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Streamflow Forecast Summary: February 1, 2013
(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	APR-JUL	97	114	125	99%	136	153	126
	APR-SEP	106	125	138	99%	151	170	140
Libby Reservoir Inflow ¹								
Fisher R nr Libby	APR-JUL	128	171	200	98%	230	270	205
	APR-SEP	140	185	215	98%	245	290	220
Yaak R nr Troy	APR-JUL	365	425	465	111%	505	565	420
	APR-SEP	385	445	485	110%	525	585	440
Kootenai R at Leonia ^{1,2}	APR-JUL	5430	6270	6650	101%	7030	7870	6600
	APR-SEP	6430	7230	7600	100%	7970	8770	7590

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

		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	1370	1520	1620	105%	1720	1870	1540
	APR-SEP	1530	1690	1790	105%	1890	2050	1700
MF Flathead R nr West Glacier	APR-JUL	1370	1540	1650	110%	1760	1930	1500
	APR-SEP	1500	1670	1790	110%	1910	2080	1630
Sf Flathead R nr Hungry Horse	APR-JUL	1060	1190	1280	108%	1370	1500	1180
	APR-SEP	1130	1270	1360	108%	1450	1590	1260
Hungry Horse Reservoir Inflow ^{1,2}	APR-JUL	1630	1900	2030	109%	2160	2430	1860
	APR-SEP	1740	2030	2160	109%	2290	2580	1980
Flathead R at Columbia Falls ²	APR-JUL	4620	5090	5400	108%	5710	6180	5020
	APR-SEP	5050	5530	5860	108%	6190	6670	5450
Ashley Ck nr Marion ²	MAR	0.51	0.97	1.29	108%	1.61	2.1	1.19
	APR-JUL	4.2	5.6	6.6	102%	7.6	9	6.5
Swan R nr Bigfork	APR-JUL	430	485	525	101%	565	620	520
	APR-SEP	495	555	600	101%	645	705	595
Flathead Lake Inflow ^{1,2}	APR-JUL	5030	5870	6250	108%	6630	7470	5810
	APR-SEP	5450	6340	6750	108%	7160	8050	6270
Mill Ck ab Bassoo ck nr Niarada	APR-JUL	2.2	3.2	3.9	98%	4.6	5.6	4
	APR-SEP	2.6	3.6	4.3	98%	5	6	4.4
South Crow Ck nr Ronan	APR-JUL	7.6	9	10	99%	11	12.4	10.1
	APR-SEP	8.7	10.3	11.4	98%	12.5	14.1	11.6
Mission Ck nr St. Ignatius	APR-JUL	21	23	25	100%	27	29	25
	APR-SEP	25	28	30	100%	32	35	30
SF Jocko R nr Arlee	APR-JUL	24	29	32	97%	35	40	33
	APR-SEP	27	32	36	97%	40	45	37

NF Jocko R bl Tabor Feeder Canal

APR-JUL	25	28	30	97%	32	35	31
APR-SEP	27	30	32	97%	34	37	33

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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	APR-JUL	36	54	66	94%	78	96	70
	APR-SEP	41	60	73	95%	86	105	77
Flint Ck nr Southern Cross	APR-JUL	6.2	10.1	12.7	102%	15.3	19.2	12.4
	APR-SEP	6.8	11.7	15	103%	18.3	23	14.6
Flint Ck bl Boulder Ck	APR-JUL	28	43	53	102%	63	78	52
	APR-SEP	38	56	68	103%	80	98	66
Lower Willow Ck Reservoir Inflow ²	APR-MAY	4	6.4	8	110%	9.6	12	7.3
	APR-JUL	5.8	9.5	12	113%	14.5	18.2	10.6
MF Rock Ck nr Philipsburg	APR-JUL	40	50	57	98%	64	74	58
	APR-SEP	46	57	64	98%	71	82	65
Rock Ck nr Clinton	APR-JUL	159	210	245	98%	280	330	250
	APR-SEP	182	235	275	98%	315	370	280
Clark Fork R ab Milltown	APR-JUL	270	415	515	97%	615	760	530
	APR-SEP	335	495	605	98%	715	875	615
Nevada Ck nr Helmville	APR-MAY	1.39	4.7	6.9	82%	9.1	12.4	8.4
	APR-JUL	2.7	8.1	11.7	82%	15.3	21	14.2
Blackfoot R nr Bonner	APR-JUL	440	560	640	89%	720	840	720
	APR-SEP	500	630	715	89%	800	930	800
Clark Fork R ab Missoula	APR-JUL	750	1000	1170	94%	1340	1590	1250
	APR-SEP	890	1160	1340	94%	1520	1790	1420

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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	61	90	109	85%	128	157	128
	APR-SEP	66	98	120	86%	142	174	139
Bitterroot R Nr Darby	APR-JUL	210	295	355	87%	415	500	410
	APR-SEP	270	355	415	88%	475	560	470
Como Reservoir Inflow ²	APR-JUL	58	65	70	92%	75	82	76
	APR-SEP	61	68	73	92%	78	85	79
Bitterroot R nr Missoula	APR-JUL	710	890	1010	88%	1130	1310	1150
	APR-SEP	790	980	1110	89%	1240	1430	1250

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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	1470	1880	2160	90%	2440	2850	2400
	APR-SEP	1690	2130	2430	91%	2730	3170	2670
Clark Fork R at St. Regis ¹	APR-JUL	1800	2530	2860	91%	3190	3920	3160
	APR-SEP	2100	2870	3220	92%	3570	4340	3510
Clark Fork R nr Plains ^{1,2}	APR-JUL	7130	8700	9420	102%	10100	11700	9200
	APR-SEP	7870	9540	10300	102%	11100	12700	10100
Thompson nr Thompson Falls	APR-JUL	81	118	143	79%	168	205	181
	APR-SEP	96	136	163	80%	190	230	205
Prospect Ck at Thompson Falls	APR-JUL	52	69	80	78%	91	108	102
	APR-SEP	57	74	86	78%	98	115	110
Clark Fork R at Whitehorse Rapids ^{1,2}	APR-JUL	8102.58353	9820.01725	10600	101%	11379.98275	13097.41647	10500
	APR-SEP	9052.17348	10873.04181	11700	102%	12526.95819	14347.82652	11500

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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	51	71	84	102%	97	117	82
	APR-SEP	53	75	91	102%	107	129	89
Clark Canyon Inflow ²	APR-JUL	13.7	66	101	100%	136	188	101
	APR-SEP	26	83	121	101%	159	215	120
Beaverhead R at Barretts ²	APR-JUL	12.2	85	135	105%	185	260	129
	APR-SEP	17	103	161	103%	220	305	156
Ruby R Reservoir Inflow ²	APR-JUL	42	57	68	88%	79	94	77
	APR-SEP	50	68	80	88%	92	110	91
Big Hole R at Wisdom	APR-JUL	25	66	93	91%	120	161	102
	APR-SEP	25	68	98	91%	128	171	108
Big Hole R nr Melrose	APR-JUL	250	370	450	87%	530	650	515
	APR-SEP	270	400	490	88%	580	710	560
Jefferson R nr Twin Bridges ²	APR-JUL	255	450	585	85%	720	915	690
	APR-SEP	250	475	625	86%	775	1000	730
Boulder R nr Boulder	APR-JUL	33	49	60	87%	71	87	69
	APR-SEP	35	52	64	86%	76	93	74
Willow Ck Reservoir Inflow ²	APR-JUL	4	10.4	14.8	88%	19.2	26	16.8
	APR-SEP	5.2	12.2	16.9	88%	22	29	19.3
Jefferson R nr Three Forks ²	APR-JUL	275	500	650	88%	800	1030	740
	APR-SEP	275	525	695	87%	865	1120	800

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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	290	330	360	97%	390	430	370
	APR-SEP	375	425	460	98%	495	545	470
Ennis Reservoir Inflow ²	APR-JUL	445	535	595	95%	655	745	625
	APR-SEP	560	665	735	95%	805	910	775

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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	295	350	390	98%	430	485	400
	APR-SEP	345	410	455	97%	500	565	470
Hyalite Reservoir Inflow ²	APR-JUL	15.2	17.5	19	95%	21	23	20
	APR-SEP	18.1	20	22	96%	24	26	23
Gallatin R at Logan	APR-JUL	250	350	420	95%	490	590	440
	APR-SEP	295	410	485	96%	560	675	505

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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	10.4	13.6	15.8	102%	18	21	15.5
	APR-SEP	12.5	16.2	18.7	102%	21	25	18.4
Smith R bl Eagle Ck ²	APR-JUL	57	89	110	104%	131	163	106
	APR-SEP	61	97	122	105%	147	183	116
NF Musselshell R nr Delpine	APR-JUL	2.1	3.4	4.2	98%	5	6.3	4.3
	APR-SEP	2.6	4	5	100%	6	7.4	5.01
SF Musselshell R ab Martinsdale	APR-JUL	5	14	27	77%	40	59	35
	APR-SEP	5	15.2	29	76%	43	63	38
Musselshell R at Harlowton ²	APR-JUL	0	28	50	88%	72	105	57
	APR-SEP	0	28	52	88%	76	110	59
Musselshell R nr Roundup ²	APR-JUL	-20	6.3	52	78%	98	165	67
	APR-SEP	-20	6.6	52	79%	97	164	66

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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	285	340	380	96%	420	475	395
	APR-SEP	320	380	420	95%	460	520	440
Two Medicine R nr Browning ²	APR-JUL	130	155	172	94%	189	215	183
	APR-SEP	140	166	183	94%	200	225	194
Badger Ck nr Browning	APR-JUL	54	71	82	93%	93	110	88
	APR-SEP	64	82	94	91%	106	124	103
Swift Reservoir Inflow ²	APR-JUL	34	45	53	93%	61	72	57
	APR-SEP	42	54	63	94%	72	84	67
Dupuyer Ck nr Valier	APR-JUL	1.6	5.5	10.3	93%	15.1	22	11.1
	APR-SEP	1.8	6.2	11.5	91%	16.8	25	12.7
Cut Bank Ck nr Browning	APR-JUL	43	57	67	97%	77	91	69
	APR-SEP	47	62	72	96%	82	97	75
Marias R nr Shelby ²	APR-JUL	161	270	340	99%	410	520	345
	APR-SEP	156	270	345	96%	420	535	360
Teton R nr Dutton	APR-JUL	5	19.5	38	90%	56	84	42
	APR-SEP	5	24	44	92%	64	93	48

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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	82	91	97	100%	103	112	97
	APR-SEP	99	108	114	102%	120	129	112
St. Mary R nr Babb ²	APR-JUL	305	345	375	101%	405	445	370
	APR-SEP	365	405	435	102%	465	505	425
St. Mary R at Intl Boundary ²	APR-JUL	340	400	440	101%	480	540	435
	APR-SEP	400	460	500	99%	540	600	505
Milk R at Western Crossing of Intl Bndry, AB	MAR-JUL	9.3	24	34	92%	44	59	37
	MAR-SEP	9.1	25	36	92%	47	63	39
	APR-JUL	6.1	19.2	28	90%	37	50	31
	APR-SEP	5.9	20	30	91%	40	54	33
Milk R at Eastern Crossing of Intl Bndry	MAR-JUL	1	39	66	118%	93	132	56
	MAR-SEP	2.9	46	75	119%	104	147	63
	APR-JUL	1.5	30	52	116%	74	106	45
	APR-SEP	2.6	39	64	116%	89	125	55

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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	1050	1430	1690	94%	1950	2330	1790
	APR-SEP	1180	1630	1940	94%	2250	2700	2070
Dearborn R nr Craig	APR-JUL	39	66	84	94%	102	129	89
	APR-SEP	43	72	91	96%	110	139	95
Missouri R at Fort Benton ²	APR-JUL	1530	2080	2450	94%	2820	3370	2610
	APR-SEP	1790	2450	2900	93%	3350	4010	3110
Missouri R nr Virgelle ²	APR-JUL	1780	2390	2810	94%	3230	3840	3000
	APR-SEP	2010	2750	3260	93%	3770	4510	3520
Missouri R nr Landusky ²	APR-JUL	1900	2540	2980	94%	3420	4060	3160
	APR-SEP	2160	2940	3470	93%	4000	4780	3720
Missouri R bl Fort Peck Dam ²	APR-JUL	1870	2570	3050	94%	3530	4230	3240
	APR-SEP	1900	2800	3410	92%	4020	4920	3700
Lake Sakakawea Inflow ²	APR-JUL	4910	6510	7600	91%	8690	10300	8310
	APR-SEP	5190	7170	8520	91%	9870	11800	9400

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

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	450	515	555	97%	595	660	575
	APR-SEP	600	680	735	95%	790	870	770
Yellowstone R at Corwin Springs	APR-JUL	1280	1430	1540	97%	1650	1800	1590
	APR-SEP	1500	1680	1810	96%	1940	2120	1880
Yellowstone R at Livingston	APR-JUL	1440	1630	1760	98%	1890	2080	1800
	APR-SEP	1690	1920	2070	97%	2220	2450	2140
Shields R nr Livingston	APR-JUL	19.1	65	97	75%	129	175	129
	APR-SEP	21	71	106	74%	141	191	143
Boulder R at Big Timber	APR-JUL	200	240	270	96%	300	340	280
	APR-SEP	210	260	290	97%	320	370	300
Mystic Lake Inflow ²	APR-JUL	45	50	53	90%	56	61	59
	APR-SEP	57	64	68	92%	72	79	74
Stillwater R nr Absarokee ²	APR-JUL	310	370	410	92%	450	510	445
	APR-SEP	365	435	480	92%	525	595	520
Clarks Fk Yellowstone R nr Belfry	APR-JUL	395	450	485	95%	520	575	510
	APR-SEP	430	485	525	95%	565	620	550
Cooney Reservoir Inflow	APR-JUL	7.3	19.6	28	73%	36	49	38.3
	APR-SEP	13.6	27	36	75%	45	58	48
Yellowstone R at Billings	APR-JUL	2280	2750	3060	95%	3370	3840	3230
	APR-SEP	2600	3150	3520	94%	3890	4440	3730

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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	565	930	1180	86%	1430	1790	1380
	APR-SEP	570	975	1250	86%	1520	1930	1460
Little Bighorn R nr Hardin	APR-JUL	17.1	46	65	66%	84	113	98
	APR-SEP	20	52	73	66%	94	126	111
Tongue R nr Dayton ²	APR-JUL	34	52	65	76%	78	96	86
	APR-SEP	41	61	74	76%	87	107	98
Big Goose Ck nr Sheridan	APR-JUL	12.8	24	32	70%	40	51	46
	APR-SEP	19.4	31	39	72%	47	59	54
Little Goose Ck nr Bighorn	APR-JUL	10.6	18	23	74%	28	35	31
	APR-SEP	16.6	25	30	77%	35	43	39
Tongue River Reservoir Inflow ²	APR-JUL	17.9	82	125	65%	168	230	193
	APR-SEP	29	96	141	66%	186	255	215
Yellowstone R at Miles City ²	APR-JUL	2870	3720	4290	90%	4860	5710	4780
	APR-SEP	3220	4220	4890	90%	5560	6560	5450
Powder R at Moorehead	APR-JUL	52	111	152	86%	193	250	177
	APR-SEP	71	132	174	89%	215	275	196
Powder R nr Locate	APR-JUL	47	121	171	86%	220	295	199
	APR-SEP	62	141	195	89%	250	330	220
Yellowstone R nr Sidney ²	APR-JUL	2700	3650	4300	89%	4950	5900	4830
	APR-SEP	2920	4050	4820	89%	5590	6720	5430

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