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Streamflow Forecast Summary: February 1, 2014
(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	69	86	97	77%	108	125	126
	APR-SEP	76	95	108	77%	121	140	140
Libby Reservoir Inflow ¹	APR-JUL	3670	4300	4580		4860	5490	
	APR-SEP	4520	5100	5370		5640	6220	
Fisher R nr Libby	APR-JUL	114	157	186	91%	215	260	205
	APR-SEP	124	169	199	90%	230	275	220
Yaak R nr Troy	APR-JUL	200	260	300	71%	340	400	420
	APR-SEP	220	280	320	73%	360	420	440
Kootenai R at Leonia ^{1,2}	APR-JUL	4360	5200	5580	85%	5960	6800	6600
	APR-SEP	5260	6060	6430	85%	6800	7600	7590

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	APR-JUL	1120	1270	1370	89%	1470	1620	1540
	APR-SEP	1260	1420	1520	89%	1620	1780	1700
MF Flathead R nr West Glacier	APR-JUL	1200	1370	1480	99%	1590	1760	1500
	APR-SEP	1320	1490	1610	99%	1730	1900	1630
Sf Flathead R nr Hungry Horse	APR-JUL	1020	1150	1240	105%	1330	1460	1180
	APR-SEP	1090	1230	1320	105%	1410	1550	1260
Hungry Horse Reservoir Inflow ^{1,2}	APR-JUL	1590	1860	1990	107%	2120	2390	1860
	APR-SEP	1700	1990	2120	107%	2250	2540	1980
Flathead R at Columbia Falls ²	APR-JUL	4150	4620	4930	98%	5240	5710	5020
	APR-SEP	4550	5030	5360	98%	5690	6170	5450
Ashley Ck nr Marion ²	APR-JUL	3.1	4.5	5.5	85%	6.5	7.9	6.5
	MAR	0.23	0.69	1.01	85%	1.33	1.79	1.19
Swan R nr Bigfork	APR-JUL	500	555	595	114%	635	690	520
	APR-SEP	570	630	675	113%	720	780	595
Flathead Lake Inflow ^{1,2}	APR-JUL	4470	5310	5690	98%	6070	6910	5810
	APR-SEP	4850	5740	6150	98%	6560	7450	6270
Mill Ck ab Bassoo ck nr Niarada	APR-JUL	2.4	3.3	4	100%	4.7	5.6	4
	APR-SEP	2.7	3.7	4.4	100%	5.1	6.1	4.4
South Crow Ck nr Ronan	APR-JUL	8.1	9.5	10.5	104%	11.5	12.9	10.1
	APR-SEP	9.3	10.9	12	103%	13.1	14.7	11.6
Mission Ck nr St. Ignatius	APR-JUL	22	24	26	104%	28	30	25
	APR-SEP	26	29	31	103%	33	36	30
SF Jocko R nr Arlee								

	APR-JUL	28	33	36	109%	39	44	33
	APR-SEP	31	36	40	108%	44	49	37
NF Jocko R bl Tabor Feeder Canal								
	APR-JUL	28	31	33	106%	35	38	31
	APR-SEP	30	33	35	106%	37	40	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	64	76	109%	88	106	70
	APR-SEP	51	70	83	108%	96	115	77
Flint Ck nr Southern Cross	APR-JUL	7.4	11.3	13.9	112%	16.5	20	12.4
	APR-SEP	8.2	13.1	16.4	112%	19.7	25	14.6
Flint Ck bl Boulder Ck	APR-JUL	33	48	58	112%	68	83	52
	APR-SEP	43	61	73	111%	85	103	66
Lower Willow Ck Reservoir Inflow ²	APR-MAY	3.2	5.6	7.2	99%	8.8	11.2	7.3
	APR-JUL	4.6	8.3	10.8	102%	13.3	17	10.6
MF Rock Ck nr Philipsburg	APR-JUL	45	55	62	107%	69	79	58
	APR-SEP	52	63	70	108%	77	88	65
Rock Ck nr Clinton	APR-JUL	189	240	275	110%	310	360	250
	APR-SEP	215	270	310	111%	350	405	280
Clark Fork R ab Milltown	APR-JUL	350	495	595	112%	695	840	530
	APR-SEP	415	575	685	111%	795	955	615
Nevada Ck nr Helmville	APR-JUL	7.4	12.8	16.4	115%	20	25	14.2
	APR-SEP							15.6
Blackfoot R nr Bonner	APR-JUL	545	665	745	103%	825	945	720
	APR-SEP	615	745	830	104%	915	1040	800
Clark Fork R ab Missoula	APR-JUL	930	1180	1350	108%	1520	1770	1250
	APR-SEP	1080	1350	1530	108%	1710	1980	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	86	115	134	105%	153	182	128
	APR-SEP	93	125	147	106%	169	200	139
Bitterroot R Nr Darby	APR-JUL	280	365	425	104%	485	570	410
	APR-SEP	345	430	490	104%	550	635	470
Como Reservoir Inflow ²	APR-JUL	57	64	69	91%	74	81	76
	APR-SEP	60	67	72	91%	77	84	79
Bitterroot R nr Missoula								

APR-JUL	840	1020	1140	99%	1260	1440	1150
APR-SEP	930	1120	1250	100%	1380	1570	1250

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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	1770	2180	2460	103%	2740	3150	2400
	APR-SEP	2010	2450	2750	103%	3050	3490	2670
Clark Fork R at St. Regis ¹	APR-JUL	2190	2920	3250	103%	3580	4310	3160
	APR-SEP	2510	3280	3630	103%	3980	4750	3510
Clark Fork R nr Plains ^{1,2}	APR-JUL	6910	8480	9200	100%	9920	11500	9200
	APR-SEP	7670	9340	10100	100%	10900	12500	10100
Thompson nr Thompson Falls	APR-JUL	71	108	133	73%	158	195	181
	APR-SEP	85	125	152	74%	179	220	205
Prospect Ck at Thompson Falls	APR-JUL	44	61	72	71%	83	100	102
	APR-SEP	48	65	77	70%	89	106	110
Clark Fork R at Whitehorse Rapids ^{1,2}	APR-JUL	7900	9620	10400	99%	11200	12900	10500
	APR-SEP	8750	10600	11400	99%	12200	14000	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	15.1	35	48	59%	61	81	82
	APR-SEP	10.6	33	49	55%	65	87	89
Clark Canyon Inflow ²	APR-JUL	-16	18.7	54	53%	89	141	101
	APR-SEP	-4	28	66	55%	104	161	120
Beaverhead R at Barretts ²	APR-JUL	10	32	82	64%	132	205	129
	APR-SEP	10	43	101	65%	159	245	156
Ruby R Reservoir Inflow ²	APR-JUL	26	42	52	68%	63	79	77
	APR-SEP	34	52	64	70%	76	94	91
Big Hole R at Wisdom	APR-JUL	22	63	90	88%	117	158	102
	APR-SEP	23	66	96	89%	126	169	108
Big Hole R nr Melrose	APR-JUL	320	440	520	101%	600	720	515
	APR-SEP	345	475	565	101%	655	785	560
Jefferson R nr Twin Bridges ²	APR-JUL	260	455	590	86%	725	920	690
	APR-SEP	250	475	625	86%	775	1000	730
Boulder R nr Boulder	APR-JUL	43	59	70	101%	81	97	69
	APR-SEP	46	63	75	101%	87	104	74
Willow Ck Reservoir Inflow ²								

Jefferson R nr Three Forks ²	APR-JUL	13.5	19.9	24	143%	29	35	16.8
	APR-SEP	17.4	24	29	150%	34	41	19.3
	APR-JUL	330	550	705	95%	855	1080	740
	APR-SEP	350	600	770	96%	940	1190	800

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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	APR-JUL	255	295	325	88%	355	395	370
	APR-SEP	330	380	415	88%	450	500	470
Ennis Reservoir Inflow ²	APR-JUL	355	440	500	80%	560	650	625
	APR-SEP	455	555	625	81%	695	800	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	315	370	410	103%	450	505	400
	APR-SEP	370	435	480	102%	520	585	470
Hyalite Reservoir Inflow ²	APR-JUL	17.9	20	22	110%	23	25	20
	APR-SEP	21	23	25	109%	26	29	23
Gallatin R at Logan	APR-JUL	285	385	450	102%	520	620	440
	APR-SEP	335	450	525	104%	600	715	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	14.2	17.4	19.6	126%	22	25	15.5
	APR-SEP	16.8	21	23	125%	26	29	18.4
Smith R bl Eagle Ck ²	APR-JUL	91	123	144	136%	165	197	106
	APR-SEP	102	138	163	141%	188	225	116
NF Musselshell R nr Delpine	APR-JUL	2.9	4.2	5	147%	5.8	7.1	3.4
	APR-SEP	3.5	4.9	5.9	148%	6.9	8.3	4
SF Musselshell R ab Martinsdale	APR-JUL	13	32	45	129%	58	77	35
	APR-SEP	14.9	35	49	129%	63	83	38
Musselshell R at Harlowton ²	APR-JUL	20	53	75	132%	97	130	57
	APR-SEP	22	56	80	136%	104	138	59

Musselshell R nr Roundup²

APR-JUL	-18.2	49	95	142%	141	210	67
APR-SEP	-12.7	54	100	152%	145	210	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	265	320	360	91%	400	455	395
	APR-SEP	295	355	395	90%	435	495	440
Two Medicine R nr Browning ²								
	APR-JUL	126	151	168	92%	185	210	183
	APR-SEP	137	163	180	93%	197	225	194
Badger Ck nr Browning								
	APR-JUL	55	72	83	94%	94	111	88
	APR-SEP	67	85	97	94%	109	127	103
Swift Reservoir Inflow ²								
	APR-JUL	36	47	55	96%	63	74	57
	APR-SEP	45	57	66	99%	75	87	67
Dupuyer Ck nr Valier								
	APR-JUL	1.5	5.8	10.6	95%	15.4	22	11.1
	APR-SEP	1.8	6.5	11.8	93%	17.1	25	12.7
Cut Bank Ck nr Browning								
	APR-JUL	39	53	63	91%	73	87	69
	APR-SEP	45	60	70	93%	80	95	75
Marias R nr Shelby ²								
	APR-JUL	156	265	335	97%	405	515	345
	APR-SEP	156	270	345	96%	420	535	360
Teton R nr Dutton								
	APR-JUL	5.4	17.5	36	86%	54	82	42
	APR-SEP	5.6	21	41	85%	61	90	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	78	87	93	96%	99	108	97
	APR-SEP	92	101	107	96%	113	122	112
St. Mary R nr Babb ²								
	APR-JUL	280	320	350	95%	380	420	370
	APR-SEP	335	375	405	95%	435	475	425
St. Mary R at Intl Boundary ²								
	APR-JUL	305	365	405	93%	450	510	435
	APR-SEP	365	425	465	92%	505	565	505
Milk R at Western Crossing of Intl Bndry, AB								
	APR-JUL							25
	APR-SEP							26
Milk R at Eastern Crossing of Intl Bndry								
	APR-JUL							45
	APR-SEP							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	1040	1420	1680	94%	1940	2320	1790
	APR-SEP	1190	1640	1950	94%	2260	2710	2070
Dearborn R nr Craig	APR-JUL	38	65	83	93%	101	128	89
	APR-SEP	42	71	90	95%	109	138	95
Missouri R at Fort Benton ²	APR-JUL	1490	2040	2410	92%	2780	3330	2610
	APR-SEP	1770	2430	2880	93%	3330	3990	3110
Missouri R nr Virgelle ²	APR-JUL	1730	2340	2760	92%	3180	3790	3000
	APR-SEP	1990	2730	3240	92%	3750	4490	3520
Missouri R nr Landusky ²	APR-JUL	1850	2490	2930	93%	3370	4010	3160
	APR-SEP	2130	2910	3440	92%	3970	4750	3720
Missouri R bl Fort Peck Dam ²	APR-JUL	1810	2510	2990	92%	3470	4170	3240
	APR-SEP	1870	2770	3380	91%	3990	4890	3700
Lake Sakakawea Inflow ²	APR-JUL	5740	7340	8430	101%	9520	11100	8310
	APR-SEP	6160	8140	9490	101%	10800	12800	9400

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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	415	475	520	90%	560	620	575
	APR-SEP	545	625	680	88%	735	815	770
Yellowstone R at Corwin Springs	APR-JUL	1320	1470	1580	99%	1690	1840	1590
	APR-SEP	1540	1720	1850	98%	1970	2160	1880
Yellowstone R at Livingston	APR-JUL	1480	1670	1800	100%	1930	2130	1800
	APR-SEP	1730	1960	2110	99%	2270	2500	2140
Shields R nr Livingston	APR-JUL	70	116	147	114%	179	225	129
	APR-SEP	75	126	160	112%	195	245	143
Boulder R at Big Timber	APR-JUL	235	275	305	109%	330	370	280
	APR-SEP	250	295	330	110%	360	405	300
Mystic Lake Inflow ²	APR-JUL	49	54	57	97%	60	65	59
	APR-SEP	62	69	73	99%	77	84	74
Stillwater R nr Absarokee ²	APR-JUL	360	420	460	103%	500	560	445
	APR-SEP	425	495	540	104%	585	655	520
Clarks Fk Yellowstone R nr Belfry	APR-JUL	450	505	540	106%	580	630	510
	APR-SEP	500	555	595	108%	630	685	550
Cooney Reservoir Inflow	APR-JUL	27	40	48	126%	56	69	38
	APR-SEP	37	50	59	123%	68	82	48

Yellowstone R at Billings

APR-JUL	2600	3060	3380	105%	3690	4160	3230
APR-SEP	2940	3490	3860	103%	4230	4780	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	855	1220	1470	107%	1720	2080	1380
	APR-SEP	915	1320	1600	110%	1870	2270	1460
Little Bighorn R nr Hardin	APR-JUL	57	86	105	107%	124	153	98
	APR-SEP	66	97	118	106%	140	171	111
Tongue R nr Dayton ²	APR-JUL	60	79	91	106%	104	123	86
	APR-SEP	71	91	105	107%	118	138	98
Big Goose Ck nr Sheridan	APR-JUL	29	41	48	104%	56	67	46
	APR-SEP	37	48	56	104%	64	76	54
Little Goose Ck nr Bighorn	APR-JUL	20	28	33	106%	38	45	31
	APR-SEP	27	35	41	105%	46	54	39
Tongue River Reservoir Inflow ²	APR-JUL	98	162	205	106%	250	310	193
	APR-SEP	120	187	230	107%	280	345	215
Yellowstone R at Miles City ²	APR-JUL	3640	4490	5060	106%	5630	6480	4780
	APR-SEP	4090	5080	5760	106%	6430	7420	5450
Powder R at Moorehead	APR-JUL	145	205	245	138%	285	345	177
	APR-SEP	167	230	270	138%	310	375	196
Powder R nr Locate	APR-JUL	156	230	280	141%	330	405	199
	APR-SEP	177	255	310	141%	365	445	220
Yellowstone R nr Sidney ²	APR-JUL	3630	4580	5230	108%	5880	6830	4830
	APR-SEP	3970	5100	5870	108%	6640	7770	5430

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