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Streamflow Forecast Summary: June 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	JUN-JUL	91	102	109	176%	116	127	62
	JUN-SEP	107	120	129	170%	138	151	76
Libby Reservoir Inflow ¹								
Fisher R nr Libby	JUN-JUL	104	116	124	182%	132	144	68
	JUN-SEP	127	141	150	179%	159	173	84
Yaak R nr Troy	JUN-JUL	230	255	275	191%	295	320	144
	JUN-SEP	250	280	300	181%	320	350	166
Kootenai R at Leonia ^{1,2}	JUN-JUL	5126.65739	5720.36442	5990	153%	6259.63558	6853.34261	3920
	JUN-SEP	6208.91762	6931.73031	7260	145%	7588.26969	8311.08238	5000

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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						
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	JUN-JUL	1330	1440	1510	182%	1580	1690	830
	JUN-SEP	1540	1670	1750	175%	1830	1960	1000
MF Flathead R nr West Glacier	JUN-JUL	1330	1440	1520	184%	1600	1710	825
	JUN-SEP	1520	1650	1730	177%	1810	1940	975
Sf Flathead R nr Hungry Horse	JUN-JUL	1300	1370	1420	218%	1470	1540	650
	JUN-SEP	1410	1490	1540	211%	1590	1670	730
Hungry Horse Reservoir Inflow ^{1,2}								
	JUN-JUL	1830	2000	2080	217%	2160	2330	960
	JUN-SEP	1990	2170	2260	207%	2350	2530	1090
Flathead R at Columbia Falls ²	JUN-JUL	4650	4980	5200	193%	5420	5750	2690
	JUN-SEP	5260	5620	5870	186%	6120	6480	3160
Ashley Ck nr Marion ²								
	JUN-JUL	2.4	3.1	3.6	224%	4.1	4.8	1.61
	JUN-SEP	2.3	3.4	4.2	382%	5	6.1	1.1
Swan R nr Bigfork	JUN-JUL	490	520	540	177%	560	590	305
	JUN-SEP	595	630	655	170%	680	715	385
Flathead Lake Inflow ^{1,2}								
	JUN-JUL	5180	5730	5980	193%	6230	6780	3100
	JUN-SEP	5850	6480	6770	187%	7060	7690	3620
Mill Ck ab Bassoo ck nr Niarada	JUN-JUL	2.6	2.9	3.1	246%	3.3	3.6	1.26
	JUN-SEP	3.2	3.6	3.8	238%	4	4.4	1.6
South Crow Ck nr Ronan	JUN-JUL	9.9	10.9	11.6	181%	12.3	13.3	6.4
	JUN-SEP	11.7	12.9	13.7	176%	14.5	15.7	7.8
Mission Ck nr St. Ignatius	JUN-JUL	25	27	28	161%	29	31	17.4
	JUN-SEP	31	33	35	158%	37	39	22.1
SF Jocko R nr Arlee	JUN-JUL	31	33	35	212%	37	39	16.5
	JUN-SEP	37	39	41	201%	43	45	20.4

NF Jocko R bl Tabor Feeder Canal

JUN-JUL	29	31	32	216%	33	35	14.8
JUN-SEP	31	33	34	205%	35	37	16.6

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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	JUN-JUL	51	59	65	203%	71	79	32
	JUN-SEP	63	73	80	205%	87	97	39
Flint Ck nr Southern Cross	JUN-JUL	11.1	13.3	14.8	192%	16.3	18.5	7.7
	JUN-SEP	14.9	17.9	19.9	195%	22	25	10.2
Flint Ck bl Boulder Ck	JUN-JUL	45	53	59	179%	65	73	33
	JUN-SEP	62	73	80	167%	87	98	48
Lower Willow Ck Reservoir Inflow ²	JUN-JUL	7.6	9	9.9	230%	10.8	12.2	4.3
	JUN-SEP	8.9	10.4	11.5	217%	12.6	14.1	5.3
MF Rock Ck nr Philipsburg	JUN-JUL	57	65	70	179%	75	83	39
	JUN-SEP	66	74	80	170%	86	94	47
Rock Ck nr Clinton	JUN-JUL	230	260	280	189%	300	330	148
	JUN-SEP	270	305	330	180%	355	390	183
Clark Fork R ab Milltown	JUN-JUL	470	545	595	189%	645	720	315
	JUN-SEP	605	695	755	184%	815	905	410
Nevada Ck nr Helmville	JUN-JUL	10.6	12	13	186%	14	15.4	7
	JUN-SEP	12.3	13.9	15	176%	16.1	17.7	8.5
Blackfoot R nr Bonner	JUN-JUL	670	715	745	196%	775	820	380
	JUN-SEP	800	845	880	187%	915	960	470
Clark Fork R ab Missoula	JUN-JUL	1170	1270	1340	193%	1410	1510	695
	JUN-SEP	1430	1550	1630	185%	1710	1830	880

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 Chance that actual volume will exceed forecast

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	JUN-JUL	115	123	129	187%	135	143	69
	JUN-SEP	126	138	146	178%	154	166	82
Bitterroot R Nr Darby	JUN-JUL	350	370	385	160%	400	420	240
	JUN-SEP	420	445	465	158%	485	510	295
Como Reservoir Inflow ²	JUN-JUL	45	53	58	145%	63	71	40
	JUN-SEP	50	58	64	145%	70	78	44
Bitterroot R nr Missoula	JUN-JUL	950	1030	1080	157%	1130	1210	690
	JUN-SEP	1110	1200	1260	158%	1320	1410	800

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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	JUN-JUL	2150	2310	2420	175%	2530	2690	1380
	JUN-SEP	2580	2770	2890	172%	3010	3200	1680
Clark Fork R at St. Regis ¹	JUN-JUL	2630	2930	3070	173%	3210	3510	1770
	JUN-SEP	3170	3510	3670	170%	3830	4170	2160
Clark Fork R nr Plains ^{1,2}	JUN-JUL	8340	9030	9350	183%	9670	10400	5100
	JUN-SEP	9590	10400	10800	177%	11200	12000	6090
Thompson nr Thompson Falls	JUN-JUL	129	140	147	179%	154	165	82
	JUN-SEP	161	174	183	169%	192	205	108
Prospect Ck at Thompson Falls	JUN-JUL	78	81	84	205%	87	90	41
	JUN-SEP	89	93	96	192%	99	103	50
Clark Fork R at Whitehorse Rapids ^{1,2}	JUN-JUL	9212.38182	9960.3196	10300	183%	10639.6804	11387.61818	5620
	JUN-SEP	10603.82678	11495.18456	11900	176%	12304.81544	13196.17322	6750

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Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast								
JEFFERSON RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Lima Reservoir Inflow ²	JUN-JUL	44	52	58	149%	64	72	39
	JUN-SEP	56	67	74	157%	81	92	47
Clark Canyon Inflow ²	JUN-JUL	44	70	88	173%	106	132	51
	JUN-SEP	73	103	123	162%	143	173	76
Beaverhead R at Barretts ²	JUN-JUL	47	85	111	156%	137	175	71
	JUN-SEP	70	120	153	149%	186	235	103
Ruby R Reservoir Inflow ²	JUN-JUL	56	65	71	154%	77	86	46
	JUN-SEP	73	84	91	147%	98	109	62
Big Hole R at Wisdom	JUN-JUL	89	112	127	235%	142	165	54
	JUN-SEP	98	124	142	225%	160	186	63
Big Hole R nr Melrose	JUN-JUL	565	630	675	208%	720	785	325
	JUN-SEP	615	695	750	197%	805	885	380
Jefferson R nr Twin Bridges ²	JUN-JUL	635	740	815	209%	880	985	390
	JUN-SEP	700	835	930	200%	1020	1150	465
Boulder R nr Boulder	JUN-JUL	44	50	55	153%	60	66	36
	JUN-SEP	49	58	64	149%	70	79	43
Willow Ck Reservoir Inflow ²	JUN-JUL	13.8	16.9	19	176%	21	24	10.8
	JUN-SEP	15.9	20	23	176%	26	30	13.1
Jefferson R nr Three Forks ²	JUN-JUL	605	720	800	216%	880	995	370
	JUN-SEP	720	860	955	212%	1050	1190	450

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MADISON RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Hebgen Reservoir Inflow ²	JUN-JUL	255	285	300	150%	315	345	200
	JUN-SEP	395	425	445	144%	465	495	310
Ennis Reservoir Inflow ²	JUN-JUL	490	530	555	148%	580	620	375
	JUN-SEP	680	730	765	142%	800	850	540

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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	JUN-JUL	365	400	425	149%	450	485	285
	JUN-SEP	450	490	520	144%	550	590	360
Hyalite Reservoir Inflow ²	JUN-JUL	21	22	23	154%	24	25	14.9
	JUN-SEP	24	26	27	150%	28	30	18
Gallatin R at Logan	JUN-JUL	370	425	460	164%	495	550	280
	JUN-SEP	455	525	570	158%	615	685	360

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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	JUN-JUL	15.6	17.8	19.3	212%	21	23	9.1
	JUN-SEP	19	22	24	198%	26	29	12.1
Smith R bl Eagle Ck ²	JUN-JUL	126	146	160	213%	174	194	75
	JUN-SEP	140	168	186	204%	205	230	91
NF Musselshell R nr Delpine	JUN-JUL	3.8	5.4	6.6	287%	7.8	9.4	2.3
	JUN-SEP	5.9	7.3	8.3	259%	9.3	10.7	3.2
SF Musselshell R ab Martinsdale	JUN-JUL	27	38	46	184%	54	65	25
	JUN-SEP	30	42	50	172%	58	70	29
Musselshell R at Harlowton ²	JUN-JUL	65	91	109	295%	127	153	37
	JUN-SEP	73	99	117	285%	135	161	41
Musselshell R nr Roundup ²	JUN-JUL	106	131	148	315%	165	190	47
	JUN-SEP	117	142	159	318%	176	200	50

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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	JUN-JUL	385	420	440	173%	460	495	255
	JUN-SEP	465	500	525	172%	550	585	305
Two Medicine R nr Browning ²	JUN-JUL	128	142	151	159%	160	174	95
	JUN-SEP	143	158	169	158%	180	195	107
Badger Ck nr Browning	JUN-JUL	60	70	77	175%	84	94	44
	JUN-SEP	71	83	91	172%	99	111	53
Swift Reservoir Inflow ²	JUN-JUL	55	61	65	186%	69	75	35
	JUN-SEP	69	77	82	174%	87	95	47
Dupuyer Ck nr Valier	JUN-JUL	10	14.4	17.5	269%	21	25	6.5
	JUN-SEP	13	18.4	22	265%	26	31	8.3
Cut Bank Ck nr Browning	JUN-JUL	57	65	70	167%	75	83	42
	JUN-SEP	66	74	80	163%	86	94	49
Marias R nr Shelby ²	JUN-JUL	305	370	415	227%	460	525	183
	JUN-SEP	315	390	440	210%	490	565	210
Teton R nr Dutton	JUN-JUL	21	39	52	193%	65	83	27
	JUN-SEP	32	54	69	197%	84	106	35

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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	JUN-JUL	79	87	92	151%	97	105	61
	JUN-SEP	97	106	112	144%	118	127	78
St. Mary R nr Babb ²	JUN-JUL	320	350	370	148%	390	420	250
	JUN-SEP	385	420	445	141%	470	505	315
St. Mary R at Intl Boundary ²	JUN-JUL	370	410	440	166%	470	510	265
	JUN-SEP	450	500	530	154%	560	610	345
Milk R at Western Crossing of Intl Bndry, AB	JUN-JUL	9.5	14	17.1	180%	20	25	9.5
	JUN-SEP	10	15.9	20	177%	24	30	11.3
Milk R at Eastern Crossing of Intl Bndry	JUN-JUL	3.3	23	37	190%	51	71	19.5
	JUN-SEP	16.4	38	53	183%	68	90	28.9

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Forecast Exceedance Probabilities for Risk Assessment
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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	JUN-JUL	1520	1740	1890	173%	2040	2260	1090
	JUN-SEP	1940	2250	2450	173%	2650	2960	1420

Dearborn R nr Craig	JUN-JUL	83	97	107	170%	117	131	63
	JUN-SEP	83	99	110	164%	121	137	67
Missouri R at Fort Benton ²	JUN-JUL	2410	2560	2670	169%	2780	2930	1580
	JUN-SEP	3300	3520	3670	169%	3820	4030	2170
Missouri R nr Virgelle ²	JUN-JUL	2530	2890	3130	172%	3370	3730	1820
	JUN-SEP	3410	3870	4190	172%	4510	4980	2430
Missouri R nr Landusky ²	JUN-JUL	2710	3090	3350	172%	3610	3990	1950
	JUN-SEP	3610	4130	4480	172%	4830	5340	2610
Missouri R bl Fort Peck Dam ²	JUN-JUL	2790	3150	3390	173%	3630	3990	1960
	JUN-SEP	3620	4080	4400	173%	4720	5180	2550
Lake Sakakawea Inflow ²	JUN-JUL	8700	9830	10600	183%	11400	12500	5800
	JUN-SEP	11200	12200	13200	182%	14200	15200	7240

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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	JUN-JUL	730	775	805	166%	835	880	485
	JUN-SEP	990	1060	1100	158%	1140	1210	695
Yellowstone R at Corwin Springs	JUN-JUL	1670	1800	1880	165%	1960	2090	1140
	JUN-SEP	2060	2220	2330	160%	2440	2600	1460
Yellowstone R at Livingston	JUN-JUL	1900	2050	2150	164%	2250	2400	1310
	JUN-SEP	2330	2530	2660	156%	2790	2990	1700
Shields R nr Livingston	JUN-JUL	104	134	155	225%	176	205	69
	JUN-SEP	119	155	180	209%	205	240	86
Boulder R at Big Timber	JUN-JUL	320	345	365	178%	385	410	205
	JUN-SEP	350	380	405	176%	430	460	230
Mystic Lake Inflow ²	JUN-JUL	63	68	71	151%	74	79	47
	JUN-SEP	85	92	96	150%	100	107	64
Stillwater R nr Absarokee ²	JUN-JUL	500	540	565	155%	590	630	365
	JUN-SEP	605	660	695	151%	730	785	460
Clarks Fk Yellowstone R nr Belfry	JUN-JUL	615	655	680	174%	705	745	390
	JUN-SEP	690	740	775	174%	810	860	445
Cooney Reservoir Inflow								
Yellowstone R at Billings	JUN-JUL	3430	3800	4050	170%	4300	4670	2380
	JUN-SEP	4660	4770	5090	170%	5410	5520	2990

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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	JUN-JUL	1840	2030	2240	206%	2270	2460	1090
	JUN-SEP	2140	2380	2630	212%	2700	2940	1240
Little Bighorn R nr Hardin	JUN-JUL	128	145	157	234%	169	186	67
	JUN-SEP	148	168	182	219%	196	215	83
Tongue R nr Dayton ²	JUN-JUL	109	119	125	216%	131	141	58
	JUN-SEP	126	137	145	204%	153	164	71
Big Goose Ck nr Sheridan	JUN-JUL	74	79	83	237%	87	92	35
	JUN-SEP	82	88	92	209%	96	102	44
Little Goose Ck nr Bighorn	JUN-JUL	42	45	47	224%	49	52	21
	JUN-SEP	52	55	58	200%	61	64	29
Tongue River Reservoir Inflow ²	JUN-JUL	275	300	320	254%	340	365	126
	JUN-SEP	305	340	360	235%	380	415	153
Yellowstone R at Miles City ²	JUN-JUL	5360	5920	6300	175%	6680	7240	3600
	JUN-SEP	7250	7310	7780	175%	8250	8310	4450
Powder R at Moorehead	JUN-JUL	240	275	295	281%	315	350	105
	JUN-SEP	275	315	340	266%	365	405	128
Powder R nr Locate	JUN-JUL	265	305	335	289%	365	405	116
	JUN-SEP	300	355	390	277%	425	480	141
Yellowstone R nr Sidney ²	JUN-JUL	6010	6580	6970	191%	7360	7930	3650
	JUN-SEP	7800	8030	8500	191%	8970	9200	4460

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