

RECLAMATION

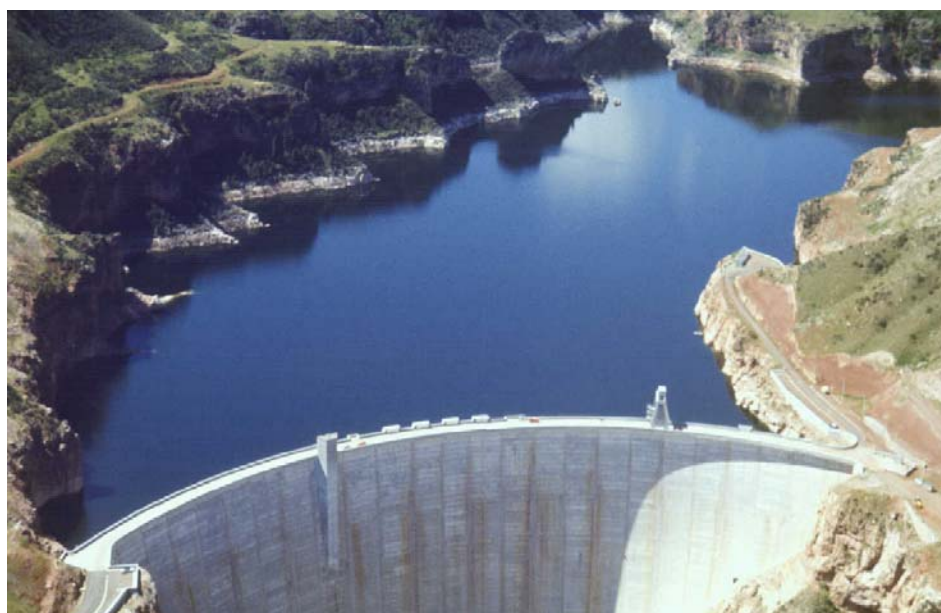
Managing Water in the West

July 1, 2008

Dear Customer:

Attached are the monthly water supply outlook and projected reservoir and river operating plans prepared in July 2008. Storage in Bighorn Lake on July 1 was at 103 percent of average and 12.44 feet higher than on June 1. Based on the remaining snowpack and projected releases out of Boysen and Buffalo Bill Reservoirs during July, the July inflow to Bighorn Lake is forecast at 313,000 acre-feet or 108 percent of average. If you have any questions or concerns, please feel free to call me 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

YELLOWTAIL RESERVOIR OPERATIONS
 Water Supply Forecasts and Reservoir Operations
 July 1, 2008

Present Elevations & Storages:

<u>Reservoir</u>	<u>Elevation</u>	<u>Storage</u>	<u>Percent of Normal</u>
Boysen	4718.37	620,136	---
Buffalo Bill	5384.91	578,615	---
Bighorn Lake	3639.29	1,061,166	103

Actual Inflows (1,000 Acre-Feet):

<u>Month</u>	<u>Inflow</u>	<u>Percent of Normal</u>
<i>April-July, 2007</i>	<i>614.1</i>	<i>51</i>
<i>WY-2007 Total</i>	<i>1,364.2</i>	<i>54</i>
October	138.7	76
November	95.8	63
December	66.3	48
January	66.3	50
February	68.0	50
March	86.1	51
April	80.9	50
May	291.6	118
June	595.1	144

Actual Gains Between Boysen and Buffalo Bill to Yellowtail (1,000 Acre-Feet):

<u>Month</u>	<u>Gains</u>	<u>Percent of Normal</u>
<i>April-July, 2007</i>	<i>188.2</i>	<i>60</i>
<i>WY-2007 Total</i>	<i>462.0</i>	<i>64</i>
October	92.9	118
November	63.2	98
December	32.3	71
January	32.2	69
February	36.0	63
March	52.2	68
April	20.7	45
May	120.4	143
June	179.7	118

July Forecast of July Runoff (1,000 Acre-Feet):

<u>Agency</u>	<u>Gains</u>	<u>Percent of Normal</u>
USBR	20.9	----
USBR	313.0	108

Snowpack Conditions:

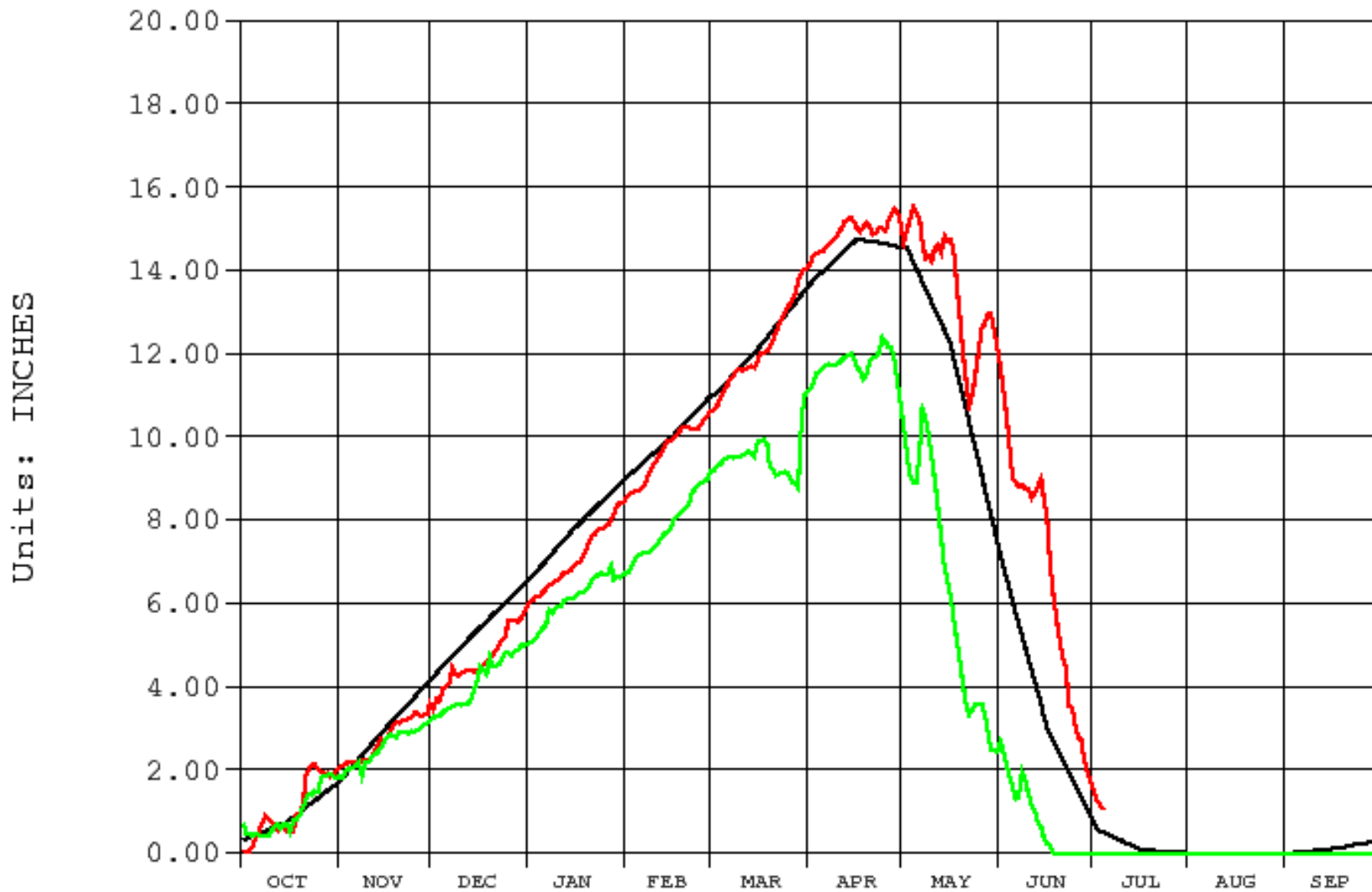
S N O W - P R E C I P I T A T I O N U P D A T E
 Based on Mountain Data from NRCS SNOTEL Sites
 As of TUESDAY: JULY 1 , 2008

BASIN Data Site Name	ELEV. (Ft)	SNOW WATER EQUIVALENT			TOTAL PRECIPITATION		
		Current	Average	Avg %	Current	Average	Avg %
UPPER YELLOWSTONE RIVER BASIN							
BEARTOOTH LAKE	9360	11.7	2.1	557	34.5	29.8	116
BOX CANYON	6670	.0	.0	100	23.3	20.6	113
BRACKETT CREEK	7320	.0	.0	100	44.7	42.3	106
BURNT MTN	5880	.0	.0	100	22.2	28.6	78
CANYON	7870	.0	.0	100	28.8	22.7	127
COLE CREEK	7850	.0	.8	0	23.9	30.9	77
EVENING STAR	9200	10.5	4.6	228	51.6	37.9	136
FISHER CREEK	9100	20.8	5.7	365	52.8	50.5	105

MONUMENT PEAK	8850	.0	.5	0	34.2	32.1	107
NORTHEAST ENTRANCE	7350	.0	.0	100	22.0	20.2	109
PARKER PEAK	9400	3.8	2.0	190	40.5	26.1	155
PLACER BASIN	8830	.0	1.0	0	34.2	32.6	105
PORCUPINE	6500	.0	.0	100	23.4	21.9	107
SACAJAWEA	6550	.0	.0	100	44.7	38.0	118
SHOWER FALLS	8100	15.7	2.4	654	50.1	42.1	119
S FORK SHIELDS	8100	.0	.0	100	39.1	35.7	110
SYLVAN LAKE	8420	.0	.0	100	40.5	32.1	126
SYLVAN ROAD	7120	.0	.0	100	31.6	25.8	122
THUMB DIVIDE	7980	.1	.0		29.2	26.8	109
TWO OCEAN PLATEAU	9240	13.4	6.0	223	44.3	39.2	113
WHITE MILL	8700	5.2	1.2	433	38.8	38.5	101
WOLVERINE	7650	.0	.0	100	23.1	20.5	113
YOUNTS PEAK	8350	.0	.0	100	26.0	24.7	105
Basin wide percent of average				308			112
WIND RIVER BASIN (WYOMING)							
BURROUGHS CREEK	8750	.0	.0	100	26.2	24.7	106
COLD SPRINGS	9630	.0	.0	100	18.5	19.4	95
DEER PARK	9700	.0	.0	100	31.1	33.4	93
HOBBS PARK	10100	.0	.8	0	25.7	23.4	110
KIRWIN	9550	.0	.0	100	23.5	20.4	115
LITTLE WARM	9370	.0	.0	100	22.7	22.2	102
OWL CREEK	8975	.0	.0	100	13.8	13.5	102
SOUTH PASS	9040	.0	.0	100	27.6	28.1	98
ST. LAWRENCE ALT	8620	-M	.0	*	-M	17.5	*
TOGWOTEE PASS	9580	11.3	2.9	390	41.3	35.0	118
TOWNSEND CREEK	8700	.0	.0	100	22.4	21.0	107
YOUNTS PEAK	8350	.0	.0	100	26.0	24.7	105
Basin wide percent of average				305			105
SHOSHONE RIVER BASIN (WYOMING)							
BLACKWATER	9780	13.6	5.3	257	38.2	32.3	118
EVENING STAR	9200	10.5	4.6	228	51.6	37.9	136
MARQUETTE	8760	.0	.0	100	23.4	21.2	110
SYLVAN LAKE	8420	.0	.0	100	40.5	32.1	126
SYLVAN ROAD	7120	.0	.0	100	31.6	25.8	122
YOUNTS PEAK	8350	.0	.0	100	26.0	24.7	105
Basin wide percent of average				243			121
BIGHORN RIVER BASIN (WYOMING)							
BALD MTN.	9380	.0	.9	0	28.7	28.3	101
BEAR TRAP MEADOW	8200	.0	.0	100	20.2	17.0	119
BLACKWATER	9780	13.6	5.3	257	38.2	32.3	118
BONE SPRINGS DIV	9350	.0	.0	100	29.8	25.6	116
EVENING STAR	9200	10.5	4.6	228	51.6	37.9	136
GRAVE SPRINGS	8550	.0	.0	100	19.5	18.7	104
KIRWIN	9550	.0	.0	100	23.5	20.4	115
MARQUETTE	8760	.0	.0	100	23.4	21.2	110
MIDDLE POWDER	7760	.0	.0	100	19.2	21.8	88
OWL CREEK	8975	.0	.0	100	13.8	13.5	102
POWDER RIVER PASS	9480	.0	.0	100	26.7	22.5	119
SHELL CREEK	9580	.0	.0	100	27.9	23.9	117
SYLVAN LAKE	8420	.0	.0	100	40.5	32.1	126
SYLVAN ROAD	7120	.0	.0	100	31.6	25.8	122
TIMBER CREEK	7950	.0	.0	100	20.3	16.7	122
YOUNTS PEAK	8350	.0	.0	100	26.0	24.7	105
Basin wide percent of average				223			115

Archive Data From 1-OCT Through 30-SEP

Plotted 07/03/2008 14:00



BHR Bighorn Lake (Yellowtail), Bighorn River near Fort Smith, MT

SE_AVG Snow Water Equivalent Average (inches)

2008

SE Snow Water Equivalent (inches)

2008 2007

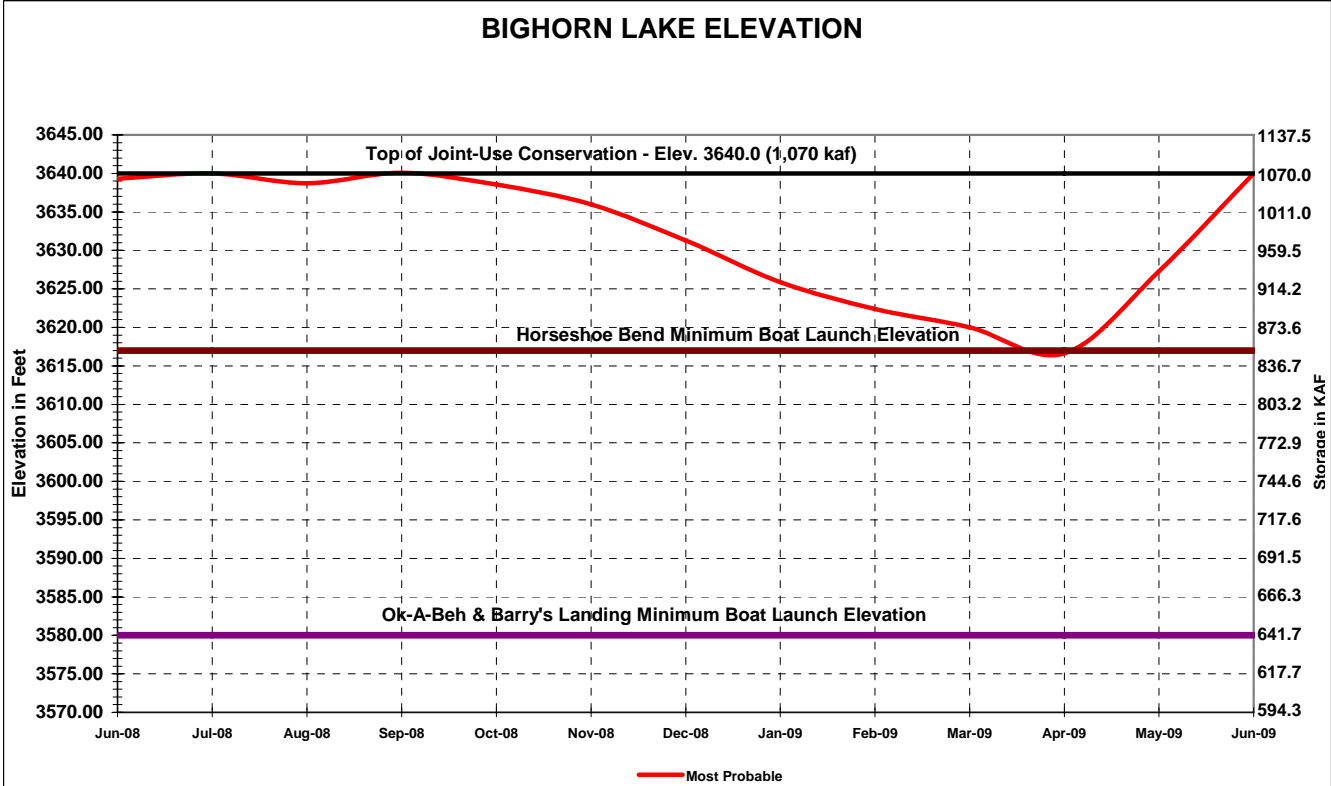
BHXAOP V1.12 Run: 08-Jul-2008 12:06
 Based on Most Probable Inflow Forecast

BIGHORN LAKE MONTHLY OPERATIONS

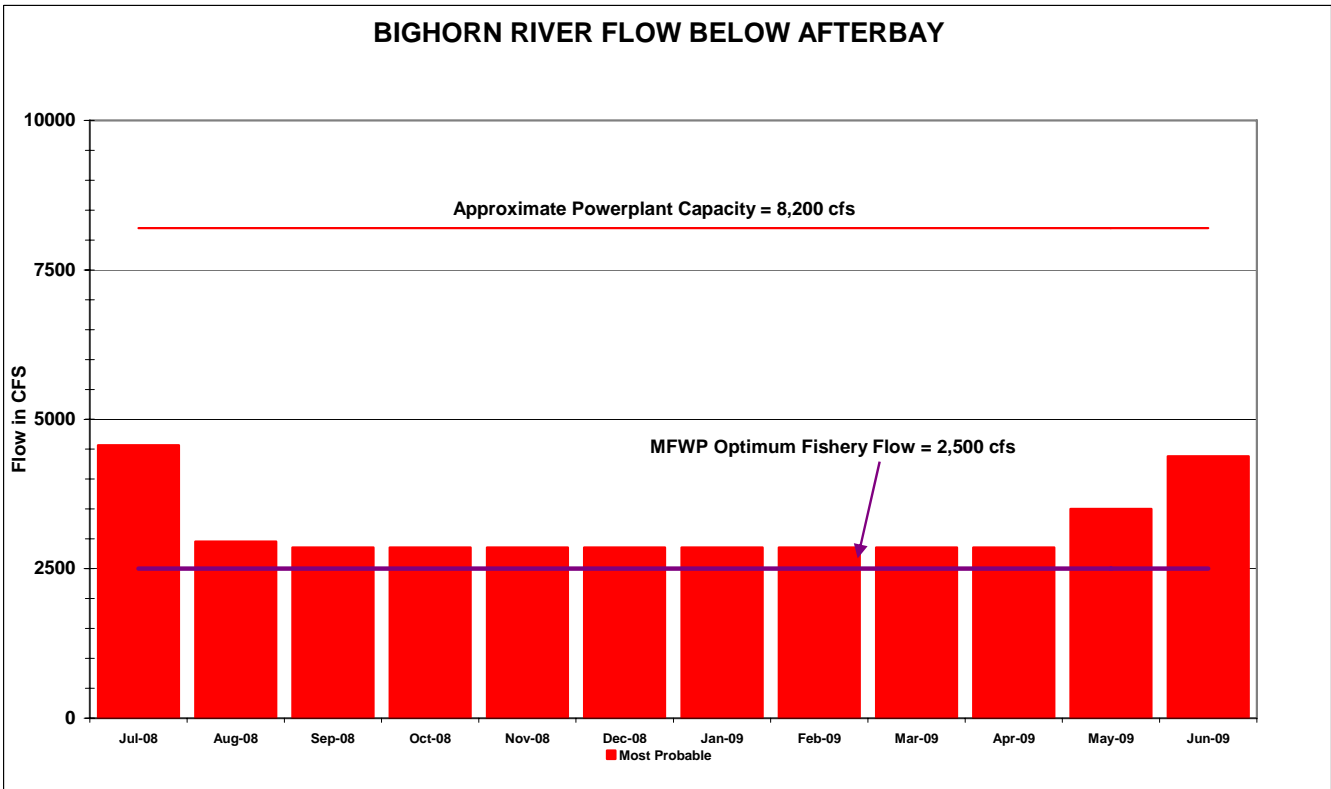
Bighorn Reservoir		Initial Cont 1061.2 kaf Elev 3639.29 ft				Maximum Cont 1328.4 kaf Elev 3657.00 ft				Minimum Cont 493.6 kaf Elev 3547.00 ft				Total
	2008	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
Boysen Release	kaf	79.9	76.8	59.5	49.1	47.5	49.0	49.0	44.3	49.1	65.7	143.0	133.1	846.0
Boysen Release	cfs	1299	1249	1000	799	798	797	797	798	799	1104	2326	2237	
Buffalo Bill Riv Flo	kaf	212.2	99.6	90.5	24.9	20.8	21.5	21.5	19.4	21.5	24.4	94.6	148.8	799.7
Buffalo Bill Riv Flo	cfs	3451	1620	1521	405	350	350	350	349	350	410	1539	2501	
Station Gain	kaf	20.9	11.9	51.5	82.3	67.4	51.1	50.4	62.0	81.7	50.8	84.2	136.9	751.1
Monthly Inflow	kaf	313.0	188.3	201.5	156.3	135.7	121.6	120.9	125.7	152.3	140.9	321.8	418.8	2396.8
Monthly Inflow	cfs	5090	3062	3386	2542	2281	1978	1966	2263	2477	2368	5234	7038	
Turbine Release	kaf	304.2	204.2	184.6	175.4	165.8	171.3	171.3	154.8	171.3	166.3	235.5	283.3	2388.0
Bypass/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
Total Release	kaf	304.2	204.2	184.6	175.4	165.8	171.3	171.3	154.8	171.3	166.3	235.5	283.3	2388.0
Total Release	cfs	4947	3321	3102	2853	2786	2786	2786	2787	2786	2795	3830	4761	
Spring Flow	kaf	4.3	4.3	4.2	4.3	4.2	4.3	4.3	3.9	4.3	4.2	4.3	4.2	50.8
Irrigation Reqmnt	kaf	27.7	26.8	18.8	4.1	0.0	0.0	0.0	0.0	0.0	0.6	24.6	26.8	129.4
Afterbay Rels	kaf	308.5	208.5	188.8	179.7	170.0	175.6	175.6	158.7	175.6	170.5	239.8	287.5	2438.8
Afterbay Rels	cfs	5017	3391	3173	2923	2857	2856	2856	2858	2856	2865	3900	4832	
River Release	kaf	280.8	181.7	170.0	175.6	170.0	175.6	175.6	158.7	175.6	169.9	215.2	260.7	2309.4
River Release	cfs	4567	2955	2857	2856	2857	2856	2856	2858	2856	2855	3500	4381	
Min Release	kaf	153.7	153.7	148.8	153.7	148.8	153.7	153.7	138.8	153.7	169.9	215.2	148.8	1892.5
End-Month Targets	kaf	1070.0								873.6				1070.0
End-Month Content	kaf	1070.0	1054.1	1071.0	1051.9	1021.8	972.1	921.7	892.6	873.6	848.2	934.5	1070.0	
End-Month Elevation	ft	3640.00	3638.71	3640.08	3638.53	3635.96	3631.28	3625.87	3622.40	3620.00	3616.61	3627.31	3640.00	
Net Change Content	kaf	8.8	-15.9	16.9	-19.1	-30.1	-49.7	-50.4	-29.1	-19.0	-25.4	86.3	135.5	8.8
Yellowtail Power	2008	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
Turbine Release	kaf	304.2	204.2	184.6	175.4	165.8	171.3	171.3	154.8	171.3	166.3	235.5	283.3	2388.0
Generation	gwh	124.570	83.533	75.526	71.739	67.317	68.702	67.604	60.279	66.146	63.706	91.201	113.809	954.132
End-Month Power Cap	mw	287.5	286.2	287.6	286.0	283.5	278.9	273.7	270.5	268.2	265.1	275.1	287.5	
% Max Gen		58	39	36	33	32	32	32	31	31	31	43	55	
Ave kwh/af		410	409	409	409	406	401	395	389	386	383	387	402	400
Upstream Generation	gwh	30.289	30.192	27.672	12.065	9.724	10.033	9.994	8.989	9.947	13.050	34.735	34.111	230.801
Total Generation	gwh	154.859	113.725	103.198	83.804	77.041	78.735	77.598	69.268	76.093	76.756	125.936	147.920	1184.933

BIGHORN LAKE

BIGHORN LAKE ELEVATION



BIGHORN RIVER FLOW BELOW AFTERBAY



WATER YEAR 2008