

RECLAMATION

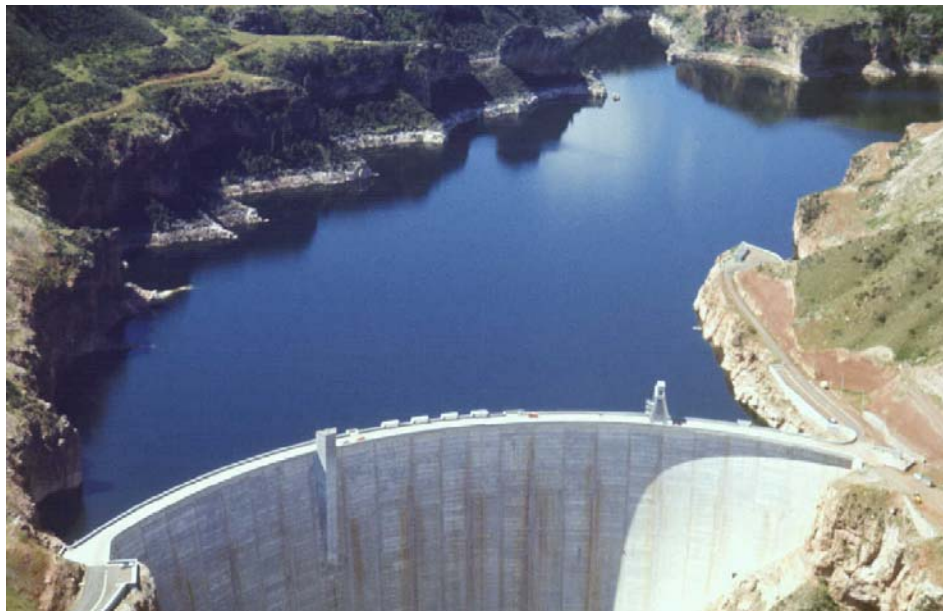
Managing Water in the West

March 1, 2008

Dear Customer:

Attached are the monthly water supply outlook and projected reservoir and river operating plans as prepared in March 2008. Storage in Bighorn Lake at the beginning of March was about 1.5 feet higher than average and 10.0 feet higher than on March 1, 2007. Inflow to Bighorn Lake during February was 50 percent of average, making it the 6th lowest of record for February. The April-July inflow to Bighorn Lake is forecast at 794,000 acre-feet or about 71 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
 March 1, 2008

Present Elevations & Storages:

<u>Reservoir</u>	<u>Elevation</u>	<u>Storage</u>	<u>Percent of Normal</u>
Boysen	4705.27	430,607	---
Buffalo Bill	5367.85	452,198	---
Bighorn Lake	3617.13	852,012	101

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

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

<u>Agency</u>	<u>Gains</u>	<u>Percent of Normal</u>
USBR	257	89
	<u>Inflows</u>	
USBR	794	71

Snowpack Conditions:

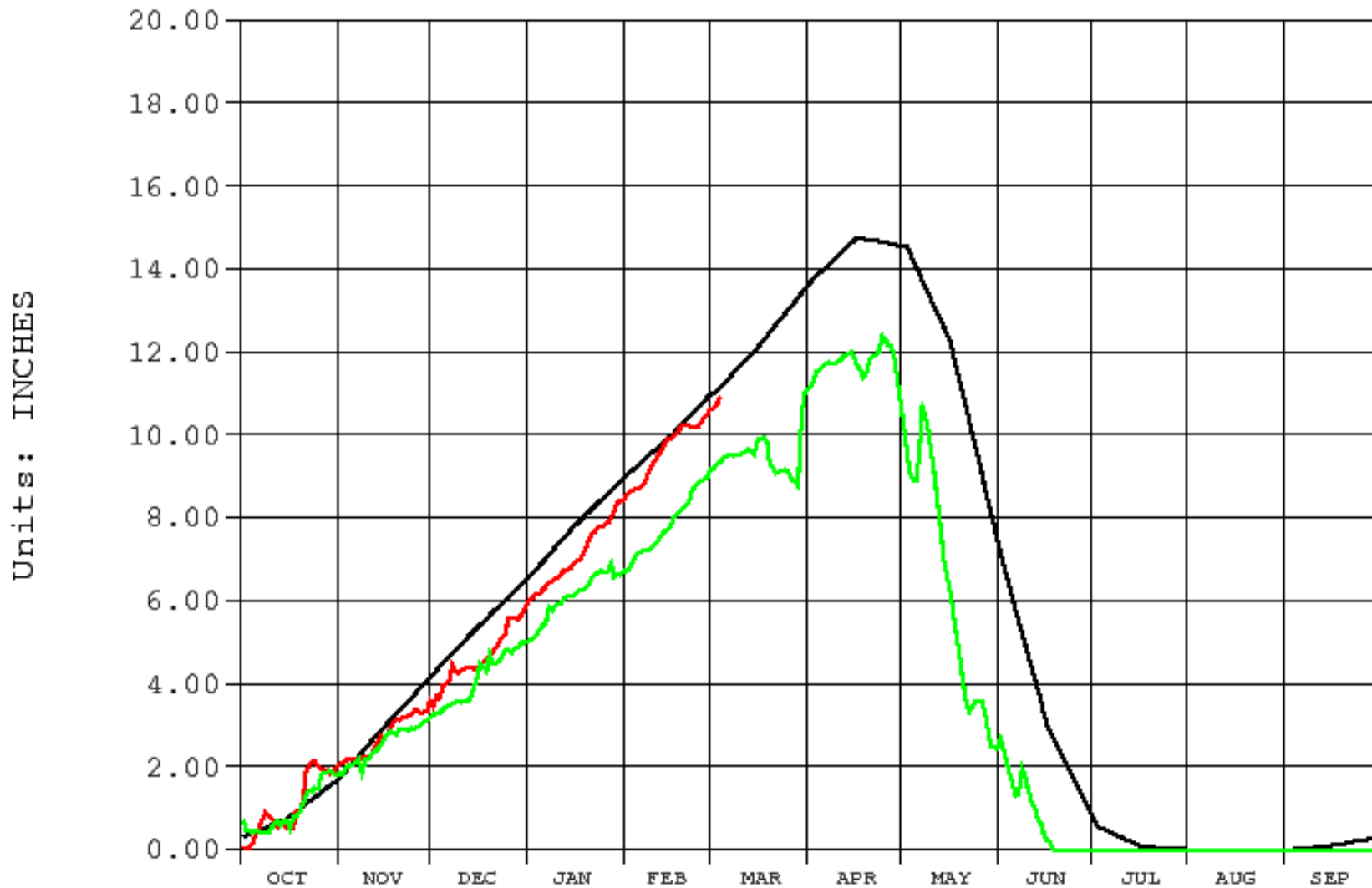
S N O W - P R E C I P I T A T I O N U P D A T E
 Based on Mountain Data from NRCS SNOTEL Sites
 As of SUNDAY: MARCH 2 , 2008

<u>BASIN</u> Data Site Name	<u>ELEV.</u> (Ft)	<u>SNOW WATER EQUIVALENT</u>			<u>TOTAL PRECIPITATION</u>		
		Current	Average	% Avg	Current	Average	% Avg
UPPER YELLOWSTONE RIVER BASIN							
BEARTOOTH LAKE	9360	21.7	19.9	109	20.6	17.2	120
BOX CANYON	6670	9.1	8.5	107	12.3	10.3	119
BRACKETT CREEK	7320	17.0	17.1	99	22.7	20.8	109
BURNT MTN	5880	3.5	5.0	70	7.7	11.4	68
CANYON	7870	14.5	11.4	127	17.9	13.1	137
COLE CREEK	7850	7.3	12.0	61	7.4	12.5	59
EVENING STAR	9200	24.9	25.2	99	-M	21.9	*
FISHER CREEK	9100	36.0	29.9	120	-M	30.8	*
MONUMENT PEAK	8850	20.6	17.3	119	19.3	17.8	108
NORTHEAST ENTRANCE	7350	7.9	9.8	81	11.5	10.9	106
PARKER PEAK	9400	21.8	18.3	119	-M	13.8	*
PLACER BASIN	8830	15.2	14.3	106	15.9	15.2	105

PORCUPINE	6500	5.3	5.8	91	8.7	9.4	93
SACAJAWEA	6550	12.6	12.1	104	21.8	18.7	117
SHOWER FALLS	8100	19.3	17.5	110	23.0	19.2	120
S FORK SHIELDS	8100	11.4	13.7	83	16.1	15.9	101
SYLVAN LAKE	8420	17.7	18.8	94	22.4	18.0	124
SYLVAN ROAD	7120	9.7	11.5	84	18.3	15.7	117
THUMB DIVIDE	7980	14.0	15.5	90	16.6	16.1	103
TWO OCEAN PLATEAU	9240	29.9	23.5	127	23.4	23.6	99
WHITE MILL	8700	23.1	20.5	113	-M	22.9	*
WOLVERINE	7650	8.9	10.7	83	11.2	11.2	100
YOUNTS PEAK	8350	14.2	14.7	97	15.4	13.7	112
Basin wide percent of average				104			107
WIND RIVER BASIN (WYOMING)							
BURROUGHS CREEK	8750	13.2	12.7	104	16.0	13.8	116
COLD SPRINGS	9630	5.5	7.3	75	8.5	8.4	101
DEER PARK	9700	11.6	14.4	81	15.6	18.0	87
HOBBS PARK	10100	10.6	12.0	88	10.9	10.0	109
KIRWIN	9550	10.2	9.2	111	12.2	9.3	131
LITTLE WARM	9370	8.0	9.6	83	11.4	11.0	104
OWL CREEK	8975	4.2	4.2	100	5.5	4.4	125
SOUTH PASS	9040	10.8	14.1	77	13.6	15.1	90
ST. LAWRENCE ALT	8620	5.4	5.9	92	6.9	7.1	97
TOGWOTEE PASS	9580	22.5	20.9	108	24.6	20.8	118
TOWNSEND CREEK	8700	6.4	7.0	91	9.4	9.0	104
YOUNTS PEAK	8350	14.2	14.7	97	15.4	13.7	112
Basin wide percent of average				93			107
SHOSHONE RIVER BASIN (WYOMING)							
BLACKWATER	9780	20.6	20.6	100	19.2	17.3	111
EVENING STAR	9200	24.9	25.2	99	-M	21.9	*
MARQUETTE	8760	3.9	6.9	57	7.4	7.5	99
SYLVAN LAKE	8420	17.7	18.8	94	22.4	18.0	124
SYLVAN ROAD	7120	9.7	11.5	84	18.3	15.7	117
YOUNTS PEAK	8350	14.2	14.7	97	15.4	13.7	112
Basin wide percent of average				93			115
BIGHORN RIVER BASIN (WYOMING)							
BALD MTN.	9380	13.5	16.1	84	12.8	14.2	90
BEAR TRAP MEADOW	8200	6.7	4.4	152	7.0	6.4	109
BLACKWATER	9780	20.6	20.6	100	19.2	17.3	111
BONE SPRINGS DIV	9350	13.5	13.3	102	14.5	11.7	124
EVENING STAR	9200	24.9	25.2	99	-M	21.9	*
GRAVE SPRINGS	8550	7.4	7.4	100	8.3	7.9	105
KIRWIN	9550	10.2	9.2	111	12.2	9.3	131
MARQUETTE	8760	3.9	6.9	57	7.4	7.5	99
MIDDLE POWDER	7760	8.5	9.1	93	7.1	9.7	73
OWL CREEK	8975	4.2	4.2	100	5.5	4.4	125
POWDER RIVER PASS	9480	9.9	8.8	112	11.9	10.1	118
SHELL CREEK	9580	13.2	11.9	111	12.8	10.9	117
SYLVAN LAKE	8420	17.7	18.8	94	22.4	18.0	124
SYLVAN ROAD	7120	9.7	11.5	84	18.3	15.7	117
TIMBER CREEK	7950	3.0	4.2	71	6.5	5.4	120
YOUNTS PEAK	8350	14.2	14.7	97	15.4	13.7	112
Basin wide percent of average				97			112

Archive Data From 1-OCT Through 30-SEP

Plotted 03/02/2008 18:22



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

SE_AVG Snow Water Equivalent Average (inches)

2008

SE Snow Water Equivalent (inches)

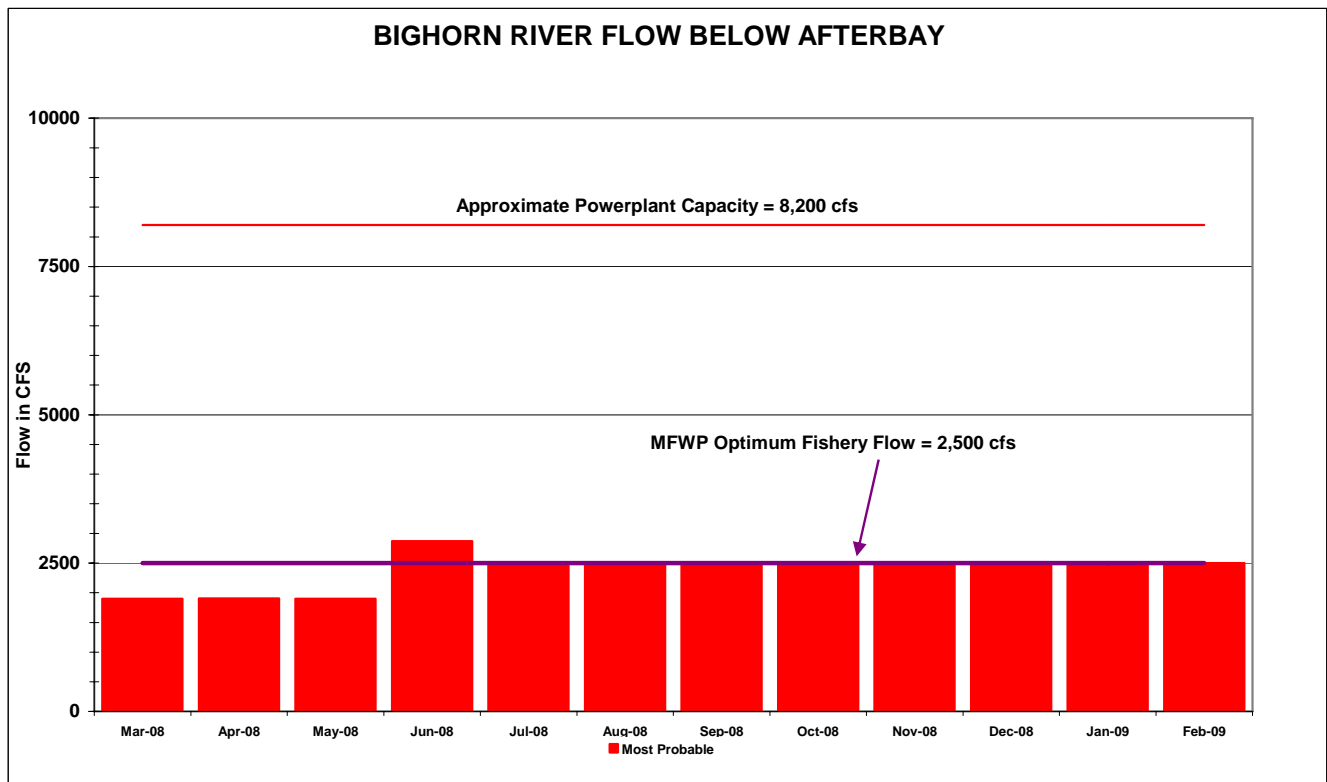
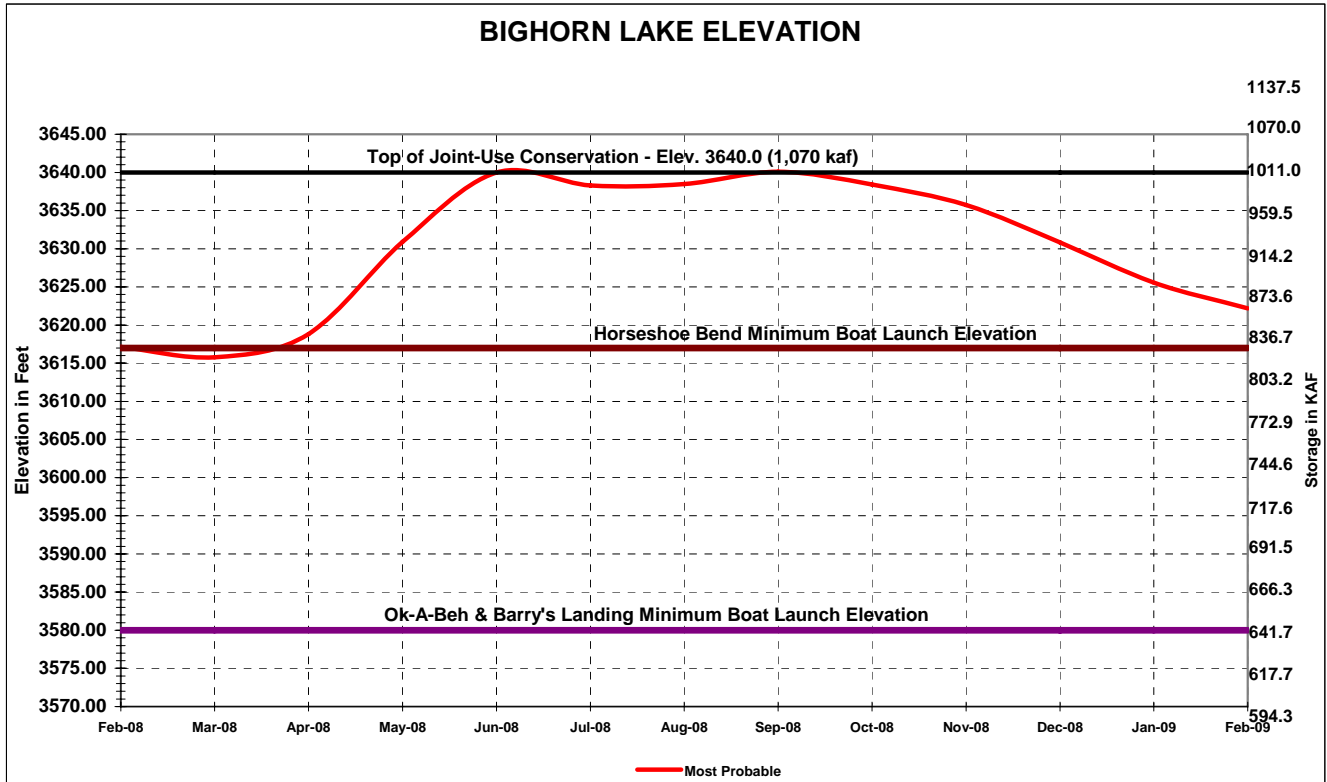
2008 2007

BHXAOP V1.12 Run: 05-Mar-2008 11:42
 Based on Most Probable Inflow Forecast

BIGHORN LAKE MONTHLY OPERATIONS

Bighorn Reservoir		Initial Cont 852.0 kaf Elev 3617.13 ft				Maximum Cont 1328.4 kaf Elev 3657.00 ft				Minimum Cont 493.6 kaf Elev 3547.00 ft				Total
	2008	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Boysen Release	kaf	24.6	44.6	67.6	69.9	76.9	69.2	59.5	30.8	29.8	30.8	30.7	27.8	562.2
Boysen Release	cfs	400	750	1099	1175	1251	1125	1000	501	501	501	499	501	
Buffalo Bill Riv Flo	kaf	9.2	38.7	79.9	79.3	79.7	101.9	78.6	24.9	20.8	21.5	21.5	19.4	575.4
Buffalo Bill Riv Flo	cfs	150	650	1299	1333	1296	1657	1321	405	350	350	350	349	
Station Gain	kaf	68.9	48.5	79.8	129.2	-0.5	7.5	45.0	76.9	63.1	45.3	48.7	59.6	672.0
Monthly Inflow	kaf	102.7	131.8	227.3	278.4	156.1	178.6	183.1	132.6	113.7	97.6	100.9	106.8	1809.6
Monthly Inflow	cfs	1670	2215	3697	4679	2539	2905	3077	2157	1911	1587	1641	1923	
Turbine Release	kaf	112.5	109.5	123.6	176.6	177.1	176.2	163.4	153.5	144.6	149.4	149.4	134.9	1770.7
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	112.5	109.5	123.6	176.6	177.1	176.2	163.4	153.5	144.6	149.4	149.4	134.9	1770.7
Total Release	cfs	1830	1840	2010	2968	2880	2866	2746	2496	2430	2430	2430	2429	
Spring Flow	kaf	4.3	4.2	4.3	4.2	4.3	4.3	4.2	4.3	4.2	4.3	4.3	3.9	50.8
Irrigation Reqmnt	kaf	0.0	0.6	11.1	10.0	27.7	26.8	18.8	4.1	0.0	0.0	0.0	0.0	99.1
Afterbay Rels	kaf	116.8	113.7	127.9	180.8	181.4	180.5	167.6	157.8	148.8	153.7	153.7	138.8	1821.5
Afterbay Rels	cfs	1900	1911	2080	3038	2950	2936	2817	2566	2501	2500	2500	2499	
River Release	kaf	116.8	113.1	116.8	170.8	153.7	153.7	148.8	153.7	148.8	153.7	153.7	138.8	1722.4
River Release	cfs	1900	1901	1900	2870	2500	2500	2501	2500	2501	2500	2500	2499	
Min Release	kaf	116.8	113.1	116.8	139.8	153.7	153.7	148.8	153.7	148.8	153.7	153.7	138.8	1691.4
End-Month Targets	kaf				1070.0	1070.0								
End-Month Content	kaf	842.2	864.5	968.2	1070.0	1049.0	1051.4	1071.1	1050.2	1019.3	967.5	919.0	890.9	
End-Month Elevation	ft	3615.77	3618.81	3630.89	3640.00	3638.29	3638.49	3640.08	3638.39	3635.74	3630.82	3625.56	3622.19	
Net Change Content	kaf	-9.8	22.3	103.7	101.8	-21.0	2.4	19.7	-20.9	-30.9	-51.8	-48.5	-28.1	38.9
Yellowtail Power	2008	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Total
Turbine Release	kaf	112.5	109.5	123.6	176.6	177.1	176.2	163.4	153.5	144.6	149.4	149.4	134.9	1770.7
Generation	gwh	42.879	41.832	48.282	71.316	72.392	71.826	66.827	62.767	58.672	59.852	58.890	52.490	708.025
End-Month Power Cap	mw	264.3	267.1	278.5	287.5	285.8	286.0	287.6	285.9	283.2	278.4	273.4	270.3	
% Max Gen		20	20	23	34	34	34	32	29	28	28	27	27	
Ave kwh/af		381	382	391	404	409	408	409	409	406	401	394	389	400
Upstream Generation	gwh	3.898	14.950	27.721	27.961	29.853	29.172	27.348	10.330	8.077	8.371	8.361	7.549	203.591
Total Generation	gwh	46.777	56.782	76.003	99.277	102.245	100.998	94.175	73.097	66.749	68.223	67.251	60.039	911.616

BIGHORN LAKE



WATER YEAR 2008