

United States Department of the Interior

BUREAU OF RECLAMATION

Great Plains Region Montana Area Office P.O. Box 30137 Billings, Montana 59107-0137 April 9, 2007



Dear Interested Party:

Thank you for taking time to provide us with your comments regarding our proposed Yellowtail Dam and Bighorn Lake spring/summer 2007 operating plan. By my count, slightly more than 50 people attended the Annual Spring Bighorn Basin Interagency Coordination Meeting on March 21, 2007, here in Billings, and we have received several sets of comments on our proposed operating plan.

The past couple of weeks have yielded some interesting climatic variations, and we have been closely monitoring those events. After carefully considering the information before us, we have revised the plan that was presented for comment on March 21. In summary, we are intending to keep releases from Yellowtail Dam at 1500 cubic feet per second (cfs) through May, increase releases in early June to 2000 cfs and maintain 2000 cfs through October, and then increase releases to 2250 cfs for the fall/winter period (if available storage allows).

Under the most probable runoff conditions, this release schedule should enable us to keep a relatively full reservoir pool through the summer, and hopefully provide sufficient fall storage to afford some additional flexibility during this coming year. However, we will continue to monitor conditions very closely and will make adjustments to that release schedule, as necessary, depending on the actual inflows to Yellowtail. Updates to the operations plan can be accessed through our Web site at www.usbr.gov/gp/mtao.

We remain committed to continue exploring opportunities for enhancing benefits for all Yellowtail beneficiaries through collaborative efforts with interested parties and stakeholders from both Montana and Wyoming. Please feel free to provide us with additional information as this operational season progresses.

Sincerely,

Dan Jewell Area Manager

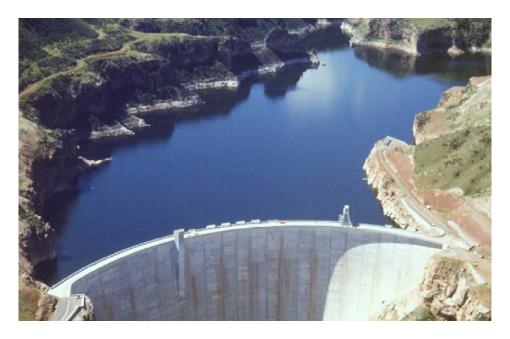
RECLANIATION Managing Water in the West

April 7, 2007

Dear Customer:

Attached is the monthly water supply outlook and projected reservoir and river operating plans as prepared on April 7, 2007. Mountain snowpack and streamflow into Bighorn Lake continues to remain below normal. Water users are advised to continue making plans to conserve the limited available water supply. We hope you find the information useful. 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 April 1, 2007

<u>Storage</u>	<u>Elevation</u>	Percent of Normal
464,319	4707.90	
457,725	5368.65	
798,200	3609.20	96
	464,319 457,725	464,319 457,725 457,725 4707.90 5368.65

Actual Inflows (1,000 Acre-Feet):

<u>Month</u>	<u>Inflow</u>	Percent of Normal				
April-July, 2006	528.2	44				
WY-2006 Total	1,432.9	57				
October	125.6	66				
November	98.7	61				
December	82.5	56				
January	67.4	48				
February	77.8	54				
March	100.2	56				

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

<u>Month</u>	<u>Gains</u>	Percent of Normal				
April-July, 2006	-2.5					
WY-2006 Total	280.6	39				
October	73.5	97				
November	56.9	88				
December	39.6	84				
January	24.0	51				
February	38.7	67				
March	56.7	72				

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

<u>Agency</u>	<u>Inflows</u>	Percent of Normal
USBR	727	61

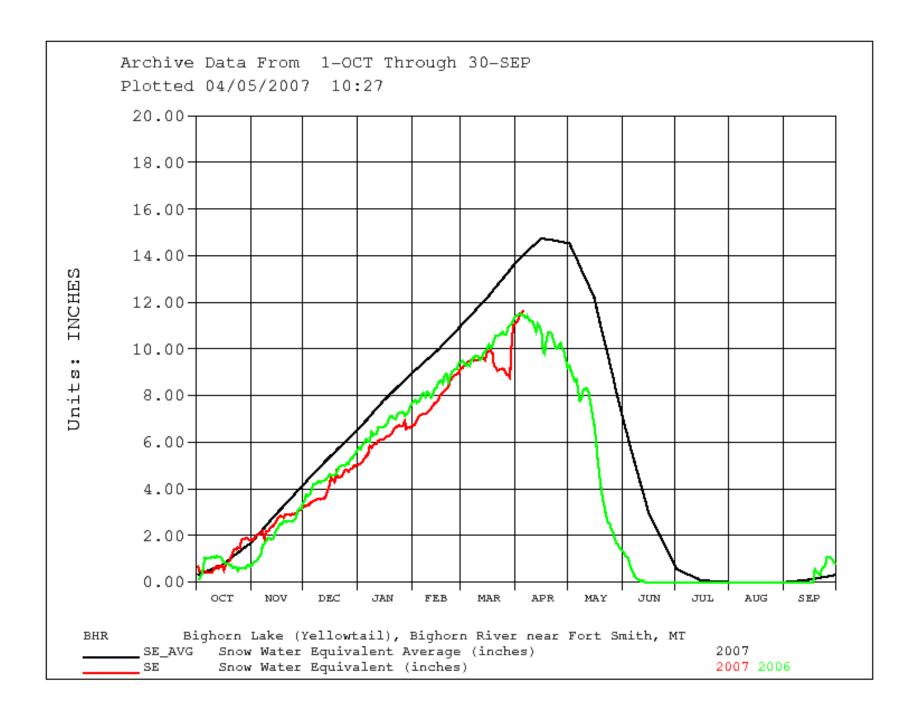
Snowpack Conditions:

SNOW - PRECIPITATION UPDATE
Based on Mountain Data from NRCS SNOTEL Sites

As of SUNDAY: APRIL 1 , 2007

BASIN Data Site Name	ELEV. (Ft)	SNOW WAT	ER EQUIVA	 LENT %	TOTAL P	RECIPITAT	TION %
		Current	Average	Avg	Current	Average	Avg
UPPER YELLOWSTONE RIVER	BASIN						
BEARTOOTH LAKE	9275	17.9	23.6	76	17.3	20.3	85
BOX CANYON	6700	5.4	10.4	52	13.1	12.5	105
BRACKETT CREEK	7320	12.3	21.5	57	19.0	25.2	75
BURNT MTN	5880	.5	-M	*	11.4	-M	*
CANYON	8090	11.0	13.9	79	14.7	15.6	94
COLE CREEK	7850	10.9	16.4	66	11.1	16.7	66
EVENING STAR	9200	20.4	30.1	68	25.5	25.5	100
FISHER CREEK	9100	28.1	35.4	79	28.8	36.8	78
MONUMENT PEAK	8850	17.1	21.0	81	19.0	21.3	89

NORTHEAST ENTRANCE	7350	3.8	11.3	34	12.1	12.8	95
PARKER PEAK	9400	18.1	21.9	83	16.6	16.4	101
PLACER BASIN	8830	13.8	17.8	78	17.8	19.1	93
PORCUPINE	6500	.0	6.9	0	12.3	11.9	103
SACAJAWEA	6550	6.5	14.8	44	19.3	-M	*
SHOWER FALLS	8100	19.0	22.7	84	22.7	24.6	92
S FORK SHIELDS	8100	12.6	17.7	71	19.7	20.3	97
SYLVAN LAKE	8420	14.1	22.8	62	20.2	21.1	96
SYLVAN ROAD	7120	6.3	12.9	49	15.1	17.8	85
THUMB DIVIDE	7980	11.6	19.2	60	14.5	19.1	76
TWO OCEAN PLATEAU	9240	23.4	28.4	82	21.5	28.0	77
WHITE MILL	8700	18.2	24.6	74	19.1	27.3	
WOLVERINE	7650	4.1			10.5	12.9	
YOUNTS PEAK	8350	10.1	17.3	58	13.4	16.3	82
Danida.							
Basın WIND RIVER BASIN (WYO	wide perce	nt of av	erage	67			86
BURROUGHS CREEK	8750	11.3	14.8	76	13.2	16.4	80
COLD SPRINGS	9630		9.0	39	9.1	10.4	85
DEER PARK	9700	12.0	17.1	70	15.6	22.1	71
	10100	12.8	15.1	85	12.8	12.9	99
HOBBS PARK		9.9				11.3	
KIRWIN	9550		11.5	86	11.7		104
LITTLE WARM OWL CREEK	9370	7.5 4.2	12.0	62 75	9.3	13.5 5.9	69
			5.6	75	6.4		108
SOUTH PASS	9040	12.4	16.7	74	13.8	18.6	74
ST. LAWRENCE ALT	8620	4.0 16.7	$7.4 \\ 25.2$	54 66	9.1 19.1	8.9	
TOGWOTEE PASS	9580						
TOWNSEND CREEK			8.8				96 82
YOUNTS PEAK	8350	10.1	17.3	58	13.4	16.3	
					13.4	10.3	
Basin	wide perce			70	13.4	10.3	84
Basin SHOSHONE RIVER BASIN	wide perce	nt of av	erage	70			84
Basin SHOSHONE RIVER BASIN BLACKWATER	wide perce (WYOMING) 9780	nt of av	erage 24.8	70 77	18.2	20.7	84 88
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR	wide perce (WYOMING) 9780 9200	19.0 20.4 2.7	24.8 30.1 9.0	70 77 68	18.2 25.5	20.7 25.5	84 88 100
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE	wide perce (WYOMING) 9780 9200 8760	19.0 20.4 2.7	24.8 30.1 9.0	77 68 30	18.2 25.5 9.1	20.7 25.5 9.8	88 100 93
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE	wide perce (WYOMING) 9780 9200 8760 8420	19.0 20.4 2.7 14.1	24.8 30.1 9.0 22.8	70 77 68 30 62	18.2 25.5 9.1 20.2	20.7 25.5 9.8 21.1	84 88 100 93 96
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD	wide perce (WYOMING) 9780 9200 8760 8420	19.0 20.4 2.7	24.8 30.1 9.0 22.8 12.9	70 77 68 30 62 49	18.2 25.5 9.1 20.2 15.1	20.7 25.5 9.8 21.1 17.8	84 88 100 93 96
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350	19.0 20.4 2.7 14.1 6.3 10.1	24.8 30.1 9.0 22.8 12.9 17.3	70 77 68 30 62 49	18.2 25.5 9.1 20.2	20.7 25.5 9.8 21.1 17.8	88 100 93 96 85
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350	19.0 20.4 2.7 14.1 6.3 10.1	24.8 30.1 9.0 22.8 12.9 17.3	70 77 68 30 62 49 58	18.2 25.5 9.1 20.2 15.1	20.7 25.5 9.8 21.1 17.8	84 88 100 93 96 85 82
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN (1)	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce	19.0 20.4 2.7 14.1 6.3 10.1	24.8 30.1 9.0 22.8 12.9 17.3	70 77 68 30 62 49 58	18.2 25.5 9.1 20.2 15.1 13.4	20.7 25.5 9.8 21.1 17.8 16.3	84 88 100 93 96 85 82
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN (1) BALD MTN.	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380	19.0 20.4 2.7 14.1 6.3 10.1 ent of av	24.8 30.1 9.0 22.8 12.9 17.3 Terage	70 77 68 30 62 49 58 62	18.2 25.5 9.1 20.2 15.1 13.4	20.7 25.5 9.8 21.1 17.8 16.3	84 88 100 93 96 85 82
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN (** BALD MTN. BEAR TRAP MEADOW	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200	19.0 20.4 2.7 14.1 6.3 10.1 ent of av	24.8 30.1 9.0 22.8 12.9 17.3 rerage	70 77 68 30 62 49 58 62 *	18.2 25.5 9.1 20.2 15.1 13.4	20.7 25.5 9.8 21.1 17.8 16.3	84 88 100 93 96 85 82 91 *
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN (1) BALD MTN. BEAR TRAP MEADOW BLACKWATER	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200 9780	19.0 20.4 2.7 14.1 6.3 10.1 ent of av -M 4.5 19.0	24.8 30.1 9.0 22.8 12.9 17.3 rerage	70 77 68 30 62 49 58 62 * 87 77	18.2 25.5 9.1 20.2 15.1 13.4	20.7 25.5 9.8 21.1 17.8 16.3	84 88 100 93 96 85 82 91 *
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN (1) BALD MTN. BEAR TRAP MEADOW BLACKWATER BONE SPRINGS DIV	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200 9780 9350	19.0 20.4 2.7 14.1 6.3 10.1 ent of av -M 4.5 19.0 17.5	24.8 30.1 9.0 22.8 12.9 17.3 erage 19.9 5.2 24.8 16.4	70 77 68 30 62 49 58 62 * 87 77 107	18.2 25.5 9.1 20.2 15.1 13.4 -M 9.0 18.2 15.9	20.7 25.5 9.8 21.1 17.8 16.3	84 88 100 93 96 85 82 91 * 108 88 108
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN (1) BALD MTN. BEAR TRAP MEADOW BLACKWATER BONE SPRINGS DIV EVENING STAR	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200 9780 9350 9200	19.0 20.4 2.7 14.1 6.3 10.1 ent of av -M 4.5 19.0 17.5 20.4	24.8 30.1 9.0 22.8 12.9 17.3 erage 19.9 5.2 24.8 16.4 30.1	70 77 68 30 62 49 58 62 * 87 77 107 68	18.2 25.5 9.1 20.2 15.1 13.4 -M 9.0 18.2 15.9 25.5	20.7 25.5 9.8 21.1 17.8 16.3 17.5 8.3 20.7 14.7 25.5	84 88 100 93 96 85 82 91 * 108 88 108
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Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN ('BALD MTN') BEAR TRAP MEADOW BLACKWATER BONE SPRINGS DIV EVENING STAR GRAVE SPRINGS KIRWIN	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200 9780 9350 9200 8550 9550	19.0 20.4 2.7 14.1 6.3 10.1 ent of av -M 4.5 19.0 17.5 20.4 7.7 9.9	24.8 30.1 9.0 22.8 12.9 17.3 erage 19.9 5.2 24.8 16.4 30.1 9.4 11.5	70 77 68 30 62 49 58 62 * 87 77 107 68 82 86	18.2 25.5 9.1 20.2 15.1 13.4 -M 9.0 18.2 15.9 25.5 7.9 11.7	20.7 25.5 9.8 21.1 17.8 16.3 17.5 8.3 20.7 14.7 25.5 9.7 11.3	84 88 100 93 96 85 82 91 * 108 88 100 81 104
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN ('BALD MTN') BEAR TRAP MEADOW BLACKWATER BONE SPRINGS DIV EVENING STAR GRAVE SPRINGS KIRWIN MARQUETTE	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200 9780 9350 9200 8550 9550 8760	19.0 20.4 2.7 14.1 6.3 10.1 ent of av -M 4.5 19.0 17.5 20.4 7.7 9.9 2.7	24.8 30.1 9.0 22.8 12.9 17.3 erage 19.9 5.2 24.8 16.4 30.1 9.4 11.5 9.0	70 77 68 30 62 49 58 62 * 87 77 107 68 82 86 30	18.2 25.5 9.1 20.2 15.1 13.4 -M 9.0 18.2 15.9 25.5 7.9 11.7 9.1	20.7 25.5 9.8 21.1 17.8 16.3 17.5 8.3 20.7 14.7 25.5 9.7 11.3 9.8	84 88 100 93 96 85 82 91 * 108 88 108 100 81 104 93
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN ('BALD MTN') BEAR TRAP MEADOW BLACKWATER BONE SPRINGS DIV EVENING STAR GRAVE SPRINGS KIRWIN MARQUETTE MIDDLE POWDER	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200 9780 9350 9200 8550 9550 8760 7760	19.0 20.4 2.7 14.1 6.3 10.1 nt of av -M 4.5 19.0 17.5 20.4 7.7 9.9 2.7 11.9	24.8 30.1 9.0 22.8 12.9 17.3 erage 19.9 5.2 24.8 16.4 30.1 9.4 11.5 9.0 11.8	70 77 68 30 62 49 58 62 * 87 77 107 68 82 86 30 101	18.2 25.5 9.1 20.2 15.1 13.4 -M 9.0 18.2 15.9 25.5 7.9 11.7 9.1 9.4	20.7 25.5 9.8 21.1 17.8 16.3 17.5 8.3 20.7 14.7 25.5 9.7 11.3 9.8 12.4	84 88 100 93 96 85 82 91 * 108 88 100 81 104 93 76
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN (** BALD MTN. BEAR TRAP MEADOW BLACKWATER BONE SPRINGS DIV EVENING STAR GRAVE SPRINGS KIRWIN MARQUETTE MIDDLE POWDER OWL CREEK	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200 9780 9350 9200 8550 9550 8760 7760 8975	19.0 20.4 2.7 14.1 6.3 10.1 ent of av -M 4.5 19.0 17.5 20.4 7.7 9.9 2.7 11.9 4.2	24.8 30.1 9.0 22.8 12.9 17.3 erage 19.9 5.2 24.8 16.4 30.1 9.4 11.5 9.0 11.8 5.6	70 77 68 30 62 49 58 62 * 87 77 107 68 82 86 30 101 75	18.2 25.5 9.1 20.2 15.1 13.4 -M 9.0 18.2 15.9 25.5 7.9 11.7 9.1 9.4 6.4	20.7 25.5 9.8 21.1 17.8 16.3 17.5 8.3 20.7 14.7 25.5 9.7 11.3 9.8 12.4 5.9	84 88 100 93 96 85 82 91 * 108 88 108 100 81 104 93 76 108
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN (** BALD MTN. BEAR TRAP MEADOW BLACKWATER BONE SPRINGS DIV EVENING STAR GRAVE SPRINGS KIRWIN MARQUETTE MIDDLE POWDER OWL CREEK POWDER RIVER PASS	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200 9780 9350 9200 8550 9550 8760 7760 8975 9480	19.0 20.4 2.7 14.1 6.3 10.1 nt of av -M 4.5 19.0 17.5 20.4 7.7 9.9 2.7 11.9 4.2 9.5	24.8 30.1 9.0 22.8 12.9 17.3 Terage 19.9 5.2 24.8 16.4 30.1 9.4 11.5 9.0 11.8 5.6 10.9	70 77 68 30 62 49 58 62 * 87 77 107 68 82 86 30 101 75 87	18.2 25.5 9.1 20.2 15.1 13.4 -M 9.0 18.2 15.9 25.5 7.9 11.7 9.1 9.4 6.4 11.8	20.7 25.5 9.8 21.1 17.8 16.3 17.5 8.3 20.7 14.7 25.5 9.7 11.3 9.8 12.4 5.9 12.4	84 88 100 93 96 85 82 91 * 108 88 100 81 104 93 76 108 95
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN (** BALD MTN. BEAR TRAP MEADOW BLACKWATER BONE SPRINGS DIV EVENING STAR GRAVE SPRINGS KIRWIN MARQUETTE MIDDLE POWDER OWL CREEK POWDER RIVER PASS SHELL CREEK	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200 9780 9350 9200 8550 9550 8760 7760 8975 9480 9580	19.0 20.4 2.7 14.1 6.3 10.1 ant of av -M 4.5 19.0 17.5 20.4 7.7 9.9 2.7 11.9 4.2 9.5 15.4	24.8 30.1 9.0 22.8 12.9 17.3 Terage 19.9 5.2 24.8 16.4 30.1 9.4 11.5 9.0 11.8 5.6 10.9 14.9	70 77 68 30 62 49 58 62 * 87 77 107 68 82 86 30 101 75 87 103	18.2 25.5 9.1 20.2 15.1 13.4 -M 9.0 18.2 15.9 25.5 7.9 11.7 9.1 9.4 6.4 11.8 12.4	20.7 25.5 9.8 21.1 17.8 16.3 17.5 8.3 20.7 14.7 25.5 9.7 11.3 9.8 12.4 5.9 12.4 13.4	84 88 100 93 96 85 82 91 * 108 88 100 81 104 93 76 108 95 93
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN (** BALD MTN. BEAR TRAP MEADOW BLACKWATER BONE SPRINGS DIV EVENING STAR GRAVE SPRINGS KIRWIN MARQUETTE MIDDLE POWDER OWL CREEK POWDER RIVER PASS SHELL CREEK SYLVAN LAKE	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200 9780 9350 9200 8550 9550 8760 7760 8975 9480 9580 8420	19.0 20.4 2.7 14.1 6.3 10.1 nt of av -M 4.5 19.0 17.5 20.4 7.7 9.9 2.7 11.9 4.2 9.5 15.4 14.1	24.8 30.1 9.0 22.8 12.9 17.3 Terage 19.9 5.2 24.8 16.4 30.1 9.4 11.5 9.0 11.8 5.6 10.9 14.9 22.8	70 77 68 30 62 49 58 62 * 87 77 107 68 82 86 30 101 75 87 103 62	18.2 25.5 9.1 20.2 15.1 13.4 -M 9.0 18.2 15.9 25.5 7.9 11.7 9.1 9.4 6.4 11.8 12.4 20.2	20.7 25.5 9.8 21.1 17.8 16.3 17.5 8.3 20.7 14.7 25.5 9.7 11.3 9.8 12.4 5.9 12.4 13.4 21.1	84 88 100 93 96 85 82 91 * 108 88 100 81 104 93 76 108 95 93 96
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN (** BALD MTN. BEAR TRAP MEADOW BLACKWATER BONE SPRINGS DIV EVENING STAR GRAVE SPRINGS KIRWIN MARQUETTE MIDDLE POWDER OWL CREEK POWDER RIVER PASS SHELL CREEK SYLVAN LAKE SYLVAN ROAD	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200 9780 9350 9200 8550 9550 8760 7760 8975 9480 9580 8420 7120	19.0 20.4 2.7 14.1 6.3 10.1 nt of av -M 4.5 19.0 17.5 20.4 7.7 9.9 2.7 11.9 4.2 9.5 15.4 14.1 6.3	24.8 30.1 9.0 22.8 12.9 17.3 Terage 19.9 5.2 24.8 16.4 30.1 9.4 11.5 9.0 11.8 5.6 10.9 14.9 22.8 12.9	70 77 68 30 62 49 58 62 * 87 77 107 68 82 86 30 101 75 87 103 62 49	18.2 25.5 9.1 20.2 15.1 13.4 -M 9.0 18.2 15.9 25.5 7.9 11.7 9.1 9.4 6.4 11.8 12.4 20.2 15.1	20.7 25.5 9.8 21.1 17.8 16.3 17.5 8.3 20.7 14.7 25.5 9.7 11.3 9.8 12.4 5.9 12.4 13.4 21.1 17.8	84 88 100 93 96 85 82 91 * 108 88 100 81 104 93 76 108 95 93 96 85
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN (TO BALD MTN. BEAR TRAP MEADOW BLACKWATER BONE SPRINGS DIV EVENING STAR GRAVE SPRINGS KIRWIN MARQUETTE MIDDLE POWDER OWL CREEK POWDER RIVER PASS SHELL CREEK SYLVAN LAKE SYLVAN ROAD TIMBER CREEK	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200 9780 9350 9200 8550 9550 8760 7760 8975 9480 9580 8420 7120 7950	19.0 20.4 2.7 14.1 6.3 10.1 nt of av -M 4.5 19.0 17.5 20.4 7.7 9.9 2.7 11.9 4.2 9.5 15.4 14.1 6.3 3.1	24.8 30.1 9.0 22.8 12.9 17.3 Terage 19.9 5.2 24.8 16.4 30.1 9.4 11.5 9.0 11.8 5.6 10.9 14.9 22.8 12.9	70 77 68 30 62 49 58 62 * 87 77 107 68 82 86 30 101 75 87 103 62 49 53	18.2 25.5 9.1 20.2 15.1 13.4 -M 9.0 18.2 15.9 25.5 7.9 11.7 9.1 9.4 6.4 11.8 12.4 20.2 15.1 8.7	20.7 25.5 9.8 21.1 17.8 16.3 17.5 8.3 20.7 14.7 25.5 9.7 11.3 9.8 12.4 5.9 12.4 13.4 21.1 17.8 7.4	84 88 100 93 96 85 82 91 * 108 88 100 81 104 93 76 108 95 93 96 85 118
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN (** BALD MTN. BEAR TRAP MEADOW BLACKWATER BONE SPRINGS DIV EVENING STAR GRAVE SPRINGS KIRWIN MARQUETTE MIDDLE POWDER OWL CREEK POWDER RIVER PASS SHELL CREEK SYLVAN LAKE SYLVAN ROAD	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200 9780 9350 9200 8550 9550 8760 7760 8975 9480 9580 8420 7120	19.0 20.4 2.7 14.1 6.3 10.1 nt of av -M 4.5 19.0 17.5 20.4 7.7 9.9 2.7 11.9 4.2 9.5 15.4 14.1 6.3	24.8 30.1 9.0 22.8 12.9 17.3 Terage 19.9 5.2 24.8 16.4 30.1 9.4 11.5 9.0 11.8 5.6 10.9 14.9 22.8 12.9	70 77 68 30 62 49 58 62 * 87 77 107 68 82 86 30 101 75 87 103 62 49 53 58	18.2 25.5 9.1 20.2 15.1 13.4 -M 9.0 18.2 15.9 25.5 7.9 11.7 9.1 9.4 6.4 11.8 12.4 20.2 15.1	20.7 25.5 9.8 21.1 17.8 16.3 17.5 8.3 20.7 14.7 25.5 9.7 11.3 9.8 12.4 5.9 12.4 13.4 21.1 17.8	84 88 100 93 96 85 82 91 * 108 88 100 81 104 93 76 108 95 93 96 85
Basin SHOSHONE RIVER BASIN BLACKWATER EVENING STAR MARQUETTE SYLVAN LAKE SYLVAN ROAD YOUNTS PEAK Basin BIGHORN RIVER BASIN (TO BEAR TRAP MEADOW BLACKWATER BONE SPRINGS DIV EVENING STAR GRAVE SPRINGS KIRWIN MARQUETTE MIDDLE POWDER OWL CREEK POWDER RIVER PASS SHELL CREEK SYLVAN LAKE SYLVAN ROAD TIMBER CREEK YOUNTS PEAK	wide perce (WYOMING) 9780 9200 8760 8420 7120 8350 wide perce WYOMING) 9380 8200 9780 9350 9200 8550 9550 8760 7760 8975 9480 9580 8420 7120 7950	19.0 20.4 2.7 14.1 6.3 10.1 nt of av -M 4.5 19.0 17.5 20.4 7.7 9.9 2.7 11.9 4.2 9.5 15.4 14.1 6.3 3.1 10.1	24.8 30.1 9.0 22.8 12.9 17.3 Terage 19.9 5.2 24.8 16.4 30.1 9.4 11.5 9.0 11.8 5.6 10.9 14.9 22.8 12.9 17.3	70 77 68 30 62 49 58 62 * 87 77 107 68 82 86 30 101 75 87 103 62 49 53	18.2 25.5 9.1 20.2 15.1 13.4 -M 9.0 18.2 15.9 25.5 7.9 11.7 9.1 9.4 6.4 11.8 12.4 20.2 15.1 8.7	20.7 25.5 9.8 21.1 17.8 16.3 17.5 8.3 20.7 14.7 25.5 9.7 11.3 9.8 12.4 5.9 12.4 13.4 21.1 17.8 7.4	84 88 100 93 96 85 82 91 * 108 88 100 81 104 93 76 108 95 93 96 85 118



BHXAOP V1.12 Run: 05-Apr-2007 14:23 Based on Most Probable Inflow Forecast

BIGHORN LAKE MONTHLY OPERATIONS

Bighorn Reservoir		Ir	nitial Co El		98.2 kaf 9.20 ft	Ма	aximum Co		28.4 kaf 7.00 ft	M:	inimum C		93.6 kaf 7.00 ft	
2	2007	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
- <u>-</u>	kaf	44.6	65.8	69.6	73.2	66.4	45.5	30.7	29.8	30.7	30.8	28.8	30.7	546.6
2	cfs	750	1070	1170	1190	1080	765	499	501	499	501	501	499	
Buffalo Bill Riv Flo		24.4	64.9	62.7	70.4	63.0	50.0	18.4	8.9	9.2	9.2	8.6	9.2	398.9
Buffalo Bill Riv Flo		410	1055	1054	1145	1025	840	299	150	150	150	150	150	
	kaf	47.8	78.5	126.8	-1.5	6.8	44.5	76.4	62.7	44.9	48.3	58.9	78.3	672.4
2	kaf	116.8	209.2	259.1	142.1	136.2	140.0	125.5	101.4	84.8	88.3	96.3	118.2	1617.9
Monthly Inflow	cfs	1963	3402	4354	2311	2215	2353	2041	1704	1379	1436	1674	1922	
Turbine Release	kaf	85.6	99.1	136.6	146.4	145.5	133.6	118.7	129.7	134.0	134.0	125.4	134.0	1522.6
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	85.6	99.1	136.6	146.4	145.5	133.6	118.7	129.7	134.0	134.0	125.4	134.0	1522.6
Total Release	cfs	1439	1612	2296	2381	2366	2245	1930	2180	2179	2179	2180	2179	
Spring Flow	kaf	4.2	4.3	4.2	4.3	4.3	4.2	4.3	4.2	4.3	4.3	4.0	4.3	50.9
Irrigation Reqmnt	kaf	0.5	11.2	21.8	27.7	26.8	18.8	0.0	0.0	0.0	0.0	0.0	0.0	106.8
Afterbay Rels	kaf	89.8	103.4	140.8	150.7	149.8	137.8	123.0	133.9	138.3	138.3	129.4	138.3	1573.5
Afterbay Rels	cfs	1509	1682	2366	2451	2436	2316	2000	2250	2249	2249	2250	2249	
River Release	kaf	89.3	92.2	119.0	123.0	123.0	119.0	123.0	133.9	138.3	138.3	129.4	138.3	1466.7
River Release	cfs	1501	1499	2000	2000	2000	2000	2000	2250	2249	2249	2250	2249	
Min Release	kaf	89.3	92.2	119.0	123.0	123.0	119.0	123.0	133.9	138.3	138.3	129.4	138.3	1466.7
End-Month Targets	kaf				1070.0									
	kaf	829.4	939.5	1062.0	1057.7	1048.4	1054.8	1061.6	1033.3	984.1	938.4	909.3	893.5	
End-Month Elevation				3639.35			3638.77	3639.32		3632.47			3622.52	
Net Change Content	kaf	31.2	110.1	122.5	-4.3	-9.3	6.4	6.8	-28.3	-49.2	-45.7	-29.1	-15.8	95.3
Yellowtail Power 2	2007	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
Turbine Release	kaf	85.6	99.1	136.6	146.4	145.5	133.6	118.7	129.7	134.0	134.0	125.4	134.0	1522.6
Generation	gwh	32.220	38.285	54.850	59.849	59.362	54.483	48.502	52.828	53.939	53.133	49.110	52.076	608.637
End-Month Power Cap	mw	262.6	275.6	286.9	286.5	285.7	286.3	286.8	284.5	280.0	275.5	272.3	270.6	
% Max Gen		16	18	26	28	28	26	23	25	25	25	25	24	
Ave kwh/af		376	386	402	409	408	408	409	407	403	397	392	389	400
Upstream Generation	gwh	11.275	24.957	25.052	27.142	24.585	19.335	8.163	4.244	4.423	4.454	4.184	4.500	162.314
Total Generation	gwh	43.495	63.242	79.902	86.991	83.947	73.818	56.665	57.072	58.362	57.587	53.294	56.576	770.951

BIGHORN LAKE

