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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								
	APR-JUL	7.1	11	13.7	110%	16.3	20	12.4
	APR-SEP	8.1	12.9	16.1	110%	19.4	24	14.6
Flint Ck bl Boulder Ck								
	APR-JUL	31	46	56	108%	66	81	52
	APR-SEP	40	58	70	106%	82	100	66
Lower Willow Ck Reservoir Inflow ²								
	APR-JUL	3	6.7	9.2	88%	11.8	15.5	10.5
	APR-SEP	3.7	7.5	10.1	89%	12.7	16.5	11.3
MF Rock Ck nr Philipsburg								
	APR-JUL	43	54	61	105%	68	79	58
	APR-SEP	49	60	68	105%	76	87	65
Rock Ck nr Clinton								
	APR-JUL	162	215	255	102%	290	345	250
	APR-SEP	188	245	290	104%	330	390	280
Clark Fork R ab Milltown								
	APR-JUL	310	465	565	107%	670	825	530
	APR-SEP	375	545	660	107%	775	950	615
Nevada Ck nr Helmville								
	APR-JUL	4.4	10.5	14.7	104%	18.9	25	14.2
	APR-SEP	5.2	11.7	16.1	103%	21	27	15.6
Blackfoot R nr Bonner								
	APR-JUL	565	715	815	113%	915	1070	720
	APR-SEP	635	790	900	113%	1010	1160	800
Clark Fork R ab Missoula								
	APR-JUL	880	1180	1380	110%	1580	1880	1250
	APR-SEP	1020	1340	1560	110%	1780	2100	1420

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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	91	119	137	107%	156	183	128
	APR-SEP	101	129	149	107%	168	196	139
Bitterroot R Nr Darby								
	APR-JUL	340	420	480	109%	535	620	440
	APR-SEP	365	450	510	107%	570	655	475
Como Reservoir Inflow ²								
	APR-JUL	70	77	82	108%	87	95	76
	APR-SEP	72	80	85	108%	91	98	79
Bitterroot R nr Missoula								
	APR-JUL	880	1060	1180	103%	1310	1490	1150
	APR-SEP	960	1160	1290	103%	1420	1610	1250

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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	APR-JUL	1790	2250	2560	107%	2870	3330	2400
	APR-SEP	2020	2510	2850	107%	3190	3680	2670
Clark Fork R at St. Regis ¹	APR-JUL	2140	2980	3360	106%	3740	4580	3160
	APR-SEP	2420	3330	3740	107%	4150	5050	3510
Clark Fork R nr Plains ^{1,2}	APR-JUL	7440	9440	10300	112%	11300	13300	9200
	APR-SEP	8130	10300	11300	112%	12300	14500	10100
Thompson nr Tompson Falls								
Prospect Ck at Thompson Falls	APR-JUL	61	81	94	92%	107	127	102
	APR-SEP	68	88	102	93%	115	136	110
Clark Fork R at Whitehorse Rapids ^{1,2}								

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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	37	57	71	95%	85	105	75
	APR-SEP	39	62	77	96%	92	115	80
Clark Canyon Inflow ²	APR-JUL	39	73	96	95%	119	153	101
	APR-SEP	45	85	112	93%	139	179	120
Beaverhead R at Barretts ²	APR-JUL	53	94	122	95%	149	190	129
	APR-SEP	67	113	144	92%	175	220	156
Ruby R Reservoir Inflow ²	APR-JUL	62	78	88	114%	98	114	77
	APR-SEP	74	91	103	113%	115	132	91
Big Hole R at Wisdom	APR-JUL	26	72	103	101%	134	180	102
	APR-SEP	27	76	109	101%	142	191	108
Big Hole R nr Melrose	APR-JUL	325	450	540	105%	630	755	515
	APR-SEP	345	485	580	104%	675	815	560
Jefferson R nr Twin Bridges ²	APR-JUL	270	500	660	96%	815	1040	690
	APR-SEP	300	540	710	97%	875	1120	730
Boulder R nr Boulder	APR-JUL	43	62	76	110%	90	109	69
	APR-SEP	46	67	82	111%	97	118	74
Willow Ck Reservoir Inflow ²	APR-JUL	6.7	13.3	17.8	106%	22	29	16.8
Jefferson R nr Three Forks ²	APR-JUL	365	590	740	100%	890	1110	740
	APR-SEP	375	625	795	99%	965	1210	800

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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	260	305	335	91%	365	410	370
	APR-SEP	340	395	430	91%	465	520	470
Ennis Reservoir Inflow ²	APR-JUL	415	500	560	90%	620	705	625
	APR-SEP	530	635	705	91%	775	880	775

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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	340	400	440	110%	480	540	400
	APR-SEP	395	465	510	109%	555	625	470
Hyalite Reservoir Inflow ²	APR-JUL	21	23	25	125%	27	29	20
	APR-SEP	25	27	29	126%	31	33	23
Gallatin R at Logan	APR-JUL	295	400	475	108%	550	655	440
	APR-SEP	340	460	540	107%	620	740	505

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

SMITH-JUDITH-MUSSELHELL	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Sheep Ck nr White Sulphur Springs	APR-JUL	12.7	16.1	18.4	119%	21	24	15.5
	APR-SEP	15.3	19.3	22	120%	25	29	18.4
Smith R bl Eagle Ck ²	APR-JUL	61	94	117	110%	140	173	106
	APR-SEP	62	101	128	110%	155	194	116
NF Musselshell R nr Delpine	APR-JUL	17.2	35	48	137%	60	78	35
	APR-SEP	22	43	58	153%	72	93	38
Musselshell R at Harlowton ²	APR-JUL	18.2	59	87	153%	114	155	57
	APR-SEP	17.7	61	90	153%	120	163	59
Musselshell R nr Roundup ²	APR-JUL	4.7	71	116	173%	161	225	67
	APR-SEP	6.3	72	117	177%	162	230	66

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	APR-JUL	845	1250	1520	110%	1790	2200	1380
	APR-SEP	845	1290	1590	109%	1890	2340	1460
Little Bighorn R nr Hardin								
	APR-JUL	59	94	117	119%	140	175	98
	APR-SEP	67	105	131	118%	157	195	111
Tongue R nr Dayton ²								
	APR-JUL	67	85	97	113%	110	128	86
	APR-SEP	77	97	111	113%	124	144	98
Big Goose Ck nr Sheridan								
	APR-JUL	27	39	48	104%	56	69	46
	APR-SEP	34	47	56	104%	65	78	54
Little Goose Ck nr Bighorn								
	APR-JUL	19.1	27	32	103%	38	46	31
	APR-SEP	26	35	40	103%	46	55	39
Tongue River Reservoir Inflow ²								
	APR-JUL	111	176	220	114%	265	330	193
	APR-SEP	130	198	245	114%	290	360	215
Yellowstone R at Miles City ²								
	APR-JUL	3760	4740	5410	113%	6080	7060	4780
	APR-SEP	4160	5320	6100	112%	6890	8050	5450
Powder R at Moorehead								
	APR-JUL	80	166	225	127%	285	370	177
	APR-SEP	96	185	245	125%	305	395	196
Powder R nr Locate								
	APR-JUL	93	188	255	128%	315	410	199
	APR-SEP	107	205	275	125%	345	445	220
Yellowstone R nr Sidney ²								
	APR-JUL	3740	4830	5560	115%	6300	7390	4830
	APR-SEP	4030	5310	6190	114%	7070	8360	5430

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