

Report Created:  
5/5/2023 2:48:34 PM

**Streamflow Forecast Summary: May 1, 2023**  
**(Medians based On 1991-2020 reference period)**

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

<b>Flathead</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Sf Flathead R nr Hungry Horse								
	MAY-JUL	680	785	860	86%	935	1040	1000
	MAY-SEP	720	840	920	86%	1000	1120	1070
NF Flathead R nr Columbia Falls								
	MAY-JUL	760	895	985	71%	1080	1210	1390
	MAY-SEP	860	1010	1110	72%	1210	1360	1540
Swan R nr Bigfork								
	MAY-JUL	340	390	425	98%	460	510	435
	MAY-SEP	395	450	490	97%	530	585	505
Mission Ck nr St. Ignatius								
	MAY-JUL	21	25	27	108%	29	33	25
	MAY-SEP	25	29	32	107%	35	39	30
MF Flathead R nr West Glacier								
	MAY-JUL	830	960	1050	80%	1140	1270	1310
	MAY-SEP	910	1060	1160	79%	1260	1410	1470
SF Jocko R nr Arlee								
	MAY-JUL	26	31	35	106%	39	44	33
	MAY-SEP	30	35	39	105%	43	48	37
Mill Ck ab Bassoo ck nr Niarada								
	MAY-JUL	2	2.7	3.2	100%	3.8	4.6	3.2
	MAY-SEP	2.3	3	3.5	97%	4.1	5	3.6
Hungry Horse Reservoir Inflow <sup>1,2</sup>								
	MAY-JUL	1040	1250	1350	88%	1450	1660	1530
	MAY-SEP	1080	1320	1430	86%	1540	1780	1660
South Crow Ck nr Ronan								
	MAY-JUL	7.9	9.5	10.6	109%	11.7	13.3	9.7
	MAY-SEP	9	10.9	12.1	111%	13.3	15.2	10.9
Flathead R at Columbia Falls <sup>2</sup>								
	MAY-JUL	2700	3100	3370	77%	3640	4040	4370
	MAY-SEP	2960	3410	3720	76%	4030	4480	4900
Flathead Lake Inflow <sup>1,2</sup>								
	MAY-JUL	3030	3750	4080	81%	4410	5130	5040
	MAY-SEP	3230	4080	4470	79%	4860	5710	5680

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

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

<b>Bitterroot</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Bitterroot R Nr Darby <sup>2</sup>								
	MAY-JUL	240	305	350	91%	390	460	385
	MAY-SEP	260	330	375	90%	425	495	415
WF Bitterroot R Nr Conner <sup>2</sup>								
	MAY-JUL	63	87	103	96%	120	144	107
	MAY-SEP	71	96	113	96%	130	155	118
Bitterroot R nr Missoula								
	MAY-JUL	640	780	880	85%	975	1120	1030
	MAY-SEP	720	870	970	85%	1070	1220	1140

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

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

<b>Lower Clark Fork</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Clark Fork R at St. Regis <sup>1</sup>	MAY-JUL	1930	2520	2790	101%	3050	3640	2760
	MAY-SEP	2210	2840	3130	102%	3410	4040	3080
Clark Fork R bl Cabinet Gorge Dam <sup>2</sup>	MAY-JUL	6300	7130	7700	91%	8260	9100	8430
	MAY-SEP	6890	7860	8520	90%	9190	10200	9490
Prospect Ck at Thompson Falls	MAY-JUL	29	40	48	68%	56	68	71
	MAY-SEP	42	50	55	70%	60	68	79
Clark Fork R bl Missoula	MAY-JUL	1590	1930	2160	103%	2390	2730	2100
	MAY-SEP	1810	2170	2420	103%	2670	3030	2360
Clark Fork R ab Missoula	MAY-JUL	915	1140	1280	122%	1430	1650	1050
	MAY-SEP	1050	1290	1450	118%	1610	1850	1230
Clark Fork R nr Plains <sup>1,2</sup>	MAY-JUL	5410	6510	7010	91%	7510	8610	7680
	MAY-SEP	5930	7210	7790	90%	8370	9650	8660

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

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

<b>Upper Clark Fork</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Rock Ck nr Clinton	MAY-JUL	156	200	235	112%	265	310	210
	MAY-SEP	183	230	265	110%	300	350	240
Blackfoot R nr Bonner	MAY-JUL	525	630	700	120%	770	875	585
	MAY-SEP	585	695	770	117%	845	955	660
Nevada Ck nr Helmville	MAY-JUL	7.8	12.8	16.1	134%	19.4	24	12
	MAY-SEP	8.8	14.1	17.6	132%	21	26	13.3
Flint Ck bl Boulder Ck	MAY-JUL	35	46	54	117%	62	74	46
	MAY-SEP	46	60	69	113%	78	92	61
Georgetown Lake Inflow <sup>2</sup>	MAY-JUL	9.5	12.5	14.6	136%	16.6	19.6	10.7
	MAY-SEP	11.5	15.1	17.6	138%	20	24	12.8
Clark Fk at Goldcreek	MAY-JUL	154	210	245	160%	285	340	153
	MAY-SEP	185	245	285	164%	330	390	174
Clark Fork R ab Milltown	MAY-JUL	375	500	585	131%	675	800	445
	MAY-SEP	445	585	680	125%	775	910	545
MF Rock Ck nr Philipsburg	MAY-JUL	46	55	62	119%	69	79	52
	MAY-SEP	52	62	69	119%	77	87	58

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

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

<b>Kootenai</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Tobacco R nr Eureka								
	MAY-JUL	39	55	65	60%	76	92	108
	MAY-SEP	45	63	76	61%	88	107	124
Libby Reservoir Inflow <sup>1,2</sup>								
	MAY-JUL	3150	3870	4200	83%	4530	5250	5050
	MAY-SEP	3650	4440	4800	82%	5160	5950	5840
Yaak R nr Troy								
	MAY-JUL	163	215	250	83%	285	335	300
	MAY-SEP	175	230	265	83%	305	355	320

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

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

<b>Lower Yellowstone</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Yellowstone R nr Sidney <sup>2</sup>								
	MAY-JUL	3810	4550	5050	112%	5550	6290	4490
	MAY-SEP	4200	5050	5630	111%	6210	7060	5060
Yellowstone R at Miles City <sup>2</sup>								
	MAY-JUL	3870	4530	4980	109%	5430	6090	4570
	MAY-SEP	4340	5110	5630	108%	6150	6920	5220

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

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

<b>Powder</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Powder R nr Locate								
	MAY-JUL	61	137	189	103%	240	315	184
	MAY-SEP	71	151	205	103%	260	340	199
NF Powder R nr Hazelton								
	MAY-JUL	6.2	8.1	9.4	98%	10.7	12.6	9.6
	MAY-SEP	6.7	8.7	10.1	96%	11.5	13.5	10.5
MF Powder R nr Barnum								
	MAY-JUL	7.8	11.6	14.2	105%	16.8	21	13.5
	MAY-SEP	8.5	12.4	15.1	105%	17.8	22	14.4
Powder R at Moorhead								
	MAY-JUL	58	129	177	110%	225	295	161
	MAY-SEP	72	144	193	112%	240	315	173
Piney Ck at Kearny								
	MAY-JUL	23	37	46	100%	55	69	46
	MAY-SEP	23	37	47	98%	57	71	48
Rock Ck nr Buffalo								
	MAY-JUL	11.7	16.7	20	100%	23	28	20
	MAY-SEP	15.4	21	24	96%	27	33	25

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

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

<b>Tongue</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Little Goose Ck nr Big Horn								
	MAY-JUL	20	26	30	100%	34	40	30
	MAY-SEP	28	34	39	98%	44	50	40
Tongue R nr Dayton <sup>2</sup>								
	MAY-JUL	61	75	85	102%	95	109	83
	MAY-SEP	71	87	98	102%	109	125	96
Big Goose Ck nr Sheridan								
	MAY-JUL	32	42	48	96%	54	64	50
	MAY-SEP	41	50	57	97%	64	73	59
Tongue River Reservoir Inflow <sup>2</sup>								
	MAY-JUL	113	161	194	97%	225	275	200
	MAY-SEP	134	185	220	98%	255	305	225

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

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

<b>Bighorn</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Buffalo Bill Reservoir Inflow <sup>2</sup>								
	MAY-JUL	480	565	625	101%	685	770	620
	MAY-SEP	530	620	685	101%	750	840	680
Wind R at Riverton <sup>2</sup>								
	MAY-JUL	350	415	460	99%	505	570	465
	MAY-SEP	410	480	530	100%	580	650	530
Dinwoody Ck nr Burris								
	MAY-JUL	55	61	66	94%	71	77	70
	MAY-SEP	81	88	93	98%	98	105	95
Little Popo Agie R nr Lander								
	MAY-JUL	46	53	58	145%	63	70	40
	MAY-SEP	52	59	64	139%	69	76	46
Boysen Reservoir Inflow <sup>2</sup>								
	MAY-JUL	495	635	735	108%	835	975	680
	MAY-SEP	550	695	795	110%	895	1040	725
Little Bighorn R nr Hardin								
	MAY-JUL	51	76	94	104%	112	137	90
	MAY-SEP	60	89	109	101%	129	158	108
Shell Ck nr Shell								
	MAY-JUL	33	43	49	88%	55	65	56
	MAY-SEP	43	53	60	88%	67	77	68
Bighorn R at Kane <sup>2</sup>								
	MAY-JUL	565	810	980	106%	1150	1400	925
	MAY-SEP	620	875	1050	110%	1220	1480	955
Wind R Ab Bull Lake Ck <sup>2</sup>								
	MAY-JUL	340	405	445	99%	485	550	450
	MAY-SEP	355	425	470	107%	515	585	440
Bighorn R nr St. Xavier <sup>2</sup>								
	MAY-JUL	925	1240	1460	99%	1680	2000	1480
	MAY-SEP	965	1310	1540	96%	1770	2110	1610

Greybull R at Meeteetse	MAY-JUL	93	125	146	107%	167	199	137
	MAY-SEP	135	171	195	103%	220	255	190
SF Shoshone R nr Valley	MAY-JUL	154	181	200	95%	220	245	210
	MAY-SEP	178	210	230	92%	250	280	250
NF Shoshone R at Wapiti	MAY-JUL	345	400	435	102%	470	525	425
	MAY-SEP	385	445	485	100%	525	585	485
Bull Lake Ck nr Lenore <sup>2</sup>	MAY-JUL	124	139	150	111%	161	176	135
	MAY-SEP	150	168	180	110%	192	210	163
Little Wind R nr Riverton	MAY-JUL	270	335	375	144%	420	480	260
	MAY-SEP	300	365	410	146%	455	520	280
SF Shoshone R ab Buffalo Bill Reservoir	MAY-JUL	129	164	188	90%	210	245	210
	MAY-SEP	130	167	193	92%	220	255	210

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

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

Upper Yellowstone	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Yellowstone R at Billings <sup>2</sup>	MAY-JUL	2660	3070	3340	114%	3610	4020	2930
	MAY-SEP	3000	3480	3810	108%	4140	4620	3530
Yellowstone R at Yellowstone Lake Outlet	MAY-JUL	520	580	625	113%	665	725	555
	MAY-SEP	695	775	825	111%	880	960	740
Yellowstone R at Livingston	MAY-JUL	1590	1770	1890	106%	2010	2180	1780
	MAY-SEP	1870	2080	2220	108%	2360	2570	2060
Shields R nr Livingston	MAY-JUL	70	102	123	121%	145	176	102
	MAY-SEP	78	112	134	116%	157	190	116
Cooney Reservoir Inflow	MAY-JUL	20	30	36	109%	42	51	33
	MAY-SEP	29	39	46	105%	53	63	44
Boulder R at Big Timber	MAY-JUL	240	275	305	113%	330	365	270
	MAY-SEP	255	295	325	110%	355	395	295
Clarks Fk Yellowstone R nr Belfry	MAY-JUL	450	505	540	106%	580	630	510
	MAY-SEP	485	545	585	109%	625	685	535
Mystic Lake Inflow <sup>2</sup>	MAY-JUL	51	56	59	104%	62	67	57
	MAY-SEP	65	71	75	101%	79	85	74
Stillwater R nr Absarokee <sup>2</sup>	MAY-JUL	345	405	445	107%	485	540	415
	MAY-SEP	400	470	520	102%	565	635	510
Yellowstone R at Corwin Springs	MAY-JUL	1390	1540	1640	107%	1740	1880	1530
	MAY-SEP	1640	1820	1930	108%	2050	2220	1780

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

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

<b>Sun-Teton-Marias</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Marias R nr Shelby <sup>2</sup>	MAY-JUL	139	225	285	100%	345	430	285
	MAY-SEP	132	225	290	100%	355	450	290
Badger Ck nr Browning	MAY-JUL	39	55	66	108%	77	93	61
	MAY-SEP	44	62	74	100%	86	104	74
Teton R nr Dutton <sup>2</sup>	MAY-JUL	6.9	16.3	25	100%	36	54	25
	MAY-SEP	7.8	18.3	28	108%	40	61	26
Gibson Reservoir Inflow <sup>2</sup>	MAY-JUL	260	300	325	97%	350	390	335
	MAY-SEP	285	330	360	96%	390	435	375
Two Medicine R bl SF nr Browning <sup>2</sup>	MAY-JUL	93	122	141	93%	160	189	152
	MAY-SEP	101	130	150	93%	170	199	161
Swift Reservoir Inflow	MAY-JUL	29	38	45	107%	52	61	42
	MAY-SEP	35	46	54	108%	62	73	50
Dupuyer Ck nr Valier	MAY-JUL	2.1	6	8.6	115%	11.2	15.1	7.5
	MAY-SEP	2.5	6.6	9.4	125%	12.2	16.3	7.5

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

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

<b>Smith-Judith-Musselshell</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Smith R bl Eagle Ck <sup>2</sup>	MAY-JUL	54	81	100	125%	119	146	80
	MAY-SEP	60	91	111	128%	131	162	87
Musselshell R at Harlowton <sup>2</sup>	MAY-JUL	2.7	31	50	100%	69	97	50
	MAY-SEP	1.55	32	52	106%	72	102	49
Musselshell R nr Roundup <sup>2</sup>	MAY-JUL	1	23	60	130%	97	151	46
	MAY-SEP	1	21	59	140%	98	155	42

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

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

<b>Missouri Mainstem</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Missouri R nr Virgelle <sup>2</sup>	MAY-JUL	1830	2450	2870	113%	3300	3920	2530
	MAY-SEP	2340	3070	3560	120%	4060	4790	2970
Missouri R bl Fort Peck Dam <sup>2</sup>	MAY-JUL	1730	2550	3100	120%	3650	4470	2580

Lake Sakakawea Inflow <sup>2</sup>	MAY-SEP	2010	3010	3690	130%	4370	5370	2840
	MAY-JUL	5860	7420	8490	108%	9550	11100	7830
Missouri R nr Landusky <sup>2</sup>	MAY-SEP	6630	8480	9730	110%	11000	12800	8830
	MAY-JUL	1910	2600	3080	119%	3550	4250	2590
Missouri R at Fort Benton <sup>2</sup>	MAY-SEP	2450	3270	3830	125%	4390	5200	3070
	MAY-JUL	1630	2180	2560	119%	2940	3490	2160
	MAY-SEP	2150	2800	3240	125%	3680	4330	2600

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

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

<b>Helena Valley</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Missouri R at Toston <sup>2</sup>	MAY-JUL	1170	1520	1760	116%	2000	2350	1520
	MAY-SEP	1530	1910	2170	128%	2430	2810	1700

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

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

<b>Gallatin</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Hyalite Reservoir Inflow <sup>2</sup>	MAY-JUL	16.9	19.2	21	113%	22	25	18.6
	MAY-SEP	19.3	22	24	114%	26	28	21
Gallatin R at Logan	MAY-JUL	280	350	405	111%	455	530	365
	MAY-SEP	320	405	460	111%	515	600	415
Gallatin R nr Gallatin Gateway	MAY-JUL	345	385	410	111%	440	480	370
	MAY-SEP	400	450	480	112%	515	565	430

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

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

<b>Madison</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Ennis Lake Inflow <sup>2</sup>	MAY-JUL	565	635	680	132%	725	795	515
	MAY-SEP	715	800	855	131%	910	995	655
Hebgen Lake Inflow <sup>2</sup>	MAY-JUL	305	350	380	133%	410	455	285
	MAY-SEP	400	455	490	127%	525	580	385

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

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

<b>Jefferson</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Willow Ck Reservoir Inflow <sup>2</sup>	MAY-JUL	9	13.9	17.2	126%	21	25	13.7
Big Hole R at Wisdom	MAY-JUL	15.4	47	68	101%	89	121	67
	MAY-SEP	18	51	74	99%	97	130	75
Lima Reservoir Inflow <sup>2</sup>	MAY-JUL	49	64	74	185%	84	99	40
	MAY-SEP	57	73	84	168%	95	111	50
Boulder R nr Boulder	MAY-JUL	59	76	87	153%	98	115	57
	MAY-SEP	62	81	93	155%	105	124	60
Jefferson R nr Three Forks <sup>2</sup>	MAY-JUL	410	585	705	131%	825	1000	540
	MAY-SEP	525	710	835	149%	960	1150	560
Big Hole R nr Melrose	MAY-JUL	330	420	485	117%	550	640	415
	MAY-SEP	355	455	525	113%	595	695	465
Jefferson R nr Twin Bridges <sup>2</sup>	MAY-JUL	290	465	580	135%	695	870	430
	MAY-SEP	310	495	620	138%	745	930	450
Beaverhead R at Barretts <sup>2</sup>	MAY-JUL	44	73	93	172%	113	142	54
	MAY-SEP	60	93	115	172%	137	170	67
Clark Canyon Inflow <sup>2</sup>	MAY-JUL	26	51	68	213%	85	110	32
	MAY-SEP	36	64	83	224%	102	130	37
Ruby R Reservoir Inflow	MAY-JUL	63	76	85	142%	94	107	60
	MAY-SEP	76	91	102	138%	112	127	74

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

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

<b>St. Marys</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
St. Mary R at Intl Boundary <sup>2</sup>	MAY-JUL	245	305	350	84%	390	455	415
	MAY-SEP	280	350	400	85%	450	520	470
Lake Sherburne Inflow <sup>2</sup>	MAY-JUL	55	66	74	82%	82	93	90
	MAY-SEP	66	79	87	83%	95	108	105
St. Mary R nr Babb <sup>2</sup>	MAY-JUL	225	270	300	83%	330	375	360
	MAY-SEP	265	315	350	85%	385	435	410

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



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

Eastern Montana	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Marias R nr Shelby <sup>2</sup>	MAY-JUL	139	225	285	100%	345	430	285
	MAY-SEP	132	225	290	100%	355	450	290
Badger Ck nr Browning	MAY-JUL	39	55	66	108%	77	93	61
	MAY-SEP	44	62	74	100%	86	104	74
Teton R nr Dutton <sup>2</sup>	MAY-JUL	6.9	16.3	25	100%	36	54	25
	MAY-SEP	7.8	18.3	28	108%	40	61	26
Gibson Reservoir Inflow <sup>2</sup>	MAY-JUL	260	300	325	97%	350	390	335
	MAY-SEP	285	330	360	96%	390	435	375
Smith R bl Eagle Ck <sup>2</sup>	MAY-JUL	54	81	100	125%	119	146	80
	MAY-SEP	60	91	111	128%	131	162	87
Missouri R nr Virgelle <sup>2</sup>	MAY-JUL	1830	2450	2870	113%	3300	3920	2530
	MAY-SEP	2340	3070	3560	120%	4060	4790	2970
Two Medicine R bl SF nr Browning <sup>2</sup>	MAY-JUL	93	122	141	93%	160	189	152
	MAY-SEP	101	130	150	93%	170	199	161
Swift Reservoir Inflow	MAY-JUL	29	38	45	107%	52	61	42
	MAY-SEP	35	46	54	108%	62	73	50
Musselshell R at Harlowton <sup>2</sup>	MAY-JUL	2.7	31	50	100%	69	97	50
	MAY-SEP	1.55	32	52	106%	72	102	49
Missouri R bl Fort Peck Dam <sup>2</sup>	MAY-JUL	1730	2550	3100	120%	3650	4470	2580
	MAY-SEP	2010	3010	3690	130%	4370	5370	2840
Lake Sakakawea Inflow <sup>2</sup>	MAY-JUL	5860	7420	8490	108%	9550	11100	7830
	MAY-SEP	6630	8480	9730	110%	11000	12800	8830
Missouri R nr Landusky <sup>2</sup>	MAY-JUL	1910	2600	3080	119%	3550	4250	2590
	MAY-SEP	2450	3270	3830	125%	4390	5200	3070
Missouri R at Toston <sup>2</sup>	MAY-JUL	1170	1520	1760	116%	2000	2350	1520
	MAY-SEP	1530	1910	2170	128%	2430	2810	1700
Musselshell R nr Roundup <sup>2</sup>	MAY-JUL	1	23	60	130%	97	151	46
	MAY-SEP	1	21	59	140%	98	155	42
Dupuyer Ck nr Valier	MAY-JUL	2.1	6	8.6	115%	11.2	15.1	7.5
	MAY-SEP	2.5	6.6	9.4	125%	12.2	16.3	7.5
Missouri R at Fort Benton <sup>2</sup>	MAY-JUL	1630	2180	2560	119%	2940	3490	2160
	MAY-SEP	2150	2800	3240	125%	3680	4330	2600

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

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

MTDCO	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Badger Ck nr Browning	MAY-JUL	39	55	66	108%	77	93	61
	MAY-SEP	44	62	74	100%	86	104	74
Swift Reservoir Inflow	MAY-JUL	29	38	45	107%	52	61	42
	MAY-SEP	35	46	54	108%	62	73	50
Gibson Reservoir Inflow <sup>2</sup>	MAY-JUL	260	300	325	97%	350	390	335
	MAY-SEP	285	330	360	96%	390	435	375
Tongue River Reservoir Inflow <sup>2</sup>	MAY-JUL	113	161	194	97%	225	275	200
	MAY-SEP	134	185	220	98%	255	305	225
Musselshell R at Harlowton <sup>2</sup>	MAY-JUL	2.7	31	50	100%	69	97	50
	MAY-SEP	1.55	32	52	106%	72	102	49
Greybull R at Meeteetse	MAY-JUL	93	125	146	107%	167	199	137
	MAY-SEP	135	171	195	103%	220	255	190
Little Wind R nr Riverton	MAY-JUL	270	335	375	144%	420	480	260
	MAY-SEP	300	365	410	146%	455	520	280
Clark Fork R ab Milltown	MAY-JUL	375	500	585	131%	675	800	445
	MAY-SEP	445	585	680	125%	775	910	545
NF Powder R nr Hazelton	MAY-JUL	6.2	8.1	9.4	98%	10.7	12.6	9.6
	MAY-SEP	6.7	8.7	10.1	96%	11.5	13.5	10.5
St. Mary R at Intl Boundary <sup>2</sup>	MAY-JUL	245	305	350	84%	390	455	415
	MAY-SEP	280	350	400	85%	450	520	470
Georgetown Lake Inflow <sup>2</sup>	MAY-JUL	9.5	12.5	14.6	136%	16.6	19.6	10.7
	MAY-SEP	11.5	15.1	17.6	138%	20	24	12.8
Lake Sakakawea Inflow <sup>2</sup>	MAY-JUL	5860	7420	8490	108%	9550	11100	7830
	MAY-SEP	6630	8480	9730	110%	11000	12800	8830
Mystic Lake Inflow <sup>2</sup>	MAY-JUL	51	56	59	104%	62	67	57
	MAY-SEP	65	71	75	101%	79	85	74
Missouri R at Fort Benton <sup>2</sup>	MAY-JUL	1630	2180	2560	119%	2940	3490	2160
	MAY-SEP	2150	2800	3240	125%	3680	4330	2600
Willow Ck Reservoir Inflow <sup>2</sup>	MAY-JUL	9	13.9	17.2	126%	21	25	13.7
Yellowstone R nr Sidney <sup>2</sup>	MAY-JUL	3810	4550	5050	112%	5550	6290	4490
	MAY-SEP	4200	5050	5630	111%	6210	7060	5060
St. Mary R nr Babb <sup>2</sup>	MAY-JUL	225	270	300	83%	330	375	360
	MAY-SEP	265	315	350	85%	385	435	410
Yellowstone R at Miles City <sup>2</sup>	MAY-JUL	3870	4530	4980	109%	5430	6090	4570
	MAY-SEP	4340	5110	5630	108%	6150	6920	5220
NF Shoshone R at Wapiti	MAY-JUL	345	400	435	102%	470	525	425
	MAY-SEP	385	445	485	100%	525	585	485
Bitterroot R Nr Darby <sup>2</sup>	MAY-JUL	240	305	350	91%	390	460	385
	MAY-SEP	260	330	375	90%	425	495	415

Clark Fork R nr Plains <sup>1,2</sup>								
	MAY-JUL	5410	6510	7010	91%	7510	8610	7680
	MAY-SEP	5930	7210	7790	90%	8370	9650	8660
Flathead Lake Inflow <sup>1,2</sup>								
	MAY-JUL	3030	3750	4080	81%	4410	5130	5040
	MAY-SEP	3230	4080	4470	79%	4860	5710	5680
Lake Sherburne Inflow <sup>2</sup>								
	MAY-JUL	55	66	74	82%	82	93	90
	MAY-SEP	66	79	87	83%	95	108	105
Rock Ck nr Clinton								
	MAY-JUL	156	200	235	112%	265	310	210
	MAY-SEP	183	230	265	110%	300	350	240
NF Flathead R nr Columbia Falls								
	MAY-JUL	760	895	985	71%	1080	1210	1390
	MAY-SEP	860	1010	1110	72%	1210	1360	1540
Blackfoot R nr Bonner								
	MAY-JUL	525	630	700	120%	770	875	585
	MAY-SEP	585	695	770	117%	845	955	660
Yaak R nr Troy								
	MAY-JUL	163	215	250	83%	285	335	300
	MAY-SEP	175	230	265	83%	305	355	320
Bighorn R nr St. Xavier <sup>2</sup>								
	MAY-JUL	925	1240	1460	99%	1680	2000	1480
	MAY-SEP	965	1310	1540	96%	1770	2110	1610
Lima Reservoir Inflow <sup>2</sup>								
	MAY-JUL	49	64	74	185%	84	99	40
	MAY-SEP	57	73	84	168%	95	111	50
Clark Fork R ab Missoula								
	MAY-JUL	915	1140	1280	122%	1430	1650	1050
	MAY-SEP	1050	1290	1450	118%	1610	1850	1230
Gallatin R at Logan								
	MAY-JUL	280	350	405	111%	455	530	365
	MAY-SEP	320	405	460	111%	515	600	415
Swan R nr Bigfork								
	MAY-JUL	340	390	425	98%	460	510	435
	MAY-SEP	395	450	490	97%	530	585	505
Little Popo Agie R nr Lander								
	MAY-JUL	46	53	58	145%	63	70	40
	MAY-SEP	52	59	64	139%	69	76	46
Teton R nr Dutton <sup>2</sup>								
	MAY-JUL	6.9	16.3	25	100%	36	54	25
	MAY-SEP	7.8	18.3	28	108%	40	61	26
Yellowstone R at Livingston								
	MAY-JUL	1590	1770	1890	106%	2010	2180	1780
	MAY-SEP	1870	2080	2220	108%	2360	2570	2060
Missouri R bl Fort Peck Dam <sup>2</sup>								
	MAY-JUL	1730	2550	3100	120%	3650	4470	2580
	MAY-SEP	2010	3010	3690	130%	4370	5370	2840
Bitterroot R nr Missoula								
	MAY-JUL	640	780	880	85%	975	1120	1030
	MAY-SEP	720	870	970	85%	1070	1220	1140
Little Goose Ck nr Big Horn								
	MAY-JUL	20	26	30	100%	34	40	30
	MAY-SEP	28	34	39	98%	44	50	40
Wind R at Riverton <sup>2</sup>								
	MAY-JUL	350	415	460	99%	505	570	465
	MAY-SEP	410	480	530	100%	580	650	530
Powder R nr Locate								
	MAY-JUL	61	137	189	103%	240	315	184
	MAY-SEP	71	151	205	103%	260	340	199
Mission Ck nr St. Ignatius								
	MAY-JUL	21	25	27	108%	29	33	25

Cooney Reservoir Inflow	MAY-SEP	25	29	32	107%	35	39	30
	MAY-JUL	20	30	36	109%	42	51	33
	MAY-SEP	29	39	46	105%	53	63	44
Gallatin R nr Gallatin Gateway	MAY-JUL	345	385	410	111%	440	480	370
	MAY-SEP	400	450	480	112%	515	565	430
Yellowstone R at Corwin Springs	MAY-JUL	1390	1540	1640	107%	1740	1880	1530
	MAY-SEP	1640	1820	1930	108%	2050	2220	1780
Tongue R nr Dayton <sup>2</sup>	MAY-JUL	61	75	85	102%	95	109	83
	MAY-SEP	71	87	98	102%	109	125	96
Ennis Lake Inflow <sup>2</sup>	MAY-JUL	565	635	680	132%	725	795	515
	MAY-SEP	715	800	855	131%	910	995	655
Mill Ck ab Bassoo ck nr Niarada	MAY-JUL	2	2.7	3.2	100%	3.8	4.6	3.2
	MAY-SEP	2.3	3	3.5	97%	4.1	5	3.6
Jefferson R nr Three Forks <sup>2</sup>	MAY-JUL	410	585	705	131%	825	1000	540
	MAY-SEP	525	710	835	149%	960	1150	560
Musselshell R nr Roundup <sup>2</sup>	MAY-JUL	1	23	60	130%	97	151	46
	MAY-SEP	1	21	59	140%	98	155	42
Dupuyer Ck nr Valier	MAY-JUL	2.1	6	8.6	115%	11.2	15.1	7.5
	MAY-SEP	2.5	6.6	9.4	125%	12.2	16.3	7.5
Hyalite Reservoir Inflow <sup>2</sup>	MAY-JUL	16.9	19.2	21	113%	22	25	18.6
	MAY-SEP	19.3	22	24	114%	26	28	21
Ruby R Reservoir Inflow	MAY-JUL	63	76	85	142%	94	107	60
	MAY-SEP	76	91	102	138%	112	127	74
Buffalo Bill Reservoir Inflow <sup>2</sup>	MAY-JUL	480	565	625	101%	685	770	620
	MAY-SEP	530	620	685	101%	750	840	680
WF Bitterroot R Nr Conner <sup>2</sup>	MAY-JUL	63	87	103	96%	120	144	107
	MAY-SEP	71	96	113	96%	130	155	118
Dinwoody Ck nr Burris	MAY-JUL	55	61	66	94%	71	77	70
	MAY-SEP	81	88	93	98%	98	105	95
Big Hole R at Wisdom	MAY-JUL	15.4	47	68	101%	89	121	67
	MAY-SEP	18	51	74	99%	97	130	75
Hungry Horse Reservoir Inflow <sup>1,2</sup>	MAY-JUL	1040	1250	1350	88%	1450	1660	1530
	MAY-SEP	1080	1320	1430	86%	1540	1780	1660
Jefferson R nr Twin Bridges <sup>2</sup>	MAY-JUL	290	465	580	135%	695	870	430
	MAY-SEP	310	495	620	138%	745	930	450
Hebgen Lake Inflow <sup>2</sup>	MAY-JUL	305	350	380	133%	410	455	285
	MAY-SEP	400	455	490	127%	525	580	385
Stillwater R nr Absarokee <sup>2</sup>	MAY-JUL	345	405	445	107%	485	540	415
	MAY-SEP	400	470	520	102%	565	635	510
Clark Canyon Inflow <sup>2</sup>	MAY-JUL	26	51	68	213%	85	110	32
	MAY-SEP	36	64	83	224%	102	130	37

MF Rock Ck nr Philipsburg								
	MAY-JUL	46	55	62	119%	69	79	52
	MAY-SEP	52	62	69	119%	77	87	58
Shell Ck nr Shell								
	MAY-JUL	33	43	49	88%	55	65	56
	MAY-SEP	43	53	60	88%	67	77	68
Big Hole R nr Melrose								
	MAY-JUL	330	420	485	117%	550	640	415
	MAY-SEP	355	455	525	113%	595	695	465
SF Shoshone R ab Buffalo Bill Reservoir								
	MAY-JUL	129	164	188	90%	210	245	210
	MAY-SEP	130	167	193	92%	220	255	210
Yellowstone R at Billings <sup>2</sup>								
	MAY-JUL	2660	3070	3340	114%	3610	4020	2930
	MAY-SEP	3000	3480	3810	108%	4140	4620	3530
Clark Fork R bl Cabinet Gorge Dam <sup>2</sup>								
	MAY-JUL	6300	7130	7700	91%	8260	9100	8430
	MAY-SEP	6890	7860	8520	90%	9190	10200	9490
Clark Fk at Goldcreek								
	MAY-JUL	154	210	245	160%	285	340	153
	MAY-SEP	185	245	285	164%	330	390	174
Tobacco R nr Eureka								
	MAY-JUL	39	55	65	60%	76	92	108
	MAY-SEP	45	63	76	61%	88	107	124
Boulder R at Big Timber								
	MAY-JUL	240	275	305	113%	330	365	270
	MAY-SEP	255	295	325	110%	355	395	295
Missouri R at Toston <sup>2</sup>								
	MAY-JUL	1170	1520	1760	116%	2000	2350	1520
	MAY-SEP	1530	1910	2170	128%	2430	2810	1700
Marias R nr Shelby <sup>2</sup>								
	MAY-JUL	139	225	285	100%	345	430	285
	MAY-SEP	132	225	290	100%	355	450	290
Bighorn R at Kane <sup>2</sup>								
	MAY-JUL	565	810	980	106%	1150	1400	925
	MAY-SEP	620	875	1050	110%	1220	1480	955
SF Shoshone R nr Valley								
	MAY-JUL	154	181	200	95%	220	245	210
	MAY-SEP	178	210	230	92%	250	280	250
Clark Fork R bl Missoula								
	MAY-JUL	1590	1930	2160	103%	2390	2730	2100
	MAY-SEP	1810	2170	2420	103%	2670	3030	2360
Missouri R nr Virgelle <sup>2</sup>								
	MAY-JUL	1830	2450	2870	113%	3300	3920	2530
	MAY-SEP	2340	3070	3560	120%	4060	4790	2970
Shields R nr Livingston								
	MAY-JUL	70	102	123	121%	145	176	102
	MAY-SEP	78	112	134	116%	157	190	116
Rock Ck nr Buffalo								
	MAY-JUL	11.7	16.7	20	100%	23	28	20
	MAY-SEP	15.4	21	24	96%	27	33	25
Clarks Fk Yellowstone R nr Belfry								
	MAY-JUL	450	505	540	106%	580	630	510
	MAY-SEP	485	545	585	109%	625	685	535
Big Goose Ck nr Sheridan								
	MAY-JUL	32	42	48	96%	54	64	50
	MAY-SEP	41	50	57	97%	64	73	59
MF Flathead R nr West Glacier								
	MAY-JUL	830	960	1050	80%	1140	1270	1310
	MAY-SEP	910	1060	1160	79%	1260	1410	1470
Smith R bl Eagle Ck <sup>2</sup>								
	MAY-JUL	54	81	100	125%	119	146	80



MAY-JUL	23	37	46	100%	55	69	46
MAY-SEP	23	37	47	98%	57	71	48

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

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

<b>Missouri Headwaters</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Ennis Lake Inflow <sup>2</sup>	MAY-JUL	565	635	680	132%	725	795	515
	MAY-SEP	715	800	855	131%	910	995	655
Gallatin R at Logan	MAY-JUL	280	350	405	111%	455	530	365
	MAY-SEP	320	405	460	111%	515	600	415
Willow Ck Reservoir Inflow <sup>2</sup>	MAY-JUL	9	13.9	17.2	126%	21	25	13.7
Hyalite Reservoir Inflow <sup>2</sup>	MAY-JUL	16.9	19.2	21	113%	22	25	18.6
	MAY-SEP	19.3	22	24	114%	26	28	21
Big Hole R at Wisdom	MAY-JUL	15.4	47	68	101%	89	121	67
	MAY-SEP	18	51	74	99%	97	130	75
Lima Reservoir Inflow <sup>2</sup>	MAY-JUL	49	64	74	185%	84	99	40
	MAY-SEP	57	73	84	168%	95	111	50
Boulder R nr Boulder	MAY-JUL	59	76	87	153%	98	115	57
	MAY-SEP	62	81	93	155%	105	124	60
Jefferson R nr Three Forks <sup>2</sup>	MAY-JUL	410	585	705	131%	825	1000	540
	MAY-SEP	525	710	835	149%	960	1150	560
Big Hole R nr Melrose	MAY-JUL	330	420	485	117%	550	640	415
	MAY-SEP	355	455	525	113%	595	695	465
Hebgen Lake Inflow <sup>2</sup>	MAY-JUL	305	350	380	133%	410	455	285
	MAY-SEP	400	455	490	127%	525	580	385
Gallatin R nr Gallatin Gateway	MAY-JUL	345	385	410	111%	440	480	370
	MAY-SEP	400	450	480	112%	515	565	430
Jefferson R nr Twin Bridges <sup>2</sup>	MAY-JUL	290	465	580	135%	695	870	430
	MAY-SEP	310	495	620	138%	745	930	450
Beaverhead R at Barretts <sup>2</sup>	MAY-JUL	44	73	93	172%	113	142	54
	MAY-SEP	60	93	115	172%	137	170	67
Clark Canyon Inflow <sup>2</sup>	MAY-JUL	26	51	68	213%	85	110	32
	MAY-SEP	36	64	83	224%	102	130	37
Ruby R Reservoir Inflow	MAY-JUL	63	76	85	142%	94	107	60
	MAY-SEP	76	91	102	138%	112	127	74

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

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

Montana	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Lake Sherburne Inflow <sup>2</sup>	MAY-JUL	55	66	74	82%	82	93	90
	MAY-SEP	66	79	87	83%	95	108	105
Rock Ck nr Clinton	MAY-JUL	156	200	235	112%	265	310	210
	MAY-SEP	183	230	265	110%	300	350	240
NF Flathead R nr Columbia Falls	MAY-JUL	760	895	985	71%	1080	1210	1390
	MAY-SEP	860	1010	1110	72%	1210	1360	1540
WF Bitterroot R Nr Conner <sup>2</sup>	MAY-JUL	63	87	103	96%	120	144	107
	MAY-SEP	71	96	113	96%	130	155	118
Badger Ck nr Browning	MAY-JUL	39	55	66	108%	77	93	61
	MAY-SEP	44	62	74	100%	86	104	74
Blackfoot R nr Bonner	MAY-JUL	525	630	700	120%	770	875	585
	MAY-SEP	585	695	770	117%	845	955	660
Yaak R nr Troy	MAY-JUL	163	215	250	83%	285	335	300
	MAY-SEP	175	230	265	83%	305	355	320
Shields R nr Livingston	MAY-JUL	70	102	123	121%	145	176	102
	MAY-SEP	78	112	134	116%	157	190	116
Swift Reservoir Inflow	MAY-JUL	29	38	45	107%	52	61	42
	MAY-SEP	35	46	54	108%	62	73	50
Big Hole R at Wisdom	MAY-JUL	15.4	47	68	101%	89	121	67
	MAY-SEP	18	51	74	99%	97	130	75
Lima Reservoir Inflow <sup>2</sup>	MAY-JUL	49	64	74	185%	84	99	40
	MAY-SEP	57	73	84	168%	95	111	50
Clark Fork R ab Missoula	MAY-JUL	915	1140	1280	122%	1430	1650	1050
	MAY-SEP	1050	1290	1450	118%	1610	1850	1230
Hungry Horse Reservoir Inflow <sup>1,2</sup>	MAY-JUL	1040	1250	1350	88%	1450	1660	1530
	MAY-SEP	1080	1320	1430	86%	1540	1780	1660
Jefferson R nr Twin Bridges <sup>2</sup>	MAY-JUL	290	465	580	135%	695	870	430
	MAY-SEP	310	495	620	138%	745	930	450
Hebgen Lake Inflow <sup>2</sup>	MAY-JUL	305	350	380	133%	410	455	285
	MAY-SEP	400	455	490	127%	525	580	385
Stillwater R nr Absarokee <sup>2</sup>	MAY-JUL	345	405	445	107%	485	540	415
	MAY-SEP	400	470	520	102%	565	635	510
Clark Canyon Inflow <sup>2</sup>	MAY-JUL	26	51	68	213%	85	110	32
	MAY-SEP	36	64	83	224%	102	130	37
MF Rock Ck nr Philipsburg	MAY-JUL	46	55	62	119%	69	79	52
	MAY-SEP	52	62	69	119%	77	87	58
Gallatin R at Logan	MAY-JUL	280	350	405	111%	455	530	365
	MAY-SEP	320	405	460	111%	515	600	415



Swan R nr Bigfork	MAY-JUL	340	390	425	98%	460	510	435
	MAY-SEP	395	450	490	97%	530	585	505
Teton R nr Dutton <sup>2</sup>	MAY-JUL	6.9	16.3	25	100%	36	54	25
	MAY-SEP	7.8	18.3	28	108%	40	61	26
Gibson Reservoir Inflow <sup>2</sup>	MAY-JUL	260	300	325	97%	350	390	335
	MAY-SEP	285	330	360	96%	390	435	375
MF Flathead R nr West Glacier	MAY-JUL	830	960	1050	80%	1140	1270	1310
	MAY-SEP	910	1060	1160	79%	1260	1410	1470
Smith R bl Eagle Ck <sup>2</sup>	MAY-JUL	54	81	100	125%	119	146	80
	MAY-SEP	60	91	111	128%	131	162	87
Yellowstone R at Livingston	MAY-JUL	1590	1770	1890	106%	2010	2180	1780
	MAY-SEP	1870	2080	2220	108%	2360	2570	2060
Musselshell R at Harlowton <sup>2</sup>	MAY-JUL	2.7	31	50	100%	69	97	50
	MAY-SEP	1.55	32	52	106%	72	102	49
Bitterroot R nr Missoula	MAY-JUL	640	780	880	85%	975	1120	1030
	MAY-SEP	720	870	970	85%	1070	1220	1140
Big Hole R nr Melrose	MAY-JUL	330	420	485	117%	550	640	415
	MAY-SEP	355	455	525	113%	595	695	465
Clark Fork R ab Milltown	MAY-JUL	375	500	585	131%	675	800	445
	MAY-SEP	445	585	680	125%	775	910	545
Libby Reservoir Inflow <sup>1,2</sup>	MAY-JUL	3150	3870	4200	83%	4530	5250	5050
	MAY-SEP	3650	4440	4800	82%	5160	5950	5840
Flathead R at Columbia Falls <sup>2</sup>	MAY-JUL	2700	3100	3370	77%	3640	4040	4370
	MAY-SEP	2960	3410	3720	76%	4030	4480	4900
Clark Fork R at St. Regis <sup>1</sup>	MAY-JUL	1930	2520	2790	101%	3050	3640	2760
	MAY-SEP	2210	2840	3130	102%	3410	4040	3080
Clark Fork R bl Cabinet Gorge Dam <sup>2</sup>	MAY-JUL	6300	7130	7700	91%	8260	9100	8430
	MAY-SEP	6890	7860	8520	90%	9190	10200	9490
Nevada Ck nr Helmville	MAY-JUL	7.8	12.8	16.1	134%	19.4	24	12
	MAY-SEP	8.8	14.1	17.6	132%	21	26	13.3
Mission Ck nr St. Ignatius	MAY-JUL	21	25	27	108%	29	33	25
	MAY-SEP	25	29	32	107%	35	39	30
St. Mary R at Intl Boundary <sup>2</sup>	MAY-JUL	245	305	350	84%	390	455	415
	MAY-SEP	280	350	400	85%	450	520	470
Flint Ck bl Boulder Ck	MAY-JUL	35	46	54	117%	62	74	46
	MAY-SEP	46	60	69	113%	78	92	61
SF Jocko R nr Arlee	MAY-JUL	26	31	35	106%	39	44	33
	MAY-SEP	30	35	39	105%	43	48	37
Two Medicine R bl SF nr Browning <sup>2</sup>	MAY-JUL	93	122	141	93%	160	189	152
	MAY-SEP	101	130	150	93%	170	199	161
Georgetown Lake Inflow <sup>2</sup>	MAY-JUL	9.5	12.5	14.6	136%	16.6	19.6	10.7

	MAY-SEP	11.5	15.1	17.6	138%	20	24	12.8
Yellowstone R at Yellowstone Lake Outlet	MAY-JUL	520	580	625	113%	665	725	555
	MAY-SEP	695	775	825	111%	880	960	740
Clark Fk at Goldcreek	MAY-JUL	154	210	245	160%	285	340	153
	MAY-SEP	185	245	285	164%	330	390	174
Cooney Reservoir Inflow	MAY-JUL	20	30	36	109%	42	51	33
	MAY-SEP	29	39	46	105%	53	63	44
Tobacco R nr Eureka	MAY-JUL	39	55	65	60%	76	92	108
	MAY-SEP	45	63	76	61%	88	107	124
Boulder R at Big Timber	MAY-JUL	240	275	305	113%	330	365	270
	MAY-SEP	255	295	325	110%	355	395	295
Boulder R nr Boulder	MAY-JUL	59	76	87	153%	98	115	57
	MAY-SEP	62	81	93	155%	105	124	60
Missouri R at Toston <sup>2</sup>	MAY-JUL	1170	1520	1760	116%	2000	2350	1520
	MAY-SEP	1530	1910	2170	128%	2430	2810	1700
Gallatin R nr Gallatin Gateway	MAY-JUL	345	385	410	111%	440	480	370
	MAY-SEP	400	450	480	112%	515	565	430
Mystic Lake Inflow <sup>2</sup>	MAY-JUL	51	56	59	104%	62	67	57
	MAY-SEP	65	71	75	101%	79	85	74
South Crow Ck nr Ronan	MAY-JUL	7.9	9.5	10.6	109%	11.7	13.3	9.7
	MAY-SEP	9	10.9	12.1	111%	13.3	15.2	10.9
Willow Ck Reservoir Inflow <sup>2</sup>	MAY-JUL	9	13.9	17.2	126%	21	25	13.7
Beaverhead R at Barretts <sup>2</sup>	MAY-JUL	44	73	93	172%	113	142	54
	MAY-SEP	60	93	115	172%	137	170	67
Dupuyer Ck nr Valier	MAY-JUL	2.1	6	8.6	115%	11.2	15.1	7.5
	MAY-SEP	2.5	6.6	9.4	125%	12.2	16.3	7.5
Yellowstone R at Corwin Springs	MAY-JUL	1390	1540	1640	107%	1740	1880	1530
	MAY-SEP	1640	1820	1930	108%	2050	2220	1780
Ennis Lake Inflow <sup>2</sup>	MAY-JUL	565	635	680	132%	725	795	515
	MAY-SEP	715	800	855	131%	910	995	655
Sf Flathead R nr Hungry Horse	MAY-JUL	680	785	860	86%	935	1040	1000
	MAY-SEP	720	840	920	86%	1000	1120	1070
Marias R nr Shelby <sup>2</sup>	MAY-JUL	139	225	285	100%	345	430	285
	MAY-SEP	132	225	290	100%	355	450	290
Prospect Ck at Thompson Falls	MAY-JUL	29	40	48	68%	56	68	71
	MAY-SEP	42	50	55	70%	60	68	79
St. Mary R nr Babb <sup>2</sup>	MAY-JUL	225	270	300	83%	330	375	360
	MAY-SEP	265	315	350	85%	385	435	410
Mill Ck ab Bassoo ck nr Niarada	MAY-JUL	2	2.7	3.2	100%	3.8	4.6	3.2
	MAY-SEP	2.3	3	3.5	97%	4.1	5	3.6
Clark Fork R bl Missoula	MAY-JUL	1590	1930	2160	103%	2390	2730	2100

Jefferson R nr Three Forks <sup>2</sup>	MAY-SEP	1810	2170	2420	103%	2670	3030	2360
	MAY-JUL	410	585	705	131%	825	1000	540
Musselshell R nr Roundup <sup>2</sup>	MAY-SEP	525	710	835	149%	960	1150	560
	MAY-JUL	1	23	60	130%	97	151	46
Hyalite Reservoir Inflow <sup>2</sup>	MAY-SEP	1	21	59	140%	98	155	42
	MAY-JUL	16.9	19.2	21	113%	22	25	18.6
Bitterroot R Nr Darby <sup>2</sup>	MAY-SEP	19.3	22	24	114%	26	28	21
	MAY-JUL	240	305	350	91%	390	460	385
Clark Fork R nr Plains <sup>1,2</sup>	MAY-SEP	260	330	375	90%	425	495	415
	MAY-JUL	5410	6510	7010	91%	7510	8610	7680
Flathead Lake Inflow <sup>1,2</sup>	MAY-SEP	5930	7210	7790	90%	8370	9650	8660
	MAY-JUL	3030	3750	4080	81%	4410	5130	5040
Ruby R Reservoir Inflow	MAY-SEP	3230	4080	4470	79%	4860	5710	5680
	MAY-JUL	63	76	85	142%	94	107	60
	MAY-SEP	76	91	102	138%	112	127	74

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

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

<b>Western Montana</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Rock Ck nr Clinton	MAY-JUL	156	200	235	112%	265	310	210
	MAY-SEP	183	230	265	110%	300	350	240
Blackfoot R nr Bonner	MAY-JUL	525	630	700	120%	770	875	585
	MAY-SEP	585	695	770	117%	845	955	660
NF Flathead R nr Columbia Falls	MAY-JUL	760	895	985	71%	1080	1210	1390
	MAY-SEP	860	1010	1110	72%	1210	1360	1540
WF Bitterroot R Nr Conner <sup>2</sup>	MAY-JUL	63	87	103	96%	120	144	107
	MAY-SEP	71	96	113	96%	130	155	118
Yaak R nr Troy	MAY-JUL	163	215	250	83%	285	335	300
	MAY-SEP	175	230	265	83%	305	355	320
Clark Fork R ab Missoula	MAY-JUL	915	1140	1280	122%	1430	1650	1050
	MAY-SEP	1050	1290	1450	118%	1610	1850	1230
Hungry Horse Reservoir Inflow <sup>1,2</sup>	MAY-JUL	1040	1250	1350	88%	1450	1660	1530
	MAY-SEP	1080	1320	1430	86%	1540	1780	1660
MF Rock Ck nr Philipsburg	MAY-JUL	46	55	62	119%	69	79	52
	MAY-SEP	52	62	69	119%	77	87	58
Swan R nr Bigfork	MAY-JUL	340	390	425	98%	460	510	435
	MAY-SEP	395	450	490	97%	530	585	505
MF Flathead R nr West Glacier	MAY-JUL	830	960	1050	80%	1140	1270	1310
	MAY-SEP	910	1060	1160	79%	1260	1410	1470

Bitterroot R nr Missoula								
	MAY-JUL	640	780	880	85%	975	1120	1030
	MAY-SEP	720	870	970	85%	1070	1220	1140
Clark Fork R ab Milltown								
	MAY-JUL	375	500	585	131%	675	800	445
	MAY-SEP	445	585	680	125%	775	910	545
Libby Reservoir Inflow <sup>1,2</sup>								
	MAY-JUL	3150	3870	4200	83%	4530	5250	5050
	MAY-SEP	3650	4440	4800	82%	5160	5950	5840
Flathead R at Columbia Falls <sup>2</sup>								
	MAY-JUL	2700	3100	3370	77%	3640	4040	4370
	MAY-SEP	2960	3410	3720	76%	4030	4480	4900
Clark Fork R at St. Regis <sup>1</sup>								
	MAY-JUL	1930	2520	2790	101%	3050	3640	2760
	MAY-SEP	2210	2840	3130	102%	3410	4040	3080
Clark Fork R bl Cabinet Gorge Dam <sup>2</sup>								
	MAY-JUL	6300	7130	7700	91%	8260	9100	8430
	MAY-SEP	6890	7860	8520	90%	9190	10200	9490
Nevada Ck nr Helmsville								
	MAY-JUL	7.8	12.8	16.1	134%	19.4	24	12
	MAY-SEP	8.8	14.1	17.6	132%	21	26	13.3
Mission Ck nr St. Ignatius								
	MAY-JUL	21	25	27	108%	29	33	25
	MAY-SEP	25	29	32	107%	35	39	30
Flint Ck bl Boulder Ck								
	MAY-JUL	35	46	54	117%	62	74	46
	MAY-SEP	46	60	69	113%	78	92	61
SF Jocko R nr Arlee								
	MAY-JUL	26	31	35	106%	39	44	33
	MAY-SEP	30	35	39	105%	43	48	37
Georgetown Lake Inflow <sup>2</sup>								
	MAY-JUL	9.5	12.5	14.6	136%	16.6	19.6	10.7
	MAY-SEP	11.5	15.1	17.6	138%	20	24	12.8
Clark Fk at Goldcreek								
	MAY-JUL	154	210	245	160%	285	340	153
	MAY-SEP	185	245	285	164%	330	390	174
Tobacco R nr Eureka								
	MAY-JUL	39	55	65	60%	76	92	108
	MAY-SEP	45	63	76	61%	88	107	124
South Crow Ck nr Ronan								
	MAY-JUL	7.9	9.5	10.6	109%	11.7	13.3	9.7
	MAY-SEP	9	10.9	12.1	111%	13.3	15.2	10.9
Sf Flathead R nr Hungry Horse								
	MAY-JUL	680	785	860	86%	935	1040	1000
	MAY-SEP	720	840	920	86%	1000	1120	1070
Prospect Ck at Thompson Falls								
	MAY-JUL	29	40	48	68%	56	68	71
	MAY-SEP	42	50	55	70%	60	68	79
Mill Ck ab Bassoo ck nr Niarada								
	MAY-JUL	2	2.7	3.2	100%	3.8	4.6	3.2
	MAY-SEP	2.3	3	3.5	97%	4.1	5	3.6
Clark Fork R bl Missoula								
	MAY-JUL	1590	1930	2160	103%	2390	2730	2100
	MAY-SEP	1810	2170	2420	103%	2670	3030	2360
Bitterroot R Nr Darby <sup>2</sup>								
	MAY-JUL	240	305	350	91%	390	460	385
	MAY-SEP	260	330	375	90%	425	495	415
Clark Fork R nr Plains <sup>1,2</sup>								
	MAY-JUL	5410	6510	7010	91%	7510	8610	7680
	MAY-SEP	5930	7210	7790	90%	8370	9650	8660
Flathead Lake Inflow <sup>1,2</sup>								
	MAY-JUL	3030	3750	4080	81%	4410	5130	5040

MAY-SEP 3230 4080 4470 79% 4860 5710 5680

- 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

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

<b>Yellowstone</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Median	30% (KAF)	10% (KAF)	30yr Median (KAF)
Buffalo Bill Reservoir Inflow <sup>2</sup>	MAY-JUL	480	565	625	101%	685	770	620
	MAY-SEP	530	620	685	101%	750	840	680
Dinwoody Ck nr Burris	MAY-JUL	55	61	66	94%	71	77	70
	MAY-SEP	81	88	93	98%	98	105	95
Shields R nr Livingston	MAY-JUL	70	102	123	121%	145	176	102
	MAY-SEP	78	112	134	116%	157	190	116
Bighorn R nr St. Xavier <sup>2</sup>	MAY-JUL	925	1240	1460	99%	1680	2000	1480
	MAY-SEP	965	1310	1540	96%	1770	2110	1610
Rock Ck nr Buffalo	MAY-JUL	11.7	16.7	20	100%	23	28	20
	MAY-SEP	15.4	21	24	96%	27	33	25
Clarks Fk Yellowstone R nr Belfry	MAY-JUL	450	505	540	106%	580	630	510
	MAY-SEP	485	545	585	109%	625	685	535
Big Goose Ck nr Sheridan	MAY-JUL	32	42	48	96%	54	64	50
	MAY-SEP	41	50	57	97%	64	73	59
Stillwater R nr Absarokee <sup>2</sup>	MAY-JUL	345	405	445	107%	485	540	415
	MAY-SEP	400	470	520	102%	565	635	510
Little Popo Agie R nr Lander	MAY-JUL	46	53	58	145%	63	70	40
	MAY-SEP	52	59	64	139%	69	76	46
Shell Ck nr Shell	MAY-JUL	33	43	49	88%	55	65	56
	MAY-SEP	43	53	60	88%	67	77	68
Yellowstone R at Livingston	MAY-JUL	1590	1770	1890	106%	2010	2180	1780
	MAY-SEP	1870	2080	2220	108%	2360	2570	2060
Tongue River Reservoir Inflow <sup>2</sup>	MAY-JUL	113	161	194	97%	225	275	200
	MAY-SEP	134	185	220	98%	255	305	225
Greybull R at Meeteetse	MAY-JUL	93	125	146	107%	167	199	137
	MAY-SEP	135	171	195	103%	220	255	190
Bull Lake Ck nr Lenore <sup>2</sup>	MAY-JUL	124	139	150	111%	161	176	135
	MAY-SEP	150	168	180	110%	192	210	163
Little Wind R nr Riverton	MAY-JUL	270	335	375	144%	420	480	260
	MAY-SEP	300	365	410	146%	455	520	280
Little Goose Ck nr Big Horn	MAY-JUL	20	26	30	100%	34	40	30
	MAY-SEP	28	34	39	98%	44	50	40
SF Shoshone R ab Buffalo Bill Reservoir	MAY-JUL	129	164	188	90%	210	245	210
	MAY-SEP	130	167	193	92%	220	255	210

Yellowstone R at Billings <sup>2</sup>								
	MAY-JUL	2660	3070	3340	114%	3610	4020	2930
	MAY-SEP	3000	3480	3810	108%	4140	4620	3530
Wind R at Riverton <sup>2</sup>								
	MAY-JUL	350	415	460	99%	505	570	465
	MAY-SEP	410	480	530	100%	580	650	530
Powder R nr Locate								
	MAY-JUL	61	137	189	103%	240	315	184
	MAY-SEP	71	151	205	103%	260	340	199
Boysen Reservoir Inflow <sup>2</sup>								
	MAY-JUL	495	635	735	108%	835	975	680
	MAY-SEP	550	695	795	110%	895	1040	725
NF Powder R nr Hazelton								
	MAY-JUL	6.2	8.1	9.4	98%	10.7	12.6	9.6
	MAY-SEP	6.7	8.7	10.1	96%	11.5	13.5	10.5
Yellowstone R at Yellowstone Lake Outlet								
	MAY-JUL	520	580	625	113%	665	725	555
	MAY-SEP	695	775	825	111%	880	960	740
Wind R Ab Bull Lake Ck <sup>2</sup>								
	MAY-JUL	340	405	445	99%	485	550	450
	MAY-SEP	355	425	470	107%	515	585	440
Cooney Reservoir Inflow								
	MAY-JUL	20	30	36	109%	42	51	33
	MAY-SEP	29	39	46	105%	53	63	44
MF Powder R nr Barnum								
	MAY-JUL	7.8	11.6	14.2	105%	16.8	21	13.5
	MAY-SEP	8.5	12.4	15.1	105%	17.8	22	14.4
Boulder R at Big Timber								
	MAY-JUL	240	275	305	113%	330	365	270
	MAY-SEP	255	295	325	110%	355	395	295
Mystic Lake Inflow <sup>2</sup>								
	MAY-JUL	51	56	59	104%	62	67	57
	MAY-SEP	65	71	75	101%	79	85	74
Yellowstone R at Corwin Springs								
	MAY-JUL	1390	1540	1640	107%	1740	1880	1530
	MAY-SEP	1640	1820	1930	108%	2050	2220	1780
Tongue R nr Dayton <sup>2</sup>								
	MAY-JUL	61	75	85	102%	95	109	83
	MAY-SEP	71	87	98	102%	109	125	96
Little Bighorn R nr Hardin								
	MAY-JUL	51	76	94	104%	112	137	90
	MAY-SEP	60	89	109	101%	129	158	108
Bighorn R at Kane <sup>2</sup>								
	MAY-JUL	565	810	980	106%	1150	1400	925
	MAY-SEP	620	875	1050	110%	1220	1480	955
SF Shoshone R nr Valley								
	MAY-JUL	154	181	200	95%	220	245	210
	MAY-SEP	178	210	230	92%	250	280	250
NF Shoshone R at Wapiti								
	MAY-JUL	345	400	435	102%	470	525	425
	MAY-SEP	385	445	485	100%	525	585	485
Piney Ck at Kearny								
	MAY-JUL	23	37	46	100%	55	69	46
	MAY-SEP	23	37	47	98%	57	71	48
Powder R at Moorhead								
	MAY-JUL	58	129	177	110%	225	295	161
	MAY-SEP	72	144	193	112%	240	315	173

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