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Streamflow Forecast Summary: March 1, 2010
(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	48	69	84	62%	99	120	136
	APR-SEP	52	76	93	62%	110	134	150
Libby Reservoir Inflow ¹	APR-JUL	3030	3680	3980	71%	4280	4930	5640
	APR-SEP	3590	4340	4680	70%	5020	5770	6640
Fisher R nr Libby	APR-JUL	60	96	121	53%	146	182	230
	APR-SEP	69	106	131	53%	156	193	245
Yaak R nr Troy	APR-JUL	113	189	240	52%	290	365	465
	APR-SEP	125	200	255	52%	310	385	490
Kootenai R at Leona ^{1,2}	APR-JUL	3780	4580	4950	70%	5320	6120	7040
	APR-SEP	4560	5350	5710	70%	6070	6860	8120

- 1) 90% and 10% exceedance probabilities are actually 95% and 5%
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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						
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	915	1070	1170	72%	1270	1420	1620
	APR-SEP	1020	1180	1290	72%	1400	1560	1800
MF Flathead R nr West Glacier	APR-JUL	900	1050	1150	72%	1250	1400	1590
	APR-SEP	995	1150	1260	72%	1370	1530	1740
Sf Flathead R nr Hungry Horse	APR-JUL	680	810	900	72%	990	1120	1250
	APR-SEP	730	865	960	72%	1050	1190	1330
Hungry Horse Reservoir Inflow ^{1,2}	APR-JUL	875	1250	1420	71%	1590	1960	2000
	APR-SEP	925	1330	1510	71%	1690	2090	2120
Flathead R at Columbia Falls ²	APR-JUL	2880	3440	3830	72%	4220	4780	5350
	APR-SEP	3120	3740	4160	71%	4580	5200	5820
Ashley Ck nr Marion ²	MAR	0.1	0.28	0.71	67%	1.14	1.76	1.06
	APR-JUL	0.7	1.39	2.9	40%	4.4	6.6	7.2
	APR-SEP	0.5	0.81	2.4	36%	4	6.3	6.73
Swan R nr Bigfork	APR-JUL	395	445	480	85%	515	565	565
	APR-SEP	450	510	550	85%	590	650	645
Flathead Lake Inflow ^{1,2}	APR-JUL	2880	3900	4360	71%	4820	5840	6180
	APR-SEP	3080	4210	4720	70%	5230	6360	6700
Mill Ck ab Bassoo ck nr Niarada	MAR-JUL	0.45	0.89	1.86	40%	2.8	4.2	4.6
	APR-JUL	0.4	0.73	1.64	40%	2.6	3.9	4.1
	APR-SEP	0.4	0.8	1.75	40%	2.7	4.1	4.4
South Crow Ck nr Ronan	APR-JUL	5.8	7.5	8.6	85%	9.7	11.4	10.1
	APR-SEP	6.8	8.6	9.8	85%	11	12.8	11.5

Mission Ck nr St. Ignatius	APR-JUL	16.5	19.2	21	84%	23	26	25
	APR-SEP	19.3	23	25	83%	27	31	30
SF Jocko R nr Arlee	APR-JUL	13.2	20	25	83%	30	37	30
	APR-SEP	15.7	23	28	82%	33	40	34
NF Jocko R bl Tabor Feeder Canal	APR-JUL	19.7	23	25	81%	27	30	31
	APR-SEP	22	25	27	82%	29	32	33

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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								
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	18	41	56	74%	71	94	76
	APR-SEP	22	46	62	74%	78	102	84
Flint Ck nr Southern Cross	APR-JUL	2.6	6.3	8.9	65%	11.5	15.2	13.7
	APR-SEP	1.77	7	10.6	65%	14.2	19.4	16.2
Flint Ck bl Boulder Ck	APR-JUL	11.4	26	36	64%	46	61	56
	APR-SEP	15.2	33	45	63%	57	75	71
Lower Willow Ck Reservoir Inflow ²	APR-MAY	0.09	2.5	4.2	51%	5.9	8.3	8.2
	APR-JUL	1.5	3.5	6.2	50%	8.9	12.9	12.5
	APR-SEP	1.6	4	6.9	51%	9.8	14	13.5
MF Rock Ck nr Philipsburg	APR-JUL	22	31	38	59%	45	54	64
	APR-SEP	24	35	42	58%	49	60	72
Rock Ck nr Clinton	APR-JUL	71	126	163	60%	200	255	270
	APR-SEP	85	143	183	60%	225	280	305
Clark Fork R ab Milltown	APR-JUL	84	235	340	56%	445	595	605
	APR-SEP	116	285	400	57%	515	685	705
Nevada Ck nr Helmville	APR-MAY	1	3	5.2	50%	7.4	10.6	10.3
	APR-JUL	1.7	4.9	8.7	50%	12.5	18	17.3
Blackfoot R nr Bonner	APR-JUL	270	385	465	58%	545	660	805
	APR-SEP	305	430	515	58%	600	725	890
Clark Fork R ab Missoula	APR-JUL	350	620	805	57%	990	1260	1410
	APR-SEP	420	715	915	57%	1110	1410	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	15.9	44	63	44%	82	110	143
	APR-SEP	15.9	48	69	44%	90	122	157
Bitterroot R Nr Darby								

Como Reservoir Inflow ²	APR-JUL	102	184	240	52%	295	380	460
	APR-SEP	134	215	270	52%	325	405	515
Bitterroot R nr Missoula	APR-JUL	30	38	44	56%	50	58	78
	APR-SEP	31	40	46	56%	52	61	82
	APR-JUL	355	530	650	52%	770	945	1250
	APR-SEP	390	580	710	52%	840	1030	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	705	1120	1400	53%	1680	2100	2660
	APR-SEP	790	1250	1560	53%	1870	2330	2960
Clark Fork R at St. Regis ¹	APR-JUL	805	1540	1880	53%	2220	2960	3520
	APR-SEP	915	1730	2100	54%	2470	3280	3910
Clark Fork R nr Plains ^{1,2}	APR-JUL	3750	5570	6400	63%	7230	9050	10100
	APR-SEP	4020	6090	7030	63%	7970	10000	11100
Thompson nr Thompson Falls	APR-JUL	20	57	82	40%	107	144	205
	APR-SEP	25	65	92	40%	119	159	230
Prospect Ck at Thompson Falls	APR-JUL	18	35	46	40%	57	74	116
	APR-SEP	22	38	50	40%	62	78	124
Clark Fork R at Whitehorse Rapids ^{1,2}	APR-JUL	4210	6320	7280	64%	8240	10400	11300
	APR-SEP	4610	6940	8000	64%	9060	11400	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	19.2	34	48	50%	62	82	96
	APR-SEP	19.6	33	49	47%	65	90	104
Clark Canyon Inflow ²	APR-JUL	14.8	25	37	28%	71	122	131
	APR-SEP	17.6	29	44	28%	82	137	156
Beaverhead R at Barretts ²	APR-JUL	25	41	63	38%	113	186	168
	APR-SEP	30	49	76	38%	134	220	200
Ruby R Reservoir Inflow ²	APR-JUL	26	43	55	65%	67	84	84
	APR-SEP	34	54	67	66%	80	100	101
Big Hole R at Wisdom	APR-JUL	17.6	28	44	36%	74	118	121
	APR-SEP	19.2	30	48	37%	81	129	130
Big Hole R nr Melrose	APR-JUL	155	275	360	59%	445	565	610

Jefferson R nr Twin Bridges ²	APR-SEP	173	310	400	61%	490	625	660
	APR-JUL	158	245	395	50%	545	770	785
Boulder R nr Boulder	APR-SEP	172	260	430	49%	600	850	880
	APR-JUL	22	39	50	64%	61	78	78
Willow Ck Reservoir Inflow ²	APR-SEP	24	42	54	64%	66	84	85
	APR-JUL	5.2	8.7	12.9	72%	17.1	23	17.9
Jefferson R nr Three Forks ²	APR-SEP	5.7	9.9	14.3	72%	18.7	25	20
	APR-JUL	170	255	425	54%	595	850	780
	APR-SEP	180	260	450	52%	640	920	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	199	240	265	67%	290	330	395
	APR-SEP	270	320	350	69%	380	430	505
Ennis Reservoir Inflow ²	APR-JUL	330	415	470	69%	525	610	680
	APR-SEP	435	535	600	71%	665	765	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	235	295	335	76%	375	435	440
	APR-SEP	280	350	395	77%	440	510	515
Hyalite Reservoir Inflow ²	APR-JUL	14.4	16.6	18.1	82%	19.6	22	22
	APR-SEP	16.1	18.4	20	80%	22	24	25
Gallatin R at Logan	APR-JUL	158	260	330	67%	400	500	495
	APR-SEP	194	310	390	68%	470	585	570

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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

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	8.5	11.9	14.2	83%	16.5	19.9	17.1
	APR-SEP	10.3	14.3	17	85%	19.7	24	20
Smith R bl Eagle Ck ²	APR-JUL	42	75	98	74%	121	154	133

NF Musselshell R nr Delpine	APR-SEP	45	84	111	74%	138	177	149
	APR-JUL	1.9	3.1	3.9	85%	4.7	5.9	4.6
SF Musselshell R ab Martinsdale	APR-SEP	2.4	3.7	4.6	85%	5.5	6.8	5.4
	APR-JUL	18.2	34	44	85%	54	70	52
Musselshell R at Harlowton ²	APR-SEP	20	37	48	86%	59	76	56
	APR-JUL	25	40	63	82%	86	121	77
Musselshell R nr Roundup ²	APR-SEP	26	40	65	80%	90	127	81
	APR-JUL	29	45	74	75%	119	185	99
	APR-SEP	30	46	75	74%	120	186	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	166	230	270	59%	310	375	460
	APR-SEP	194	260	305	60%	350	415	505
Two Medicine R nr Browning ²	APR-JUL	88	114	131	64%	148	174	205
	APR-SEP	96	123	141	66%	159	186	215
Badger Ck nr Browning	APR-JUL	31	46	57	66%	68	83	86
	APR-SEP	34	51	63	66%	75	92	95
Swift Reservoir Inflow ²	APR-JUL	26	38	46	72%	54	66	64
	APR-SEP	34	47	56	73%	65	78	77
Dupuyer Ck nr Valier	APR-JUL	3.1	4.8	7.7	55%	12.6	19.8	14
	APR-SEP	3.6	5.5	9	57%	14.4	22	15.7
Cut Bank Ck nr Browning	APR-JUL	29	43	53	69%	63	77	77
	APR-SEP	31	47	57	68%	67	83	84
Marias R nr Shelby ²	APR-JUL	90	153	225	54%	295	405	415
	APR-SEP	94	157	235	53%	315	425	440
Teton R nr Dutton	APR-JUL	7.6	13.2	19.1	37%	38	66	51
	APR-SEP	9.2	15.4	23	39%	44	74	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	67	76	82	78%	88	97	105
	APR-SEP	79	89	96	79%	103	113	122
St. Mary R nr Babb ²	APR-JUL	235	275	300	78%	325	365	385
	APR-SEP	280	320	350	78%	380	420	450

St. Mary R at Intl Boundary²

APR-JUL	240	300	340	78%	380	440	435
APR-SEP	295	360	400	78%	440	505	515
Milk R at Western Crossing of Intl Bndry, AB							
MAR-JUL	8.3	16.2	29	71%	38	51	41
MAR-SEP	8.5	17.2	31	72%	41	56	43
APR-JUL	5.3	11.9	22	67%	29	40	33
APR-SEP	5.4	12.6	24	67%	32	45	36
Milk R at Eastern Crossing of Intl Bndry							
MAR-JUL	17	33	61	73%	79	107	83.3
MAR-SEP	17.4	36	66	75%	86	117	87.7
APR-JUL	9.1	21	41	68%	55	75	60.6
APR-SEP	10.4	25	48	69%	64	89	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	510	910	1190	58%	1470	1840	2050
	APR-SEP	600	1050	1380	58%	1710	2160	2390
Dearborn R nr Craig								
	APR-JUL	25	43	63	52%	83	111	121
	APR-SEP	26	44	65	52%	86	116	125
Missouri R at Fort Benton ²								
	APR-JUL	900	1480	1880	63%	2280	2860	2990
	APR-SEP	1060	1780	2250	63%	2720	3430	3570
Missouri R nr Virgelle ²								
	APR-JUL	910	1580	2040	59%	2500	3170	3450
	APR-SEP	1040	1850	2390	59%	2930	3740	4060
Missouri R nr Landusky ²								
	APR-JUL	850	1610	2100	57%	2590	3310	3690
	APR-SEP	1020	1890	2470	57%	3050	3910	4350
Missouri R bl Fort Peck Dam ²								
	APR-JUL	905	1630	2130	57%	2660	3400	3740
	APR-SEP	1040	1910	2480	57%	3050	3920	4330
Lake Sakakawea Inflow ²								
	APR-JUL	2070	3970	5260	54%	6550	8450	9740
	APR-SEP	2360	4570	6050	54%	7530	9730	11200

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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	230	300	345	58%	390	460	590
	APR-SEP	300	390	450	56%	510	600	805
Yellowstone R at Corwin Springs								
	APR-JUL	795	975	1100	67%	1220	1410	1650
	APR-SEP	920	1140	1290	65%	1440	1660	1970
Yellowstone R at Livingston								
	APR-JUL	860	1090	1250	66%	1410	1640	1900
	APR-SEP	1020	1290	1480	65%	1670	1940	2280

Shields R nr Livingston	APR-JUL	31	76	107	74%	138	183	145
	APR-SEP	32	83	117	72%	151	200	162
Boulder R at Big Timber	APR-JUL	136	180	210	74%	240	285	285
	APR-SEP	140	190	225	71%	260	310	315
Mystic Lake Inflow ²	APR-JUL	36	41	45	75%	49	54	60
	APR-SEP	45	52	57	74%	62	69	77
Stillwater R nr Absarokee ²	APR-JUL	220	280	325	66%	370	430	495
	APR-SEP	260	335	385	66%	435	510	585
Clarks Fk Yellowstone R nr Belfry	APR-JUL	250	310	350	65%	390	450	540
	APR-SEP	265	330	375	63%	420	485	595
Cooney Reservoir Inflow								
Yellowstone R at Billings	APR-JUL	1260	1860	2180	62%	2500	3090	3510
	APR-SEP	1470	2170	2550	62%	2930	3630	4120

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

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	255	385	640	40%	895	1270	1610
	APR-SEP	265	385	670	38%	955	1380	1760
Little Bighorn R nr Hardin	APR-JUL	24	42	61	48%	80	108	128
	APR-SEP	28	49	70	49%	91	122	144
Tongue R nr Dayton ²	APR-JUL	41	59	72	75%	85	103	96
	APR-SEP	48	68	82	75%	96	116	109
Big Goose Ck nr Sheridan	APR-JUL	12.5	24	32	62%	40	51	52
	APR-SEP	18.1	30	38	63%	46	58	60
Little Goose Ck nr Bighorn	APR-JUL	10	17.1	22	65%	27	34	34
	APR-SEP	13.9	22	27	64%	32	40	42
Tongue River Reservoir Inflow ²	APR-JUL	53	89	133	60%	177	245	220
	APR-SEP	58	99	146	58%	193	260	250
Yellowstone R at Miles City ²	APR-JUL	1480	2360	2890	54%	3460	4340	5360
	APR-SEP	1750	2710	3370	54%	4030	5000	6210
Powder R at Moorehead	APR-JUL	39	52	98	48%	144	210	205
	APR-SEP	44	63	111	48%	159	230	230
Powder R nr Locate	APR-JUL	43	54	109	46%	164	245	235
	APR-SEP	48	61	120	46%	179	265	260
Yellowstone R nr Sidney ²	APR-JUL	1320	2090	2740	50%	3450	4160	5480
	APR-SEP	1500	2370	3150	50%	3930	4800	6280

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