

Streamflow Forecast Summary: February 1, 2009
(averages based on 1981-2010 reference period)

- 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
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		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								
	APR-JUL	1090	1250	1350	83%	1450	1610	1620
	APR-SEP	1240	1390	1500	83%	1610	1760	1800
MF Flathead R nr West Glacier								
	APR-JUL	1100	1250	1360	86%	1470	1620	1590
	APR-SEP	1220	1380	1490	86%	1600	1760	1740
Sf Flathead R nr Hungry Horse								
Hungry Horse Reservoir Inflow ^{1,2}								
	APR-JUL	1530	1770	1880	94%	1990	2230	2000
	APR-SEP	1640	1890	2000	94%	2110	2360	2120
Flathead R at Columbia Falls ²								
	APR-JUL	4020	4420	4690	88%	4960	5360	5350
	APR-SEP	4420	4830	5110	88%	5390	5800	5820
Ashley Ck nr Marion ²								
	MAR	0.1	0.72	1.14	108%	1.56	2.2	1.06
	APR-JUL	1.54	4.7	6.8	94%	8.9	12.1	7.2
	APR-SEP	0.72	4	6.3	94%	8.6	11.9	6.73
Swan R nr Bigfork								
	APR-JUL	415	480	520	92%	560	625	565
	APR-SEP	485	550	595	92%	640	705	645
Flathead Lake Inflow ^{1,2}								
	APR-JUL	5080	5400	5540	90%	5680	6000	6180
	APR-SEP	5510	5850	6000	90%	6150	6490	6700
Mill Ck ab Bassoo ck nr Niarada								
South Crow Ck nr Ronan								
Mission Ck nr St. Ignatius								
SF Jocko R nr Arlee								

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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	42	65	80	105%	95	118	76
	APR-SEP	48	72	88	105%	104	128	84
Flint Ck nr Southern Cross	APR-JUL	9	12.6	15.1	110%	17.6	21	13.7
	APR-SEP	9	14.2	17.8	110%	21	27	16.2
Flint Ck bl Boulder Ck	APR-JUL	36	50	59	105%	68	82	56
	APR-SEP	47	64	75	106%	86	103	71
Lower Willow Ck Reservoir Inflow ²	APR-MAY	4.8	7.2	8.9	109%	10.6	13	8.2
	APR-JUL	6.7	10.8	13.5	108%	16.2	20	12.5
MF Rock Ck nr Philipsburg	APR-JUL	44	54	61	95%	68	78	64
	APR-SEP	50	61	68	94%	75	86	72
Rock Ck nr Clinton	APR-JUL	176	230	265	98%	300	355	270
	APR-SEP	200	260	300	98%	340	400	305
Clark Fork R ab Milltown	APR-JUL	440	535	600	99%	665	760	605
	APR-SEP	515	625	700	99%	775	885	705
Nevada Ck nr Helmville	APR-MAY	5.4	8.1	10	97%	11.9	14.6	10.3
	APR-JUL	9.9	14.1	17	98%	19.9	24	17.3
Blackfoot R nr Bonner	APR-JUL	580	710	800	99%	890	1020	805
	APR-SEP	660	795	890	100%	985	1120	890
Clark Fork R ab Missoula	APR-JUL	1160	1300	1400	99%	1500	1640	1410
	APR-SEP	1330	1480	1590	99%	1700	1850	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	115	140	157	110%	174	199	143
	APR-SEP	126	154	173	110%	192	220	157
Bitterroot R Nr Darby	APR-JUL	310	385	435	95%	485	560	460
	APR-SEP	360	435	485	94%	535	610	515
Como Reservoir Inflow ²	APR-JUL	62	69	74	95%	79	86	78
	APR-SEP	66	73	78	95%	83	90	82
Bitterroot R nr Missoula	APR-JUL	1000	1100	1170	94%	1240	1340	1250
	APR-SEP	975	1160	1280	93%	1400	1590	1370

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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	2400	2510	2590	97%	2670	2780	2660
	APR-SEP	2680	2800	2880	97%	2960	3080	2960
Clark Fork R at St. Regis ¹	APR-JUL	3140	3290	3360	95%	3430	3580	3520
	APR-SEP	3510	3670	3740	96%	3810	3970	3910
Clark Fork R nr Plains ^{1,2}	APR-JUL	8840	9090	9200	91%	9310	9560	10100
	APR-SEP	9700	9970	10100	91%	10200	10500	11100
Thompson nr Thompson Falls	APR-JUL	103	145	174	85%	205	245	205
	APR-SEP	122	166	196	85%	225	270	230
Prospect Ck at Thompson Falls	APR-JUL	68	86	99	85%	112	130	116
	APR-SEP	73	92	105	85%	118	137	124
Clark Fork R at Whitehorse Rapids ^{1,2}	APR-JUL	9340	9790	10000	88%	10200	10700	11300
	APR-SEP	10200	10800	11000	88%	11200	11800	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	53	73	86	90%	99	119	96
	APR-SEP	55	77	93	89%	109	131	104
Clark Canyon Inflow ²	APR-JUL	28	80	115	88%	150	200	131
	APR-SEP	41	98	136	87%	174	230	156
Beaverhead R at Barretts ²	APR-JUL	28	101	151	90%	200	275	168
	APR-SEP	34	120	178	89%	235	320	200
Ruby R Reservoir Inflow ²	APR-JUL	47	62	73	87%	84	99	84
	APR-SEP	57	75	87	86%	99	117	101
Big Hole R at Wisdom	APR-JUL	61	102	129	107%	156	197	121
	APR-SEP	64	107	137	105%	167	210	130
Big Hole R nr Melrose	APR-JUL	525	645	725	119%	805	925	610
	APR-SEP	555	685	775	117%	865	995	660
Jefferson R nr Twin Bridges ²	APR-JUL	520	715	850	108%	985	1180	785
	APR-SEP	575	800	950	108%	1100	1320	880
Boulder R nr Boulder	APR-JUL	54	70	81	104%	92	108	78
	APR-SEP	58	75	87	102%	99	116	85
Willow Ck Reservoir Inflow ²								

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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								
	APR-JUL	12.6	15.8	18	105%	20	23	17.1
	APR-SEP	14.8	18.5	21	105%	24	27	20
Smith R bl Eagle Ck ²								
	APR-JUL	76	108	129	97%	150	182	133
	APR-SEP	85	121	146	98%	171	205	149
NF Musselshell R nr Delpine								
	APR-JUL	2.6	3.9	4.7	102%	5.5	6.8	4.6
	APR-SEP	3.1	4.5	5.5	102%	6.5	7.9	5.4
SF Musselshell R ab Martinsdale								
	APR-JUL	22	41	54	104%	67	86	52
	APR-SEP	24	44	58	104%	72	92	56
Musselshell R at Harlowton ²								

Musselshell R nr Roundup ²	APR-JUL	20	53	75	97%	97	130	77
	APR-SEP	21	55	79	98%	103	137	81
	APR-JUL	38	49	95	96%	141	210	99
	APR-SEP	39	53	98	96%	143	210	102

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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	APR-JUL	280	335	375	82%	415	470	460
	APR-SEP	310	370	410	81%	450	510	505
Two Medicine R nr Browning ²	APR-JUL	109	134	151	74%	168	193	205
	APR-SEP	118	144	161	75%	178	205	215
Badger Ck nr Browning	APR-JUL	37	54	65	76%	76	93	86
	APR-SEP	41	59	71	75%	83	101	95
Swift Reservoir Inflow ²	APR-JUL	32	43	51	80%	59	70	64
	APR-SEP	40	52	61	79%	70	82	77
Dupuyer Ck nr Valier	APR-JUL	3.8	4.7	9.5	68%	14.3	21	14
	APR-SEP	4.3	5.5	10.8	69%	16.1	24	15.7
Cut Bank Ck nr Browning	APR-JUL	35	49	59	77%	69	83	77
	APR-SEP	39	54	64	76%	74	89	84
Marias R nr Shelby ²	APR-JUL	96	205	275	66%	345	455	415
	APR-SEP	101	215	290	66%	365	480	440
Teton R nr Dutton	APR-JUL	14.8	22	37	73%	55	83	51
	APR-SEP	16.8	25	42	71%	62	91	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	66	75	81	77%	87	96	105
	APR-SEP	80	89	95	78%	101	110	122
St. Mary R nr Babb ²	APR-JUL	225	265	295	77%	325	365	385
	APR-SEP	275	315	345	77%	375	415	450
St. Mary R at Intl Boundary ²	APR-JUL	235	295	335	77%	375	435	435
	APR-SEP	295	355	395	77%	435	495	515
Milk R at Western Crossing of Intl Bndry, AB	MAR-JUL	7.5	19.1	27	66%	35	46	41
	MAR-SEP	7.8	20	29	67%	38	50	43
	APR-JUL	7.9	16.3	22	67%	28	36	33
	APR-SEP	9.1	18	24	67%	30	39	36

Milk R at Eastern Crossing of Intl Bndry

MAR-JUL	24	36	61	73%	86	124	83.3
MAR-SEP	27	41	68	78%	95	134	87.7
APR-JUL	17	24	43	71%	62	89	60.6
APR-SEP	20	30	50	72%	70	98	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	1330	1710	1970	96%	2230	2610	2050
	APR-SEP	1510	1980	2290	96%	2600	3070	2390
Dearborn R nr Craig	APR-JUL	39	66	84	69%	102	129	121
	APR-SEP	42	71	90	72%	109	138	125
Missouri R at Fort Benton ²	APR-JUL	1920	2500	2900	97%	3300	3880	2990
	APR-SEP	2290	3010	3480	97%	3950	4660	3570
Missouri R nr Virgelle ²	APR-JUL	2250	2920	3380	98%	3840	4510	3450
	APR-SEP	2530	3440	3980	98%	4520	5430	4060
Missouri R nr Landusky ²	APR-JUL	2260	2980	3470	94%	3960	4680	3690
	APR-SEP	2630	3500	4080	94%	4660	5530	4350
Missouri R bl Fort Peck Dam ²	APR-JUL	2370	3090	3590	96%	4090	4810	3740
	APR-SEP	2610	3580	4150	96%	4720	5690	4330
Lake Sakakawea Inflow ²	APR-JUL	6360	8260	9550	98%	10800	12700	9740
	APR-SEP	8300	9520	11000	98%	12500	13700	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	475	540	580	98%	620	685	590
	APR-SEP	650	730	785	98%	840	920	805
Yellowstone R at Corwin Springs	APR-JUL	1390	1540	1650	100%	1760	1910	1650
	APR-SEP	1660	1840	1970	100%	2100	2280	1970
Yellowstone R at Livingston	APR-JUL	1560	1750	1880	99%	2010	2200	1900
	APR-SEP	1870	2100	2250	99%	2400	2630	2280
Shields R nr Livingston	APR-JUL	48	94	126	87%	158	205	145
	APR-SEP	52	102	137	85%	172	220	162
Boulder R at Big Timber	APR-JUL	245	285	315	111%	345	385	285
	APR-SEP	260	310	340	108%	370	420	315
Mystic Lake Inflow ²	APR-JUL	49	54	57	97%	60	65	59

Stillwater R nr Absarokee ²	APR-SEP	62	69	73	96%	77	84	76
	APR-JUL	360	420	460	93%	500	560	495
Clarks Fk Yellowstone R nr Belfry	APR-SEP	425	495	540	92%	585	655	585
	APR-JUL	445	500	535	99%	570	625	540
Cooney Reservoir Inflow	APR-SEP	485	540	580	97%	620	675	595
Yellowstone R at Billings	APR-JUL	2750	3200	3510	100%	3820	4270	3510
	APR-SEP	3020	3740	4100	100%	4460	5180	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	1010	1370	1620	101%	1870	2230	1610
	APR-SEP	1070	1480	1750	99%	2020	2430	1760
Little Bighorn R nr Hardin	APR-JUL	87	116	135	105%	154	183	128
	APR-SEP	98	130	151	105%	172	205	144
Tongue R nr Dayton ²	APR-JUL	84	102	115	120%	128	146	96
	APR-SEP	98	118	131	120%	144	164	109
Big Goose Ck nr Sheridan	APR-JUL	45	56	64	123%	72	83	52
	APR-SEP	52	64	72	120%	80	92	60
Little Goose Ck nr Bighorn	APR-JUL	29	36	41	121%	46	53	34
	APR-SEP	38	46	51	121%	56	64	42
Tongue River Reservoir Inflow ²	APR-JUL	173	235	280	127%	325	385	220
	APR-SEP	205	270	315	126%	360	425	250
Yellowstone R at Miles City ²	APR-JUL	3980	4740	5250	98%	5760	6520	5360
	APR-SEP	4450	5480	6070	98%	6660	7700	6210
Powder R at Moorehead	APR-JUL	170	230	270	132%	310	370	205
	APR-SEP	197	260	300	130%	340	405	230
Powder R nr Locate	APR-JUL	186	260	310	132%	360	435	235
	APR-SEP	210	290	345	133%	400	480	260
Yellowstone R nr Sidney ²	APR-JUL	4000	4850	5430	99%	6010	6860	5480
	APR-SEP	4590	5530	6230	99%	6930	7870	6280

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