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Streamflow Forecast Summary: January 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	79	105	123	90%	141	167	136
	APR-SEP	89	117	136	91%	155	183	150
Libby Reservoir Inflow ¹	APR-JUL	3840	4610	4960	88%	5310	6080	5640
	APR-SEP	4500	5400	5810	88%	6220	7120	6640
Fisher R nr Libby	APR-JUL	72	130	169	73%	210	265	230
	APR-SEP	80	139	180	73%	220	280	245
Yaak R nr Troy	APR-JUL	240	320	375	81%	430	510	465
	APR-SEP	250	335	390	80%	445	530	490
Kootenai R at Leona ^{1,2}	APR-JUL	4640	5660	6120	87%	6580	7600	7040
	APR-SEP	5320	6510	7050	87%	7590	8780	8120

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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	1090	1290	1430	88%	1570	1770	1620
	APR-SEP	1240	1450	1590	88%	1730	1940	1800
MF Flathead R nr West Glacier	APR-JUL	1030	1220	1350	85%	1480	1670	1590
	APR-SEP	1150	1350	1480	85%	1610	1810	1740
Sf Flathead R nr Hungry Horse	APR-JUL	725	890	1000	80%	1110	1270	1250
	APR-SEP	785	950	1060	80%	1170	1330	1330
Hungry Horse Reservoir Inflow ^{1,2}	APR-JUL	1200	1520	1660	83%	1800	2120	2000
	APR-SEP	1310	1630	1770	83%	1910	2230	2120
Flathead R at Columbia Falls ²	APR-JUL	3580	4160	4550	85%	4940	5520	5350
	APR-SEP	3980	4560	4950	85%	5340	5920	5820
Ashley Ck nr Marion ²	MAR	0.04	0.07	0.5	47%	0.93	1.57	1.06
	APR-JUL	1	2.1	3.8	53%	5.5	8.1	7.2
	APR-SEP	0.1	1.58	3.3	49%	5	7.5	6.73
Swan R nr Bigfork	APR-JUL	275	355	410	73%	465	545	565
	APR-SEP	350	430	490	76%	550	630	645
Flathead Lake Inflow ^{1,2}	APR-JUL	4730	5090	5250	85%	5410	5770	6180
	APR-SEP	5140	5530	5700	85%	5870	6260	6700
Mill Ck ab Bassoo ck nr Niarada	APR-JUL	0.8	2.1	3	73%	3.9	5.2	4.11
	APR-SEP	1.07	2.4	3.3	74%	4.2	5.5	4.45
South Crow Ck nr Ronan	APR-JUL	6.7	8	8.9	88%	9.8	11.1	10.1
	APR-SEP	7.6	9.1	10.1	88%	11.1	12.6	11.5

Mission Ck nr St. Ignatius	APR-JUL	18	20	22	87%	24	26	25.3
	APR-SEP	21	24	26	86%	28	31	30.2
SF Jocko R nr Arlee	APR-JUL	13.4	21	26	86%	31	39	30.2
	APR-SEP	16	24	29	85%	34	42	34
NF Jocko R bl Tabor Feeder Canal	APR-JUL	19.8	25	28	90%	31	36	31
	APR-SEP	21	26	29	88%	32	37	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	19.3	44	61	80%	78	103	76
	APR-SEP	23	49	67	80%	85	111	84
Flint Ck nr Southern Cross	APR-JUL	3.2	7	9.6	70%	12.2	16	13.7
	APR-SEP	2	7.4	11.1	69%	14.8	20	16.2
Flint Ck bl Boulder Ck	APR-JUL	17.2	33	43	77%	53	69	56
	APR-SEP	24	43	55	77%	67	86	71
Lower Willow Ck Reservoir Inflow ²	APR-MAY	0.9	3.6	5.4	66%	7.2	9.9	8.2
	APR-JUL	-0.03	4.7	7.9	63%	11.1	15.8	12.5
MF Rock Ck nr Philipsburg	APR-JUL	23	34	42	66%	50	61	64
	APR-SEP	29	41	49	68%	57	69	72
Rock Ck nr Clinton	APR-JUL	97	161	205	76%	250	315	270
	APR-SEP	115	183	230	75%	275	345	305
Clark Fork R ab Milltown	APR-JUL	300	390	455	75%	520	610	605
	APR-SEP	360	460	530	75%	600	700	705
Nevada Ck nr Helmville	APR-MAY	2.5	5.2	7	68%	8.8	11.5	10.3
	APR-JUL	4.2	8.8	12	69%	15.2	19.8	17.3
Blackfoot R nr Bonner	APR-JUL	320	500	620	77%	740	920	805
	APR-SEP	375	565	690	78%	815	1000	890
Clark Fork R ab Missoula	APR-JUL	770	950	1070	76%	1190	1370	1410
	APR-SEP	900	1090	1220	76%	1350	1540	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	39	75	100	70%	125	161	143
	APR-SEP	45	84	110	70%	136	175	157
Bitterroot R Nr Darby	APR-JUL	155	260	330	72%	400	505	460

Como Reservoir Inflow ²	APR-SEP	199	300	370	72%	440	540	515
	APR-JUL	35	47	55	71%	63	75	78
Bitterroot R nr Missoula	APR-SEP	38	50	58	71%	66	78	82
	APR-JUL	375	635	810	65%	985	1240	1250
	APR-SEP	445	710	895	65%	1080	1350	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	1740	1860	1940	73%	2020	2140	2660
	APR-SEP	1940	2060	2150	73%	2240	2360	2960
Clark Fork R at St. Regis ¹	APR-JUL	2380	2530	2600	74%	2670	2820	3520
	APR-SEP	2650	2810	2880	74%	2950	3110	3910
Clark Fork R nr Plains ^{1,2}	APR-JUL	7620	7870	7980	79%	8090	8340	10100
	APR-SEP	8330	8600	8730	79%	8860	9130	11100
Thompson nr Thompson Falls	APR-JUL	58	103	134	65%	165	210	205
	APR-SEP	74	122	155	67%	188	235	230
Prospect Ck at Thompson Falls	APR-JUL	39	63	79	68%	95	119	116
	APR-SEP	46	70	87	70%	104	128	124
Clark Fork R at Whitehorse Rapids ^{1,2}	APR-JUL	7920	8450	8690	77%	8930	9460	11300
	APR-SEP	8680	9280	9550	76%	9820	10400	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	12	33	48	50%	63	84	96
	APR-SEP	9.4	31	48	46%	65	89	104
Clark Canyon Inflow ²	APR-JUL	11.2	19.6	37	28%	77	135	131
	APR-SEP	19.2	32	48	31%	92	156	156
Beaverhead R at Barretts ²	APR-JUL	15.2	25	63	38%	114	190	168
	APR-SEP	32	52	81	41%	140	230	200
Ruby R Reservoir Inflow ²	APR-JUL	12.8	33	46	55%	59	79	84
	APR-SEP	18.2	41	56	55%	71	94	101
Big Hole R at Wisdom	APR-JUL	24	36	60	50%	95	146	121
	APR-SEP	26	40	65	50%	102	157	130
Big Hole R nr Melrose	APR-JUL	128	215	320	52%	425	575	610
	APR-SEP	142	245	355	54%	465	630	660

Jefferson R nr Twin Bridges ²	APR-JUL	186	295	465	59%	635	885	785
	APR-SEP	205	320	510	58%	700	975	880
Boulder R nr Boulder	APR-JUL	28	46	58	74%	70	88	78
	APR-SEP	31	50	63	74%	76	95	85
Willow Ck Reservoir Inflow ²	APR-JUL	4.1	11.1	15.9	89%	21	28	17.9
	APR-SEP	5.1	12.6	17.8	89%	23	31	20
Jefferson R nr Three Forks ²	APR-JUL	210	345	530	68%	715	990	780
	APR-SEP	230	375	580	67%	785	1090	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	194	245	280	71%	315	365	395
	APR-SEP	260	325	365	72%	405	470	505
Ennis Reservoir Inflow ²	APR-JUL	305	395	460	68%	525	615	680
	APR-SEP	405	515	590	69%	665	775	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	215	280	325	74%	370	435	440
	APR-SEP	255	330	380	74%	430	505	515
Hyalite Reservoir Inflow ²	APR-JUL	14.2	16.6	18.3	83%	20	22	22
	APR-SEP	16.7	19.2	21	84%	23	25	25
Gallatin R at Logan	APR-JUL	205	315	390	79%	465	575	495
	APR-SEP	240	360	445	78%	530	650	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	9.4	12.8	15.1	88%	17.4	21	17.1
	APR-SEP	10.7	14.6	17.3	87%	20	24	20
Smith R bl Eagle Ck ²	APR-JUL	41	74	96	72%	118	151	133
	APR-SEP	43	81	107	72%	133	171	149

NF Musselshell R nr Delpine	APR-JUL	1.4	2.6	3.7	80%	4.8	6.5	4.6
	APR-SEP	1.7	3	4.3	80%	5.6	7.5	5.4
SF Musselshell R ab Martinsdale	APR-JUL	14.8	22	37	71%	52	74	52
	APR-SEP	16.4	25	41	73%	57	80	56
Musselshell R at Harlowton ²	APR-JUL	23	33	58	75%	83	121	77
	APR-SEP	23	32	59	73%	86	126	81
Musselshell R nr Roundup ²	APR-JUL	26	43	65	66%	120	200	99
	APR-SEP	25	41	64	63%	120	200	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	200	270	320	70%	370	440	460
	APR-SEP	235	310	360	71%	410	485	505
Two Medicine R nr Browning ²	APR-JUL	106	136	156	76%	176	205	205
	APR-SEP	117	147	167	78%	187	215	215
Badger Ck nr Browning	APR-JUL	32	52	66	77%	80	100	86
	APR-SEP	37	58	73	77%	88	109	95
Swift Reservoir Inflow ²	APR-JUL	31	44	52	81%	60	73	64
	APR-SEP	40	54	63	82%	72	86	77
Dupuyer Ck nr Valier	APR-JUL	3.1	4.8	7.9	56%	12.8	20	14
	APR-SEP	3.7	5.7	9.3	59%	14.7	23	15.7
Cut Bank Ck nr Browning	APR-JUL	31	47	58	75%	69	85	77
	APR-SEP	33	50	62	74%	74	91	84
Marias R nr Shelby ²	APR-JUL	112	200	280	67%	360	480	415
	APR-SEP	112	197	280	64%	365	485	440
Teton R nr Dutton	APR-JUL	8.8	14.8	22	43%	41	69	51
	APR-SEP	10.8	17.6	27	46%	47	77	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	72	84	92	88%	100	112	105
	APR-SEP	88	100	108	89%	116	128	122
St. Mary R nr Babb ²	APR-JUL	255	300	335	87%	370	415	385
	APR-SEP	310	360	395	88%	430	480	450
St. Mary R at Intl Boundary ²								

Milk R at Western Crossing of Intl Bndry, AB	APR-JUL	265	335	385	89%	435	505	435
	APR-SEP	335	405	455	88%	505	575	515
	MAR-JUL	8.4	14.9	30	73%	41	57	41
	MAR-SEP	8.6	15.8	33	77%	44	62	43
Milk R at Eastern Crossing of Intl Bndry	APR-JUL	9.2	16	23	70%	30	40	33
	APR-SEP	10.4	18.7	26	72%	33	44	36
	MAR-JUL	17.1	31	63	76%	85	119	83.3
	MAR-SEP	17.5	33	68	78%	93	130	87.7
	APR-JUL	15.2	23	38	63%	58	88	60.6
	APR-SEP	18	26	45	65%	66	97	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	740	1080	1390	68%	1700	2070	2050
	APR-SEP	850	1270	1630	68%	1990	2410	2390
Dearborn R nr Craig	APR-JUL	26	52	70	58%	88	114	121
	APR-SEP	31	58	77	62%	96	123	125
Missouri R at Fort Benton ²	APR-JUL	1170	1750	2150	72%	2550	3110	2990
	APR-SEP	1390	2090	2560	72%	3030	3720	3570
Missouri R nr Virgelle ²	APR-JUL	1420	2090	2550	74%	3010	3680	3450
	APR-SEP	1670	2460	3000	74%	3540	4330	4060
Missouri R nr Landusky ²	APR-JUL	1410	2130	2620	71%	3110	3800	3690
	APR-SEP	1670	2490	3070	71%	3650	4490	4350
Missouri R bl Fort Peck Dam ²	APR-JUL	1460	2160	2660	71%	3160	3880	3740
	APR-SEP	1670	2520	3090	71%	3660	4500	4330
Lake Sakakawea Inflow ²	APR-JUL	3240	5140	6430	66%	7720	9550	9740
	APR-SEP	3670	5870	7350	66%	8830	11000	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	240	325	380	64%	435	520	590
	APR-SEP	315	420	495	61%	570	675	805
Yellowstone R at Corwin Springs	APR-JUL	815	1020	1160	70%	1300	1500	1650
	APR-SEP	955	1200	1360	69%	1520	1760	1970
Yellowstone R at Livingston	APR-JUL	920	1160	1320	69%	1480	1720	1900
	APR-SEP	1090	1370	1560	68%	1750	2030	2280
Shields R nr Livingston								

Boulder R at Big Timber	APR-JUL	45	73	114	79%	155	215	145
	APR-SEP	49	79	124	77%	169	235	162
Mystic Lake Inflow ²	APR-JUL	146	193	225	79%	255	305	285
	APR-SEP	151	205	240	76%	275	330	315
Stillwater R nr Absarokee ²	APR-JUL	39	45	49	82%	53	59	60
	APR-SEP	49	57	62	81%	67	75	77
Clarks Fk Yellowstone R nr Belfry	APR-JUL	250	310	355	72%	400	460	495
	APR-SEP	295	370	420	72%	470	545	585
Cooney Reservoir Inflow	APR-JUL	265	330	375	69%	420	485	540
	APR-SEP	280	350	400	67%	450	520	595
Yellowstone R at Billings	APR-JUL	1440	2020	2350	67%	2680	3260	3510
	APR-SEP	1690	2390	2770	67%	3150	3850	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	500	690	920	57%	1150	1340	1610
	APR-SEP	540	740	1000	57%	1260	1460	1760
Little Bighorn R nr Hardin	APR-JUL	23	37	58	45%	79	110	128
	APR-SEP	30	52	75	52%	98	132	144
Tongue R nr Dayton ²	APR-JUL	34	54	68	71%	82	102	96
	APR-SEP	42	64	79	72%	94	116	109
Big Goose Ck nr Sheridan	APR-JUL	16.9	29	37	71%	45	57	52
	APR-SEP	24	37	45	75%	53	66	60
Little Goose Ck nr Bighorn	APR-JUL	13	21	26	76%	31	39	34
	APR-SEP	20	28	34	81%	40	48	42
Tongue River Reservoir Inflow ²	APR-JUL	30	97	142	65%	187	255	220
	APR-SEP	46	116	164	66%	210	280	250
Yellowstone R at Miles City ²	APR-JUL	1980	2840	3380	63%	3920	4770	5360
	APR-SEP	2310	3320	3930	63%	4540	5550	6210
Powder R at Moorehead	APR-JUL	41	57	104	51%	151	220	205
	APR-SEP	49	74	123	53%	172	245	230
Powder R nr Locate	APR-JUL	46	59	116	49%	173	255	235
	APR-SEP	54	74	135	52%	196	285	260
Yellowstone R nr Sidney ²	APR-JUL	1840	2700	3290	60%	3880	4710	5480
	APR-SEP	2130	3080	3780	60%	4480	5420	6280

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