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Streamflow Forecast Summary: January 1, 2011
(averages based on 1981-2010 reference period)

KOOTENAI RIVER BASIN in MONTANA	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment: Chance that actual volume will exceed forecast — 90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Tobacco R nr Eureka								
	APR-JUL	97	120	136	100%	152	175	136
	APR-SEP	107	133	150	100%	167	193	150
Libby Reservoir Inflow[1]								
Fisher R nr Libby								
	APR-JUL	146	199	235	102%	270	325	230
	APR-SEP	158	215	250	102%	285	340	245
Yaak R nr Troy								
	APR-JUL	275	370	430	92%	490	585	465
	APR-SEP	300	390	455	93%	520	610	490
Kootenai R at Leonia[1,2]								
	APR-JUL	5130	6190	6670	95%	7150	8210	7040
	APR-SEP	6140	7210	7700	95%	8190	9260	8120

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3) Median value used in place of average

FLATHEAD RIVER BASIN	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment: Chance that actual volume will exceed forecast — 90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
NF Flathead R nr Columbia Falls								
	APR-JUL	1300	1520	1660	102%	1800	2020	1620
	APR-SEP	1460	1690	1840	102%	1990	2220	1800
MF Flathead R nr West Glacier								
	APR-JUL	1280	1500	1650	104%	1800	2020	1590
	APR-SEP	1410	1640	1800	103%	1960	2190	1740
Sf Flathead R nr Hungry Horse								
	APR-JUL	1010	1200	1320	106%	1440	1630	1250
	APR-SEP	1090	1280	1410	106%	1540	1730	1330
Hungry Horse Reservoir Inflow[1,2]								
	APR-JUL	1540	1940	2120	106%	2300	2700	2000
	APR-SEP	1660	2070	2260	107%	2450	2860	2120
Flathead R at Columbia Falls[2]								
	APR-JUL	4460	5150	5610	105%	6070	6760	5350
	APR-SEP	4920	5630	6110	105%	6590	7300	5820
Ashley Ck nr Marion[2]								
	MAR	0.35	0.84	1.17	110%	1.5	1.99	1.06
	APR-JUL	5.2	6.8	7.9	110%	9	10.6	7.2
Swan R nr Bigfork								
	APR-JUL	470	545	600	106%	655	730	565
	APR-SEP	540	625	685	106%	745	830	645
Flathead Lake Inflow[1,2]								
	APR-JUL	4910	6120	6670	108%	7220	8430	6180
	APR-SEP	5370	6650	7230	108%	7810	9090	6700
Mill Ck ab Bassoo ck nr Niarada								
	APR-JUL	3.1	4.4	5.3	129%	6.2	7.5	4.1
	APR-SEP	3.4	4.8	5.7	130%	6.6	8	4.4
South Crow Ck nr Ronan								
	APR-JUL	9.1	10.6	11.6	115%	12.6	14.1	10.1
	APR-SEP	10.4	12.1	13.2	115%	14.3	16	11.5
Mission Ck nr St. Ignatius								
	APR-JUL	24	26	28	112%	30	32	25
	APR-SEP	28	31	33	110%	35	38	30

SF Jocko R nr Arlee								
	APR-JUL	31	37	41	137%	45	51	30
	APR-SEP	36	42	46	135%	50	56	34
NF Jocko R bl Tabor Feeder Canal								
	APR-JUL	29	33	36	116%	39	43	31
	APR-SEP	31	35	38	115%	41	45	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	34	58	74	97%	90	114	76
	APR-SEP	39	64	81	96%	98	123	84
Flint Ck nr Southern Cross								
	APR-JUL	6.9	11	13.8	101%	16.6	21	13.7
	APR-SEP	7.6	12.8	16.3	101%	19.8	25	16.2
Flint Ck bl Boulder Ck								
	APR-JUL	28	44	55	98%	66	82	56
	APR-SEP	38	57	70	99%	83	102	71
Lower Willow Ck Reservoir Inflow[2]								
	APR-MAY	3.6	6.4	8.2	100%	10	12.8	8.2
	APR-JUL	4.8	9.4	12.5	100%	15.6	20	12.5
MF Rock Ck nr Philipsburg								
	APR-JUL	42	53	61	95%	69	80	64
	APR-SEP	47	60	68	94%	76	89	72
Rock Ck nr Clinton								
	APR-JUL	154	215	255	94%	295	355	270
	APR-SEP	176	240	285	93%	330	395	305
Clark Fork R ab Milltown								
	APR-JUL	365	535	650	107%	765	935	605
	APR-SEP	445	630	755	107%	880	1060	705
Nevada Ck nr Helmville								
	APR-MAY	4.8	8.1	10.3	100%	12.5	15.8	10.3
	APR-JUL	8.4	13.7	17.3	100%	21	26	17.3
	APR-SEP	9.5	15.1	18.9	100%	23	28	18.9
Blackfoot R nr Bonner								
	APR-JUL	585	760	880	109%	1000	1180	805
	APR-SEP	665	850	980	110%	1110	1300	890
Clark Fork R ab Missoula								
	APR-JUL	1020	1320	1530	109%	1740	2040	1410
	APR-SEP	1190	1510	1730	108%	1950	2270	1600

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		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
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	79	117	143	100%	169	205	143
	APR-SEP	87	129	157	100%	185	225	157
Bitterroot R Nr Darby								
	APR-JUL	250	365	440	96%	515	630	460
	APR-SEP	300	415	490	95%	565	680	515
Como Reservoir Inflow[2]								

	APR-JUL	56	67	75	96%	83	94	78
	APR-SEP	59	71	79	96%	87	99	82
Bitterroot R nr Missoula								
	APR-JUL	720	1000	1190	95%	1380	1660	1250
	APR-SEP	805	1100	1300	95%	1500	1790	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	1840	2370	2730	103%	3090	3620	2660
	APR-SEP	2110	2660	3040	103%	3420	3970	2960
Clark Fork R at St. Regis[1]								
	APR-JUL	2190	3160	3600	102%	4040	5010	3520
	APR-SEP	2520	3540	4000	102%	4460	5480	3910
Clark Fork R nr Plains[1,2]								
	APR-JUL	7590	9590	10500	104%	11400	13400	10100
	APR-SEP	8440	10500	11500	104%	12500	14600	11100
Thompson nr Tompson Falls								
	APR-JUL	126	173	205	100%	235	285	205
	APR-SEP	146	196	230	100%	265	315	230
Prospect Ck at Thompson Falls								
	APR-JUL	77	101	117	101%	133	157	116
	APR-SEP	84	108	125	101%	142	166	124
Clark Fork R at Whitehorse Rapids[1,2]								
	APR-JUL	8310	10600	11600	103%	12600	14900	11300
	APR-SEP	9240	11600	12700	102%	13800	16200	12500

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		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
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	70	91	106	110%	121	142	96
	APR-SEP	79	103	120	115%	137	161	104
Clark Canyon Inflow[2]								
	APR-JUL	46	104	144	110%	184	240	131
	APR-SEP	68	132	176	113%	220	285	156
Beaverhead R at Barretts[2]								
	APR-JUL	56	132	183	109%	235	310	168
	APR-SEP	73	161	220	110%	280	365	200
Ruby R Reservoir Inflow[2]								
	APR-JUL	67	87	100	119%	113	133	84
	APR-SEP	82	105	120	119%	135	158	101
Big Hole R at Wisdom								
	APR-JUL	32	83	118	98%	153	205	121
	APR-SEP	33	88	125	96%	162	215	130
Big Hole R nr Melrose								
	APR-JUL	405	555	660	108%	765	915	610
	APR-SEP	440	605	715	108%	825	990	660
Jefferson R nr Twin Bridges[2]								
	APR-JUL	465	715	885	113%	1060	1310	785

	APR-SEP	500	775	965	110%	1150	1430	880
Boulder R nr Boulder								
	APR-JUL	43	61	73	94%	85	103	78
	APR-SEP	47	66	79	93%	92	111	85
Willow Ck Reservoir Inflow[2]								
	APR-JUL	3.8	10.8	15.6	87%	20	27	17.9
	APR-SEP	4.7	12.2	17.4	87%	23	30	20
Jefferson R nr Three Forks[2]								
	APR-JUL	400	675	860	110%	1050	1320	780
	APR-SEP	450	755	960	112%	1170	1470	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	355	405	440	111%	475	525	395
	APR-SEP	445	510	550	109%	590	655	505
Ennis Reservoir Inflow[2]								
	APR-JUL	600	690	755	111%	820	910	680
	APR-SEP	735	845	920	108%	995	1100	850

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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	330	395	440	100%	485	550	440
	APR-SEP	385	460	510	99%	560	635	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	310	420	495	100%	570	680	495
	APR-SEP	365	485	570	100%	655	775	570

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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	11	14.4	16.7	98%	19	22	17.1
	APR-SEP	13.1	17	19.7	99%	22	26	20
Smith R bl Eagle Ck[2]								
	APR-JUL	65	98	120	90%	142	175	133
	APR-SEP	72	110	136	91%	162	200	149
NF Musselshell R nr Delpine								
	APR-JUL	1.83	3.5	4.6	100%	5.7	7.4	4.6

	APR-SEP	2.2	4.1	5.4	100%	6.7	8.6	5.4
SF Musselshell R ab Martinsdale								
	APR-JUL	13.4	35	50	96%	65	87	52
	APR-SEP	15	38	54	96%	70	93	56
Musselshell R at Harlowton[2]								
	APR-JUL	14.2	52	77	100%	102	140	77
	APR-SEP	14.1	54	81	100%	108	148	81
Musselshell R nr Roundup[2]								
	APR-JUL	39	43	98	99%	153	235	99
	APR-SEP	40	45	101	99%	157	240	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	250	320	370	80%	420	490	460
	APR-SEP	280	355	405	80%	455	530	505
Two Medicine R nr Browning[2]								
	APR-JUL	120	150	170	83%	190	220	205
	APR-SEP	131	161	181	84%	200	230	215
Badger Ck nr Browning								
	APR-JUL	42	62	76	88%	90	110	86
	APR-SEP	47	68	83	87%	98	119	95
Swift Reservoir Inflow[2]								
	APR-JUL	31	44	52	81%	60	73	64
	APR-SEP	39	53	62	81%	71	85	77
Dupuyer Ck nr Valier								
	APR-JUL	5	7.6	12.5	89%	17.4	25	14
	APR-SEP	5.7	8.9	14.3	91%	19.7	28	15.7
Cut Bank Ck nr Browning								
	APR-JUL	40	56	67	87%	78	94	77
	APR-SEP	43	60	72	86%	84	101	84
Marias R nr Shelby[2]								
	APR-JUL	127	245	325	78%	405	525	415
	APR-SEP	140	260	345	78%	430	550	440
Teton R nr Dutton								
	APR-JUL	14.8	18	37	73%	56	84	51
	APR-SEP	17.2	23	43	73%	63	93	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	81	93	101	96%	109	121	105
	APR-SEP	98	110	118	97%	126	138	122
St. Mary R nr Babb[2]								
	APR-JUL	295	340	375	97%	410	455	385
	APR-SEP	350	400	435	97%	470	520	450
St. Mary R at Intl Boundary[2]								
	APR-JUL	320	390	440	101%	490	560	435
	APR-SEP	390	460	510	99%	560	630	515

Milk R at Western Crossing of Intl Bndry, AB								
	MAR-JUL	18.4	32	41	100%	50	64	41
	MAR-SEP	19	33	43	100%	53	67	43
	APR-JUL	14.8	25	32	97%	39	49	33
	APR-SEP	17.1	28	35	97%	42	53	36
Milk R at Eastern Crossing of Intl Bndry								
	MAR-JUL	23	63	90	108%	117	157	83.3
	MAR-SEP	26	68	96	109%	124	166	87.7
	APR-JUL	11	41	61	101%	81	111	60.6
	APR-SEP	18	49	70	101%	91	122	69.2

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		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
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	1440	1900	2210	108%	2520	2980	2050
	APR-SEP	1810	2230	2590	108%	2950	3370	2390
Dearborn R nr Craig								
	APR-JUL	39	65	83	69%	101	127	121
	APR-SEP	43	70	89	71%	108	135	125
Missouri R at Fort Benton[2]								
	APR-JUL	2310	2890	3290	110%	3690	4270	2990
	APR-SEP	2750	3440	3910	110%	4380	5070	3570
Missouri R nr Virgelle[2]								
	APR-JUL	2730	3400	3860	112%	4320	4990	3450
	APR-SEP	3200	3990	4530	112%	5070	5870	4060
Missouri R nr Landusky[2]								
	APR-JUL	2740	3460	3950	107%	4440	5160	3690
	APR-SEP	3220	4060	4640	107%	5220	6060	4350
Missouri R bl Fort Peck Dam[2]								
	APR-JUL	2860	3580	4080	109%	4580	5300	3740
	APR-SEP	3310	4160	4730	109%	5300	6150	4330
Lake Sakakawea Inflow[2]								
	APR-JUL	7210	9110	10400	107%	11700	13600	9740
	APR-SEP	8700	10500	12000	107%	13500	15300	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	580	665	720	122%	775	860	590
	APR-SEP	760	865	940	117%	1010	1120	805
Yellowstone R at Corwin Springs								
	APR-JUL	1610	1810	1950	118%	2090	2290	1650
	APR-SEP	1880	2120	2280	116%	2440	2680	1970
Yellowstone R at Livingston								
	APR-JUL	1820	2060	2220	117%	2380	2620	1900
	APR-SEP	2130	2410	2600	114%	2790	3070	2280
Shields R nr Livingston								
	APR-JUL	62	122	163	112%	205	265	145
	APR-SEP	66	132	177	109%	220	290	162

Boulder R at Big Timber								
	APR-JUL	235	285	315	111%	345	395	285
	APR-SEP	250	305	340	108%	375	430	315
Mystic Lake Inflow[2]								
	APR-JUL	48	54	58	97%	62	68	60
	APR-SEP	62	70	75	97%	80	88	77
Stillwater R nr Absarokee[2]								
	APR-JUL	365	425	470	95%	515	575	495
	APR-SEP	430	505	555	95%	605	680	585
Clarks Fk Yellowstone R nr Belfry								
	APR-JUL	505	570	615	114%	660	725	540
	APR-SEP	560	630	680	114%	730	800	595
Cooney Reservoir Inflow								
Yellowstone R at Billings								
	APR-JUL	3020	3500	3830	109%	4160	4640	3510
	APR-SEP	3400	4100	4480	109%	4860	5560	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	1110	1450	1680	104%	1910	2250	1610
	APR-SEP	1170	1560	1820	103%	2080	2470	1760
Little Bighorn R nr Hardin								
	APR-JUL	40	71	92	72%	113	144	128
	APR-SEP	47	81	104	72%	127	161	144
Tongue R nr Dayton[2]								
	APR-JUL	46	66	80	83%	94	114	96
	APR-SEP	53	75	90	83%	105	127	109
Big Goose Ck nr Sheridan								
	APR-JUL	22	34	42	81%	50	62	52
	APR-SEP	28	41	49	82%	57	70	60
Little Goose Ck nr Bighorn								
	APR-JUL	15	23	28	82%	33	41	34
	APR-SEP	20	28	34	81%	40	48	42
Tongue River Reservoir Inflow[2]								
	APR-JUL	59	126	171	78%	215	285	220
	APR-SEP	67	137	185	74%	235	305	250
Yellowstone R at Miles City[2]								
	APR-JUL	4300	5090	5630	105%	6170	6960	5360
	APR-SEP	4930	5940	6550	105%	7160	8170	6210
Powder R at Moorehead								
	APR-JUL	40	109	156	76%	205	270	205
	APR-SEP	56	127	176	77%	225	295	230
Powder R nr Locate								
	APR-JUL	35	119	176	75%	235	315	235
	APR-SEP	45	136	197	76%	260	350	260
Yellowstone R nr Sidney[2]								
	APR-JUL	4410	5270	5860	107%	6450	7310	5480
	APR-SEP	5110	6050	6750	107%	7450	8390	6280

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