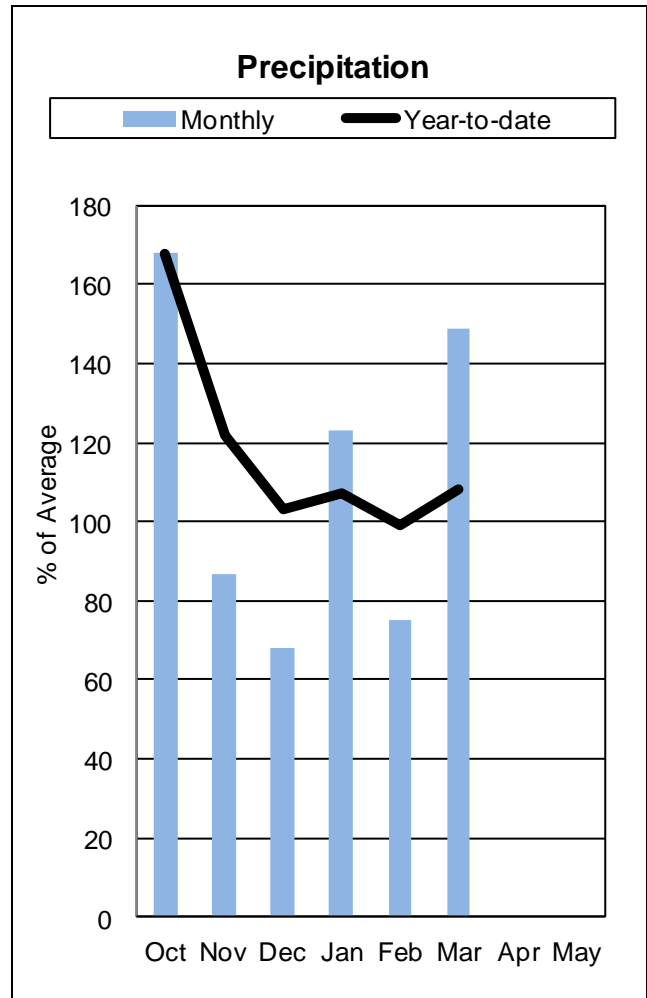
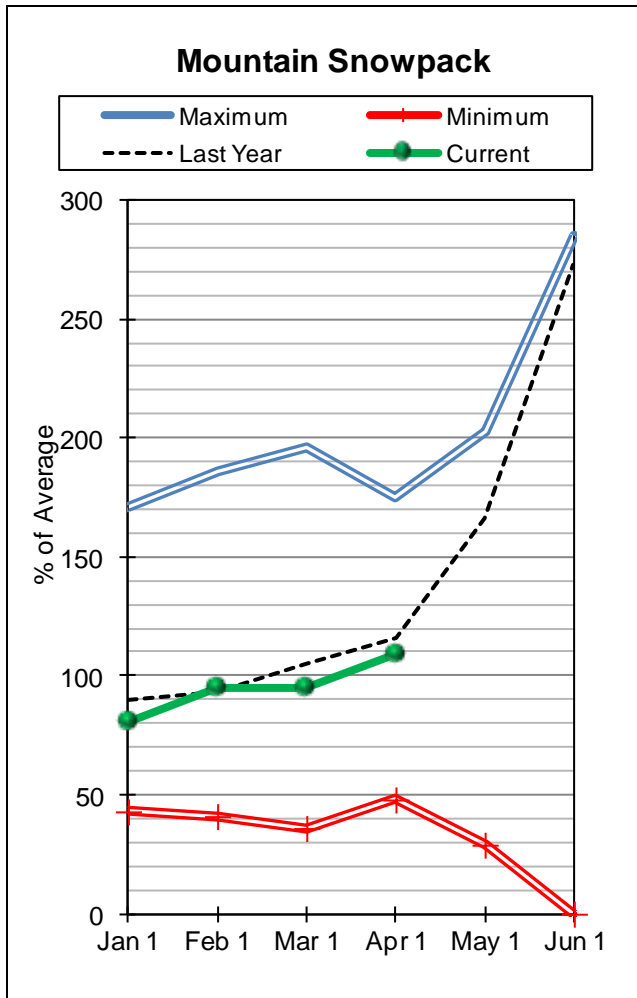
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
SMITH RIVER	10.6	8.6	8.5	7.4	SMITH	7	91	109
ACKLEY LAKE	7.0	3.4	4.2	3.2	HIGHWOOD	2	69	96
BAIR	7.0	6.3	6.2	4.5	JUDITH	8	82	101
MARTINSDALE	23.1	11.1	17.8	10.9	MUSSELSHELL	4	74	79
DEADMAN'S BASIN	72.2	68.0	65.8	54.2	SMITH-JUDITH-MUSSELSHELL	16	82	100

* 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 1971-2000 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.
- (3) - Median value used in place of average.

Sun-Teton-Marias River Basins



Snowpack conditions in the Sun-Teton-Marias River Basins were near average on April 1. Snow water content was 109 percent of average and 89 percent of last year. Snow water content in the Sun River Basin was 108 percent of average and 83 percent of last year; the Teton River Basin was 115 percent of average and 92 percent of last year; and the Marias River Basin was 108 percent of average and 93 percent of last year.

Mountain and valley precipitation during March in the Sun was 133 percent of average and 101 percent of last year; in the Teton was 148 percent of average and 100 percent of last year; and in the Marias was 152 percent of average and 120 percent of last year. Mountain and valley water year precipitation for the greater basin, beginning October 1, 2011, was 108 percent of average and 103 percent of last year.

Gibson storage was 40 percent of average and 132 percent of last year; Pishkun storage was 107 percent of average and 93 percent of last year; Willow Creek storage was 123 percent of average and 110 percent of last year; Lower Two Medicine Lake storage was 65 percent of average and 131 percent of last year; Swift storage was 76 percent of average and 92 percent of last year; Lake Frances storage was 123 percent of average and 110 percent of last year; and Lake Elwell (Tiber) storage was 110 percent of average and 92 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 119 percent.

Surface Water Supply Index (SWSI) was +1.5 in the Sun River; +1.8 in the Teton River; +2.4 in the Birch/Dupuyer Creeks; +1.7 in the Marias above Tiber Reservoir.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - April 1, 2012

Forecast Point	Forecast Period	Future Conditions				Wetter		30-Yr Avg. (1000AF)
		Drier		50%		30%	10%	
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Gibson Reservoir Inflow (2)	APR-JUL	420	470	505	110	535	585	460
	APR-SEP	465	520	555	110	590	645	505
Two Medicine R nr Browning (2)	APR-JUL	200	225	240	117	255	280	205
	APR-SEP	210	235	255	119	270	295	215
Badger Ck nr Browning	APR-JUL	82	95	104	121	113	126	86
	APR-SEP	89	104	114	120	124	139	95
Swift Reservoir Inflow (2)	APR-JUL	58	69	76	119	83	94	64
	APR-SEP	68	80	89	116	98	110	77
Dupuyer Ck nr Valier	APR-JUL	4.1	11.2	16.0	114	21	28	14.0
	APR-SEP	4.8	12.7	18.0	115	23	31	15.7
Cut Bank Ck nr Browning	APR-JUL	69	81	89	116	97	109	77
	APR-SEP	75	88	97	116	106	119	84
Marias R nr Shelby (2)	APR-JUL	355	455	520	125	585	685	415
	APR-SEP	350	455	530	121	605	710	440
Teton R nr Dutton	APR-JUL	22	48	66	129	84	110	51
	APR-SEP	28	56	75	127	94	122	59

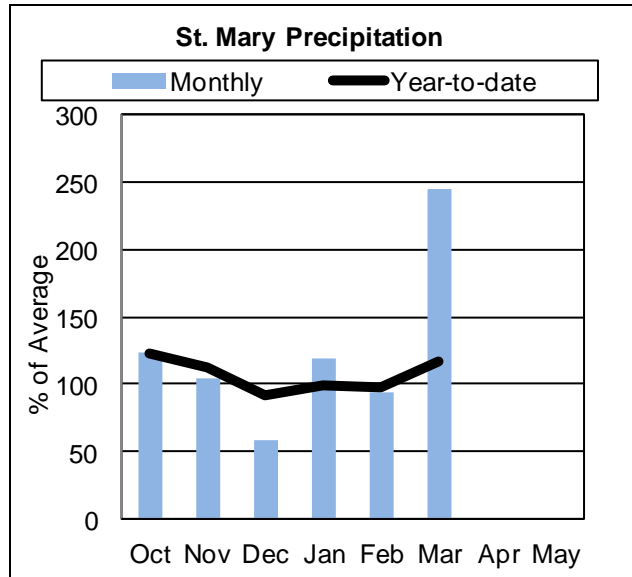
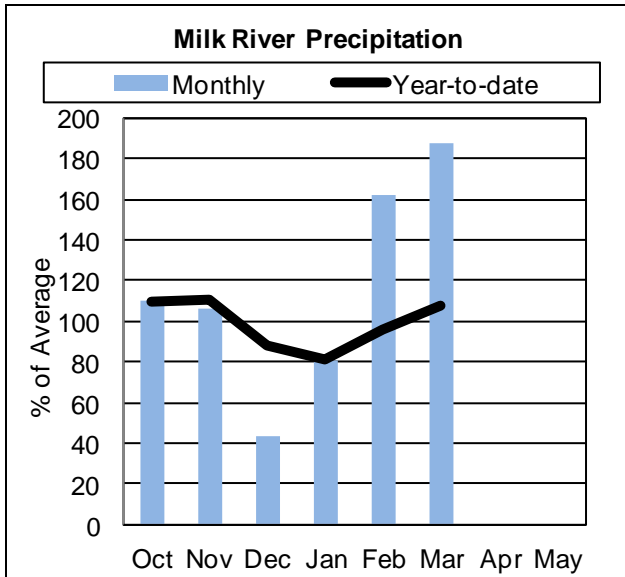
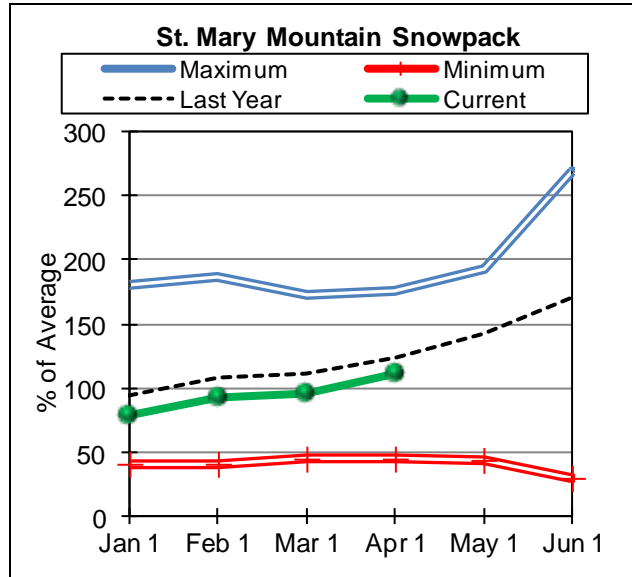
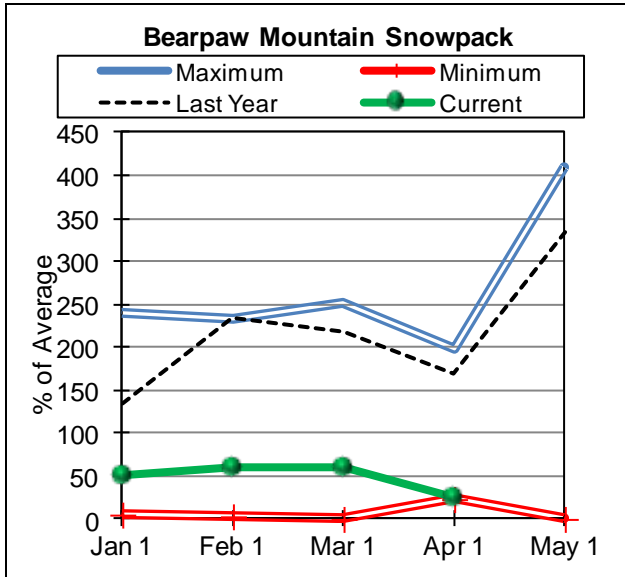
Reservoir	SUN-TETON-MARIAS RIVER BASINS Reservoir Storage (1000 AF) - End of March				SUN-TETON-MARIAS RIVER BASINS Watershed Snowpack Analysis - April 1, 2012			
	Usable Capacity	*** This Year	Usable Last Year	Storage *** Avg	Watershed	Number of Data Sites	This Year as % of Last Yr	% of Average
GIBSON	99.1	21.4	16.2	53.6	SUN	6	83	108
PISHKUN	32.0	19.5	21.0	18.3	TETON	4	92	115
WILLOW CREEK	32.2	29.2	26.5	23.8	MARIAS	4	93	108
LOWER TWO MEDICINE LAKE	11.9	6.3	4.8	9.7	SUN-TETON-MARIAS	12	89	109
FOUR HORNS LAKE	19.2	3.2	8.8	12.0				
SWIFT	30.0	13.3	14.5	17.4				
LAKE FRANCES	112.0	85.0	77.2	69.1				
LAKE ELWELL (TIBER)	1347.0	710.0	771.4	645.6				

* 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 1971-2000 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.
- (3) - Median value used in place of average.

St. Mary and Milk River Basins



Snowpack in the Saint Mary River Basin was above average on April 1. Snow water content was 112 percent of average and 91 percent of last year. The Milk River Basin (Bearpaw Mountains) was well below average. Snow water content was 25 percent of average and 15 percent of last year.

Mountain and valley precipitation in the St. Mary River Basin during March was 245 percent of average and 160 percent of last year; and in the Milk River Basin during March was 188 percent of average and 157 percent of last year. Mountain and valley water year precipitation for both basins, beginning October 1, 2011, was 114 percent of average and 91 percent of last year.

Assuming average precipitation, April through July streamflows in the St. Mary are forecast to average 119 percent and the Milk to average 87 percent.

Lake Sherburne storage was 116 percent of average and 65 percent of last year; Fresno storage was 99 percent of average and 87 percent of last year; Beaver Creek storage was not available; and Nelson storage was 135 percent of average and 100 percent of last year.

Surface Water Supply Index (SWSI) was +2.8 for the St. Mary and +1.3 for the Milk River.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - April 1, 2012

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>				30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)				
Lake Sherburne Inflow (2)	APR-JUL	107	115	121	115	127	135	105
	APR-SEP	124	133	140	115	147	156	122
St. Mary R nr Babb (2)	APR-JUL	385	425	450	117	475	515	385
	APR-SEP	450	495	525	117	555	600	450
St. Mary R at Int'l Boundary (2)	APR-JUL	445	500	540	124	580	635	435
	APR-SEP	525	585	625	121	665	725	515
Milk R at Western Crossing (3)	APR-JUL	23	30	34	103	38	45	33
	APR-SEP	24	32	37	103	42	50	36
Milk R at Eastern Crossing (2,3)	APR-JUL	19.2	44	61	101	78	103	61
	APR-SEP	25	52	70	101	89	116	69
Beaver Ck nr Havre	APR-JUL	0.4	3.1	4.9	56	6.7	9.4	8.7

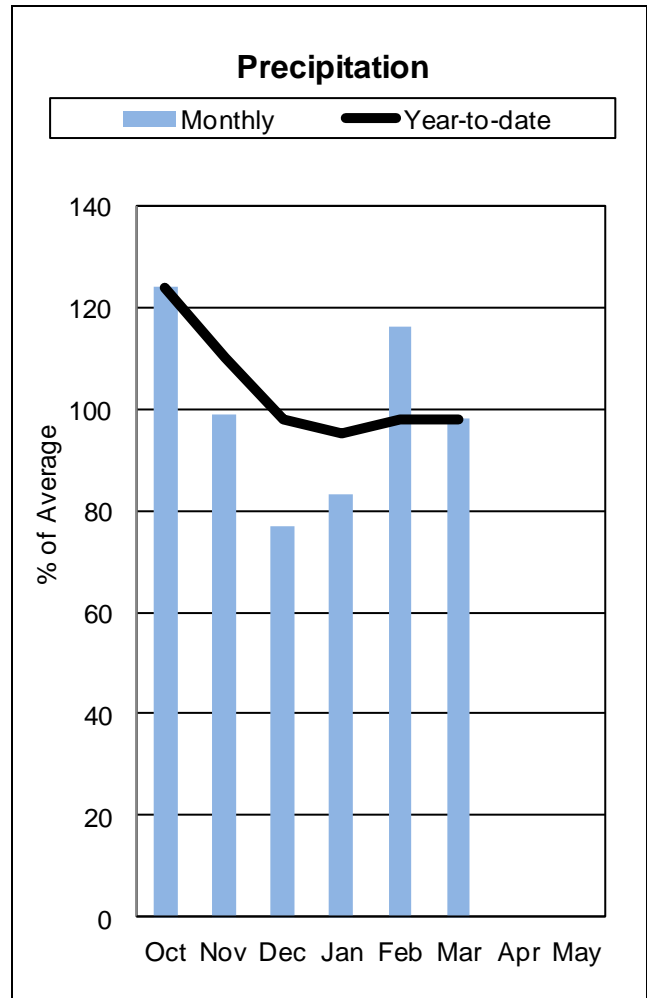
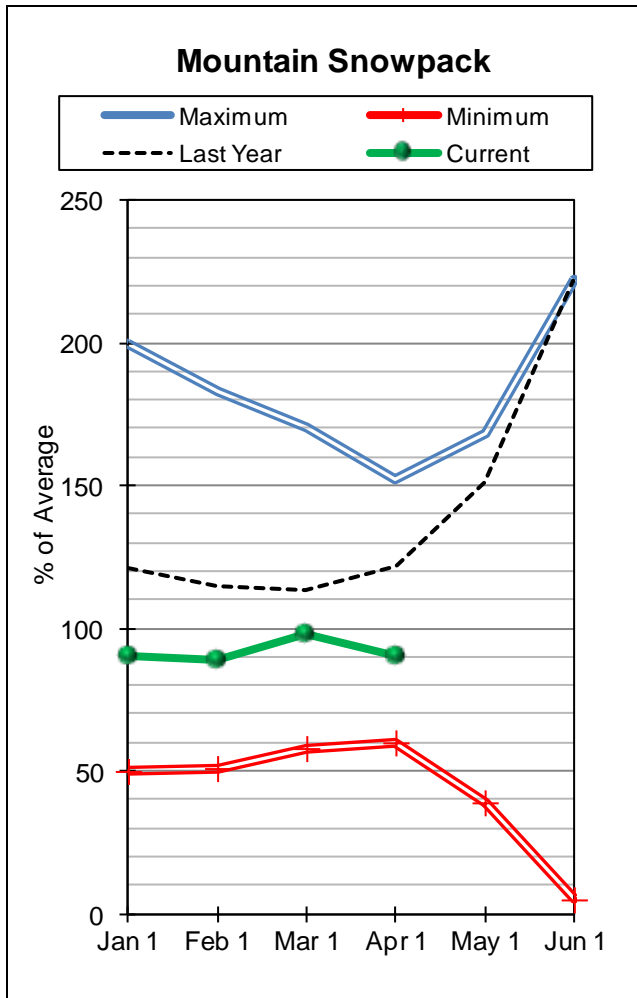
ST. MARY and MILK RIVER BASINS Reservoir Storage (1000 AF) - End of March					ST. MARY and MILK RIVER BASINS Watershed Snowpack Analysis - April 1, 2012			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
LAKE SHERBURNE	64.3	29.9	45.9	25.7	ST. MARY	3	91	112
FRESNO	127.0	74.5	85.3	75.0	BEARPAW MOUNTAINS	3	15	25
BEAVER CREEK		NO REPORT			CYPRESS HILLS, CANADA	0	0	0
NELSON	66.8	47.9	47.7	35.6	MILK RIVER BASIN	3	15	25
					ST. MARY & MILK BASINS	6	76	99

* 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 1971-2000 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.
- (3) - Median value used in place of average.

Upper Yellowstone River Basin



Snowpack conditions in the Upper Yellowstone River Basin were near average on April 1. Snow water content was 90 percent of average and 73 percent of last year.

Mountain precipitation during March was 102 percent of average and 65 percent of last year. Valley precipitation during March was 67 percent of average and 56 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2011, was 98 percent of average and 83 percent of last year.

Mystic Lake storage was 0 percent of average and 0 percent of last year and Cooney storage was not available.

Assuming average precipitation, April through July streamflows are forecast to average 93 percent.

Surface Water Supply Index (SWSI) was +0.3 in the Yellowstone River above Livingston; -0.3 in the Shields River; +0.2 in the Boulder River; -0.9 in the Stillwater River; insufficient data in the Rock/Red Lodge Creeks; +1.2 in the Clarks Fork River; and +0.2 in the Yellowstone River above Bighorn River.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - April 1, 2012

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		30%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Yellowstone R at Yellowstone Lake	APR-JUL	500	555	595	101	635	690	590
	APR-SEP	655	730	780	97	830	905	805
Yellowstone R at Corwin Springs	APR-JUL	1390	1560	1670	101	1780	1950	1650
	APR-SEP	1600	1810	1950	99	2090	2300	1970
Yellowstone R at Livingston	APR-JUL	1550	1760	1910	101	2060	2270	1900
	APR-SEP	1800	2060	2230	98	2400	2660	2280
Shields R nr Livingston	APR-JUL	49	89	116	80	143	183	145
	APR-SEP	54	99	130	80	161	205	162
Boulder R at Big Timber	APR-JUL	210	250	275	97	300	340	285
	APR-SEP	215	265	295	94	325	375	315
West Rosebud Ck nr Roscoe (2)	APR-JUL	48	52	55	92	58	62	60
	APR-SEP	60	67	71	92	75	82	77
Stillwater R nr Absarokee (2)	APR-JUL	335	390	430	87	470	525	495
	APR-SEP	390	460	505	86	550	620	585
Clarks Fk Yellowstone R nr Belfry	APR-JUL	475	525	560	104	595	645	540
	APR-SEP	515	570	610	103	650	705	595
Cooney Reservoir Inflow (2)	APR-JUL	24	30	34	72	38	44	47
	APR-SEP	31	38	43	75	48	55	57
Yellowstone R at Billings	APR-JUL	2680	3090	3370	96	3650	4060	3510
	APR-SEP	2870	3610	3950	96	4290	5030	4120

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of March

UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - April 1, 2012

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
MYSTIC LAKE	21.0	0.0	1.7	1.8	YELLOWSTONE ab LIVINGSTON	16	75	90
COONEY	27.4	20.1	22.1	18.3	SHIELDS	4	66	78
					BOULDER-STILLWATER	4	65	92
					RED LODGE-ROCK CREEK	5	72	87
					CLARK'S FORK	7	80	98
					UPPER YELLOWSTONE BASIN	32	73	90

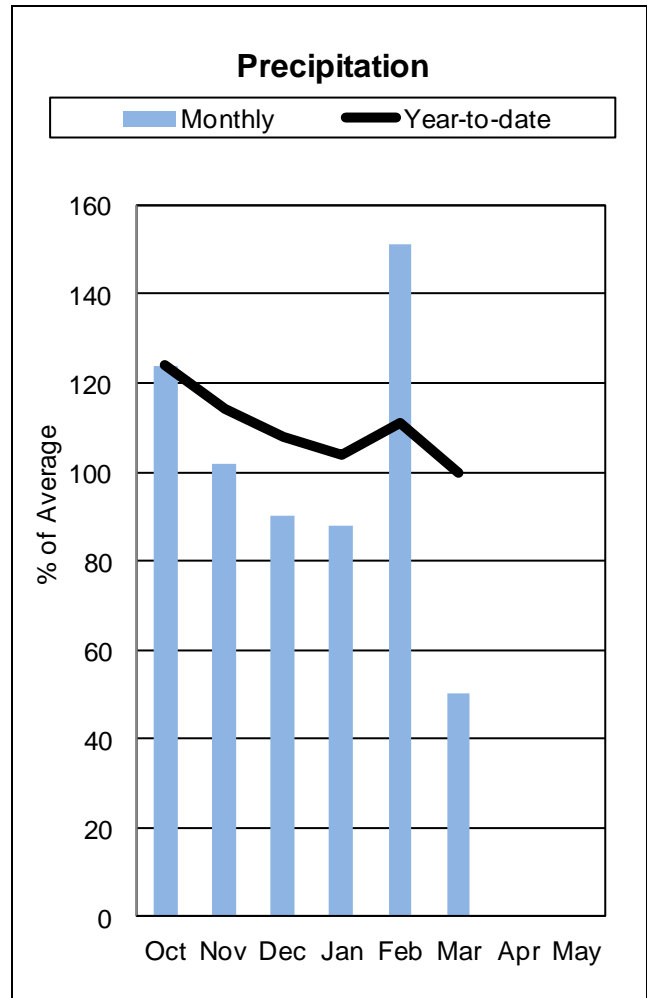
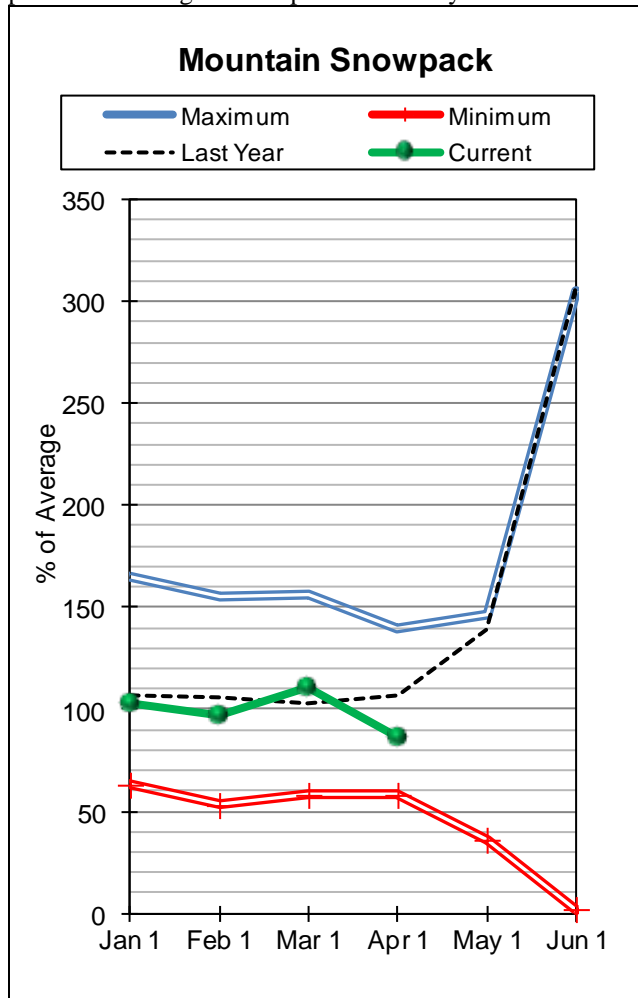
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

The average is computed for the 1971-2000 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.
- (3) - Median value used in place of average.

Lower Yellowstone River Basin

Snowpack conditions in the Lower Yellowstone River Basin were below average on April 1. Snow water content was 86 percent of average and 80 percent of last year.



Snowpack conditions in the Lower Yellowstone River Basin were well above average on March 1. Snow water content was 111 percent of average and 110 percent of last year.

Mountain and valley precipitation during March was 50 percent of average and 43 percent of last year. Mountain and valley water year precipitation, beginning October 1, 2011, was 100 percent of average and 91 percent of last year.

Bighorn Lake storage was 105 percent of average and 99 percent of last year and Tongue River storage was 181 percent of average and 95 percent of last year.

Assuming average precipitation, April through July streamflows are forecast to average 89 percent.

Surface Water Supply Index (SWSI) was -0.4 in the Bighorn River below Bighorn Lake; +1.2 in the Little Bighorn River; -0.1 in the Yellowstone River below Bighorn River; +1.8 in the Tongue River; and 0.0 in the Powder River.

LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - April 1, 2012

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		90%		50%		10%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
Bighorn R nr St. Xavier (2)	APR-JUL	590	955	1200	75	1450	1810	1610
	APR-SEP	540	960	1240	71	1520	1940	1760
Little Bighorn R nr Hardin	APR-JUL	86	111	128	100	145	170	128
	APR-SEP	98	125	144	100	163	190	144
Tongue R nr Dayton (2)	APR-JUL	66	82	93	97	104	120	96
	APR-SEP	76	94	106	97	118	136	109
Big Goose Ck nr Sheridan	APR-JUL	31	41	47	90	53	63	52
	APR-SEP	39	48	55	92	62	71	60
Little Goose Ck nr Bighorn	APR-JUL	22	28	32	94	36	42	34
	APR-SEP	29	36	40	95	44	51	42
Tongue River Reservoir Inflow (2)	APR-JUL	106	165	205	93	245	305	220
	APR-SEP	125	188	230	92	270	335	250
Yellowstone R at Miles City (2)	APR-JUL	3500	4190	4660	87	5130	5820	5360
	APR-SEP	3800	4840	5420	87	6000	7040	6210
Powder R at Moorhead	APR-JUL	60	128	175	85	220	290	205
	APR-SEP	78	149	197	86	245	315	230
Powder R nr Locate	APR-JUL	60	142	198	84	255	335	235
	APR-SEP	72	160	220	85	280	370	260
Yellowstone R nr Sidney (2)	APR-JUL	3210	4070	4660	85	5250	6110	5480
	APR-SEP	3720	4620	5360	85	6100	7000	6280

LOWER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000 AF) - End of March

LOWER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - April 1, 2012

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BIGHORN LAKE	1356.0	854.4	864.7	809.9	WIND RIVER (Wyoming)	18	71	73
TONGUE RIVER	79.1	54.6	57.6	30.1	SHOSHONE RIVER (Wyoming)	6	86	90
					BIGHORN RIVER (Wyoming)	20	85	94
					LITTLE BIGHORN (Wyoming)	3	94	100
					TONGUE RIVER (Wyoming)	10	91	98
					POWDER RIVER (Wyoming)	7	78	86
					LOWER YELLOWSTONE BASIN (45	80	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 1971-2000 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.
- (3) - Median value used in place of average.

Issued by: Released by:

Dave White
Chief
Natural Resources Conservation Service
U.S. Department of Agriculture

Joyce Swartzendruber
State Conservationist
Natural Resources Conservation Service
Bozeman, Montana



Federal Building, Room 443
10 E. Babcock
Bozeman, MT 59715



Montana
Water Supply Outlook
Report
Natural Resources Conservation Service

