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

		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
KOOTENAI RIVER BASIN in MONTANA	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Tobacco R nr Eureka	MAY-JUL	133	149	160	145%	171	187	110
	MAY-SEP	149	167	180	145%	193	210	124
Libby Reservoir Inflow ¹								
Fisher R nr Libby	MAY-JUL	215	240	255	165%	270	295	155
	MAY-SEP	240	265	280	165%	295	320	170
Yaak R nr Troy	MAY-JUL	450	500	535	153%	570	620	350
	MAY-SEP	475	530	565	153%	600	655	370
Kootenai R at Leonia ^{1,2}	MAY-JUL	6620	7540	7960	129%	8380	9300	6170
	MAY-SEP	8020	8890	9280	128%	9670	10500	7250

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

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3) Median value used in place of average

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FLATHEAD RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
NF Flathead R nr Columbia Falls	MAY-JUL	1890	2000	2080	146%	2160	2270	1420
	MAY-SEP	2100	2230	2320	145%	2410	2540	1600
MF Flathead R nr West Glacier	MAY-JUL	1920	2050	2140	154%	2230	2360	1390
	MAY-SEP	2120	2260	2360	153%	2460	2600	1540
Sf Flathead R nr Hungry Horse	MAY-JUL	1670	1760	1820	165%	1880	1970	1100
	MAY-SEP	1820	1920	1980	165%	2040	2140	1200
Hungry Horse Reservoir Inflow ^{1,2}	MAY-JUL	2530	2740	2830	165%	2920	3130	1710
	MAY-SEP	2690	2920	3020	164%	3120	3350	1840
Flathead R at Columbia Falls ²	MAY-JUL	6650	6990	7230	156%	7470	7810	4630
	MAY-SEP	7260	7650	7910	155%	8170	8560	5110
Ashley Ck nr Marion ²	MAY	4.6	5.2	5.6	200%	6	6.6	2.8
Swan R nr Bigfork	MAY-JUL	705	745	775	165%	805	845	470
	MAY-SEP	830	880	910	165%	940	990	550
Flathead Lake Inflow ^{1,2}	MAY-JUL	7360	7990	8270	155%	8550	9180	5320
	MAY-SEP	8000	8710	9040	155%	9370	10100	5840
Mill Ck ab Bassoo ck nr Niarada	MAY-JUL	5.8	6.6	7.1	254%	7.6	8.4	2.8
	MAY-SEP	6.6	7.4	7.9	255%	8.4	9.2	3.1
South Crow Ck nr Ronan	MAY-JUL	12.7	13.9	14.7	160%	15.5	16.7	9.2
	MAY-SEP	14.8	16.1	17	160%	17.9	19.2	10.6
Mission Ck nr St. Ignatius	MAY-JUL	31	33	34	142%	35	37	24
	MAY-SEP	36	38	40	143%	42	44	28
SF Jocko R nr Arlee								

NF Jocko R bl Tabor Feeder Canal	MAY-JUL	53	56	58	200%	60	63	29
	MAY-SEP	60	64	66	200%	68	72	33
	MAY-JUL	47	49	50	185%	51	53	27
	MAY-SEP	50	53	54	186%	55	58	29

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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

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	MAY-JUL	63	78	88	140%	98	113	63
	MAY-SEP	70	87	98	140%	109	126	70
Flint Ck nr Southern Cross	MAY-JUL	11	14.2	16.4	140%	18.6	22	11.7
	MAY-SEP	13.2	17.2	19.9	140%	23	27	14.2
Flint Ck bl Boulder Ck	MAY-JUL	43	55	63	131%	71	83	48
	MAY-SEP	59	73	83	132%	93	107	63
Lower Willow Ck Reservoir Inflow ²	MAY	6.2	7.9	9.1	154%	10.3	12	5.9
	MAY-JUL	11.5	14.1	15.8	155%	17.5	20	10.2
MF Rock Ck nr Philipsburg	MAY-JUL	61	72	79	134%	86	97	59
	MAY-SEP	70	82	90	134%	98	110	67
Rock Ck nr Clinton	MAY-JUL	240	290	325	135%	360	410	240
	MAY-SEP	280	335	370	135%	405	460	275
Clark Fork R ab Milltown	MAY-JUL	460	595	690	135%	785	920	510
	MAY-SEP	570	720	820	134%	920	1070	610
Nevada Ck nr Helmville	MAY	8.2	10.5	12	174%	13.5	15.8	6.9
	MAY-JUL	16.8	21	24	173%	27	31	13.9
Blackfoot R nr Bonner	MAY-JUL	910	995	1050	156%	1110	1190	675
	MAY-SEP	1030	1120	1180	154%	1240	1330	765
Clark Fork R ab Missoula	MAY-JUL	1400	1610	1750	147%	1890	2100	1190
	MAY-SEP	1620	1850	2000	146%	2150	2380	1370

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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	MAY-JUL	137	158	172	138%	186	205	125
	MAY-SEP	148	173	190	138%	205	230	138
Bitterroot R Nr Darby	MAY-JUL	450	510	550	136%	590	650	405
	MAY-SEP	515	575	620	135%	665	725	460
Como Reservoir Inflow ²	MAY-JUL	71	78	83	126%	88	95	66
	MAY-SEP	75	83	88	126%	93	101	70

Bitterroot R nr Missoula

MAY-JUL	1270	1400	1490	135%	1580	1710	1100
MAY-SEP	1400	1540	1640	136%	1740	1880	1210

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 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	MAY-JUL	2660	2980	3200	140%	3420	3740	2290
	MAY-SEP	3000	3350	3590	139%	3830	4180	2580
Clark Fork R at St. Regis ¹	MAY-JUL	3340	3920	4190	141%	4460	5040	2980
	MAY-SEP	3760	4400	4690	139%	4980	5620	3370
Clark Fork R nr Plains ^{1,2}	MAY-JUL	11200	12400	12900	149%	13400	14600	8630
	MAY-SEP	12400	13700	14300	149%	14900	16200	9610
Thompson nr Thompson Falls	MAY-JUL	225	250	270	170%	290	315	159
	MAY-SEP	265	295	315	170%	335	365	185
Prospect Ck at Thompson Falls	MAY-JUL	125	137	145	167%	153	165	87
	MAY-SEP	140	152	160	167%	168	180	96
Clark Fork R at Whitehorse Rapids ^{1,2}	MAY-JUL	12500	13700	14300	149%	14900	16100	9590
	MAY-SEP	13800	15200	15900	149%	16600	18000	10700

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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	MAY-JUL	65	76	84	120%	92	103	70
	MAY-SEP	72	85	94	121%	103	116	78
Clark Canyon Inflow ²	MAY-JUL	59	94	118	131%	142	177	90
	MAY-SEP	80	117	143	123%	169	205	116
Beaverhead R at Barretts ²	MAY-JUL	58	113	151	126%	189	245	120
	MAY-SEP	70	137	182	119%	225	295	153
Ruby R Reservoir Inflow ²	MAY-JUL	69	83	92	124%	101	115	74
	MAY-SEP	83	99	110	121%	121	137	91
Big Hole R at Wisdom	MAY-JUL	99	126	144	152%	162	189	95
	MAY-SEP	109	138	158	152%	178	205	104
Big Hole R nr Melrose	MAY-JUL	635	695	735	141%	775	835	520
	MAY-SEP	680	750	795	138%	840	910	575
Jefferson R nr Twin Bridges ²	MAY-JUL	640	800	910	143%	1020	1180	635
	MAY-SEP	675	865	995	140%	1120	1310	710
Boulder R nr Boulder								

Willow Ck Reservoir Inflow ²	MAY-JUL	68	79	86	126%	93	104	68
	MAY-SEP	72	85	93	124%	101	114	75
Jefferson R nr Three Forks ²	MAY-JUL	9.1	13.8	17	112%	20	25	15.2
	MAY-SEP	11.5	16.6	20	114%	23	28	17.5
	MAY-JUL	610	780	900	150%	1020	1190	600
	MAY-SEP	680	875	1010	149%	1140	1340	680

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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	MAY-JUL	390	420	440	131%	460	490	335
	MAY-SEP	505	540	565	127%	590	625	445
Ennis Reservoir Inflow ²	MAY-JUL	640	705	750	129%	795	860	580
	MAY-SEP	805	880	935	125%	990	1070	750

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

GALLATIN RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Gallatin R nr Gateway	MAY-JUL	455	500	525	130%	550	595	405
	MAY-SEP	530	580	610	127%	640	690	480
Hyalite Reservoir Inflow ²	MAY-JUL	21	23	24	120%	25	27	20
	MAY-SEP	24	26	27	117%	28	30	23
Gallatin R at Logan	MAY-JUL	455	535	585	138%	635	715	425
	MAY-SEP	520	610	675	134%	740	830	505

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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	MAY-JUL	18	21	23	152%	25	28	15.1
	MAY-SEP	21	25	27	149%	29	33	18.1
Smith R bl Eagle Ck ²	MAY-JUL	115	142	161	141%	180	205	114
	MAY-SEP	128	161	184	142%	205	240	130
NF Musselshell R nr Delpine	MAY-JUL	4.3	5.7	6.7	181%	7.7	9.1	3.7
	MAY-SEP	5.3	7	8.1	176%	9.2	10.9	4.6
SF Musselshell R ab Martinsdale								

Musselshell R at Harlowton ²	MAY-JUL	42	61	74	161%	87	106	46
	MAY-SEP	46	66	79	158%	92	112	50
Musselshell R nr Roundup ²	MAY-JUL	75	106	127	195%	148	179	65
	MAY-SEP	78	111	133	193%	155	188	69
	MAY-JUL	159	177	189	236%	200	220	80
	MAY-SEP	162	181	194	237%	205	225	82

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SUN-TETON-MARIAS	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Gibson Reservoir Inflow	MAY-JUL	555	595	620	149%	645	685	415
	MAY-SEP	605	645	675	145%	705	745	465
Two Medicine R nr Browning ²	MAY-JUL	220	240	255	147%	270	290	174
	MAY-SEP	235	255	270	144%	285	305	187
Badger Ck nr Browning	MAY-JUL	94	105	112	147%	119	130	76
	MAY-SEP	101	114	123	145%	132	145	85
Swift Reservoir Inflow ²	MAY-JUL	68	78	84	147%	90	100	57
	MAY-SEP	80	91	99	143%	107	118	69
Dupuyer Ck nr Valier	MAY-JUL	7.2	13.6	18	155%	22	29	11.6
	MAY-SEP	7.9	15.1	20	150%	25	32	13.3
Cut Bank Ck nr Browning	MAY-JUL	88	99	106	154%	113	124	69
	MAY-SEP	96	108	116	153%	124	136	76
Marias R nr Shelby ²	MAY-JUL	425	510	570	165%	630	715	345
	MAY-SEP	430	525	590	159%	655	750	370
Teton R nr Dutton	MAY-JUL	33	55	70	167%	85	107	42
	MAY-SEP	39	63	79	158%	95	119	50

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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	MAY-JUL	119	127	133	141%	139	147	94
	MAY-SEP	136	145	152	136%	159	168	112
St. Mary R nr Babb ²	MAY-JUL	440	475	500	141%	525	560	355
	MAY-SEP	510	550	580	136%	610	650	425
St. Mary R at Intl Boundary ²	MAY-JUL	495	545	580	145%	615	665	400
	MAY-SEP	565	620	660	139%	700	755	475
Milk R at Western Crossing of Intl Bndry, AB	MAY-JUL	26	32	36	180%	40	46	20

Milk R at Eastern Crossing of Intl Bndry	MAY-SEP	26	33	38	165%	43	50	23
	MAY-JUL	39	63	79	189%	95	119	41.8
	MAY-SEP	49	73	90	184%	107	131	48.9

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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	MAY-JUL	1850	2120	2310	136%	2500	2770	1700
	MAY-SEP	2100	2540	2770	136%	3000	3430	2040
Dearborn R nr Craig	MAY-JUL	104	130	147	139%	164	190	106
	MAY-SEP	114	141	159	145%	177	205	110
Missouri R at Fort Benton ²	MAY-JUL	2560	3050	3380	135%	3710	4200	2500
	MAY-SEP	3170	3760	4170	135%	4580	5180	3080
Missouri R nr Virgelle ²	MAY-JUL	2890	3460	3840	133%	4220	4790	2890
	MAY-SEP	3520	4210	4670	133%	5130	5820	3500
Missouri R nr Landusky ²	MAY-JUL	3090	3690	4100	133%	4510	5110	3080
	MAY-SEP	3690	4480	4980	133%	5480	6270	3750
Missouri R bl Fort Peck Dam ²	MAY-JUL	3210	3810	4220	137%	4630	5230	3080
	MAY-SEP	3820	4540	5030	137%	5520	6230	3670
Lake Sakakawea Inflow ²	MAY-JUL	9060	10700	11800	141%	12900	14500	8370
	MAY-SEP	11100	12500	13800	141%	15100	16500	9810

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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	MAY-JUL	730	790	830	150%	870	930	555
	MAY-SEP	980	1050	1100	143%	1150	1220	770
Yellowstone R at Corwin Springs	MAY-JUL	2010	2170	2270	146%	2370	2530	1550
	MAY-SEP	2370	2550	2680	143%	2810	2990	1870
Yellowstone R at Livingston	MAY-JUL	2260	2450	2580	146%	2710	2900	1770
	MAY-SEP	2670	2900	3050	142%	3200	3430	2150
Shields R nr Livingston	MAY-JUL	129	168	195	161%	220	260	121
	MAY-SEP	140	185	215	156%	245	290	138
Boulder R at Big Timber	MAY-JUL	330	360	380	138%	400	430	275
	MAY-SEP	355	390	415	138%	440	475	300
Mystic Lake Inflow ²	MAY-JUL	71	75	78	134%	81	85	58
	MAY-SEP	91	98	102	136%	106	113	75

Stillwater R nr Absarokee ²	MAY-JUL	530	580	615	131%	650	700	470
	MAY-SEP	625	690	730	130%	770	835	560
Clarks Fk Yellowstone R nr Belfry	MAY-JUL	650	690	720	140%	750	790	515
	MAY-SEP	715	765	800	140%	835	885	570
Cooney Reservoir Inflow								
Yellowstone R at Billings	MAY-JUL	3830	4340	4680	144%	5020	5530	3250
	MAY-SEP	4530	5130	5540	144%	5950	6550	3850

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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	MAY-JUL	1810	2040	2200	150%	2360	2590	1470
	MAY-SEP	2000	2260	2440	150%	2620	2880	1630
Little Bighorn R nr Hardin	MAY-JUL	106	124	136	124%	148	166	110
	MAY-SEP	119	138	151	120%	164	183	126
Tongue R nr Dayton ²	MAY-JUL	85	101	112	124%	123	139	90
	MAY-SEP	98	115	127	123%	139	156	103
Big Goose Ck nr Sheridan	MAY-JUL	49	58	63	129%	68	77	49
	MAY-SEP	58	66	72	124%	78	86	58
Little Goose Ck nr Bighorn	MAY-JUL	33	38	41	128%	44	49	32
	MAY-SEP	42	47	51	128%	55	60	40
Tongue River Reservoir Inflow ²	MAY-JUL	180	235	270	136%	305	360	199
	MAY-SEP	210	265	305	136%	345	400	225
Yellowstone R at Miles City ²	MAY-JUL	5710	6470	6990	143%	7510	8270	4890
	MAY-SEP	6680	7570	8180	143%	8790	9680	5740
Powder R at Moorehead	MAY-JUL	174	225	260	146%	295	345	178
	MAY-SEP	195	250	285	143%	320	375	200
Powder R nr Locate	MAY-JUL	181	245	290	149%	335	400	195
	MAY-SEP	200	270	320	145%	370	440	220
Yellowstone R nr Sidney ²	MAY-JUL	6030	6810	7330	148%	7850	8630	4950
	MAY-SEP	7000	7890	8500	148%	9110	10000	5760

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