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Streamflow Forecast Summary: February 1, 2015
(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	62	79	90	71%	102	118	126
	APR-SEP	69	88	101	72%	114	133	140
Libby Reservoir Inflow ¹	APR-JUL	4030	4650	4940	93%	5220	5850	5340
	APR-SEP	4940	5520	5790	93%	6050	6640	6250
Fisher R nr Libby	APR-JUL	84	127	156	76%	186	230	205
	APR-SEP	93	138	169	77%	199	245	220
Yaak R nr Troy	APR-JUL	176	235	275	65%	315	375	420
	APR-SEP	190	250	290	66%	330	390	440
Kootenai R at Leonia ^{1,2}	APR-JUL	4830	5670	6050	92%	6430	7270	6600
	APR-SEP	5800	6610	6980	92%	7340	8150	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	1610	1540
	APR-SEP	1250	1410	1510	89%	1620	1770	1700
MF Flathead R nr West Glacier	APR-JUL	1220	1390	1500	100%	1610	1780	1500
	APR-SEP	1340	1510	1630	100%	1750	1920	1630
Sf Flathead R nr Hungry Horse	APR-JUL	1150	1280	1370	116%	1460	1590	1180
	APR-SEP	1220	1360	1450	115%	1540	1680	1260
Hungry Horse Reservoir Inflow ^{1,2}	APR-JUL	1780	2060	2180	117%	2310	2580	1860
	APR-SEP	1890	2180	2310	117%	2440	2730	1980
Flathead R at Columbia Falls ²	APR-JUL	4350	4810	5130	102%	5440	5900	5020
	APR-SEP	4730	5220	5550	102%	5880	6360	5450
Ashley Ck nr Marion ²	MAR	0.32	0.79	1.1	92%	1.42	1.89	1.19
	APR-JUL	3.9	5.4	6.3	97%	7.3	8.7	6.5
Swan R nr Bigfork	APR-JUL	535	590	630	121%	670	725	520
	APR-SEP	610	670	715	120%	760	820	595
Flathead Lake Inflow ^{1,2}	APR-JUL	4710	5550	5930	102%	6310	7150	5810
	APR-SEP	5080	5970	6380	102%	6790	7680	6270
Mill Ck ab Bassoo ck nr Niarada	APR-JUL	2.2	3.2	3.8	95%	4.5	5.5	4
	APR-SEP	2.5	3.5	4.2	95%	4.8	5.8	4.4
South Crow Ck nr Ronan	APR-JUL	8.6	10.1	11	109%	12	13.4	10.1
	APR-SEP	9.9	11.5	12.6	109%	13.7	15.3	11.6
Mission Ck nr St. Ignatius	APR-JUL	23	25	27	108%	28	30	25
	APR-SEP	27	30	32	107%	34	36	30
SF Jocko R nr Arlee								

	APR-JUL	30	35	39	118%	42	47	33
	APR-SEP	34	39	43	116%	46	52	37
NF Jocko R bl Tabor Feeder Canal								
	APR-JUL	29	33	35	113%	37	40	31
	APR-SEP	32	35	37	112%	39	42	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	51	69	81	116%	93	111	70
	APR-SEP	57	76	89	116%	101	120	77
Flint Ck nr Southern Cross	APR-JUL	8.6	12.5	15.1	122%	17.8	22	12.4
	APR-SEP	9.8	14.7	18	123%	21	26	14.6
Flint Ck bl Boulder Ck	APR-JUL	38	53	63	121%	73	88	52
	APR-SEP	49	67	79	120%	91	109	66
Lower Willow Ck Reservoir Inflow ²	APR-MAY	5.5	7.9	9.5	130%	11.1	13.5	7.3
	APR-JUL	7.8	11.5	14	132%	16.5	20	10.6
MF Rock Ck nr Philipsburg	APR-JUL	52	62	69	119%	76	86	58
	APR-SEP	58	69	77	118%	84	95	65
Rock Ck nr Clinton	APR-JUL	220	270	305	122%	340	390	250
	APR-SEP	250	305	345	123%	385	440	280
Clark Fork R ab Milltown	APR-JUL	410	555	655	124%	755	905	530
	APR-SEP	490	655	760	124%	870	1030	615
Nevada Ck nr Helmville	APR-MAY	4.5	7.8	10	119%	12.2	15.5	8.4
	APR-JUL	8	13.4	17	120%	21	26	14.2
Blackfoot R nr Bonner	APR-JUL	605	725	805	112%	885	1000	720
	APR-SEP	680	805	890	111%	975	1100	800
Clark Fork R ab Missoula	APR-JUL	1050	1310	1480	118%	1650	1900	1250
	APR-SEP	1220	1480	1660	117%	1850	2110	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	89	118	137	107%	157	185	128
	APR-SEP	95	128	150	108%	172	205	139
Bitterroot R Nr Darby	APR-JUL	295	380	435	106%	495	580	410
	APR-SEP	355	440	500	106%	560	645	470
Como Reservoir Inflow ²	APR-JUL	70	77	82	108%	87	94	76
	APR-SEP	73	81	86	109%	91	98	79
Bitterroot R nr Missoula								

APR-JUL	955	1130	1260	110%	1380	1560	1150
APR-SEP	1050	1240	1370	110%	1500	1700	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	2020	2430	2710	113%	2990	3400	2400
	APR-SEP	2270	2700	3000	112%	3300	3740	2670
Clark Fork R at St. Regis ¹	APR-JUL	2520	3250	3580	113%	3910	4640	3160
	APR-SEP	2830	3610	3960	113%	4310	5080	3510
Clark Fork R nr Plains ^{1,2}	APR-JUL	7490	9070	9780	106%	10500	12100	9200
	APR-SEP	8250	9920	10700	106%	11400	13100	10100
Thompson nr Thompson Falls	APR-JUL	78	115	135	75%	165	200	181
	APR-SEP	83	123	150	73%	177	215	205
Prospect Ck at Thompson Falls	APR-JUL	47	64	75	74%	86	103	102
	APR-SEP	51	68	80	73%	92	109	110
Clark Fork R at Whitehorse Rapids ^{1,2}	APR-JUL	8560	10300	11100	106%	11800	13600	10500
	APR-SEP	9470	11300	12100	105%	12900	14800	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	20	40	53	65%	66	86	82
	APR-SEP	17.6	40	56	63%	72	94	89
Clark Canyon Inflow ²	APR-JUL	-15	22	57	56%	92	144	101
	APR-SEP	-4	33	71	59%	109	166	120
Beaverhead R at Barretts ²	APR-JUL	20	36	86	67%	135	210	129
	APR-SEP	30	48	106	68%	165	250	156
Ruby R Reservoir Inflow ²	APR-JUL	20	36	46	60%	57	72	77
	APR-SEP	28	45	58	64%	70	88	91
Big Hole R at Wisdom	APR-JUL	56	97	124	122%	151	192	102
	APR-SEP	59	102	132	122%	162	205	108
Big Hole R nr Melrose	APR-JUL	455	570	650	126%	730	850	515
	APR-SEP	485	615	705	126%	795	925	560
Jefferson R nr Twin Bridges ²	APR-JUL	380	575	705	102%	840	1030	690
	APR-SEP	395	620	770	105%	925	1150	730
Boulder R nr Boulder	APR-JUL	53	69	80	116%	91	107	69
	APR-SEP	58	75	87	118%	99	116	74
Willow Ck Reservoir Inflow ²								

Jefferson R nr Three Forks ²	APR-JUL	2.3	8.7	13.1	78%	17.4	24	16.8
	APR-SEP	4.3	11.2	16	83%	21	28	19.3
	APR-JUL	295	520	675	91%	825	1050	740
	APR-SEP	310	560	730	91%	900	1150	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	245	285	315	85%	345	385	370
	APR-SEP	320	370	405	86%	440	490	470
Ennis Reservoir Inflow ²	APR-JUL	325	415	475	76%	535	625	625
	APR-SEP	425	530	600	77%	670	775	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	270	330	365	91%	405	460	400
	APR-SEP	320	385	430	91%	475	540	470
Hyalite Reservoir Inflow ²	APR-JUL	16.1	18.3	19.9	100%	21	24	20
	APR-SEP	18.7	21	23	100%	24	27	23
Gallatin R at Logan	APR-JUL	230	330	400	91%	470	570	440
	APR-SEP	265	380	455	90%	530	645	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	13.8	17	19.2	124%	21	25	15.5
	APR-SEP	16.3	20	23	125%	25	29	18.4
Smith R bl Eagle Ck ²	APR-JUL	74	106	127	120%	148	180	106
	APR-SEP	83	119	144	124%	169	205	116
NF Musselshell R nr Delpine	APR-JUL	2	3.2	4.1	121%	4.9	6.2	3.4
	APR-SEP	2.4	3.9	4.8	120%	5.8	7.2	4
SF Musselshell R ab Martinsdale	APR-JUL	3	22	35	100%	48	67	35
	APR-SEP	3.9	24	38	100%	52	72	38
Musselshell R at Harlowton ²	APR-JUL	7.5	40	62	109%	84	117	57
	APR-SEP	3.8	38	62	105%	86	120	59

Musselshell R nr Roundup²

APR-JUL	-23	27	72	107%	118	185	67
APR-SEP	-25	23	69	105%	114	181	66

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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								
	APR-JUL	295	350	390	99%	425	480	395
	APR-SEP	330	390	430	98%	470	530	440
Two Medicine R nr Browning ²								
	APR-JUL	130	155	172	94%	189	215	183
	APR-SEP	139	165	182	94%	199	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	32	43	51	89%	59	70	57
	APR-SEP	40	52	61	91%	70	82	67
Dupuyer Ck nr Valier								
	APR-JUL	1.5	4.7	9.5	86%	14.3	21	11.1
	APR-SEP	1.8	5.5	10.8	85%	16	24	12.7
Cut Bank Ck nr Browning								
	APR-JUL	36	50	60	87%	70	84	69
	APR-SEP	41	56	66	88%	76	91	75
Marias R nr Shelby ²								
	APR-JUL	144	250	325	94%	395	500	345
	APR-SEP	144	255	335	93%	410	520	360
Teton R nr Dutton								
	APR-JUL	5	26	45	107%	63	90	42
	APR-SEP	5.2	31	51	106%	71	100	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	66	75	81	84%	87	96	97
	APR-SEP	79	88	95	85%	101	110	112
St. Mary R nr Babb ²								
	APR-JUL	235	275	300	81%	330	370	370
	APR-SEP	280	325	350	82%	380	425	425
St. Mary R at Intl Boundary ²								
	APR-JUL	240	300	340	78%	380	440	435
	APR-SEP	295	360	400	79%	440	500	505
Milk R at Western Crossing of Intl Bndry, AB								
	MAR-SEP	17.8	26	35	108%	49	62	32.5
Milk R at Eastern Crossing of Intl Bndry								
	MAR-SEP	42	59	77	94%	95	149	81.6

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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	900	1280	1540	86%	1800	2180	1790
	APR-SEP	1020	1470	1780	86%	2090	2540	2070
Dearborn R nr Craig	APR-JUL	36	63	81	91%	99	126	89
	APR-SEP	40	68	87	92%	107	135	95
Missouri R at Fort Benton ²	APR-JUL	1350	1900	2270	87%	2640	3190	2610
	APR-SEP	1600	2260	2710	87%	3160	3820	3110
Missouri R nr Virgelle ²	APR-JUL	1600	2210	2630	88%	3050	3660	3000
	APR-SEP	1830	2570	3080	88%	3590	4330	3520
Missouri R nr Landusky ²	APR-JUL	1700	2340	2780	88%	3220	3860	3160
	APR-SEP	1950	2730	3260	88%	3790	4570	3720
Missouri R bl Fort Peck Dam ²	APR-JUL	1630	2330	2810	87%	3290	3990	3240
	APR-SEP	1660	2560	3170	86%	3780	4680	3700
Lake Sakakawea Inflow ²	APR-JUL	5270	6870	7970	96%	9050	10600	8310
	APR-SEP	5620	7600	8950	95%	10300	12300	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	440	505	545	95%	585	650	575
	APR-SEP	580	660	715	93%	770	850	770
Yellowstone R at Corwin Springs	APR-JUL	1420	1570	1680	106%	1790	1940	1590
	APR-SEP	1660	1840	1970	105%	2100	2280	1880
Yellowstone R at Livingston	APR-JUL	1590	1790	1920	107%	2050	2240	1800
	APR-SEP	1870	2100	2250	105%	2410	2630	2140
Shields R nr Livingston	APR-JUL	36	83	114	88%	146	192	129
	APR-SEP	39	90	125	87%	159	210	143
Boulder R at Big Timber	APR-JUL	210	250	280	100%	305	345	280
	APR-SEP	220	265	300	100%	330	375	300
Mystic Lake Inflow ²	APR-JUL	53	58	61	103%	64	69	59
	APR-SEP	67	74	78	105%	82	89	74
Stillwater R nr Absarokee ²	APR-JUL	360	420	460	103%	500	560	445
	APR-SEP	430	495	540	104%	585	655	520
Clarks Fk Yellowstone R nr Belfry	APR-JUL	505	560	595	117%	630	685	510
	APR-SEP	560	615	655	119%	695	750	550
Cooney Reservoir Inflow	APR-JUL	14.3	27	35	92%	43	56	38
	APR-SEP	22	35	44	92%	53	67	48
Yellowstone R at Billings	APR-JUL	2690	3150	3460	107%	3780	4240	3230

	APR-SEP	3050	3600	3970	106%	4340	4890	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	685	1050	1300	94%	1550	1910	1380
	APR-SEP	700	1110	1380	95%	1650	2060	1460
Little Bighorn R nr Hardin	APR-JUL	45	74	93	95%	112	141	98
	APR-SEP	56	88	109	98%	130	162	111
Tongue R nr Dayton ²	APR-JUL	52	70	83	97%	96	114	86
	APR-SEP	62	82	95	97%	108	128	98
Big Goose Ck nr Sheridan	APR-JUL	24	35	43	93%	51	62	46
	APR-SEP	30	42	50	93%	58	70	54
Little Goose Ck nr Bighorn	APR-JUL	16.6	24	29	94%	34	41	31
	APR-SEP	24	32	37	95%	42	50	39
Tongue River Reservoir Inflow ²	APR-JUL	72	136	179	93%	220	285	193
	APR-SEP	88	155	200	93%	245	310	215
Yellowstone R at Miles City ²	APR-JUL	3500	4350	4920	103%	5490	6340	4780
	APR-SEP	3920	4920	5590	103%	6260	7260	5450
Powder R at Moorehead	APR-JUL	69	129	169	95%	210	270	177
	APR-SEP	86	147	189	96%	230	290	196
Powder R nr Locate	APR-JUL	67	141	191	96%	240	315	199
	APR-SEP	79	159	210	95%	265	345	220
Yellowstone R nr Sidney ²	APR-JUL	3380	4330	4980	103%	5630	6580	4830
	APR-SEP	3670	4800	5570	103%	6340	7470	5430

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