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Streamflow Forecast Summary: January 1, 2013
(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	98	121	137	109%	153	176	126
	APR-SEP	108	134	151	108%	168	194	140
Libby Reservoir Inflow ¹								
Fisher R nr Libby	APR-JUL	136	189	225	110%	260	315	205
	APR-SEP	148	205	240	109%	275	330	220
Yaak R nr Troy	APR-JUL	400	495	555	132%	615	710	420
	APR-SEP	425	515	580	132%	645	735	440
Kootenai R at Leona ^{1,2}	APR-JUL	5190	6250	6730	102%	7210	8270	6600
	APR-SEP	6210	7280	7770	102%	8260	9330	7590

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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	1370	1590	1730	112%	1870	2090	1540
	APR-SEP	1530	1760	1910	112%	2060	2290	1700
MF Flathead R nr West Glacier	APR-JUL	1380	1600	1750	117%	1900	2120	1500
	APR-SEP	1510	1740	1900	117%	2060	2290	1630
Sf Flathead R nr Hungry Horse	APR-JUL	970	1160	1280	108%	1400	1590	1180
	APR-SEP	1040	1230	1360	108%	1490	1680	1260
Hungry Horse Reservoir Inflow ^{1,2}	APR-JUL	1470	1870	2050	110%	2230	2630	1860
	APR-SEP	1570	1980	2170	110%	2360	2770	1980
Flathead R at Columbia Falls ²	APR-JUL	4530	5220	5680	113%	6140	6830	5020
	APR-SEP	4960	5670	6150	113%	6630	7340	5450
Ashley Ck nr Marion ²								
Swan R nr Bigfork								
Flathead Lake Inflow ^{1,2}	APR-JUL	4820	6030	6580	113%	7130	8340	5810
	APR-SEP	5240	6520	7100	113%	7680	8960	6270
Mill Ck ab Bassoo ck nr Niarada	APR-JUL	1.77	3.1	4	100%	4.9	6.2	4
	APR-SEP	2.1	3.5	4.4	100%	5.3	6.7	4.4
South Crow Ck nr Ronan								
Mission Ck nr St. Ignatius								
SF Jocko R nr Arlee								
NF Jocko R bl Tabor Feeder Canal								

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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								
Flint Ck nr Southern Cross								
Flint Ck bl Boulder Ck								
Lower Willow Ck Reservoir Inflow ²								
MF Rock Ck nr Philipsburg								
Rock Ck nr Clinton								
Clark Fork R ab Milltown								
Nevada Ck nr Helmville								
Blackfoot R nr Bonner								
Clark Fork R ab Missoula								

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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								
Bitterroot R Nr Darby								
Como Reservoir Inflow ²								
Bitterroot R nr Missoula								

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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								
Clark Fork R at St. Regis ¹								
	APR-JUL	1820	2790	3230	102%	3670	4640	3160
	APR-SEP	2100	3120	3580	102%	4040	5060	3510

Clark Fork R nr Plains^{1,2}

APR-JUL	7190	9190	10100	110%	11000	13000	9200
APR-SEP	8040	10100	11100	110%	12100	14200	10100

Thompson nr Thompson Falls

Prospect Ck at Thompson Falls

Clark Fork R at Whitehorse Rapids^{1,2}

APR-JUL	8110	10400	11400	109%	12400	14700	10500
APR-SEP	9140	11500	12600	110%	13700	16100	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	51	72	87	106%	102	123	82
	APR-SEP	55	79	96	108%	113	137	89
Clark Canyon Inflow ²	APR-JUL	9.6	68	108	107%	148	205	101
	APR-SEP	18.7	83	127	106%	171	235	120
Beaverhead R at Barretts ²	APR-JUL	13.4	89	140	109%	191	265	129
	APR-SEP	21	109	168	108%	225	315	156
Ruby R Reservoir Inflow ²	APR-JUL	33	53	66	86%	79	99	77
	APR-SEP	40	63	78	86%	93	116	91
Big Hole R at Wisdom	APR-JUL	18.8	70	105	103%	140	191	102
	APR-SEP	19.4	74	111	103%	148	205	108
Big Hole R nr Melrose	APR-JUL	220	370	475	92%	580	730	515
	APR-SEP	235	400	510	91%	620	785	560
Jefferson R nr Twin Bridges ²	APR-JUL	184	435	605	88%	775	1030	690
	APR-SEP	184	460	650	89%	840	1120	730
Boulder R nr Boulder	APR-JUL	28	46	58	84%	70	88	69
	APR-SEP	30	49	62	84%	75	94	74
Willow Ck Reservoir Inflow ²	APR-JUL	2.3	9.3	14.1	84%	18.9	26	16.8
	APR-SEP	3.3	10.8	16	83%	21	29	19.3
Jefferson R nr Three Forks ²	APR-JUL	180	455	640	86%	825	1100	740
	APR-SEP	180	485	690	86%	895	1200	800

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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	310	360	395	107%	430	480	370
	APR-SEP	395	460	500	106%	540	605	470

Ennis Reservoir Inflow²

APR-JUL	485	575	640	102%	705	795	625
APR-SEP	610	720	795	103%	870	980	775

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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	280	345	390	98%	435	500	400
	APR-SEP	330	405	455	97%	505	580	470
Hyalite Reservoir Inflow ²	APR-JUL	14.5	16.9	18.6	93%	20	23	20
	APR-SEP	16.7	19.2	21	91%	23	25	23
Gallatin R at Logan	APR-JUL	235	345	420	95%	495	605	440
	APR-SEP	280	400	485	96%	570	690	505

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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	10.6	14	16.3	105%	18.6	22	15.5
	APR-SEP	12.7	16.6	19.3	105%	22	26	18.4
Smith R bl Eagle Ck ²	APR-JUL	55	88	110	104%	132	165	106
	APR-SEP	58	96	122	105%	148	186	116
NF Musselshell R nr Delpine	APR-JUL	0.93	2.6	3.7	109%	4.8	6.5	3.4
	APR-SEP	1.21	3.1	4.4	110%	5.7	7.6	4
SF Musselshell R ab Martinsdale	APR-JUL	5	14.2	29	83%	44	66	35
	APR-SEP	5	16.2	32	84%	48	71	38
Musselshell R at Harlowton ²	APR-JUL	0	35	60	105%	85	123	57
	APR-SEP	0	36	63	107%	90	130	59
Musselshell R nr Roundup ²	APR-JUL	-20	13.6	69	103%	124	205	67
	APR-SEP	-20	14.1	70	106%	126	210	66

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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	270	340	390	99%	440	510	395
	APR-SEP	305	380	430	98%	480	555	440

Two Medicine R nr Browning ²	APR-JUL	132	162	182	99%	200	230	183
	APR-SEP	144	174	194	100%	215	245	194
Badger Ck nr Browning	APR-JUL	55	75	89	101%	103	123	88
	APR-SEP	67	88	103	100%	118	139	103
Swift Reservoir Inflow ²	APR-JUL	32	44	53	93%	62	74	57
	APR-SEP	40	54	63	94%	72	86	67
Dupuyer Ck nr Valier	APR-JUL	1.6	5.4	10.3	93%	15.2	22	11.1
	APR-SEP	1.8	6.1	11.5	91%	16.9	25	12.7
Cut Bank Ck nr Browning	APR-JUL	44	60	71	103%	82	98	69
	APR-SEP	47	64	76	101%	88	105	75
Marias R nr Shelby ²	APR-JUL	167	285	365	106%	445	565	345
	APR-SEP	170	290	375	104%	460	580	360
Teton R nr Dutton	APR-JUL	5	19	38	90%	57	85	42
	APR-SEP	5	24	44	92%	64	94	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	77	89	97	100%	105	117	97
	APR-SEP	94	106	114	102%	122	134	112
St. Mary R nr Babb ²	APR-JUL	305	350	385	104%	420	465	370
	APR-SEP	365	415	450	106%	485	535	425
St. Mary R at Intl Boundary ²	APR-JUL	335	405	455	105%	505	575	435
	APR-SEP	410	480	530	105%	580	650	505
Milk R at Western Crossing of Intl Bndry, AB								
Milk R at Eastern Crossing of Intl Bndry								

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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	965	1420	1730	97%	2040	2500	1790
	APR-SEP	1110	1640	2000	97%	2360	2890	2070
Dearborn R nr Craig	APR-JUL	41	67	85	96%	103	129	89
	APR-SEP	46	73	92	97%	111	138	95
Missouri R at Fort Benton ²	APR-JUL	1530	2120	2520	97%	2920	3510	2610
	APR-SEP	1830	2530	3000	96%	3470	4170	3110

Missouri R nr Virgelle ²	APR-JUL	1790	2450	2900	97%	3350	4010	3000
	APR-SEP	2070	2850	3380	96%	3910	4690	3520
Missouri R nr Landusky ²	APR-JUL	1920	2610	3080	97%	3550	4240	3160
	APR-SEP	2240	3050	3600	97%	4150	4960	3720
Missouri R bl Fort Peck Dam ²	APR-JUL	1980	2680	3160	98%	3640	4340	3240
	APR-SEP	2040	2950	3570	96%	4190	5100	3700
Lake Sakakawea Inflow ²	APR-JUL	5470	7080	8180	98%	9280	10900	8310
	APR-SEP	5810	7820	9190	98%	10600	12600	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	460	545	600	104%	655	740	575
	APR-SEP	605	710	785	102%	860	965	770
Yellowstone R at Corwin Springs	APR-JUL	1340	1540	1680	106%	1820	2020	1590
	APR-SEP	1570	1810	1970	105%	2130	2370	1880
Yellowstone R at Livingston	APR-JUL	1520	1760	1920	107%	2080	2320	1800
	APR-SEP	1780	2060	2250	105%	2440	2720	2140
Shields R nr Livingston	APR-JUL	4.1	64	105	81%	146	205	129
	APR-SEP	5	71	116	81%	161	225	143
Boulder R at Big Timber	APR-JUL	200	250	280	100%	310	360	280
	APR-SEP	215	270	305	102%	340	395	300
Mystic Lake Inflow ²	APR-JUL	46	52	56	95%	60	66	59
	APR-SEP	59	67	72	97%	77	85	74
Stillwater R nr Absarokee ²	APR-JUL	325	385	430	97%	475	535	445
	APR-SEP	380	455	505	97%	555	630	520
Clarks Fk Yellowstone R nr Belfry	APR-JUL	405	470	515	101%	560	625	510
	APR-SEP	440	510	560	102%	610	680	550
Cooney Reservoir Inflow								
Yellowstone R at Billings	APR-JUL	2560	3040	3370	104%	3700	4180	3230
	APR-SEP	2900	3470	3860	103%	4250	4820	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	755	1100	1330	96%	1560	1900	1380

Little Bighorn R nr Hardin	APR-SEP	760	1150	1410	97%	1670	2060	1460
	APR-JUL	1.77	33	54	55%	75	106	98
	APR-SEP	8.5	42	65	59%	88	122	111
Tongue R nr Dayton ²	APR-JUL	31	51	65	76%	79	99	86
	APR-SEP	37	59	74	76%	89	111	98
Big Goose Ck nr Sheridan	APR-JUL	10.9	23	31	67%	39	51	46
	APR-SEP	17.5	30	38	70%	46	59	54
Little Goose Ck nr Bighorn	APR-JUL	10	17.8	23	74%	28	36	31
	APR-SEP	16.1	24	30	77%	36	44	39
Tongue River Reservoir Inflow ²	APR-JUL	11.8	79	124	64%	169	235	193
	APR-SEP	22	92	140	65%	188	260	215
Yellowstone R at Miles City ²	APR-JUL	3310	4160	4740	99%	5320	6170	4780
	APR-SEP	3700	4700	5380	99%	6060	7060	5450
Powder R at Moorehead	APR-JUL	32	101	148	84%	195	265	177
	APR-SEP	50	121	170	87%	220	290	196
Powder R nr Locate	APR-JUL	26	110	167	84%	225	310	199
	APR-SEP	38	129	190	86%	250	340	220
Yellowstone R nr Sidney ²	APR-JUL	3140	4110	4770	99%	5430	6400	4830
	APR-SEP	3410	4550	5330	98%	6110	7250	5430

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