

Report Created:
6/16/2014 2:45:02 PM

Streamflow Forecast Summary: January 1, 2012
(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	56	79	95	70%	111	134	136
	APR-SEP	63	89	106	71%	123	149	150
Libby Reservoir Inflow ¹								
Fisher R nr Libby	APR-JUL	91	144	180	78%	215	270	230
	APR-SEP	98	153	190	78%	225	280	245
Yaak R nr Troy	APR-JUL	215	310	370	80%	430	525	465
	APR-SEP	235	325	390	80%	455	545	490
Kootenai R at Leonia ^{1,2}	APR-JUL	4340	5400	5880	84%	6360	7410	7040
	APR-SEP	5170	6240	6730	83%	7220	8290	8120

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	965	1180	1320	81%	1470	1680	1620
	APR-SEP	1080	1310	1460	81%	1610	1840	1800
MF Flathead R nr West Glacier	APR-JUL	1030	1250	1410	89%	1560	1780	1590
	APR-SEP	1120	1350	1510	87%	1670	1900	1740
Sf Flathead R nr Hungry Horse	APR-JUL	690	875	1000	80%	1120	1310	1250
	APR-SEP	740	930	1060	80%	1190	1380	1330
Hungry Horse Reservoir Inflow ^{1,2}	APR-JUL	910	1310	1490	75%	1670	2080	2000
	APR-SEP	990	1400	1590	75%	1780	2190	2120
Flathead R at Columbia Falls ²	APR-JUL	3200	3880	4340	81%	4810	5490	5350
	APR-SEP	3530	4250	4730	81%	5210	5920	5820
Ashley Ck nr Marion ²	MAR	0.03	0.52	0.85	80%	1.18	1.67	1.06
	APR-JUL	2.5	4.1	5.2	72%	6.3	7.9	7.2
Swan R nr Bigfork	APR-JUL	320	395	450	80%	505	580	565
	APR-SEP	370	455	515	80%	575	660	645
Flathead Lake Inflow ^{1,2}	APR-JUL	3170	4380	4930	80%	5480	6700	6180
	APR-SEP	3500	4780	5360	80%	5940	7220	6700
Mill Ck ab Bassoo ck nr Niarada	APR-JUL	1.27	2.6	3.5	85%	4.4	5.7	4.1
	APR-SEP	1.51	2.9	3.8	86%	4.7	6.1	4.4
South Crow Ck nr Ronan	APR-JUL	6.5	8	9	89%	10	11.5	10.1
	APR-SEP	7.4	9.1	10.2	89%	11.3	13	11.5
Mission Ck nr St. Ignatius	APR-JUL	19	21	23	92%	25	27	25
	APR-SEP	22	25	27	90%	29	32	30
SF Jocko R nr Arlee	APR-JUL	16.4	22	26	87%	30	36	30

NF Jocko R bl Tabor Feeder Canal	APR-SEP	18.8	25	29	85%	33	39	34
	APR-JUL	20	24	27	87%	30	34	31
	APR-SEP	22	26	29	88%	32	36	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	28	52	68	89%	84	108	76
	APR-SEP	33	58	75	89%	92	117	84
Flint Ck nr Southern Cross	APR-JUL	5.7	9.8	12.6	92%	15.4	19.5	13.7
	APR-SEP	6.2	11.4	14.9	92%	18.4	24	16.2
Flint Ck bl Boulder Ck	APR-JUL	23	39	50	89%	61	77	56
	APR-SEP	31	50	63	89%	76	95	71
Lower Willow Ck Reservoir Inflow ²	APR-MAY	2.7	5.4	7.3	89%	9.2	11.9	8.2
	APR-JUL	3.5	8.1	11.2	90%	14.3	18.9	12.5
MF Rock Ck nr Philipsburg	APR-JUL	38	49	57	89%	65	76	64
	APR-SEP	42	55	63	88%	71	84	72
Rock Ck nr Clinton	APR-JUL	144	205	245	91%	285	345	270
	APR-SEP	166	230	275	90%	320	385	305
Clark Fork R ab Milltown	APR-JUL	235	405	520	86%	635	805	605
	APR-SEP	295	480	605	86%	730	915	705
Nevada Ck nr Helmville	APR-MAY	3.2	6.5	8.7	84%	10.9	14.2	10.3
	APR-JUL	5.7	11	14.6	84%	18.2	24	17.3
Blackfoot R nr Bonner	APR-JUL	350	525	645	80%	765	940	805
	APR-SEP	405	590	720	81%	850	1040	890
Clark Fork R ab Missoula	APR-JUL	670	975	1180	84%	1390	1690	1410
	APR-SEP	800	1120	1340	84%	1560	1880	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	60	98	124	87%	150	188	143
	APR-SEP	65	107	135	86%	163	205	157
Bitterroot R Nr Darby	APR-JUL	210	325	400	87%	475	590	460
	APR-SEP	260	375	450	87%	525	640	515
Como Reservoir Inflow ²	APR-JUL	55	66	74	95%	82	93	78
	APR-SEP	57	69	77	94%	85	97	82
Bitterroot R nr Missoula	APR-JUL	690	970	1160	93%	1350	1630	1250

APR-SEP	755	1050	1250	91%	1450	1740	1370
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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	2000	2360	89%	2720	3250	2660
	APR-SEP	1680	2230	2610	88%	2990	3540	2960
Clark Fork R at St. Regis ¹	APR-JUL	1980	2950	3390	96%	3830	4800	3520
	APR-SEP	2260	3280	3740	96%	4200	5210	3910
Clark Fork R nr Plains ^{1,2}	APR-JUL	5660	7660	8570	85%	9480	11500	10100
	APR-SEP	6380	8490	9440	85%	10400	12500	11100
Thompson nr Thompson Falls	APR-JUL	56	103	135	66%	167	215	205
	APR-SEP	70	120	154	67%	188	240	230
Prospect Ck at Thompson Falls	APR-JUL	41	65	81	70%	97	121	116
	APR-SEP	46	70	87	70%	104	128	124
Clark Fork R at Whitehorse Rapids ^{1,2}	APR-JUL	6410	8670	9700	86%	10700	13000	11300
	APR-SEP	7270	9650	10700	86%	11800	14200	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	26	47	62	65%	77	98	96
	APR-SEP	24	48	65	63%	82	106	104
Clark Canyon Inflow ²	APR-JUL	30	45	75	57%	115	173	131
	APR-SEP	36	53	89	57%	133	197	156
Beaverhead R at Barretts ²	APR-JUL	42	63	106	63%	157	235	168
	APR-SEP	50	76	126	63%	185	275	200
Ruby R Reservoir Inflow ²	APR-JUL	37	57	70	83%	83	103	84
	APR-SEP	46	69	84	83%	99	122	101
Big Hole R at Wisdom	APR-JUL	30	44	76	63%	111	162	121
	APR-SEP	32	47	80	62%	117	172	130
Big Hole R nr Melrose	APR-JUL	168	320	425	70%	530	680	610
	APR-SEP	190	355	465	70%	575	740	660
Jefferson R nr Twin Bridges ²	APR-JUL	210	355	525	67%	695	945	785
	APR-SEP	230	380	570	65%	760	1040	880
Boulder R nr Boulder	APR-JUL	44	62	74	95%	86	104	78
	APR-SEP	48	67	80	94%	93	112	85
Willow Ck Reservoir Inflow ²	APR-JUL	5	7.6	12.4	69%	17.2	24	17.9

Jefferson R nr Three Forks ²	APR-SEP	5.6	8.6	13.8	69%	19	27	20
	APR-JUL	145	420	605	78%	790	1060	780
	APR-SEP	145	450	655	76%	860	1170	860

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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	245	295	330	84%	365	415	395
	APR-SEP	315	380	420	83%	460	525	505
Ennis Reservoir Inflow ²	APR-JUL	405	495	560	82%	625	715	680
	APR-SEP	515	625	700	82%	775	885	850

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

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	335	380	86%	425	490	440
	APR-SEP	320	395	445	86%	495	570	515
Hyalite Reservoir Inflow ²	APR-JUL	17.9	20	22	100%	24	26	22
	APR-SEP	21	23	25	100%	27	29	25
Gallatin R at Logan	APR-JUL	220	330	405	82%	480	590	495
	APR-SEP	265	385	470	82%	555	675	570

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

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	9.7	13.1	15.4	90%	17.7	21	17.1
	APR-SEP	11.6	15.5	18.2	91%	21	25	20
Smith R bl Eagle Ck ²	APR-JUL	65	98	120	90%	142	175	133
	APR-SEP	66	104	130	87%	156	194	149
NF Musselshell R nr Delpine	APR-JUL	1.33	3	4.1	89%	5.2	6.9	4.6
	APR-SEP	1.61	3.5	4.8	89%	6.1	8	5.4
SF Musselshell R ab Martinsdale	APR-JUL	11.2	16.9	28	54%	43	65	52
	APR-SEP	11.6	17.5	29	52%	45	68	56
Musselshell R at Harlowton ²	APR-JUL	22	31	56	73%	81	119	77
	APR-SEP	23	30	57	70%	84	124	81
Musselshell R nr Roundup ²								

APR-JUL	25	43	62	63%	117	199	99
APR-SEP	24	41	60	59%	116	198	102

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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	285	355	405	88%	455	525	460
	APR-SEP	320	395	445	88%	495	570	505
Two Medicine R nr Browning ²	APR-JUL	137	167	187	91%	205	235	205
	APR-SEP	145	175	195	91%	215	245	215
Badger Ck nr Browning	APR-JUL	47	67	81	94%	95	115	86
	APR-SEP	54	75	90	95%	105	126	95
Swift Reservoir Inflow ²	APR-JUL	40	52	61	95%	70	82	64
	APR-SEP	50	64	73	95%	82	96	77
Dupuyer Ck nr Valier	APR-JUL	5.2	8.3	13.2	94%	18.1	25	14
	APR-SEP	6	9.6	15	96%	20	28	15.7
Cut Bank Ck nr Browning	APR-JUL	43	59	70	91%	81	97	77
	APR-SEP	44	61	73	87%	85	102	84
Marias R nr Shelby ²	APR-JUL	177	295	375	90%	455	575	415
	APR-SEP	190	310	395	90%	480	600	440
Teton R nr Dutton	APR-JUL	21	34	53	104%	72	100	51
	APR-SEP	24	41	61	103%	81	111	59

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

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	80	92	100	95%	108	120	105
	APR-SEP	97	109	117	96%	125	137	122
St. Mary R nr Babb ²	APR-JUL	290	335	370	96%	405	450	385
	APR-SEP	350	400	435	97%	470	520	450
St. Mary R at Intl Boundary ²	APR-JUL	315	385	435	100%	485	555	435
	APR-SEP	390	460	510	99%	560	630	515
Milk R at Western Crossing of Intl Bndry, AB	MAR-JUL	18.4	28	37	90%	46	50	41
	MAR-SEP	19.4	29	39	91%	49	53	43
	APR-JUL	13.8	24	31	94%	38	48	33
	APR-SEP	15.1	26	33	92%	40	51	36
Milk R at Eastern Crossing of Intl Bndry	MAR-JUL	38	51	78	94%	93	107	83.3
	MAR-SEP	40	54	82	94%	97	112	87.7
	APR-JUL	24	40	60	99%	80	110	60.6
	APR-SEP	26	45	66	95%	87	118	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	920	1270	1580	77%	1890	2260	2050
	APR-SEP	1070	1490	1850	77%	2210	2630	2390
Dearborn R nr Craig	APR-JUL	51	77	95	79%	113	139	121
	APR-SEP	58	85	104	83%	123	150	125
Missouri R at Fort Benton ²	APR-JUL	1440	1990	2390	80%	2790	3370	2990
	APR-SEP	1700	2400	2870	80%	3340	4030	3570
Missouri R nr Virgelle ²	APR-JUL	1690	2330	2790	81%	3250	3920	3450
	APR-SEP	1970	2760	3300	81%	3840	4630	4060
Missouri R nr Landusky ²	APR-JUL	1710	2430	2920	79%	3410	4100	3690
	APR-SEP	2000	2840	3420	79%	4000	4840	4350
Missouri R bl Fort Peck Dam ²	APR-JUL	1760	2450	2950	79%	3450	4170	3740
	APR-SEP	2020	2870	3440	79%	4010	4860	4330
Lake Sakakawea Inflow ²	APR-JUL	5190	7090	8380	86%	9670	11600	9740
	APR-SEP	5950	8150	9630	86%	11100	13300	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	435	520	575	97%	630	715	590
	APR-SEP	575	680	755	94%	830	935	805
Yellowstone R at Corwin Springs	APR-JUL	1240	1440	1580	96%	1720	1920	1650
	APR-SEP	1450	1690	1850	94%	2010	2250	1970
Yellowstone R at Livingston	APR-JUL	1400	1640	1800	95%	1960	2200	1900
	APR-SEP	1640	1920	2110	93%	2300	2580	2280
Shields R nr Livingston	APR-JUL	31	47	77	53%	118	178	145
	APR-SEP	34	52	85	52%	130	196	162
Boulder R at Big Timber	APR-JUL	171	220	250	88%	280	330	285
	APR-SEP	187	240	275	87%	310	365	315
Mystic Lake Inflow ²	APR-JUL	43	49	53	88%	57	63	60
	APR-SEP	55	63	68	88%	73	81	77
Stillwater R nr Absarokee ²	APR-JUL	325	385	430	87%	475	535	495
	APR-SEP	385	460	510	87%	560	635	585
Clarks Fk Yellowstone R nr Belfry	APR-JUL	420	485	530	98%	575	640	540
	APR-SEP	460	530	580	97%	630	700	595

Cooney Reservoir Inflow

Yellowstone R at Billings

APR-JUL	2320	2900	3230	92%	3560	4140	3510
APR-SEP	2720	3420	3800	92%	4180	4880	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	965	1310	1540	96%	1770	2110	1610
	APR-SEP	1020	1410	1670	95%	1930	2320	1760
Little Bighorn R nr Hardin	APR-JUL	91	122	143	112%	164	195	128
	APR-SEP	107	141	164	114%	187	220	144
Tongue R nr Dayton ²	APR-JUL	75	95	109	114%	123	143	96
	APR-SEP	88	110	125	115%	140	162	109
Big Goose Ck nr Sheridan	APR-JUL	43	55	63	121%	71	83	52
	APR-SEP	50	63	71	118%	79	92	60
Little Goose Ck nr Bighorn	APR-JUL	27	35	40	118%	45	53	34
	APR-SEP	36	44	50	119%	56	64	42
Tongue River Reservoir Inflow ²	APR-JUL	153	220	265	120%	310	375	220
	APR-SEP	182	250	300	120%	350	420	250
Yellowstone R at Miles City ²	APR-JUL	3480	4340	4880	91%	5420	6320	5360
	APR-SEP	4050	5060	5680	91%	6300	7300	6210
Powder R at Moorehead	APR-JUL	99	168	215	105%	260	330	205
	APR-SEP	125	196	245	107%	295	365	230
Powder R nr Locate	APR-JUL	104	188	245	104%	300	385	235
	APR-SEP	128	220	280	108%	340	430	260
Yellowstone R nr Sidney ²	APR-JUL	3620	4450	5040	92%	5630	6490	5480
	APR-SEP	4140	5080	5780	92%	6480	7430	6280

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