Report Created:
9/30/2014 5:28:17 PM

Streamflow Forecast Summary: June 1, 2003
(averages based on 1981-2010 reference period)

KOOTENAI RIVER BASIN in MONTANA	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment: Chance that actual volume will exceed forecast — 90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Tobacco R nr Eureka								
	JUN-JUL			47	76%			62
	JUN-SEP			60	79%			76
Libby Reservoir Inflow[1]								
	JUN-JUL			2720	82%			3310
	JUN-SEP			3620	84%			4310
Fisher R nr Libby								
	JUN-JUL			39	61%			64
	JUN-SEP			50	60%			84
Yaak R nr Troy								
	JUN-JUL			93	65%			144
	JUN-SEP			112	67%			166
Kootenai R at Leonia[1,2]								
	JUN-JUL			3020	80%			3790
	JUN-SEP			4000	82%			4880

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

FLATHEAD RIVER BASIN	Forecast Period	Forecast Exceedance Probabilities for Risk Assessment: Chance that actual volume will exceed forecast — 90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
NF Flathead R nr Columbia Falls								
	JUN-JUL			635	77%			830
	JUN-SEP			790	78%			1010
MF Flathead R nr West Glacier								
	JUN-JUL			580	70%			825
	JUN-SEP			705	72%			975
Sf Flathead R nr Hungry Horse								
Hungry Horse Reservoir Inflow[1,2]								
	JUN-JUL			700	73%			960
	JUN-SEP			810	74%			1090
Flathead R at Columbia Falls[2]								
	JUN-JUL			1960	73%			2690
	JUN-SEP			2370	75%			3160
Ashley Ck nr Marion[2]								
Swan R nr Bigfork								
	JUN-JUL			255	84%			305
	JUN-SEP			325	84%			385
Flathead Lake Inflow[1,2]								
	JUN-JUL			2300	74%			3110
	JUN-SEP			2730	75%			3620
Mill Ck ab Bassoo ck nr Niarada								
South Crow Ck nr Ronan								
Mission Ck nr St. Ignatius								
SF Jocko R nr Arlee								
NF Jocko R bl Tabor Feeder Canal								

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						
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								
	JUN-JUL			28	88%			32
	JUN-SEP			35	90%			39
Flint Ck nr Southern Cross								
	JUN-JUL			8.1	101%			8
	JUN-SEP			10.7	107%			10
Flint Ck bl Boulder Ck								
	JUN-JUL			36	109%			33
	JUN-SEP			51	106%			48
Lower Willow Ck Reservoir Inflow[2]								
	JUN-JUL			3.6	84%			4.3
	JUN-SEP			4.6	88%			5.2
MF Rock Ck nr Philipsburg								
	JUN-JUL			44	113%			39
	JUN-SEP			52	111%			47
Rock Ck nr Clinton								
	JUN-JUL			132	89%			148
	JUN-SEP			165	90%			183
Clark Fork R ab Milltown								
	JUN-JUL			335	106%			315
	JUN-SEP			435	106%			410
Nevada Ck nr Helmville								
	JUN-JUL			6.1	87%			7
	JUN-SEP			7.6	89%			8.5
Blackfoot R nr Bonner								
	JUN-JUL			260	68%			380
	JUN-SEP			335	71%			470
Clark Fork R ab Missoula								
	JUN-JUL			595	86%			695
	JUN-SEP			770	88%			880

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						
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]								
	JUN-JUL			66	96%			69
	JUN-SEP			79	96%			82
Bitterroot R Nr Darby								
	JUN-JUL			245	102%			240
	JUN-SEP			320	108%			295
Como Reservoir Inflow[2]								
	JUN-JUL			36	90%			40
	JUN-SEP			40	91%			44
Bitterroot R nr Missoula								
	JUN-JUL			725	105%			690
	JUN-SEP			840	105%			800

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						
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								
	JUN-JUL			1320	96%			1380
	JUN-SEP			1610	96%			1680
Clark Fork R at St. Regis[1]								
	JUN-JUL			1700	96%			1770
	JUN-SEP			2090	97%			2160
Clark Fork R nr Plains[1,2]								
	JUN-JUL			4240	83%			5090
	JUN-SEP			5140	85%			6080
Thompson nr Tompson Falls								
	JUN-JUL			25	30%			82
	JUN-SEP			40	37%			108
Prospect Ck at Thompson Falls								
	JUN-JUL			12.8	31%			41
	JUN-SEP			18.9	38%			50
Clark Fork R at Whitehorse Rapids[1,2]								
	JUN-JUL			4680	78%			5984
	JUN-SEP			5730	80%			7166

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						
JEFFERSON RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Lima Reservoir Inflow[2]								
	JUN-JUL			24	62%			39
	JUN-SEP			28	60%			47
Clark Canyon Inflow[2]								
	JUN-JUL			29	57%			51
	JUN-SEP			45	59%			76
Beaverhead R at Barretts[2]								
	JUN-JUL			45	63%			71
	JUN-SEP			70	68%			103
Ruby R Reservoir Inflow[2]								
	JUN-JUL			29	63%			46
	JUN-SEP			42	68%			62
Big Hole R at Wisdom								
	JUN-JUL			40	70%			57
	JUN-SEP			45	69%			65
Big Hole R nr Melrose								
	JUN-JUL			300	92%			325
	JUN-SEP			345	91%			380
Jefferson R nr Twin Bridges[2]								
Boulder R nr Boulder								
	JUN-JUL			35	97%			36
	JUN-SEP			41	95%			43
Willow Ck Reservoir Inflow[2]								
	JUN-JUL			10	91%			11
	JUN-SEP			12.2	93%			13.1
Jefferson R nr Three Forks[2]								

	JUN-JUL			300	81%			370
	JUN-SEP			350	78%			450

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						
MADISON RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Hebgen Reservoir Inflow[2]								
	JUN-JUL			170	85%			200
	JUN-SEP			270	87%			310
Ennis Reservoir Inflow[2]								
	JUN-JUL			325	87%			375
	JUN-SEP			485	90%			540

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						
GALLATIN RIVER BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Gallatin R nr Gateway								
	JUN-JUL			255	89%			285
	JUN-SEP			320	89%			360
Hyalite Reservoir Inflow[2]								
	JUN-JUL			12	81%			14.9
	JUN-SEP			14.7	82%			18
Gallatin R at Logan								
	JUN-JUL			225	80%			280
	JUN-SEP			295	82%			360

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						
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								
	JUN-JUL			8.1	90%			9
	JUN-SEP			11	92%			12
Smith R bl Eagle Ck[2]								
	MAY-JUL			120	80%			150
	MAY-SEP			145	78%			185
	JUN-JUL			71	79%			90
	JUN-SEP			95	76%			125
NF Musselshell R nr Delpine								
	JUN-JUL			1.95	85%			2.3
	JUN-SEP			2.8	88%			3.2
SF Musselshell R ab Martinsdale								
	JUN-JUL			17.7	71%			25
	JUN-SEP			21	72%			29
Musselshell R at Harlowton[2]								
	JUN-JUL			26	70%			37

	JUN-SEP			29	71%			41
Musselshell R nr Roundup[2]								
	JUN-JUL			27	57%			47
	JUN-SEP			27	54%			50

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						
SUN-TETON-MARIAS	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Gibson Reservoir Inflow								
	JUN-JUL			155	61%			255
	JUN-SEP			200	66%			305
Two Medicine R nr Browning[2]								
	JUN-JUL			57	60%			95
	JUN-SEP			68	64%			107
Badger Ck nr Browning								
	JUN-JUL			32	60%			53
	JUN-SEP			45	65%			69
Swift Reservoir Inflow[2]								
	JUN-JUL			19.6	56%			35
	JUN-SEP			31	66%			47
Dupuyer Ck nr Valier								
	JUN-JUL			2.3	35%			6.5
	JUN-SEP			3.6	43%			8.3
Cut Bank Ck nr Browning								
Marias R nr Shelby[2]								
	JUN-JUL			70	38%			183
	JUN-SEP			84	40%			210
Teton R nr Dutton								
	JUN-JUL			9.5	35%			27
	JUN-SEP			14.5	41%			35

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						
ST. MARY & MILK BASINS	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Lake Sherburne Inflow								
St. Mary R nr Babb[2]								
	JUN-JUL			205	82%			250
	JUN-SEP			265	84%			315
St. Mary R at Intl Boundary[2]								
	JUN-JUL			235	89%			265
	JUN-SEP			305	88%			345
Milk R at Western Crossing of Intl Bndry, AB								
	JUN-JUL			8.3	87%			9.5
	JUN-SEP			9.5	84%			11.3
Milk R at Eastern Crossing of Intl Bndry								
	JUN-JUL			17.4	87%			20
	JUN-SEP			26	90%			29

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						
MISSOURI MAINSTEM BASIN	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Missouri R at Toston[2]								
	JUN-JUL			905	83%			1090
	JUN-SEP			1200	85%			1420
Dearborn R nr Craig								
	JUN-JUL			41	65%			63
	JUN-SEP			47	70%			67
Missouri R at Fort Benton[2]								
	JUN-JUL			1410	89%			1580
	JUN-SEP			1950	90%			2170
Missouri R nr Virgelle[2]								
	JUN-JUL			1640	90%			1820
	JUN-SEP			2220	91%			2430
Missouri R nr Landusky[2]								
	JUN-JUL			1770	91%			1950
	JUN-SEP			2400	92%			2610
Missouri R bl Fort Peck Dam[2]								
	JUN-JUL			1730	88%			1960
	JUN-SEP			2240	88%			2550
Lake Sakakawea Inflow[2]								
	JUN-JUL			4050	70%			5800
	JUN-SEP			5150	71%			7240

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						
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								
	JUN-JUL			345	71%			485
	JUN-SEP			500	72%			695
Yellowstone R at Corwin Springs								
	JUN-JUL			975	86%			1140
	JUN-SEP			1260	86%			1460
Yellowstone R at Livingston								
	JUN-JUL			1100	84%			1310
	JUN-SEP			1430	84%			1700
Shields R nr Livingston								
	JUN-JUL			32	46%			69
	JUN-SEP			43	50%			86
Boulder R at Big Timber								
	JUN-JUL			200	98%			205
	JUN-SEP			225	98%			230
Mystic Lake Inflow[2]								
	JUN-JUL			51	106%			48
	JUN-SEP			68	103%			66
Stillwater R nr Absarokee[2]								
	JUN-JUL			380	104%			365
	JUN-SEP			470	102%			460
Clarks Fk Yellowstone R nr Belfry								
	JUN-JUL			375	96%			390
	JUN-SEP			425	96%			445

Cooney Reservoir Inflow								
	JUN-JUL			25	109%			23
	JUN-SEP			36	106%			34
Yellowstone R at Billings								
	JUN-JUL			2200	92%			2380
	JUN-SEP			2900	97%			2990

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						
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]								
	JUN-JUL			675	62%			1090
	JUN-SEP			740	60%			1240
Little Bighorn R nr Hardin								
	JUN-JUL			45	67%			67
	JUN-SEP			58	70%			83
Tongue R nr Dayton[2]								
	JUN-JUL			38	66%			58
	JUN-SEP			50	70%			71
Big Goose Ck nr Sheridan								
Little Goose Ck nr Bighorn								
Tongue River Reservoir Inflow[2]								
	JUN-JUL			73	58%			126
	JUN-SEP			97	63%			153
Yellowstone R at Miles City[2]								
	JUN-JUL			3000	83%			3600
	JUN-SEP			3830	86%			4450
Powder R at Moorehead								
	JUN-JUL			61	58%			105
	JUN-SEP			82	64%			128
Powder R nr Locate								
	JUN-JUL			56	48%			116
	JUN-SEP			80	57%			141
Yellowstone R nr Sidney[2]								
	JUN-JUL			3000	82%			3650
	JUN-SEP			3810	85%			4460

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