

# RECLAMATION

## *Managing Water in the West*

November 1, 2009

Dear Customer:

Attached is the monthly water supply outlook and projected reservoir and river operating plans prepared in October. Streamflows into Canyon Ferry improved from 61 percent of average during September to about 88 percent of average during October. The November 1 forecast indicates the runoff into Canyon Ferry during November is expected to be about 82 percent average. With storage in Canyon Ferry at 99 percent of average for this time of year, plans under the most probable runoff scenario are to maintain releases to the Missouri River downstream of Holter Dam at or above 4,100 cfs. If you have any questions or concerns or need further information, please call me during the day at (406) 247-7318.

Tim H. Felchle  
Reservoir and River Operations



U. S. Department of the Interior  
Bureau of Reclamation  
Montana Area Office  
River and Reservoir Operations

**CANYON FERRY RESERVOIR OPERATIONS**  
**Water Supply Forecasts and Reservoir Operations**  
**November 1, 2009**

**Present Elevation & Storage:** 3791.68 & 1,717,545 acre-feet (99 percent of average)

**Actual Inflows (1,000 Acre-Feet):**

<u>Month</u>	<u>Inflow</u>	<u>Percent of Normal</u>
April	359.2	103
May	650.0	113
June	766.9	100
July	311.6	92
<b>April-July, 2008</b>	<b>2,087.7</b>	<b>103</b>
August	168.0	98
September	129.7	61
<b>WY-2009 Total</b>	<b>3,637.5</b>	<b>92</b>
October	251.1	88

**November 1 Runoff Forecast – November Inflow (1,000 Acre-Feet):**

<u>Agency</u>	<u>Inflow</u>	<u>Percent of Normal</u>
USBR	242.8	82
NRCS	N.A.	N.A.
<u>CORPS</u>	<u>N.A.</u>	<u>N.A.</u>
<b>Average</b>	<b>242.8</b>	<b>82</b>

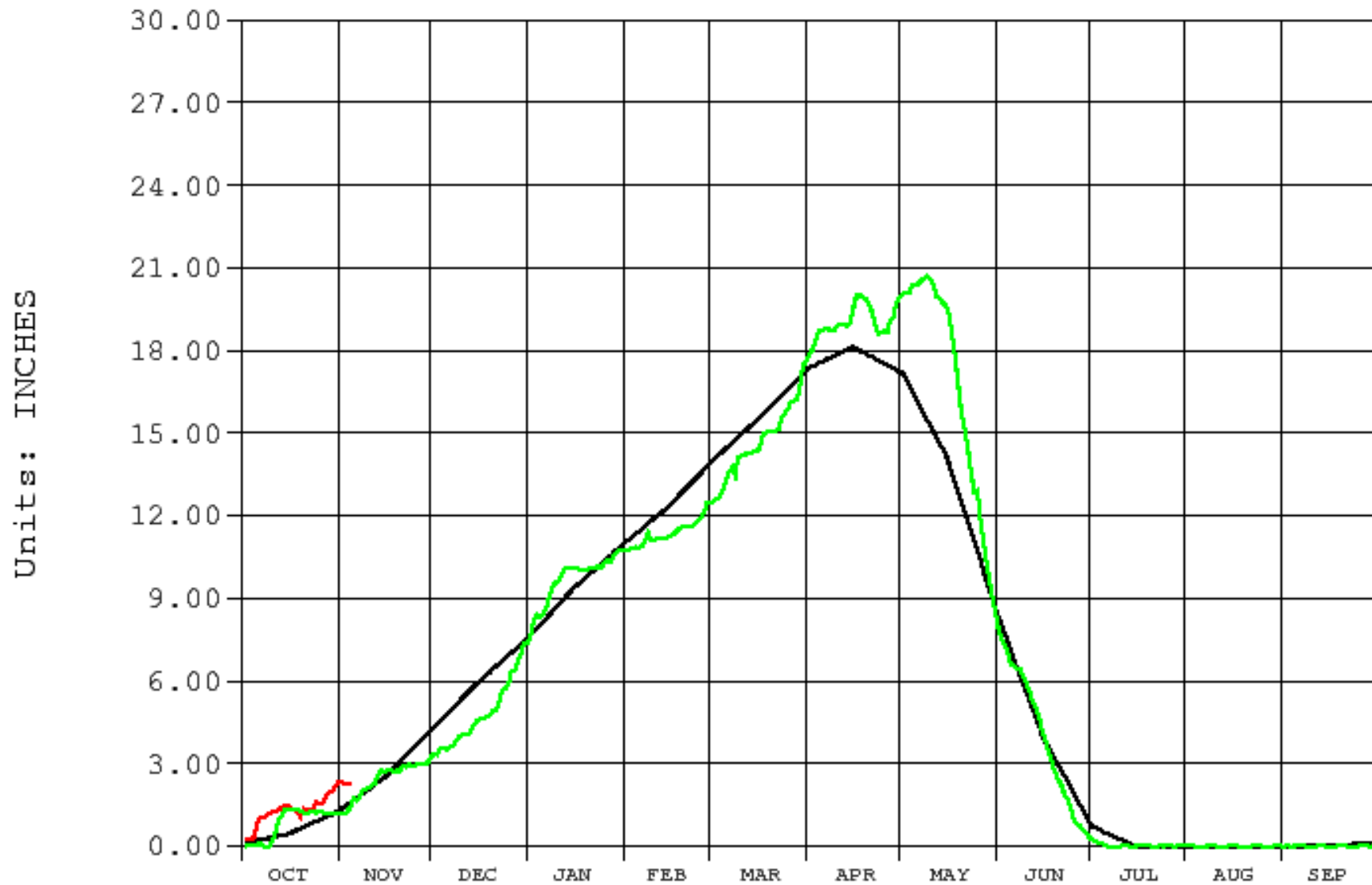
**Snowpack Conditions:**

S N O W - P R E C I P I T A T I O N U P D A T E  
As of SUNDAY: NOVEMBER 1 , 2009

BASIN Data Site Name	ELEV. (Ft)	SNOW WATER EQUIVALENT			TOTAL PRECIPITATION		
		Current	Average	Avg %	Current	Average	Avg %
JEFFERSON RIVER BASIN							
ALBRO LAKE	8300	5.8	2.0	290	6.6	3.1	213
BARKER LAKES	8250	7.2	2.1	343	7.4	2.3	322
BASIN CREEK	7180	2.3	1.0	230	2.8	1.5	187
BEAGLE SPRINGS	8850	4.6	.6	767	5.1	1.5	340
BLOODY DICK	7600	.5	.7	71	2.6	1.8	144
CALVERT CREEK	6430	.0	.2	0	1.6	1.1	145
CLOVER MEADOW	8600	3.4	2.3	148	4.5	2.3	196
DARKHORSE LAKE	8600	5.8	2.2	264	5.5	2.8	196
DIVIDE	7800	1.0	.9	111	2.6	1.5	173
FROHNER MEADOW	6480	.4	.5	80	3.1	1.9	163
LAKEVIEW RIDGE	7400	.2	.7	29	3.6	2.0	180
LEMHI RIDGE	8100	2.3	.7	329	3.5	1.7	206
LOWER TWIN	7900	3.5	1.9	184	5.0	2.9	172
MOOSE CREEK	6200	.4	.7	57	2.3	1.8	128
MULE CREEK	8300	3.6	1.1	327	4.3	1.9	226
ROCKER PEAK	8000	3.8	1.4	271	3.9	1.8	217
SADDLE MTN.	7940	1.4	1.3	108	2.4	2.2	109
SHORT CREEK	7000	.6	.6	100	2.5	1.6	156
WHITE ELEPHANT	7710	1.1	1.2	92	3.3	2.7	122

Basin wide percent of average				217			189
MADISON RIVER BASIN							
ALBRO LAKE	8300	5.8	2.0	290	6.6	3.1	213
BEAVER CREEK	7850	2.1	1.3	162	3.8	2.4	158
BLACK BEAR	8170	4.7	2.8	168	6.0	3.4	176
CARROT BASIN	9000	4.6	3.0	153	5.1	3.1	165
CLOVER MEADOW	8600	3.4	2.3	148	4.5	2.3	196
LONE MOUNTAIN	8880	3.2	1.4	229	4.2	2.6	162
LOWER TWIN	7900	3.5	1.9	184	5.0	2.9	172
MADISON PLATEAU	7750	2.3	1.6	144	5.2	2.5	208
TEPEE CREEK	8000	1.4	.9	156	2.1	1.6	131
WEST YELLOWSTONE	6700	.3	.4	75	2.6	1.4	186
WHISKEY CREEK	6800	.3	.8	37	3.3	2.2	150
Basin wide percent of average				172			176
GALLATIN RIVER BASIN							
BEAVER CREEK	7850	2.1	1.3	162	3.8	2.4	158
BRACKETT CREEK	7320	3.1	1.1	282	6.2	2.9	214
CARROT BASIN	9000	4.6	3.0	153	5.1	3.1	165
LICK CREEK	6860	1.4	.9	156	3.5	2.4	146
LONE MOUNTAIN	8880	3.2	1.4	229	4.2	2.6	162
SACAJAWEA	6550	1.2	.3	400	5.9	2.6	227
SHOWER FALLS	8100	5.5	2.7	204	4.7	3.6	131
Basin wide percent of average				197			170
MISSOURI HEADWATERS							
ALBRO LAKE	8300	5.8	2.0	290	6.6	3.1	213
BARKER LAKES	8250	7.2	2.1	343	7.4	2.3	322
BASIN CREEK	7180	2.3	1.0	230	2.8	1.5	187
BEAGLE SPRINGS	8850	4.6	.6	767	5.1	1.5	340
BEAVER CREEK	7850	2.1	1.3	162	3.8	2.4	158
BLACK BEAR	8170	4.7	2.8	168	6.0	3.4	176
BLOODY DICK	7600	.5	.7	71	2.6	1.8	144
BRACKETT CREEK	7320	3.1	1.1	282	6.2	2.9	214
CALVERT CREEK	6430	.0	.2	0	1.6	1.1	145
CARROT BASIN	9000	4.6	3.0	153	5.1	3.1	165
CLOVER MEADOW	8600	3.4	2.3	148	4.5	2.3	196
DARKHORSE LAKE	8600	5.8	2.2	264	5.5	2.8	196
DIVIDE	7800	1.0	.9	111	2.6	1.5	173
FROHNER MEADOW	6480	.4	.5	80	3.1	1.9	163
LAKEVIEW RIDGE	7400	.2	.7	29	3.6	2.0	180
LEMHI RIDGE	8100	2.3	.7	329	3.5	1.7	206
LICK CREEK	6860	1.4	.9	156	3.5	2.4	146
LONE MOUNTAIN	8880	3.2	1.4	229	4.2	2.6	162
LOWER TWIN	7900	3.5	1.9	184	5.0	2.9	172
MADISON PLATEAU	7750	2.3	1.6	144	5.2	2.5	208
MOOSE CREEK	6200	.4	.7	57	2.3	1.8	128
MULE CREEK	8300	3.6	1.1	327	4.3	1.9	226
ROCKER PEAK	8000	3.8	1.4	271	3.9	1.8	217
SACAJAWEA	6550	1.2	.3	400	5.9	2.6	227
SADDLE MTN.	7940	1.4	1.3	108	2.4	2.2	109
SHORT CREEK	7000	.6	.6	100	2.5	1.6	156
SHOWER FALLS	8100	5.5	2.7	204	4.7	3.6	131
TEPEE CREEK	8000	1.4	.9	156	2.1	1.6	131
WEST YELLOWSTONE	6700	.3	.4	75	2.6	1.4	186
WHISKEY CREEK	6800	.3	.8	37	3.3	2.2	150
WHITE ELEPHANT	7710	1.1	1.2	92	3.3	2.7	122
Basin wide percent of average				198			181

Archive Data From 1-OCT Through 30-SEP  
Plotted 11/04/2009 12:03



CFR Canyon Ferry Lake, Missouri River near Helena, MT  
SE\_AVG Snow Water Equivalent Average (inches)  
SE Snow Water Equivalent (inches)

2010  
2010 2009

CANYON FERRY LAKE MONTHLY OPERATIONS

Canyon Ferry Reservoir		Initial Cont Elev 1717.5 kaf		3791.68 ft		Maximum Cont Elev 1993.0 kaf		3800.00 ft		Minimum Cont Elev 445.5 kaf		3732.31 ft		Total
2009	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct		
Reservoir Inflow	kaf	242.8	233.2	220.2	231.9	282.2	346.6	603.0	758.6	307.5	162.3	205.1	272.7	3866.1
Evaporation Loss	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HV Canal Diversions	kaf	0.0	0.0	0.0	0.0	4.0	11.0	22.0	17.0	21.0	21.0	12.0	0.0	108.0
HV Pump Turbines	kaf	0.0	0.0	0.0	0.0	5.3	14.9	27.6	18.3	20.9	21.6	12.8	0.0	121.4
Turbine Release	kaf	265.7	314.0	321.4	296.2	322.6	302.5	357.7	322.3	273.8	222.8	221.9	240.9	3461.8
Turbine Release	cfs	4465	5107	5227	5333	5247	5084	5818	5417	4453	3623	3729	3918	
Spill/Waste	kaf	0.0	0.0	0.0	0.0	0.0	0.0	15.2	106.4	0.0	0.0	0.0	0.0	121.6
River Release	kaf	265.7	314.0	321.4	296.2	327.9	317.4	400.5	447.0	294.7	244.4	234.7	240.9	3704.8
River Release	cfs	4465	5107	5227	5333	5333	5334	6514	7512	4793	3975	3944	3918	
Min Release	cfs	3936	3939	3928	3893	3880	3911	3959	3707	3981	3975	3944	3918	
Total Dam Release	kaf	265.7	314.0	321.4	296.2	331.9	328.4	422.5	464.0	315.7	265.4	246.7	240.9	3812.8
Total Dam Release	cfs	4465	5107	5227	5333	5398	5519	6871	7798	5134	4316	4146	3918	
End-Month Content	kaf	1694.6	1613.8	1512.6	1448.3	1398.6	1416.8	1597.3	1891.9	1883.7	1780.6	1739.0	1770.8	
End-Month Elevation	ft	3791.0	3788.4	3785.2	3783.1	3781.4	3782.0	3787.9	3797.0	3796.8	3793.6	3792.3	3793.3	
Net Change	kaf	-22.9	-80.8	-101.2	-64.3	-49.7	18.2	180.5	294.6	-8.2	-103.1	-41.6	31.8	53.3
Canyon Ferry Power	2009	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Turbine Release	cfs	4465	5107	5227	5333	5247	5084	5818	5417	4453	3623	3729	3918	
Tailwater Elev	ft	3650.9	3651.0	3651.0	3651.0	3651.0	3651.0	3651.1	3651.3	3650.9	3650.8	3650.8	3650.8	
Average Head	ft	140.4	138.7	135.8	133.1	131.2	130.7	133.9	141.2	146.0	144.4	142.2	142.0	
Average Power	mw	49.5	56.0	56.0	55.8	54.3	52.6	60.0	60.0	51.0	39.9	40.8	43.2	
Average Kwh/Af		134	133	130	127	125	125	125	134	139	133	132	133	130
Generation	gwh	35.647	41.649	41.664	37.518	40.369	37.858	44.640	43.200	37.951	29.693	29.383	32.148	451.720
End-Month Power Cap	mw	60	60	60	60	60	60	60	60	60	60	60	60	
Hauser	2009	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Missouri Gain	kaf	8.4	8.8	9.0	9.3	10.2	9.0	5.4	13.1	1.3	3.3	5.2	9.1	92.1
End-Month Content	kaf	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	
Release	kaf	274.1	322.8	330.4	305.5	338.1	326.4	405.9	460.1	296.0	247.7	239.9	250.0	3796.9
Release	cfs	4606	5250	5373	5501	5499	5485	6601	7732	4814	4028	4032	4066	
Turbine Release	cfs	4606	4740	4740	4740	4740	4740	4740	4740	4740	4028	4032	4066	
Turbine Bypass	cfs	0	510	633	761	759	745	1861	2992	74	0	0	0	
Generation	gwh	11.541	12.272	12.272	11.085	12.272	11.877	12.272	11.877	12.272	10.429	10.103	10.527	138.799
Holter	2009	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Missouri Gain	kaf	1.4	1.1	1.6	2.2	3.3	2.3	3.3	10.3	6.0	4.4	4.1	2.1	42.1
End-Month Content	kaf	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	
Release	kaf	275.5	323.9	332.0	307.7	341.4	328.7	409.2	470.4	302.0	252.1	244.0	252.1	3839.0
Release	cfs	4630	5268	5399	5540	5552	5524	6655	7905	4912	4100	4101	4100	
Min Release	cfs	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	
Turbine Release	cfs	4630	5268	5399	5540	5552	5524	6655	7100	4912	4100	4101	4100	
Turbine Bypass	cfs	0	0	0	0	0	0	0	805	0	0	0	0	
Generation	gwh	23.469	27.593	28.279	26.209	29.080	28.000	34.857	35.988	25.728	21.475	20.787	21.475	322.940

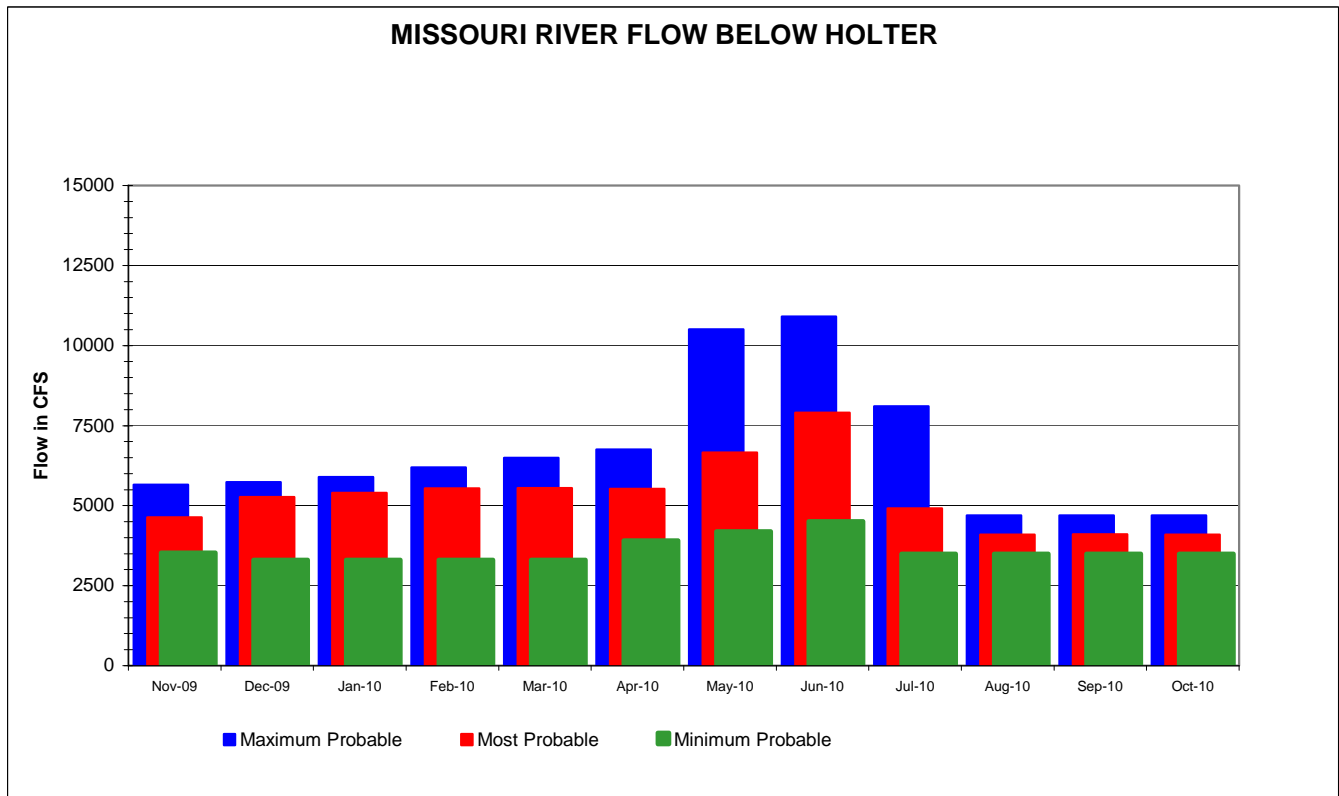
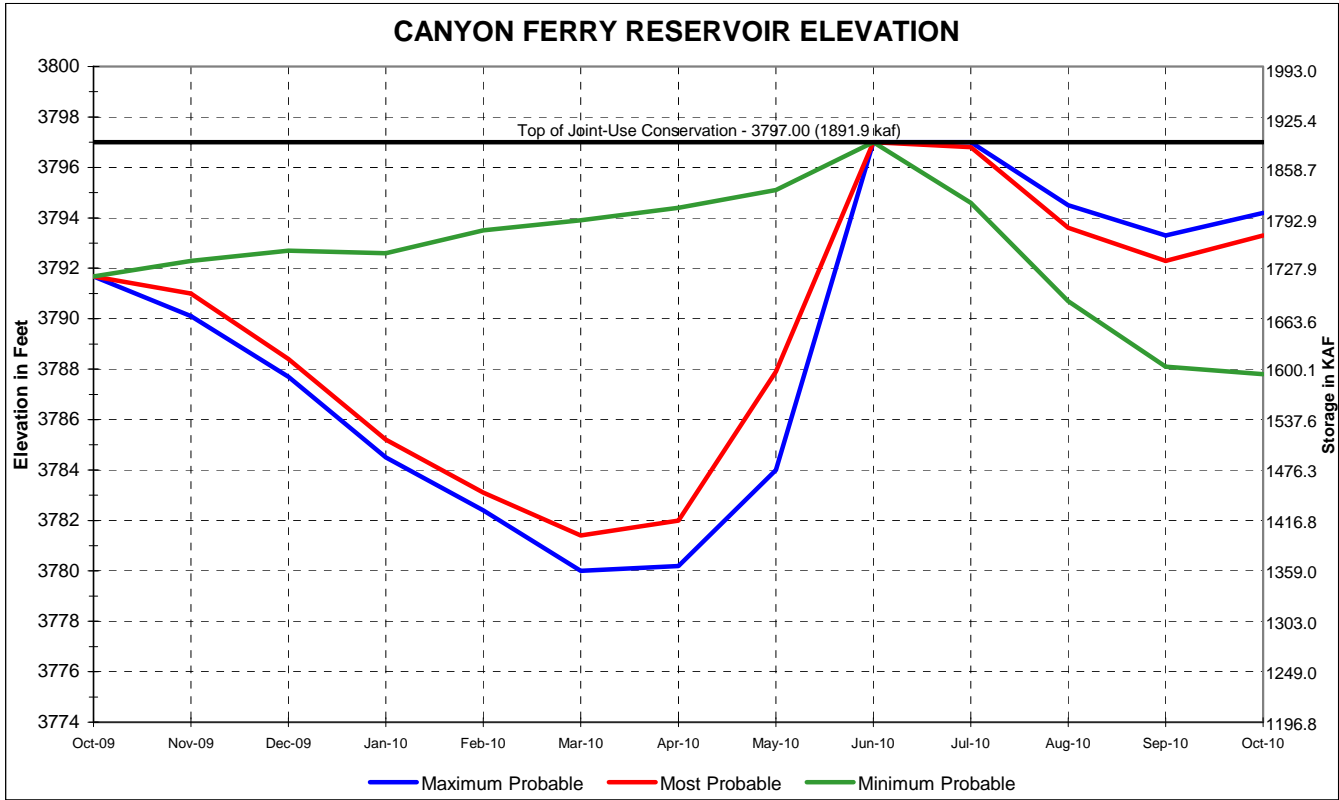
CANYON FERRY LAKE MONTHLY OPERATIONS

Canyon Ferry Reservoir		Initial Cont		1717.5 kaf		Maximum Cont		1993.0 kaf		Minimum Cont		445.5 kaf		Total
2009		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
Reservoir Inflow	kaf	223.0	210.6	193.1	203.8	211.2	249.8	301.7	338.7	151.5	103.2	134.8	204.0	2525.4
Evaporation Loss	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HV Canal Diversions	kaf	0.0	0.0	0.0	0.0	4.0	11.0	22.0	17.0	21.0	21.0	12.0	4.0	112.0
HV Pump Turbines	kaf	0.0	0.0	0.0	0.0	4.2	11.5	22.8	17.2	21.3	22.6	13.7	4.7	118.0
Turbine Release	kaf	203.9	195.2	198.3	175.0	188.2	212.5	233.5	241.2	187.3	188.6	190.4	205.0	2419.1
Turbine Release	cfs	3427	3175	3225	3151	3061	3571	3798	4054	3046	3067	3200	3334	
Spill/Waste	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
River Release	kaf	203.9	195.2	198.3	175.0	192.4	224.0	256.3	258.4	208.6	211.2	204.1	209.7	2537.1
River Release	cfs	3427	3175	3225	3151	3129	3764	4168	4343	3393	3435	3430	3410	
Min Release	cfs	3427	3175	3225	3151	3129	3151	3274	3138	3393	3435	3430	3410	
Total Dam Release	kaf	203.9	195.2	198.3	175.0	196.4	235.0	278.3	275.4	229.6	232.2	216.1	213.7	2649.1
Total Dam Release	cfs	3427	3175	3225	3151	3194	3949	4526	4628	3734	3776	3632	3475	
End-Month Content	kaf	1736.6	1752.0	1746.8	1775.6	1790.4	1805.2	1828.6	1891.9	1813.8	1684.8	1603.5	1593.8	
End-Month Elevation	ft	3792.3	3792.7	3792.6	3793.5	3793.9	3794.4	3795.1	3797.0	3794.6	3790.7	3788.1	3787.8	
Net Change	kaf	19.1	15.4	-5.2	28.8	14.8	14.8	23.4	63.3	-78.1	-129.0	-81.3	-9.7	-123.7
Canyon Ferry Power	2009	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Turbine Release	cfs	3427	3175	3225	3151	3061	3571	3798	4054	3046	3067	3200	3334	
Tailwater Elev	ft	3650.8	3650.8	3650.8	3650.8	3650.8	3650.8	3650.9	3650.9	3650.8	3650.8	3650.8	3650.8	
Average Head	ft	141.2	141.7	141.9	142.2	142.9	143.3	143.8	145.2	145.0	141.9	138.6	137.1	
Average Power	mw	36.7	33.5	34.2	33.2	32.2	39.0	42.1	45.7	32.3	32.1	33.2	34.6	
Average Kwh/Af		129	128	128	128	127	132	134	137	128	127	126	126	129
Generation	gwh	26.395	24.894	25.408	22.337	23.934	28.080	31.315	32.926	24.054	23.860	23.911	25.772	312.886
End-Month Power Cap	mw	60	60	60	60	60	60	60	60	60	60	60	60	
Hauser	2009	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Missouri Gain	kaf	4.8	7.1	4.5	7.2	8.6	7.8	0.4	1.9	1.9	0.9	1.8	4.0	50.9
End-Month Content	kaf	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	
Release	kaf	208.7	202.3	202.8	182.2	201.0	231.8	256.7	260.3	210.5	212.1	205.9	213.7	2588.0
Release	cfs	3507	3290	3298	3281	3269	3896	4175	4374	3423	3449	3460	3475	
Turbine Release	cfs	3507	3290	3298	3281	3269	3896	4175	4374	3423	3449	3460	3475	
Turbine Bypass	cfs	0	0	0	0	0	0	0	0	0	0	0	0	
Generation	gwh	8.787	8.518	8.539	7.673	8.464	9.762	10.810	10.959	8.863	8.930	8.669	8.997	108.971
Holter	2009	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Missouri Gain	kaf	1.3	0.6	0.1	1.1	1.9	1.1	1.2	7.8	4.7	3.1	2.4	1.5	26.8
End-Month Content	kaf	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	
Release	kaf	210.0	202.9	202.9	183.3	202.9	232.9	257.9	268.1	215.2	215.2	208.3	215.2	2614.8
Release	cfs	3529	3300	3300	3300	3300	3914	4194	4506	3500	3500	3501	3500	
Min Release	cfs	3530	3300	3300	3300	3300	3300	3300	3300	3500	3500	3500	3500	
Turbine Release	cfs	3529	3300	3300	3300	3300	3914	4194	4506	3500	3500	3501	3500	
Turbine Bypass	cfs	0	0	0	0	0	0	0	0	0	0	0	0	
Generation	gwh	17.888	17.285	17.285	15.612	17.285	19.839	21.967	22.840	18.332	18.332	17.746	18.332	222.743

CANYON FERRY LAKE MONTHLY OPERATIONS

Canyon Ferry Reservoir		Initial Cont Elev 3791.68 ft		1717.5 kaf		Maximum Cont Elev 3800.00 ft		1993.0 kaf		Minimum Cont Elev 3732.31 ft		445.5 kaf		Total
	2009	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
Reservoir Inflow	kaf	275.0	264.3	252.4	265.7	316.5	402.7	758.3	1031.8	496.5	209.6	235.4	306.6	4814.8
Evaporation Loss	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HV Canal Diversions	kaf	0.0	0.0	0.0	0.0	4.0	11.0	22.0	17.0	21.0	21.0	12.0	4.0	112.0
HV Pump Turbines	kaf	0.0	0.0	0.0	0.0	5.5	15.5	29.5	19.0	20.9	21.3	12.6	4.2	128.5
Turbine Release	kaf	325.4	341.1	350.8	329.2	376.6	371.7	376.1	328.5	322.2	249.6	251.4	268.0	3890.6
Turbine Release	cfs	5469	5547	5705	5928	6125	6247	6116	5521	5240	4059	4225	4359	
Spill/Waste	kaf	0.0	0.0	0.0	0.0	0.0	0.0	216.5	252.9	132.4	0.0	0.0	0.0	601.8
River Release	kaf	325.4	341.1	350.8	329.2	382.1	387.2	622.1	600.4	475.5	270.9	264.0	272.2	4620.9
River Release	cfs	5469	5547	5705	5928	6214	6507	10117	10090	7733	4406	4437	4427	
Min Release	cfs	5099	3915	3915	3833	3825	3850	3711	3284	3731	3807	3838	3828	
Total Dam Release	kaf	325.4	341.1	350.8	329.2	386.1	398.2	644.1	617.4	496.5	291.9	276.0	276.2	4732.9
Total Dam Release	cfs	5469	5547	5705	5928	6279	6692	10475	10376	8075	4747	4638	4492	
End-Month Content	kaf	1667.1	1590.3	1491.9	1428.4	1358.8	1363.3	1477.5	1891.9	1891.9	1809.6	1769.0	1799.4	
End-Month Elevation	ft	3790.1	3787.7	3784.5	3782.4	3780.0	3780.2	3784.0	3797.0	3797.0	3794.5	3793.3	3794.2	
Net Change	kaf	-50.4	-76.8	-98.4	-63.5	-69.6	4.5	114.2	414.4	0.0	-82.3	-40.6	30.4	81.9
Canyon Ferry Power	2009	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Turbine Release	cfs	5469	5547	5705	5928	6125	6247	6116	5521	5240	4059	4225	4359	
Tailwater Elev	ft	3651.0	3651.0	3651.0	3651.1	3651.1	3651.1	3651.7	3651.7	3651.3	3650.9	3650.9	3650.9	
Average Head	ft	139.9	137.9	135.1	132.4	130.1	129.0	130.4	139.0	145.7	144.9	143.0	142.8	
Average Power	mw	59.9	59.8	59.8	60.0	59.9	59.8	60.0	60.0	60.0	45.7	47.3	49.0	
Average Kwh/Af		133	130	127	122	118	116	119	132	139	136	136	136	128
Generation	gwh	43.150	44.461	44.461	40.286	44.551	43.063	44.640	43.200	44.640	34.016	34.085	36.419	496.972
End-Month Power Cap	mw	60	60	60	60	60	60	60	60	60	60	60	60	
Hauser	2009	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Missouri Gain	kaf	9.3	9.4	8.9	11.9	13.3	11.8	17.2	34.1	13.3	10.8	10.0	13.0	163.0
End-Month Content	kaf	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	
Release	kaf	334.7	350.5	359.7	341.1	395.4	399.0	639.3	634.5	488.8	281.7	274.0	285.2	4783.9
Release	cfs	5625	5700	5850	6142	6431	6705	10397	10663	7950	4581	4605	4638	
Turbine Release	cfs	4740	4740	4740	4740	4740	4740	4740	4740	4740	4581	4605	4638	
Turbine Bypass	cfs	885	960	1110	1402	1691	1965	5657	5923	3210	0	0	0	
Generation	gwh	11.877	12.272	12.272	11.085	12.272	11.877	12.272	11.877	12.272	11.861	11.538	12.008	143.483
Holter	2009	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Missouri Gain	kaf	2.0	2.0	2.5	2.9	3.6	3.1	6.7	14.5	9.4	7.2	5.6	3.7	63.2
End-Month Content	kaf	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	
Release	kaf	336.7	352.5	362.2	344.0	399.0	402.1	646.0	649.0	498.2	288.9	279.6	288.9	4847.1
Release	cfs	5658	5733	5891	6194	6489	6758	10506	10907	8102	4699	4699	4699	
Min Release	cfs	5289	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	
Turbine Release	cfs	5658	5733	5891	6194	6489	6758	7100	7100	7100	4699	4699	4699	
Turbine Bypass	cfs	0	0	0	0	0	0	3406	3807	1002	0	0	0	
Generation	gwh	28.679	30.028	30.856	29.303	33.988	34.255	37.188	35.988	37.188	24.612	23.818	24.612	370.515

# CANYON FERRY RESERVOIR



WATER YEAR 2010