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Streamflow Forecast Summary: March 1, 2011
(averages based on 1981-2010 reference period)

KOOTENAI RIVER BASIN in MONTANA	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment: Chance that actual volume will exceed forecast — 90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Tobacco R nr Eureka								
	APR-JUL	116	137	152	112%	167	188	136
	APR-SEP	127	151	168	112%	185	210	150
Libby Reservoir Inflow[1]								
Fisher R nr Libby								
	APR-JUL	205	240	265	115%	290	325	230
	APR-SEP	220	255	280	114%	305	340	245
Yaak R nr Troy								
	APR-JUL	340	415	465	100%	515	590	465
	APR-SEP	360	435	490	100%	545	620	490
Kootenai R at Leonia[1,2]								
	APR-JUL	6350	7090	7430	106%	7770	8510	7040
	APR-SEP	7500	8240	8570	106%	8900	9640	8120

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FLATHEAD RIVER BASIN	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment: Chance that actual volume will exceed forecast — 90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
NF Flathead R nr Columbia Falls								
	APR-JUL	1630	1750	1840	114%	1930	2050	1620
	APR-SEP	1810	1950	2040	113%	2130	2270	1800
MF Flathead R nr West Glacier								
	APR-JUL	1600	1750	1850	116%	1950	2100	1590
	APR-SEP	1760	1910	2020	116%	2130	2280	1740
Sf Flathead R nr Hungry Horse								
	APR-JUL	1380	1490	1560	125%	1630	1740	1250
	APR-SEP	1470	1580	1660	125%	1740	1850	1330
Hungry Horse Reservoir Inflow[1,2]								
	APR-JUL	2060	2310	2420	121%	2530	2780	2000
	APR-SEP	2190	2460	2580	122%	2700	2970	2120
Flathead R at Columbia Falls[2]								
	APR-JUL	5570	5990	6270	117%	6550	6970	5350
	APR-SEP	6080	6530	6840	118%	7150	7600	5820
Ashley Ck nr Marion[2]								
	MAR	0.71	1.18	1.5	142%	1.82	2.3	1.06
	APR-JUL	6.2	7.6	8.6	119%	9.6	11	7.2
Swan R nr Bigfork								
	APR-JUL	620	670	705	125%	740	790	565
	APR-SEP	705	765	805	125%	845	905	645
Flathead Lake Inflow[1,2]								
	APR-JUL	6100	6880	7230	117%	7580	8360	6180
	APR-SEP	6600	7450	7840	117%	8230	9080	6700
Mill Ck ab Bassoo ck nr Niarada								
	APR-JUL	4.9	5.8	6.4	156%	7	7.9	4.1
	APR-SEP	5.3	6.3	6.9	157%	7.5	8.5	4.4
South Crow Ck nr Ronan								
	APR-JUL	9.7	11.3	12.3	122%	13.3	14.9	10.1
	APR-SEP	11.1	12.8	14	122%	15.2	16.9	11.5
Mission Ck nr St. Ignatius								
	APR-JUL	25	27	29	116%	31	33	25
	APR-SEP	30	33	35	117%	37	40	30

SF Jocko R nr Arlee								
	APR-JUL	37	42	45	150%	48	53	30
	APR-SEP	42	47	51	150%	55	60	34
NF Jocko R bl Tabor Feeder Canal								
	APR-JUL	35	38	40	129%	42	45	31
	APR-SEP	38	41	43	130%	45	48	33

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3) Median value used in place of average

		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
UPPER CLARK FORK RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Little Blackfoot nr Garrison								
	APR-JUL	46	65	78	103%	91	110	76
	APR-SEP	51	72	86	102%	100	121	84
Flint Ck nr Southern Cross								
	APR-JUL	8.1	11.9	14.4	105%	16.9	21	13.7
	APR-SEP	9.1	13.8	17	105%	20	25	16.2
Flint Ck bl Boulder Ck								
	APR-JUL	33	48	58	104%	68	83	56
	APR-SEP	44	62	74	104%	86	104	71
Lower Willow Ck Reservoir Inflow[2]								
	APR-MAY	4.8	7.2	8.8	107%	10.4	12.8	8.2
	APR-JUL	7	10.8	13.4	107%	16	19.8	12.5
MF Rock Ck nr Philipsburg								
	APR-JUL	51	60	67	105%	74	83	64
	APR-SEP	57	68	75	104%	82	93	72
Rock Ck nr Clinton								
	APR-JUL	205	260	295	109%	330	385	270
	APR-SEP	235	290	330	108%	370	425	305
Clark Fork R ab Milltown								
	APR-JUL	420	570	675	112%	780	930	605
	APR-SEP	510	675	790	112%	905	1070	705
Nevada Ck nr Helmville								
	APR-MAY	6.4	9.6	11.8	115%	14	17.2	10.3
	APR-JUL	10.6	16.1	19.9	115%	24	29	17.3
Blackfoot R nr Bonner								
	APR-JUL	785	900	980	122%	1060	1180	805
	APR-SEP	880	1010	1090	122%	1170	1300	890
Clark Fork R ab Missoula								
	APR-JUL	1150	1420	1600	113%	1780	2050	1410
	APR-SEP	1340	1620	1820	114%	2020	2300	1600

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BITTERROOT RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
WF Bitterroot R Nr Conner[2]								
	APR-JUL	110	138	157	110%	176	205	143
	APR-SEP	120	152	173	110%	194	225	157
Bitterroot R Nr Darby								
	APR-JUL	345	430	485	105%	540	625	460
	APR-SEP	405	485	540	105%	595	675	515
Como Reservoir Inflow[2]								
	APR-JUL	69	76	81	104%	86	93	78

	APR-SEP	72	80	85	104%	90	98	82
Bitterroot R nr Missoula								
	APR-JUL	1020	1190	1310	105%	1430	1600	1250
	APR-SEP	1130	1310	1440	105%	1570	1750	1370

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		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
LOWER CLARK FORK RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Clark Fork R bl Missoula								
	APR-JUL	2230	2640	2920	110%	3200	3610	2660
	APR-SEP	2500	2950	3250	110%	3550	4000	2960
Clark Fork R at St. Regis[1]								
	APR-JUL	2810	3540	3870	110%	4200	4930	3520
	APR-SEP	3170	3950	4300	110%	4650	5430	3910
Clark Fork R nr Plains[1,2]								
	APR-JUL	9190	10700	11400	113%	12100	13600	10100
	APR-SEP	10100	11700	12500	113%	13300	14900	11100
Thompson nr Tompson Falls								
	APR-JUL	178	215	240	117%	265	300	205
	APR-SEP	205	245	270	117%	295	335	230
Prospect Ck at Thompson Falls								
	APR-JUL	98	115	126	109%	137	154	116
	APR-SEP	107	123	135	109%	147	163	124
Clark Fork R at Whitehorse Rapids[1,2]								
	APR-JUL	10300	11900	12700	112%	13500	15100	11300
	APR-SEP	11300	13200	14000	112%	14800	16700	12500

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JEFFERSON RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Lima Reservoir Inflow[2]								
	APR-JUL	52	72	86	90%	100	120	96
	APR-SEP	56	81	97	93%	113	138	104
Clark Canyon Inflow[2]								
	APR-JUL	43	73	107	82%	141	192	131
	APR-SEP	53	95	133	85%	171	225	156
Beaverhead R at Barretts[2]								
	APR-JUL	57	92	142	85%	192	265	168
	APR-SEP	70	117	175	88%	235	320	200
Ruby R Reservoir Inflow[2]								
	APR-JUL	58	75	87	104%	99	116	84
	APR-SEP	70	90	103	102%	116	136	101
Big Hole R at Wisdom								
	APR-JUL	50	94	124	102%	154	198	121
	APR-SEP	50	98	131	101%	164	210	130
Big Hole R nr Melrose								
	APR-JUL	460	580	665	109%	750	870	610
	APR-SEP	490	625	715	108%	805	940	660
Jefferson R nr Twin Bridges[2]								
	APR-JUL	460	685	835	106%	985	1210	785
	APR-SEP	485	735	905	103%	1080	1330	880

Boulder R nr Boulder								
	APR-JUL	40	57	68	87%	79	96	78
	APR-SEP	43	61	73	86%	85	103	85
Willow Ck Reservoir Inflow[2]								
	APR-JUL	5.5	11.6	15.8	88%	20	26	17.9
	APR-SEP	6.8	13.2	17.6	88%	22	28	20
Jefferson R nr Three Forks[2]								
	APR-JUL	365	620	790	101%	960	1220	780
	APR-SEP	395	675	865	101%	1060	1340	860

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		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
MADISON RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Hebgen Reservoir Inflow[2]								
	APR-JUL	320	360	385	97%	410	450	395
	APR-SEP	410	460	490	97%	520	570	505
Ennis Reservoir Inflow[2]								
	APR-JUL	500	585	640	94%	695	780	680
	APR-SEP	625	725	790	93%	855	955	850

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GALLATIN RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Gallatin R nr Gateway								
	APR-JUL	355	415	455	103%	495	555	440
	APR-SEP	415	485	530	103%	575	645	515
Hyalite Reservoir Inflow[2]								
	APR-JUL	19.3	21	23	105%	25	27	22
	APR-SEP	22	24	26	104%	28	30	25
Gallatin R at Logan								
	APR-JUL	350	455	525	106%	595	700	495
	APR-SEP	410	525	605	106%	685	800	570

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		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
SMITH-JUDITH-MUSSELSHELL	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Sheep Ck nr White Sulphur Springs								
	APR-JUL	15.3	18.7	21	123%	23	27	17.1
	APR-SEP	18.3	22	25	125%	28	32	20
Smith R bl Eagle Ck[2]								
	APR-JUL	89	122	145	109%	168	200	133
	APR-SEP	99	138	165	111%	192	230	149
NF Musselshell R nr Delpine								
	APR-JUL	3.8	5	5.8	126%	6.6	7.8	4.6
	APR-SEP	4.6	5.9	6.8	126%	7.7	9	5.4

SF Musselshell R ab Martinsdale								
	APR-JUL	34	50	60	115%	70	86	52
	APR-SEP	38	54	65	116%	76	92	56
Musselshell R at Harlowton[2]								
	APR-JUL	37	72	95	123%	118	153	77
	APR-SEP	35	72	97	120%	122	159	81
Musselshell R nr Roundup[2]								
	APR-JUL	52	84	129	130%	174	240	99
	APR-SEP	52	84	129	126%	174	240	102

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		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
SUN-TETON-MARIAS	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Gibson Reservoir Inflow								
	APR-JUL	400	465	505	110%	545	610	460
	APR-SEP	445	510	555	110%	600	665	505
Two Medicine R nr Browning[2]								
	APR-JUL	172	198	215	105%	230	260	205
	APR-SEP	185	210	230	107%	250	275	215
Badger Ck nr Browning								
	APR-JUL	68	84	94	109%	104	120	86
	APR-SEP	74	91	103	108%	115	132	95
Swift Reservoir Inflow[2]								
	APR-JUL	51	63	71	111%	79	91	64
	APR-SEP	61	74	83	108%	92	105	77
Dupuyer Ck nr Valier								
	APR-JUL	6.7	11.9	16.8	120%	22	29	14
	APR-SEP	7.4	13.2	18.6	118%	24	32	15.7
Cut Bank Ck nr Browning								
	APR-JUL	58	72	82	106%	92	106	77
	APR-SEP	62	78	88	105%	98	114	84
Marias R nr Shelby[2]								
	APR-JUL	265	375	445	107%	515	625	415
	APR-SEP	275	385	465	106%	545	655	440
Teton R nr Dutton								
	APR-JUL	24	40	59	116%	78	106	51
	APR-SEP	26	45	66	112%	87	117	59

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ST. MARY & MILK BASINS	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Lake Sherburne Inflow								
	APR-JUL	100	109	115	110%	121	130	105
	APR-SEP	116	126	133	109%	140	150	122
St. Mary R nr Babb[2]								
	APR-JUL	360	400	425	110%	450	490	385
	APR-SEP	425	465	495	110%	525	565	450
St. Mary R at Intl Boundary[2]								
	APR-JUL	405	465	505	116%	545	605	435
	APR-SEP	485	550	590	115%	630	695	515
Milk R at Western Crossing of Intl Bndry, AB								

	MAR-JUL	34	45	53	129%	61	72	41
	MAR-SEP	35	47	56	130%	65	77	43
	APR-JUL	27	35	40	121%	45	53	33
	APR-SEP	28	37	43	119%	49	58	36
Milk R at Eastern Crossing of Intl Bndry								
	MAR-JUL	72	108	132	158%	156	192	83.3
	MAR-SEP	78	116	142	162%	168	205	87.7
	APR-JUL	45	72	90	149%	108	135	60.6
	APR-SEP	53	81	100	145%	119	147	69.2

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MISSOURI MAINSTEM BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Missouri R at Toston[2]								
	APR-JUL	1340	1750	2030	99%	2310	2720	2050
	APR-SEP	1590	2040	2370	99%	2700	3150	2390
Dearborn R nr Craig								
	APR-JUL	83	111	131	108%	151	179	121
	APR-SEP	90	120	141	113%	162	192	125
Missouri R at Fort Benton[2]								
	APR-JUL	2040	2620	3020	101%	3420	4000	2990
	APR-SEP	2420	3140	3610	101%	4080	4790	3570
Missouri R nr Virgelle[2]								
	APR-JUL	2320	2990	3450	100%	3910	4580	3450
	APR-SEP	2730	3540	4080	100%	4620	5430	4060
Missouri R nr Landusky[2]								
	APR-JUL	2480	3200	3690	100%	4180	4900	3690
	APR-SEP	2920	3790	4370	100%	4950	5820	4350
Missouri R bl Fort Peck Dam[2]								
	APR-JUL	2630	3350	3850	103%	4350	5070	3740
	APR-SEP	3040	3900	4470	103%	5040	5910	4330
Lake Sakakawea Inflow[2]								
	APR-JUL	6740	8640	9930	102%	11200	13100	9740
	APR-SEP	7720	9920	11400	102%	12900	15100	11200

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UPPER YELLOWSTONE RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Yellowstone R at Yellowstone Lake Outlet								
	APR-JUL	530	600	645	109%	690	760	590
	APR-SEP	695	785	845	105%	905	995	805
Yellowstone R at Corwin Springs								
	APR-JUL	1570	1760	1880	114%	2000	2190	1650
	APR-SEP	1830	2050	2200	112%	2350	2570	1970
Yellowstone R at Livingston								
	APR-JUL	1750	1980	2140	113%	2300	2530	1900
	APR-SEP	2050	2320	2510	110%	2700	2970	2280
Shields R nr Livingston								
	APR-JUL	79	124	155	107%	186	230	145
	APR-SEP	83	134	168	104%	200	255	162
Boulder R at Big Timber								

	APR-JUL	260	305	335	118%	365	410	285
	APR-SEP	280	330	365	116%	400	450	315
Mystic Lake Inflow[2]								
	APR-JUL	47	52	56	93%	60	65	60
	APR-SEP	60	67	72	94%	77	84	77
Stillwater R nr Absarokee[2]								
	APR-JUL	350	410	455	92%	500	560	495
	APR-SEP	410	485	535	91%	585	660	585
Clarks Fk Yellowstone R nr Belfry								
	APR-JUL	470	530	570	106%	610	670	540
	APR-SEP	515	580	625	105%	670	735	595
Cooney Reservoir Inflow								
Yellowstone R at Billings								
	APR-JUL	2970	3440	3760	107%	4080	4550	3510
	APR-SEP	3310	4010	4390	107%	4770	5470	4120

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LOWER YELLOWSTONE RIVER BASIN (Wyoming)	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Bighorn R nr St. Xavier[2]								
	APR-JUL	975	1350	1610	100%	1870	2240	1610
	APR-SEP	1020	1440	1730	98%	2020	2440	1760
Little Bighorn R nr Hardin								
	APR-JUL	77	105	124	97%	143	171	128
	APR-SEP	87	118	139	97%	160	191	144
Tongue R nr Dayton[2]								
	APR-JUL	56	74	87	91%	100	118	96
	APR-SEP	65	85	99	91%	113	133	109
Big Goose Ck nr Sheridan								
	APR-JUL	28	39	47	90%	55	66	52
	APR-SEP	35	47	55	92%	63	75	60
Little Goose Ck nr Bighorn								
	APR-JUL	20	27	32	94%	37	44	34
	APR-SEP	27	35	40	95%	45	53	42
Tongue River Reservoir Inflow[2]								
	APR-JUL	87	153	197	90%	240	305	220
	APR-SEP	104	173	220	88%	265	335	250
Yellowstone R at Miles City[2]								
	APR-JUL	4110	4950	5520	103%	6090	6930	5360
	APR-SEP	4740	5710	6370	103%	7030	7990	6210
Powder R at Moorehead								
	APR-JUL	86	154	200	98%	245	315	205
	APR-SEP	107	177	225	98%	275	345	230
Powder R nr Locate								
	APR-JUL	90	170	225	96%	280	360	235
	APR-SEP	110	196	255	98%	315	400	260
Yellowstone R nr Sidney[2]								
	APR-JUL	4040	4990	5640	103%	6290	7240	5480
	APR-SEP	4840	5710	6490	103%	7270	8140	6280

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