



	APR-JUL	30	35	38	115%	42	47	33
	APR-SEP	34	39	43	116%	46	51	37
NF Jocko R bl Tabor Feeder Canal								
	APR-JUL	31	33	35	113%	37	40	31
	APR-SEP	32	35	37	112%	39	42	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
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<b>UPPER CLARK FORK RIVER BASIN</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Little Blackfoot nr Garrison								
	APR-JUL	40	59	72	103%	85	104	70
	APR-SEP	45	65	79	103%	93	114	77
Flint Ck nr Southern Cross								
	APR-JUL	6.9	10.6	13.1	106%	15.7	19.4	12.4
	APR-SEP	7.6	12.3	15.5	106%	18.7	23	14.6
Flint Ck bl Boulder Ck								
	APR-JUL	30	45	55	106%	65	80	52
	APR-SEP	40	58	70	106%	82	99	66
Lower Willow Ck Reservoir Inflow <sup>2</sup>								
	APR-MAY	4.3	6.8	8.4	115%	10	12.5	7.3
	APR-JUL	5.9	9.8	12.4	117%	15	18.9	10.6
MF Rock Ck nr Philipsburg								
	APR-JUL	44	53	60	103%	67	76	58
	APR-SEP	49	60	67	103%	74	85	65
Rock Ck nr Clinton								
	APR-JUL	171	225	260	104%	295	350	250
	APR-SEP	198	255	295	105%	335	390	280
Clark Fork R ab Milltown								
	APR-JUL	300	450	555	105%	660	810	530
	APR-SEP	370	535	650	106%	765	930	615
Nevada Ck nr Helmville								
	APR-MAY	3.8	7	9.2	110%	11.4	14.6	8.4
	APR-JUL	5.9	11.4	15.2	107%	19	25	14.2
Blackfoot R nr Bonner								
	APR-JUL	525	640	720	100%	800	915	720
	APR-SEP	590	715	800	100%	885	1010	800
Clark Fork R ab Missoula								
	APR-JUL	840	1110	1290	103%	1470	1740	1250
	APR-SEP	975	1260	1460	103%	1660	1940	1420

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Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast
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<b>BITTERROOT RIVER BASIN</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
WF Bitterroot R Nr Conner <sup>2</sup>								
	APR-JUL	84	112	131	102%	150	178	128
	APR-SEP	89	120	142	102%	163	195	139
Bitterroot R Nr Darby								
	APR-JUL	280	360	415	94%	475	555	440
	APR-SEP	340	420	475	100%	530	610	475
Como Reservoir Inflow <sup>2</sup>								
	APR-JUL	63	70	75	99%	80	87	76
	APR-SEP	66	73	78	99%	84	91	79
Bitterroot R nr Missoula								



Jefferson R nr Three Forks <sup>2</sup>	APR-JUL	4.2	10.8	15.3	91%	19.8	26	16.8
	APR-JUL	405	630	780	105%	935	1160	740
	APR-SEP	425	675	845	106%	1020	1270	800

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Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast
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<b>MADISON RIVER BASIN</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Hebgen Reservoir Inflow <sup>2</sup>								
	APR-JUL	375	420	450	122%	480	525	370
	APR-SEP	480	535	570	121%	605	660	470
Ennis Reservoir Inflow <sup>2</sup>								
	APR-JUL	530	615	675	108%	735	820	625
	APR-SEP	655	760	830	107%	900	1000	775

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Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast
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<b>GALLATIN RIVER BASIN</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Gallatin R nr Gateway								
	APR-JUL	305	365	405	101%	445	505	400
	APR-SEP	355	425	470	100%	515	585	470
Hyalite Reservoir Inflow <sup>2</sup>								
	APR-JUL	14.5	16.7	18.2	91%	19.7	22	20
	APR-SEP	17	19.3	21	91%	22	25	23
Gallatin R at Logan								
	APR-JUL	235	340	415	94%	490	595	440
	APR-SEP	270	390	470	93%	550	670	505

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Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast
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<b>SMITH-JUDITH-MUSSELSHELL</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Sheep Ck nr White Sulphur Springs								
	APR-JUL	6.2	9.6	11.9	77%	14.2	17.6	15.5
	APR-SEP	7.6	11.6	14.3	78%	17	21	18.4
Smith R bl Eagle Ck <sup>2</sup>								
	APR-JUL	38	71	94	89%	116	150	106
	APR-SEP	41	80	107	92%	133	173	116
NF Musselshell R nr Delpine								
SF Musselshell R ab Martinsdale								
	APR-JUL	1	15.6	26	74%	36	52	35
	APR-SEP	1	17.2	28	74%	39	56	38
Musselshell R at Harlowton <sup>2</sup>								
	APR-JUL	-2.1	18.8	33	58%	47	68	57
	APR-SEP	-1	18.5	35	59%	51	74	59
Musselshell R nr Roundup <sup>2</sup>								
	APR-JUL	-45	-23	22	33%	67	133	67

APR-SEP -43 -22 22 33% 67 133 66

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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

<b>SUN-TETON-MARIAS</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Gibson Reservoir Inflow	APR-JUL	340	400	440	111%	480	540	395
	APR-SEP	375	440	485	110%	530	595	440
Two Medicine R nr Browning <sup>2</sup>	APR-JUL	150	178	198	108%	215	245	183
	APR-SEP	159	189	210	108%	230	260	194
Badger Ck nr Browning	APR-JUL	67	84	95	108%	106	122	88
	APR-SEP	79	97	109	106%	122	140	103
Swift Reservoir Inflow <sup>2</sup>	APR-JUL	38	50	58	102%	66	78	57
	APR-SEP	46	60	69	103%	78	91	67
Dupuyer Ck nr Valier	APR-JUL	3.3	6.9	9.4	85%	11.8	15.5	11.1
	APR-SEP	4.1	8	10.7	84%	13.4	17.4	12.7
Cut Bank Ck nr Browning	APR-JUL	51	65	75	109%	85	99	69
	APR-SEP	56	71	81	108%	91	106	75
Marias R nr Shelby <sup>2</sup>	APR-JUL	230	320	385	107%	445	535	360
	APR-SEP	240	335	400	107%	465	565	375
Teton R nr Dutton	APR-JUL	2.8	31	50	119%	69	97	42
	APR-SEP	4.9	35	56	117%	77	107	48

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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

<b>ST. MARY &amp; MILK BASINS</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Lake Sherburne Inflow	APR-JUL	86	99	107	110%	115	128	97
	APR-SEP	100	113	123	110%	132	146	112
St. Mary R nr Babb <sup>2</sup>	APR-JUL	330	380	410	111%	445	495	370
	APR-SEP	380	435	475	112%	510	565	425
St. Mary R at Intl Boundary <sup>2</sup>	APR-JUL	375	445	490	113%	535	600	435
	APR-SEP	440	510	560	111%	610	685	505
Milk R at Western Crossing of Intl Bndry, AB								
Milk R at Eastern Crossing of Intl Bndry								

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

<b>MISSOURI MAINSTEM BASIN</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Missouri R at Toston <sup>2</sup>	APR-JUL	1200	1580	1840	103%	2100	2480	1790
	APR-SEP	1380	1820	2120	102%	2420	2860	2070
Dearborn R nr Craig								
Missouri R at Fort Benton <sup>2</sup>	APR-JUL	1740	2340	2740	105%	3140	3740	2610
	APR-SEP	2090	2780	3260	105%	3740	4430	3110
Missouri R nr Virgelle <sup>2</sup>	APR-JUL	2020	2690	3140	105%	3590	4260	3000
	APR-SEP	2360	3150	3680	105%	4210	5000	3520
Missouri R nr Landusky <sup>2</sup>	APR-JUL	2150	2860	3350	106%	3840	4550	3160
	APR-SEP	2540	3370	3940	106%	4510	5340	3720
Missouri R bl Fort Peck Dam <sup>2</sup>	APR-JUL	2040	2750	3230	100%	3710	4420	3240
	APR-SEP	2100	3020	3640	98%	4260	5180	3700
Lake Sakakawea Inflow <sup>2</sup>	APR-JUL	7710	9480	10700	129%	11900	13700	8310
	APR-SEP	8350	10500	12000	128%	13500	15700	9400

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

3) Median value used in place of average

Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast
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<b>UPPER YELLOWSTONE RIVER BASIN</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Yellowstone R at Yellowstone Lake Outlet	APR-JUL	710	785	835	145%	885	960	575
	APR-SEP	930	1030	1100	143%	1180	1280	770
Yellowstone R at Corwin Springs	APR-JUL	1830	2020	2140	135%	2260	2450	1590
	APR-SEP	2150	2380	2520	134%	2670	2900	1880
Yellowstone R at Livingston	APR-JUL	2060	2300	2460	137%	2620	2850	1800
	APR-SEP	2420	2700	2890	135%	3080	3360	2140
Shields R nr Livingston	APR-JUL	40	80	107	83%	134	174	129
	APR-SEP	45	87	116	81%	145	188	143
Boulder R at Big Timber	APR-JUL	210	260	295	105%	330	380	280
	APR-SEP	220	275	315	105%	355	410	300
Mystic Lake Inflow <sup>2</sup>	APR-JUL	54	60	64	108%	68	74	59
	APR-SEP	69	76	81	109%	86	93	74
Stillwater R nr Absarokee <sup>2</sup>	APR-JUL	370	445	495	111%	545	620	445
	APR-SEP	440	525	585	113%	645	730	520
Clarks Fk Yellowstone R nr Belfry	APR-JUL	630	705	755	148%	805	875	510
	APR-SEP	690	775	830	151%	885	965	550
Cooney Reservoir Inflow	APR-JUL	10.6	23	32	84%	41	53	38
	APR-SEP	17.6	32	41	85%	50	64	48
Yellowstone R at Billings	APR-JUL	3230	3810	4210	130%	4610	5190	3230
	APR-SEP	3690	4380	4840	130%	5310	5990	3730

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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
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<b>LOWER YELLOWSTONE RIVER BASIN (Wyoming)</b>	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Bighorn R nr St. Xavier <sup>2</sup>	APR-JUL	2060	2460	2740	199%	3010	3410	1380
	APR-SEP	2260	2700	3000	205%	3310	3750	1460
Little Bighorn R nr Hardin	APR-JUL	31	65	88	90%	112	146	98
	APR-SEP	36	74	100	90%	126	164	111
Tongue R nr Dayton <sup>2</sup>	APR-JUL	50	68	81	94%	93	111	86
	APR-SEP	59	79	93	95%	106	126	98
Big Goose Ck nr Sheridan	APR-JUL	23	35	44	96%	53	65	46
	APR-SEP	30	43	52	96%	61	74	54
Little Goose Ck nr Bighorn	APR-JUL	16.6	24	30	97%	35	43	31
	APR-SEP	23	32	38	97%	44	52	39
Tongue River Reservoir Inflow <sup>2</sup>	APR-JUL	72	137	181	94%	225	290	193
	APR-SEP	88	156	205	95%	250	320	215
Yellowstone R at Miles City <sup>2</sup>	APR-JUL	5350	6330	7000	146%	7670	8650	4780
	APR-SEP	6070	7220	8010	147%	8790	9950	5450
Powder R at Moorehead	APR-JUL	45	131	190	107%	250	335	177
	APR-SEP	60	149	210	107%	270	360	196
Powder R nr Locate	APR-JUL	55	150	215	108%	280	375	199
	APR-SEP	68	168	235	107%	305	405	220
Yellowstone R nr Sidney <sup>2</sup>	APR-JUL	5340	6430	7160	148%	7900	8990	4830
	APR-SEP	5970	7260	8130	150%	9010	10300	5430

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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