

PUBLIC UTILITY DISTRICT NO. 1 *of* CHELAN COUNTY

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February 25, 2010

VIA ELECTRONIC FILING

Honorable Kimberly D. Bose, Secretary
Nathaniel J. Davis, Sr., Deputy Secretary
FEDERAL ENERGY REGULATORY COMMISSION
888 First Street, NE
Washington, DC 20426

Re: **Lake Chelan Hydroelectric Project No. 637-022**
Article 405b – 2009 Annual Lake Level Report

Dear Secretary Bose and Deputy Secretary Davis:

The Federal Energy Regulatory Commission (Commission) issued the “Order Modifying and Approving Operations Compliance and Monitoring Plan (Plan), Article 405” on November 30, 2007. The Plan satisfied the License Article 405 requirement of the “Order on Offer of Settlement and Issuing New License”¹ (License) and “Order on Rehearing”² for the Lake Chelan Hydroelectric Project (Project) on November 6, 2006, and April 19, 2007, respectively.

Under Ordering Paragraph (C) modifying the Plan under Article 405, Chelan PUD is required to file the following report with the Commission.

(C) The licensee shall file annually with the Commission by February 28, beginning in 2009, their Annual Lake Level Report. The licensee shall allow the resource agencies, Tribes and non-governmental organizations specified under Article 405, 30 days to provide comments and/or recommendations on their report before filing with the Commission. The filing shall include comments and/or recommendations from the consulted entities and the licensee’s response to any comments. If the licensee does not adopt a recommendation, the report shall include the licensee’s reasons, based on project-specific information. Based on review of the report, the Commission reserves the right to require changes to the project to ensure compliance with the license.

¹ 117 FERC ¶ 62,129

² 119 FERC ¶ 61,055

*Ms. Kimberly D. Bose, Secretary
Mr. Nathaniel J. Davis, Sr., Deputy Secretary
Federal Energy Regulatory Commission*

In accordance with the above Order requirement, Chelan PUD hereby files the 2009 Annual Lake Level Report. This report compares monthly actual and target lake levels; and runoff volume forecasts and other factors influencing achievement of targeted lake levels. A final draft of this report was provided to the resource agencies, Tribes and non-governmental organizations specified for a 30-day review period ending February 22, 2010.³ No comments were received.

Please do not hesitate to contact me or Waikele Hampton at (509-661-4627) of my office regarding any questions or comments regarding this plan.

Sincerely,



Michelle Smith
Licensing and Compliance Manager
michelle.smith@chelanpud.org
(509) 661-4180

cc: Erich Gaedeke, FERC-PRO

Enclosure: Lake Chelan 2009 Annual Lake Level Report

³ This correspondence is available at the following Internet address:
http://www.chelanpud.org/departments/licensingCompliance/lc_implementation/comm/corres/34036.pdf

**LAKE CHELAN
ANNUAL LAKE LEVEL REPORT
2008-2009 OPERATING CYCLE**

LICENSE ARTICLE 405

FINAL

**LAKE CHELAN HYDROELECTRIC PROJECT
FERC Project No. 637**

February 24, 2010



**Public Utility District No. 1 of Chelan County
Wenatchee, Washington**

TABLE OF CONTENTS

EXECUTIVE SUMMARY 1

SECTION 1: INTRODUCTION 2

SECTION 2: LAKE CHELAN LAKE LEVELS, INFLOWS AND OUTFLOWS..... 4

 2.1 Lake Levels – Actual Compared to Targets 5

 2.2 Lake Chelan Inflows and Outflows 6

SECTION 3: SUMMARY OF LAKE LEVEL MANAGEMENT DECISIONS 7

 3.1 Runoff Forecasts 7

 3.2 Decisions Related To Objectives 8

 3.3 Public Outreach 8

APPENDIX A: DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

LIST OF TABLES

Table 2-1. Target Lake Level Elevations..... 4

Table 3-1. Runoff Volume Forecasts for Apr – Jul 2009 7

LIST OF FIGURES

Figure 2-1. Lake Chelan Surface Elevations in 2008-2009 Compared to License Target Elevations and Expected Average Elevations. 5

EXECUTIVE SUMMARY

Chelan PUD received a new license (License) from the Federal Energy Regulatory Commission (FERC)¹ on November 6, 2006, authorizing Chelan PUD to operate the Lake Chelan dam and powerhouse for a period of 50 years. License Article 405 requires Chelan PUD to annually file with FERC a report comparing monthly actual and target lake levels; and runoff volume forecasts and other factors influencing achievement of targeted lake levels.

Chelan PUD manages lake levels following an annual Operating Cycle, beginning in September, that starts to release water from Lake Chelan for power generation and other purposes from September through March, and then refills Lake Chelan from April through June. The operating level of Lake Chelan is maintained at full, between 1,098 – 1,100 feet above mean sea level, from July through early September to benefit recreational use of the lake. The degree to which water is released from the lake and the resulting annual minimum lake elevation is regulated by Chelan PUD based on the predicted inflow from rain and snowmelt.

The License establishes target minimum lake levels for the period from May 1 – October 1 that Chelan PUD will make every reasonable effort to meet, consistent with other management constraints for flood control, protection of fish resources, and prevention of erosion. Chelan PUD manages power generation and spill with the intent of meeting target lake levels by using runoff and precipitation forecasts, past experience with runoff timing and actual lake levels. Chelan PUD's operation of the Project during the 2008-2009 Operating Cycle resulted in lake levels being at or above the target minimum lake levels that are required by the License for recreation in June, July, August, September, and October. The lake level reached 1,099 feet on June 22 and was operated at or above 1,099 feet from June 22 through August.

The License contains a number of operative objectives and minimum target lake elevations (Section 2). Some of these objectives take precedence over meeting target lake levels. Most forecasts during the winter were predicting lower than average precipitation and snowpack. Long range forecasts and indicators for runoff timing prior to April were conflicting. Some forecasts/indicators pointed to an earlier than average runoff, while others were pointing to a later than average runoff. Chelan PUD managed the lake through winter and spring with the intent of meeting license objectives and target elevations, provided early to average runoff timing and average inflows occurred. Due to lower than average temperatures for the month of April (0.5 degrees below average), slightly less inflow occurred during April than was predicted. As a result, the elevation of Lake Chelan was 0.14 foot below the May 1 target of 1087.6, which was met on May 3. All other June-October lake elevation targets were met. Chelan PUD began spilling on June 8 to manage the refill rate of Lake Chelan in order to meet license objectives, lake elevation targets, and protect fish habitat construction work that was in progress in the Chelan River. Spill for lake level management continued until August 4; however, spill of 10 cfs for fish rescue/salvage operations continued through August 7.

¹ Federal Energy Regulatory Commission Order on Offer of Settlement and Issuing New License and Order on Rehearing for the Lake Chelan Hydroelectric Project No. 637 were issued November 6, 2006, and April 19, 2007, respectively, to the Public Utility District No. 1 of Chelan County.

SECTION 1: INTRODUCTION

The Lake Chelan Hydroelectric Project (Project) is owned and operated by the Public Utility District No. 1 of Chelan County (Chelan PUD). Chelan PUD received a new license (License) from the Federal Energy Regulatory Commission (FERC) on November 6, 2006, authorizing Chelan PUD to operate the Lake Chelan dam and powerhouse for a period of 50 years. As part of the normal operation of the Project, Chelan PUD withdraws water from Lake Chelan for power generation, which results in lake levels being lowered during the winter when inflows are low and refilling during the spring and early summer when inflows to Lake Chelan increase from melting snow. During the public process associated with relicensing the Project, Chelan PUD held a number of meetings and negotiating sessions with representatives of local property owners, resort owners and other stakeholders with an interest in the effect of the Project's operation on the timing of drawdown and refill of Lake Chelan. As a result of the negotiations, a set of priorities and schedule for lake level operations were developed and incorporated into a settlement agreement, which was signed by state and federal land and resource management agencies, the City of Chelan and other stakeholders. The settlement agreement was incorporated into Chelan PUD's application for a new license and FERC included those lake level operation priorities and schedule into the License.

License Article 405 requires Chelan PUD to annually file with FERC a report comparing monthly actual and target lake levels; and runoff volume forecasts and other factors influencing achievement of targeted lake levels. License Article 405 also required Chelan PUD to file an Operations Compliance Monitoring Plan (OCMP), which was to describe how Chelan PUD will comply with: (1) the instream flows, ramping rates, and tailrace flows as set forth in Article 7 of the Lake Chelan Settlement Agreement and Chapter 7 of the Comprehensive Plan attached to the Settlement Agreement; (2) and the lake levels as set forth in Article 8 of the Settlement Agreement and Chapter 8 of the Comprehensive Plan. The OCMP was submitted and FERC issued an order that modified and approved the OCMP on November 30, 2007. This present document constitutes Chelan PUD's third report of lake level operations, as required in License Article 405.

Chelan PUD manages lake levels following an annual Operating Cycle, beginning in September, that starts to release water from Lake Chelan for power generation and other purposes from September through March, and then refills Lake Chelan from April through July, with a target of reaching 1,098 feet on July 1. The operating level of Lake Chelan is maintained at full, between 1,098 – 1,100 feet above mean sea level, from July through early September to benefit recreational use of the lake. The degree to which water is released from the lake and the resulting annual minimum lake elevation is regulated by Chelan PUD based on the predicted inflow from rain and snowmelt. The License sets a minimum lake level elevation of 1,079 feet, but actual operations of the Project have only approached that limit during two years (1,079.68 feet in 1970 and 1,079.69 feet in 1937) since the Project began operation in 1927. In most years the lake level remains above 1,084 feet through the winter. Chelan PUD monitors snowfall in the Lake Chelan runoff basin and predicts the April 1 – July 31 runoff volume on a monthly basis from January – April. When the runoff volume forecast is below normal Chelan PUD manages power generation to assure that refill of Lake Chelan will be accomplished. The License also establishes target

minimum lake levels for the period from May 1 – October 1 that Chelan PUD will make every reasonable effort to meet consistent with other management constraints for flood control, protection of fish resources and prevention of erosion. Chelan PUD managed power generation and spill with the intent of meeting target lake levels by using runoff volume and precipitation forecasts, past experience with runoff timing and actual lake levels. This report of lake level operations documents the available information and Chelan PUD’s decisions regarding operation of the powerhouse for lake level management and attainment of target lake levels during the September 2008 – August 2009 lake management Operating Cycle.

SECTION 2: LAKE CHELAN LAKE LEVELS, INFLOWS AND OUTFLOWS

The License requires that Chelan PUD manage the operating levels of Lake Chelan to stay within the minimum (1,079 feet) and maximum (1,100 feet) water level elevations and meet target lake levels, after consideration of several objectives intended to balance the needs of recreation and fish protection, that are set forth in Chapter 8 of the Lake Chelan Comprehensive Plan. These management objectives, some of which take precedence over meeting target lake levels, are as follows:

- Maintaining minimum flows in the Chelan River (this objective has priority over lake levels);
- Reducing high flows in the Chelan River (this objective has priority over lake levels);
- Satisfying regulatory requirements for flood control (adjusting lake level);
- Providing usable lake levels for recreation (which varies between elevation 1,090 feet and 1,098 feet, depending on the slope of the shoreline and boat dock configurations);
- Reduce shoreline erosion;
- Preventing fish passage blockages (due to tributary barriers); and
- Minimizing the effect of refill on attainment of flow objectives for salmon in the mainstem Columbia River.

In consideration of these objectives, target lake level elevations are established for specific dates to promote recreation (Table 1).

Table 2-1. Target Lake Level Elevations

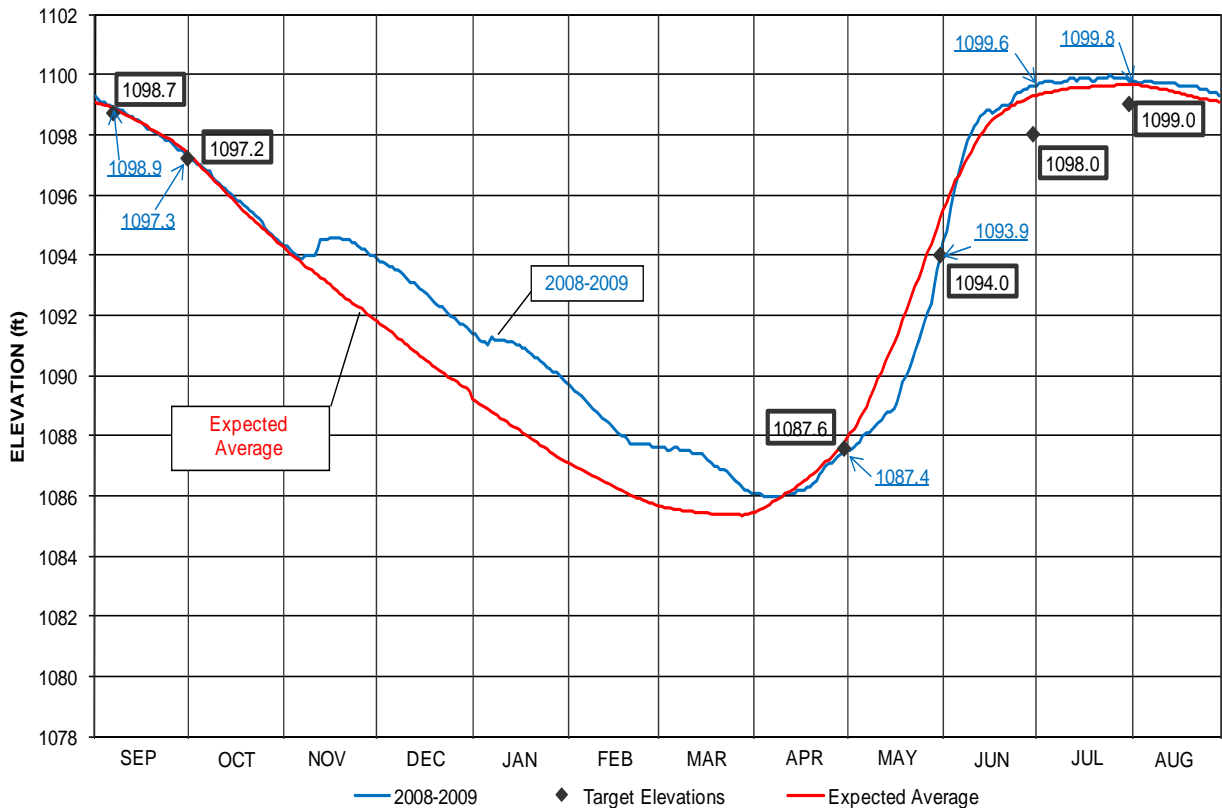
Date	Minimum Elevation (feet)
May 1	1,087.6
June 1	1,094.0
July 1	1,098.0
August 1	1,099.0
September 7	1,098.7
October 1	1,097.2

The Project’s operations during the 2008-2009 Operating Cycle met management objectives for recreation throughout the year, with all target elevations met except for May. The May 1 target elevation was missed by 0.14 feet, but was achieved on May 3. The lake level was managed to meet the October 1 target and then drawn down to meet power generation and tributary barrier fish passage objectives through the fall and winter. Lake level management did not need to consider minimum flows in the Chelan River because the minimum flows cannot be initiated until construction of the new outlet is completed. However, the lake level was managed during June to maintain sufficient storage capability to manage spill levels for the protection of Chelan River habitat construction work that was in progress.

2.1 Lake Levels – Actual Compared to Targets

Chelan PUD’s operation of the Project during the 2008-2009 Operating Cycle resulted in lake levels being at or above the target minimum lake levels that are required by the License for recreation in June, July, August, and September. The lake level reached 1,099 feet on June 22 and was operated at or above 1,099 feet from June 22 through August. Long range forecasts and indicators for runoff timing prior to April were conflicting. Some forecasts/indicators pointed to an earlier than average runoff, while others were pointing to a later than average runoff. Chelan PUD managed the lake through winter and spring with the intent of meeting license objectives and target elevations, provided early to average runoff timing and average inflows occurred. Due to lower than average temperatures for the month of April (0.5 degrees below average), slightly less inflow occurred during April than was predicted. As a result, the elevation of Lake Chelan was 0.14 foot below the May 1 target of 1087.6, which was met on May 3. All other June-October lake elevation targets were met. Chelan PUD began spilling on June 8 to manage the refill rate of Lake Chelan in order to meet license objectives, lake elevation targets, and protect fish habitat construction work that was in progress in the Chelan River. Spill for lake level management continued until August 4; however, spill of 10 cfs for fish rescue/salvage operations continued through August 7. Figure 1 shows the actual 2008-2009 lake levels compared to the expected average lake levels that will result from operations under the License conditions.

Figure 2-1. Lake Chelan Surface Elevations in 2008-2009 Compared to License Target Elevations and Expected Average Elevations.



2.2 Lake Chelan Inflows and Outflows

The total inflow of water into Lake Chelan is not measured directly due to a number of small tributaries that are not gauged for flow. The principal tributary, the Stehekin River, is gauged and the flow information is published by the United States Geological Survey (USGS). Daily average inflow to Lake Chelan can be estimated from calculations using the daily change in lake level and measured discharges from the powerhouse and spillway. The calculations are subject to error due to lake level fluctuations from seiche events caused by downlake winds or from differences in barometric pressure between the upper and lower lake. This measurement variability and unmeasured irrigation and municipal water withdrawals from the lake result in the calculated inflows being imprecise and fluctuating greatly from day to day, even resulting in negative values at times. The daily inflow estimates reported here have been smoothed using a five-day moving average of the inflow estimates, which results in a time lag between the estimate and sudden changes in inflows due to weather events. The value of these inflow estimates is to document how the lake level management is affected by storm events and inflow variability from the timing of snowmelt runoff events.

Outflows from the Project's operations are measured at the powerhouse turbines and calculated from the spillway gate openings. In the future, outflow will also be reported from the low level outlet which began operation on October 15, 2009 to provide minimum flows into the Chelan River. These flows are tabulated as hourly averages at the end of each hour. Daily average flows are the average of each hourly flow from the hour ending at 0100 through the hour ending at 2400. Hourly flow data is available from Chelan PUD and spreadsheet tabulations of hourly outflow are available at the Chelan PUD web site. Chelan River flows and temperatures will be available once minimum flows in the Chelan River have been initiated.

A tabulation of average daily outflows, estimated inflow and lake levels is presented in Appendix A. In addition, daily average lake levels from the USGS gauge at Lakeside and Stehekin River flows are provided in this tabulation.

SECTION 3: SUMMARY OF LAKE LEVEL MANAGEMENT DECISIONS

Chelan PUD controls the drafting and refilling of Lake Chelan with the aid of several snow monitoring locations that are used to predict total volume of snowmelt inflows and, in combination with weather forecasts, potential near-term changes in the timing of that snowmelt. The predicted snowfall from the National Weather Service and other sources is used to forewarn of potential limits to the amount that can be drafted from Lake Chelan for power generation, while still assuring that refill will occur by the summer recreation season. As the winter progresses, runoff volume forecasts specific to the Lake Chelan basin become available to predict the volume that can be withdrawn from the lake for generation. When snowfall is predicted to be low, Chelan PUD reduces or curtails withdrawals from the lake. During the drought winter of 2000-2001, Chelan PUD curtailed generation in late December of 2000 and did not draft any significant amounts of water from the lake until the following April, when the runoff forecast indicated that lake refill was assured. In a more typical year with average or low snowfall, reductions in powerhouse operations take place in the late winter or spring.

In most years, except those with drought conditions or late runoff, Chelan PUD operates the powerhouse throughout the winter and spring while monitoring lake levels and the condition of the snow pack to determine if spilling of water will be needed for flood control and to prevent high spill events that cause erosion in the Chelan River. During the 2008-2009 lake management Operating Cycle, management of spill volumes to allow timely construction of fish habitat in the Chelan River was a primary concern. Protection of that fish habitat in the Chelan River will continue to be a primary factor in managing the spill events through the term of the License.

3.1 Runoff Forecasts

April 1 through July 31, 2009 Runoff Forecasts for the Chelan Basin were produced on February 1, March 1 and April 1 of 2009. The February, March, and April forecasts predicted lower than average runoff volume. Runoff volume forecasts, lake level and volume required to refill are shown in Table 2.

Table 3-1. Runoff Volume Forecasts for Apr – Jul 2009

Month	Volume (SFD)	Percent of Normal	Lake Elevation (feet)	Feet Above/Below Normal	Volume to Refill (SFD)
February 1	367,600	70	1089.7	+2.6	169,040
March 1	351,800	67	1087.6	+1.9	203,505
April 1	393,825	75	1086.1	+0.6	228,122

Actual runoff for April 1 – July 31 was 81% of average. Eighty-three percent of this runoff occurred before July 1, which is slightly earlier than average runoff. Actual runoff was close enough to predicted that it did not significantly affect management of lake levels and operating objectives.

3.2 Decisions Related To Objectives

Long range forecasts and indicators for runoff timing prior to April were conflicting. Some forecasts/indicators pointed to an earlier than average runoff, while others were pointing to a later than average runoff. Chelan PUD managed the lake through winter and spring with the intent of meeting license objectives and target elevations, provided early to average runoff timing and average inflows occurred. Due to lower than average temperatures for the month of April (0.5 degrees below average), slightly less inflow occurred during April than was predicted. As a result, the elevation of Lake Chelan was 0.14 foot below the May 1 target of 1087.6, which was met on May 3. All other June-October lake elevation targets were met. Chelan PUD began spilling on June 8 to manage the refill rate of Lake Chelan in order to meet license objectives, lake elevation targets, and protect fish habitat construction work that was in progress in the Chelan River. Spill for lake level management continued until August 4; however, spill of 10 cfs for fish rescue/salvage operations continued through August 7.

Spill was initiated in early June and generation and spill were managed throughout the month of June to meet the July 1 target of 1,098.0. Lake level reached 1,099.0 on June 22. To protect fish habitat from erosion, Chelan PUD manages spill to avoid exceeding 6,000 cfs, to the extent feasible. During the 2008-2009 Operating Cycle, spill in the Chelan River was kept at or below 6,000 cfs. Peak spill in 2009 was 5,510 cfs on June 16.

Inflows continued to exceed powerhouse capacity through early August and spill for lake level management was continued through August 4. Spill continued at 10 cfs for fish rescue/salvage operations through August 7. Inflows during August were generally in balance with the reduced powerhouse capacity resulting from one turbine being down for maintenance. The lake level was maintained at or above 1,099 feet through the month of August.

3.3 Public Outreach

Chelan PUD recognizes the importance of communicating with the residents and property owners regarding plans for management of lake levels as operations change due to License requirements and runoff forecasts. During 2008-2009 lake level operating cycles, Chelan PUD notified the public and waterfront residents regarding lake level operations through publication in local newspaper articles, radio interviews, public meetings, and one mailing. The letter was sent on September 11, 2008 informing residents regarding the lowering of lake elevation between Labor Day and the beginning of October. Additionally, Chelan PUD regularly publicizes availability of its web page link for information related to lake levels, runoff forecasts and other information.

***APPENDIX A: DAILY AVERAGE LAKE CHELAN ELEVATIONS,
INFLOW AND OUTFLOW***

DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
9/1/2008	1099.3	1099.3	789	769	1546	0	NA	1546
9/2/2008	1099.2	1099.2	686	490	1636	0	NA	1636
9/3/2008	1099.1	1099.1	617	508	1570	0	NA	1570
9/4/2008	1099.1	1099.1	576	562	1568	0	NA	1568
9/5/2008	1099.0	1099.1	574	433	1485	0	NA	1485
9/6/2008	1099.0	1099.0	582	545	1496	0	NA	1496
9/7/2008	1098.9	1098.9	573	571	1557	0	NA	1557
9/8/2008	1098.9	1098.9	537	465	1108	0	NA	1108
9/9/2008	1098.8	1098.8	523	487	1223	0	NA	1223
9/10/2008	1098.8	1098.8	486	569	1575	0	NA	1575
9/11/2008	1098.7	1098.7	462	507	1590	0	NA	1590
9/12/2008	1098.6	1098.7	491	383	1497	0	NA	1497
9/13/2008	1098.6	1098.6	476	563	1568	0	NA	1568
9/14/2008	1098.5	1098.5	450	536	983	0	NA	983
9/15/2008	1098.5	1098.5	444	467	1674	0	NA	1674
9/16/2008	1098.4	1098.4	439	534	1910	0	NA	1910
9/17/2008	1098.3	1098.3	451	544	1922	0	NA	1922
9/18/2008	1098.2	1098.2	476	496	1757	0	NA	1757
9/19/2008	1098.2	1098.2	484	712	1028	0	NA	1028
9/20/2008	1098.1	1098.2	475	633	1572	0	NA	1572
9/21/2008	1098.1	1098.1	510	461	1363	0	NA	1363
9/22/2008	1098.0	1098.0	539	456	1995	0	NA	1995
9/23/2008	1097.9	1097.9	438	360	1583	0	NA	1583
9/24/2008	1097.8	1097.8	382	173	1579	0	NA	1579
9/25/2008	1097.8	1097.8	434	302	1593	0	NA	1593
9/26/2008	1097.7	1097.7	407	332	1592	0	NA	1592
9/27/2008	1097.6	1097.6	350	446	1701	0	NA	1701
9/28/2008	1097.5	1097.5	318	378	1657	0	NA	1657
9/29/2008	1097.5	1097.5	294	412	1495	0	NA	1495
9/30/2008	1097.4	1097.4	285	380	1660	0	NA	1660
10/1/2008	1097.3	1097.3	296	462	1706	0	NA	1706
10/2/2008	1097.2	1097.2	333	588	2153	0	NA	2153
10/3/2008	1097.1	1097.1	344	816	2146	0	NA	2146
10/4/2008	1097.0	1097.1	583	767	2137	0	NA	2137
10/5/2008	1097.0	1097.0	642	926	2141	0	NA	2141
10/6/2008	1096.9	1096.9	463	974	2141	0	NA	2141
10/7/2008	1096.8	1096.8	755	797	2139	0	NA	2139
10/8/2008	1096.8	1096.8	599	568	2138	0	NA	2138
10/9/2008	1096.6	1096.6	494	566	2140	0	NA	2140

² The total estimated inflow is based on calculations from changes in lake water surface elevation, which is highly variable due to wind, measurement error and other factors. Thus, daily inflow estimates may be obviously too low (even negative, which is impossible) or too high when compared to the inflow from the Stehekin River. When the estimated inflow is averaged over a period of ten days or more, it is reasonably accurate and useful to determine the proportion of inflow coming from high elevation snow melt versus low elevation runoff and rainfall. Inflows in early spring typically have a high contribution from low elevation sources, whereas late summer and fall inflow is predominately from the Stehekin River.

DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
10/10/2008	1096.5	1096.5	433	356	2138	0	NA	2138
10/11/2008	1096.4	1096.4	386	357	2135	0	NA	2135
10/12/2008	1096.3	1096.3	355	460	2139	0	NA	2139
10/13/2008	1096.2	1096.2	426	474	2141	0	NA	2141
10/14/2008	1096.1	1096.1	721	546	2146	0	NA	2146
10/15/2008	1096.0	1096.0	534	659	2145	0	NA	2145
10/16/2008	1095.9	1095.9	478	671	2147	0	NA	2147
10/17/2008	1095.8	1095.9	532	579	2140	0	NA	2140
10/18/2008	1095.8	1095.8	597	646	2137	0	NA	2137
10/19/2008	1095.7	1095.7	500	686	2138	0	NA	2138
10/20/2008	1095.6	1095.6	467	553	2142	0	NA	2142
10/21/2008	1095.5	1095.5	452	470	2141	0	NA	2141
10/22/2008	1095.4	1095.4	413	531	2141	0	NA	2141
10/23/2008	1095.3	1095.3	392	457	2141	0	NA	2141
10/24/2008	1095.2	1095.2	369	352	2142	0	NA	2142
10/25/2008	1095.1	1095.1	345	411	2141	0	NA	2141
10/26/2008	1094.9	1095.0	325	462	2140	0	NA	2140
10/27/2008	1094.8	1094.8	307	391	2144	0	NA	2144
10/28/2008	1094.7	1094.7	296	387	2146	0	NA	2146
10/29/2008	1094.6	1094.6	288	456	2145	0	NA	2145
10/30/2008	1094.5	1094.5	275	449	2147	0	NA	2147
10/31/2008	1094.4	1094.4	283	541	2145	0	NA	2145
11/1/2008	1094.3	1094.3	330	600	2146	0	NA	2146
11/2/2008	1094.3	1094.3	408	836	2145	0	NA	2145
11/3/2008	1094.2	1094.2	412	776	2148	0	NA	2148
11/4/2008	1094.1	1094.1	394	781	2148	0	NA	2148
11/5/2008	1094.0	1094.0	354	1027	2085	0	NA	2085
11/6/2008	1093.9	1093.9	374	1657	2151	0	NA	2151
11/7/2008	1093.9	1093.9	2170	1812	2149	0	NA	2149
11/8/2008	1094.0	1094.0	2330	2111	2148	0	NA	2148
11/9/2008	1094.0	1094.0	1690	2367	2145	0	NA	2145
11/10/2008	1094.0	1094.0	1370	3041	2147	0	NA	2147
11/11/2008	1094.0	1094.0	1210	3672	2151	0	NA	2151
11/12/2008	1094.2	1094.2	5190	3754	2148	0	NA	2148
11/13/2008	1094.5	1094.5	3770	3853	2144	0	NA	2144
11/14/2008	1094.5	1094.5	2400	4080	2139	0	NA	2139
11/15/2008	1094.5	1094.5	2180	3480	2140	0	NA	2140
11/16/2008	1094.6	1094.6	2070	2519	2139	0	NA	2139
11/17/2008	1094.6	1094.6	1820	2332	2142	0	NA	2142
11/18/2008	1094.6	1094.6	1630	2202	2141	0	NA	2141
11/19/2008	1094.6	1094.6	1450	2010	2144	0	NA	2144
11/20/2008	1094.5	1094.6	1320	1808	2141	0	NA	2141
11/21/2008	1094.5	1094.5	1200	1586	2145	0	NA	2145
11/22/2008	1094.5	1094.5	1110	1496	2143	0	NA	2143
11/23/2008	1094.4	1094.4	989	1371	2142	0	NA	2142
11/24/2008	1094.4	1094.4	912	1222	2148	0	NA	2148
11/25/2008	1094.3	1094.3	850	1056	2149	0	NA	2149
11/26/2008	1094.2	1094.2	781	1060	2146	0	NA	2146

DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
11/27/2008	1094.2	1094.2	725	984	2146	0	NA	2146
11/28/2008	1094.1	1094.1	689	1049	2148	0	NA	2148
11/29/2008	1094.0	1094.0	731	1034	2149	0	NA	2149
11/30/2008	1094.0	1094.0	954	1107	2150	0	NA	2150
12/1/2008	1093.9	1093.9	905	1102	2148	0	NA	2148
12/2/2008	1093.8	1093.9	916	1181	2153	0	NA	2153
12/3/2008	1093.8	1093.8	856	1067	2151	0	NA	2151
12/4/2008	1093.7	1093.7	772	1078	2155	0	NA	2155
12/5/2008	1093.6	1093.6	729	1118	2151	0	NA	2151
12/6/2008	1093.6	1093.6	725	1147	2147	0	NA	2147
12/7/2008	1093.5	1093.5	781	1000	2150	0	NA	2150
12/8/2008	1093.5	1093.5	729	1044	2153	0	NA	2153
12/9/2008	1093.4	1093.4	677	1010	2154	0	NA	2154
12/10/2008	1093.3	1093.3	677	897	2156	0	NA	2156
12/11/2008	1093.2	1093.2	637	846	2155	0	NA	2155
12/12/2008	1093.1	1093.2	612	846	2156	0	NA	2156
12/13/2008	1093.1	1093.1	580	775	2162	0	NA	2162
12/14/2008	1093.0	1093.0	520	717	2161	0	NA	2161
12/15/2008	1092.9	1092.9	Ice	692	2165	0	NA	2165
12/16/2008	1092.8	1092.8	Ice	716	2165	0	NA	2165
12/17/2008	1092.7	1092.7	Ice	689	2171	0	NA	2171
12/18/2008	1092.6	1092.6	Ice	622	2171	0	NA	2171
12/19/2008	1092.5	1092.5	Ice	723	2170	0	NA	2170
12/20/2008	1092.4	1092.4	Ice	763	2169	0	NA	2169
12/21/2008	1092.3	1092.4	Ice	658	2173	0	NA	2173
12/22/2008	1092.3	1092.3	Ice	715	2178	0	NA	2178
12/23/2008	1092.2	1092.2	Ice	781	2175	0	NA	2175
12/24/2008	1092.1	1092.1	Ice	653	2174	0	NA	2174
12/25/2008	1092.0	1092.0	Ice	705	2173	0	NA	2173
12/26/2008	1091.9	1091.9	Ice	823	2177	0	NA	2177
12/27/2008	1091.8	1091.8	Ice	854	2179	0	NA	2179
12/28/2008	1091.7	1091.8	Ice	842	2173	0	NA	2173
12/29/2008	1091.7	1091.7	Ice	1027	2179	0	NA	2179
12/30/2008	1091.6	1091.6	Ice	960	2177	0	NA	2177
12/31/2008	1091.5	1091.5	Ice	916	2177	0	NA	2177
1/1/2009	1091.4	1091.4	Ice	813	2177	0	NA	2177
1/2/2009	1091.4	1091.4	Ice	781	2178	0	NA	2178
1/3/2009	1091.2	1091.3	Ice	789	2183	0	NA	2183
1/4/2009	1091.1	1091.1	Ice	906	2189	0	NA	2189
1/5/2009	1091.1	1091.1	Ice	1939	2188	0	NA	2188
1/6/2009	1091.0	1091.1	263	2138	2188	0	NA	2188
1/7/2009	1091.3	1091.3	1070	2538	2183	0	NA	2183
1/8/2009	1091.2	1091.2	2110	2638	2179	0	NA	2179
1/9/2009	1091.2	1091.3	1650	2661	2180	0	NA	2180
1/10/2009	1091.2	1091.2	1300	1764	2182	0	NA	2182
1/11/2009	1091.2	1091.2	1140	1841	2180	0	NA	2180
1/12/2009	1091.1	1091.2	1130	1693	2184	0	NA	2184
1/13/2009	1091.1	1091.1	1160	1560	2182	0	NA	2182

DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
1/14/2009	1091.1	1091.1	1100	1576	2191	0	NA	2191
1/15/2009	1091.0	1091.1	1010	1519	2197	0	NA	2197
1/16/2009	1091.0	1091.0	931	1384	2193	0	NA	2193
1/17/2009	1090.9	1090.9	864	1244	2190	0	NA	2190
1/18/2009	1090.9	1090.9	809	1214	2183	0	NA	2183
1/19/2009	1090.8	1090.8	762	1027	2190	0	NA	2190
1/20/2009	1090.7	1090.7	723	992	2189	0	NA	2189
1/21/2009	1090.6	1090.7	685	969	2197	0	NA	2197
1/22/2009	1090.6	1090.6	648	897	2191	0	NA	2191
1/23/2009	1090.5	1090.5	609	882	2190	0	NA	2190
1/24/2009	1090.4	1090.4	581	914	2189	0	NA	2189
1/25/2009	1090.3	1090.3	553	795	2195	0	NA	2195
1/26/2009	1090.2	1090.3	510	777	2204	0	NA	2204
1/27/2009	1090.1	1090.2	503	828	2204	0	NA	2204
1/28/2009	1090.1	1090.1	488	733	2203	0	NA	2203
1/29/2009	1090.0	1090.0	461	819	2206	0	NA	2206
1/30/2009	1089.9	1089.9	441	769	2198	0	NA	2198
1/31/2009	1089.8	1089.8	426	737	2196	0	NA	2196
2/1/2009	1089.7	1089.7	404	650	2194	0	NA	2194
2/2/2009	1089.6	1089.6	396	680	2196	0	NA	2196
2/3/2009	1089.5	1089.5	377	577	2202	0	NA	2202
2/4/2009	1089.4	1089.4	363	693	2200	0	NA	2200
2/5/2009	1089.3	1089.3	351	642	2205	0	NA	2205
2/6/2009	1089.2	1089.2	341	658	2207	0	NA	2207
2/7/2009	1089.1	1089.2	327	674	2200	0	NA	2200
2/8/2009	1089.0	1089.1	318	614	2209	0	NA	2209
2/9/2009	1088.9	1089.0	310	566	2215	0	NA	2215
2/10/2009	1088.8	1088.9	298	581	2218	0	NA	2218
2/11/2009	1088.7	1088.7	289	553	2213	0	NA	2213
2/12/2009	1088.6	1088.6	279	532	2212	0	NA	2212
2/13/2009	1088.5	1088.5	270	540	2217	0	NA	2217
2/14/2009	1088.4	1088.4	262	612	2214	0	NA	2214
2/15/2009	1088.3	1088.3	255	597	2215	0	NA	2215
2/16/2009	1088.2	1088.2	252	490	2215	0	NA	2215
2/17/2009	1088.1	1088.1	242	596	2218	0	NA	2218
2/18/2009	1088.0	1088.0	234	621	1686	0	NA	1685
2/19/2009	1088.0	1088.0	228	512	2222	0	NA	2222
2/20/2009	1087.9	1087.9	222	202	2225	0	NA	2225
2/21/2009	1087.7	1087.8	216	269	2053	0	NA	2053
2/22/2009	1087.7	1087.7	213	277	253	0	NA	253
2/23/2009	1087.7	1087.7	211	257	252	0	NA	252
2/24/2009	1087.7	1087.7	216	438	251	0	NA	251
2/25/2009	1087.7	1087.7	219	762	252	0	NA	252
2/26/2009	1087.7	1087.8	213	786	1223	0	NA	1223
2/27/2009	1087.7	1087.7	196	524	1540	0	NA	1540
2/28/2009	1087.6	1087.6	199	728	1430	0	NA	1430
3/1/2009	1087.6	1087.6	199	786	250	0	NA	250
3/2/2009	1087.6	1087.6	212	871	1220	2	NA	1222

DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
3/3/2009	1087.6	1087.6	213	735	1541	0	NA	1541
3/4/2009	1087.6	1087.6	209	800	1536	0	NA	1536
3/5/2009	1087.5	1087.6	226	642	583	0	NA	583
3/6/2009	1087.5	1087.6	205	485	250	0	NA	250
3/7/2009	1087.6	1087.6	208	199	250	0	NA	250
3/8/2009	1087.6	1087.6	201	556	250	0	NA	250
3/9/2009	1087.5	1087.6	196	660	450	0	NA	450
3/10/2009	1087.5	1087.6	179	558	1659	0	NA	1659
3/11/2009	1087.5	1087.5	166	278	1194	0	NA	1194
3/12/2009	1087.5	1087.5	179	527	918	0	NA	918
3/13/2009	1087.4	1087.4	181	504	254	0	NA	254
3/14/2009	1087.4	1087.4	181	689	804	0	NA	804
3/15/2009	1087.4	1087.4	183	716	1453	0	NA	1453
3/16/2009	1087.4	1087.4	177	1021	2073	0	NA	2073
3/17/2009	1087.3	1087.3	181	932	1802	0	NA	1802
3/18/2009	1087.2	1087.2	173	726	1886	0	NA	1886
3/19/2009	1087.1	1087.1	176	538	1855	0	NA	1855
3/20/2009	1087.0	1087.1	185	351	1860	0	NA	1860
3/21/2009	1087.0	1087.0	201	475	1840	0	NA	1840
3/22/2009	1086.9	1086.9	195	470	805	0	NA	805
3/23/2009	1086.9	1086.9	195	636	1860	0	NA	1860
3/24/2009	1086.8	1086.8	198	523	1850	0	NA	1850
3/25/2009	1086.7	1086.7	217	745	1845	0	NA	1845
3/26/2009	1086.6	1086.6	215	584	1773	0	NA	1773
3/27/2009	1086.5	1086.5	224	702	2190	0	NA	2190
3/28/2009	1086.4	1086.4	252	409	2190	0	NA	2190
3/29/2009	1086.3	1086.4	247	448	2190	0	NA	2190
3/30/2009	1086.2	1086.3	243	338	1357	0	NA	1357
3/31/2009	1086.2	1086.2	264	352	1017	0	NA	1017
4/1/2009	1086.1	1086.2	261	345	1013	0	NA	1013
4/2/2009	1086.1	1086.1	276	561	1011	0	NA	1011
4/3/2009	1086.1	1086.1	261	453	1011	0	NA	1011
4/4/2009	1086.1	1086.1	258	609	1011	0	NA	1011
4/5/2009	1086.0	1086.1	268	615	1010	0	NA	1010
4/6/2009	1086.0	1086.1	297	642	1011	0	NA	1011
4/7/2009	1086.0	1086.0	370	700	1011	0	NA	1011
4/8/2009	1086.0	1086.0	531	933	1013	0	NA	1013
4/9/2009	1086.0	1086.0	705	1049	1010	0	NA	1010
4/10/2009	1086.0	1086.0	741	1237	1012	0	NA	1012
4/11/2009	1086.0	1086.1	813	1392	1011	0	NA	1011
4/12/2009	1086.1	1086.1	897	1398	1011	0	NA	1011
4/13/2009	1086.1	1086.1	969	1461	1010	0	NA	1010
4/14/2009	1086.1	1086.2	912	1441	1011	0	NA	1011
4/15/2009	1086.1	1086.2	873	1449	1031	0	NA	1031
4/16/2009	1086.2	1086.2	873	1424	1059	0	NA	1059
4/17/2009	1086.2	1086.2	977	1447	1060	0	NA	1060
4/18/2009	1086.2	1086.2	1100	1546	1060	0	NA	1060
4/19/2009	1086.3	1086.3	1160	1792	1058	0	NA	1058

DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
4/20/2009	1086.3	1086.3	1470	2111	1081	0	NA	1081
4/21/2009	1086.4	1086.4	2120	2576	1110	0	NA	1110
4/22/2009	1086.5	1086.5	2760	3030	1110	0	NA	1110
4/23/2009	1086.7	1086.7	2580	3325	1107	0	NA	1107
4/24/2009	1086.8	1086.9	2220	3378	1106	0	NA	1106
4/25/2009	1087.0	1087.0	1960	3098	1096	0	NA	1096
4/26/2009	1087.1	1087.1	1760	2805	1097	0	NA	1097
4/27/2009	1087.1	1087.2	1660	2467	1101	0	NA	1101
4/28/2009	1087.2	1087.2	1580	2326	1099	0	NA	1099
4/29/2009	1087.3	1087.3	1510	2093	1099	0	NA	1099
4/30/2009	1087.4	1087.4	1440	2192	1100	0	NA	1100
5/1/2009	1087.4	1087.4	1440	2084	1095	0	NA	1095
5/2/2009	1087.5	1087.5	1520	2213	1090	0	NA	1090
5/3/2009	1087.5	1087.6	1580	2247	1090	0	NA	1090
5/4/2009	1087.6	1087.6	1680	2546	1097	0	NA	1097
5/5/2009	1087.7	1087.7	1990	2679	1095	0	NA	1095
5/6/2009	1087.8	1087.9	2010	2847	1093	0	NA	1093
5/7/2009	1088.0	1088.0	1910	2764	1091	0	NA	1091
5/8/2009	1088.1	1088.1	1770	2742	1094	0	NA	1094
5/9/2009	1088.1	1088.2	1730	2634	1093	0	NA	1093
5/10/2009	1088.2	1088.2	1760	2602	1090	0	NA	1090
5/11/2009	1088.3	1088.3	2050	2574	1095	0	NA	1095
5/12/2009	1088.4	1088.4	2200	2773	1100	0	NA	1100
5/13/2009	1088.5	1088.6	2030	2776	1100	0	NA	1100
5/14/2009	1088.7	1088.7	1930	2772	1096	0	NA	1096
5/15/2009	1088.8	1088.8	1830	2702	1056	0	NA	1057
5/16/2009	1088.8	1088.8	1850	2967	1093	0	NA	1095
5/17/2009	1088.9	1088.9	2400	3637	1092	0	NA	1092
5/18/2009	1089.1	1089.1	3920	4413	1098	0	NA	1099
5/19/2009	1089.4	1089.4	4720	4990	1102	0	NA	1102
5/20/2009	1089.8	1089.8	3590	5319	1100	0	NA	1100
5/21/2009	1090.0	1090.0	3010	5619	1100	0	NA	1100
5/22/2009	1090.2	1090.2	2920	5665	1098	0	NA	1098
5/23/2009	1090.5	1090.5	3330	5567	1094	0	NA	1095
5/24/2009	1090.8	1090.9	3980	5722	1090	0	NA	1091
5/25/2009	1091.2	1091.2	4440	6087	1089	0	NA	1090
5/26/2009	1091.5	1091.5	4610	6219	1092	0	NA	1093
5/27/2009	1091.8	1091.8	4210	6295	1097	0	NA	1097
5/28/2009	1092.1	1092.1	4260	6968	1092	0	NA	1093
5/29/2009	1092.4	1092.5	5350	7667	1024	0	NA	1025
5/30/2009	1093.0	1093.0	6450	8121	1082	0	NA	1085
5/31/2009	1093.5	1093.5	6060	8556	1080	0	NA	1083
6/1/2009	1093.9	1093.9	5660	8957	1083	2	NA	1085
6/2/2009	1094.4	1094.4	5910	8837	1085	0	NA	1088
6/3/2009	1094.8	1094.9	5980	8707	1087	1	NA	1088
6/4/2009	1095.3	1095.3	5870	8999	1080	2	NA	1083
6/5/2009	1095.8	1095.8	6160	8996	1074	3	NA	1077
6/6/2009	1096.3	1096.4	6470	8654	1069	1	NA	1072

DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

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6/7/2009	1096.8	1096.8	5620	8193	1073	0	NA	1073
6/8/2009	1097.1	1097.2	4650	7633	1078	146	NA	1224
6/9/2009	1097.5	1097.5	4330	7078	1048	238	NA	1283
6/10/2009	1097.8	1097.8	4190	6810	1073	284	NA	1358
6/11/2009	1098.1	1098.1	4230	6675	1074	890	NA	1963
6/12/2009	1098.3	1098.3	4340	6690	1078	2669	NA	3744
6/13/2009	1098.4	1098.4	4630	6877	1077	3026	NA	4102
6/14/2009	1098.6	1098.6	4630	6892	1070	3048	NA	4119
6/15/2009	1098.7	1098.7	4630	6569	1077	3710	NA	4786
6/16/2009	1098.8	1098.8	4260	6124	1076	5031	NA	6109
6/17/2009	1098.8	1098.8	3750	5649	1080	4459	NA	5539
6/18/2009	1098.7	1098.7	3560	5170	1080	3468	NA	4547
6/19/2009	1098.8	1098.8	3230	4693	1076	2524	NA	3600
6/20/2009	1098.9	1098.9	3040	4164	1072	2005	NA	3079
6/21/2009	1099.0	1099.0	2740	3651	1070	2016	NA	3086
6/22/2009	1099.0	1099.0	2260	3418	1075	1495	NA	2567
6/23/2009	1099.0	1099.0	1970	3139	348	1003	NA	1351
6/24/2009	1099.1	1099.2	1940	2855	17	1010	NA	1024
6/25/2009	1099.3	1099.3	2200	2877	23	1016	NA	1041
6/26/2009	1099.4	1099.4	2110	3139	509	1020	NA	1526
6/27/2009	1099.4	1099.4	2060	3027	1074	1020	NA	2095
6/28/2009	1099.5	1099.5	2190	2945	1075	1027	NA	2101
6/29/2009	1099.5	1099.6	2160	2755	1078	572	NA	1650
6/30/2009	1099.6	1099.6	1980	2645	1072	525	NA	1598
7/1/2009	1099.6	1099.7	1880	2585	1072	1199	NA	2267
7/2/2009	1099.6	1099.7	1890	2792	1071	1200	NA	2270
7/3/2009	1099.7	1099.7	2150	2827	1070	1200	NA	2267
7/4/2009	1099.7	1099.8	2350	3145	1068	1202	NA	2271
7/5/2009	1099.8	1099.8	2310	3328	1061	1556	NA	2618
7/6/2009	1099.8	1099.8	2180	3044	1071	2433	NA	3503
7/7/2009	1099.8	1099.8	1880	2688	1077	2999	NA	4075
7/8/2009	1099.7	1099.7	1570	2374	1077	1021	NA	2095
7/9/2009	1099.7	1099.7	1390	1904	1064	347	NA	1410
7/10/2009	1099.7	1099.7	1460	1828	1051	350	NA	1400
7/11/2009	1099.8	1099.8	1620	2287	1041	386	NA	1426
7/12/2009	1099.8	1099.8	1890	2422	1035	555	NA	1586
7/13/2009	1099.9	1099.9	1960	2390	1036	1163	NA	2196
7/14/2009	1099.9	1099.9	1710	2470	1042	1503	NA	2547
7/15/2009	1099.8	1099.9	1600	2360	1033	1350	NA	2384
7/16/2009	1099.9	1099.8	1510	2057	1034	1000	NA	2035
7/17/2009	1099.9	1099.9	1600	1971	1032	1000	NA	2033
7/18/2009	1099.9	1099.9	1620	1972	1030	1000	NA	2030
7/19/2009	1099.9	1099.9	1500	1873	1030	1000	NA	2031
7/20/2009	1099.8	1099.8	1370	1876	1033	848	NA	1878
7/21/2009	1099.8	1099.8	1420	1944	1046	720	NA	1765
7/22/2009	1099.9	1099.9	1520	1838	1059	720	NA	1777
7/23/2009	1099.9	1099.9	1550	1910	1058	720	NA	1777
7/24/2009	1099.9	1099.9	1520	2178	1053	759	NA	1812

DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total ² Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
7/25/2009	1099.9	1099.9	1590	2172	1050	504	NA	1553
7/26/2009	1100.0	1100.0	1780	2067	1053	783	NA	1836
7/27/2009	1099.9	1100.0	1970	2321	1060	1497	NA	2555
7/28/2009	1099.9	1099.9	1870	2700	1060	1495	NA	2553
7/29/2009	1099.9	1099.9	1730	2460	1060	1522	NA	2584
7/30/2009	1099.9	1100.0	1850	2391	1060	1990	NA	3051
7/31/2009	1099.9	1099.9	1650	2385	1061	1865	NA	2924
8/1/2009	1099.8	1099.8	1500	2113	1055	1697	NA	2750
8/2/2009	1099.8	1099.8	1370	1613	1052	1613	NA	2669
8/3/2009	1099.8	1099.8	1310	1495	1057	799	NA	1856
8/4/2009	1099.7	1099.8	1170	1329	1062	127	NA	1187
8/5/2009	1099.7	1099.8	1020	1211	1062	10	NA	1069
8/6/2009	1099.8	1099.8	890	1101	1060	10	NA	1068
8/7/2009	1099.8	1099.8	859	1029	1058	2	NA	1061
8/8/2009	1099.8	1099.8	829	990	1054	0	NA	1060
8/9/2009	1099.7	1099.7	793	1035	1052	0	NA	1060
8/10/2009	1099.7	1099.7	741	987	1056	0	NA	1060
8/11/2009	1099.7	1099.7	1320	1041	1060	0	NA	1060
8/12/2009	1099.7	1099.7	1010	1058	1060	0	NA	1060
8/13/2009	1099.7	1099.8	822	1027	1053	0	NA	1053
8/14/2009	1099.7	1099.7	768	756	1043	0	NA	1043
8/15/2009	1099.7	1099.7	694	626	1042	0	NA	1042
8/16/2009	1099.7	1099.7	628	604	1040	0	NA	1040
8/17/2009	1099.6	1099.6	636	587	1040	0	NA	1040
8/18/2009	1099.6	1099.6	709	539	1047	0	NA	1047
8/19/2009	1099.6	1099.6	819	933	1050	0	NA	1050
8/20/2009	1099.6	1099.6	930	1011	1050	0	NA	1050
8/21/2009	1099.6	1099.6	958	973	1050	0	NA	1050
8/22/2009	1099.6	1099.6	793	776	1047	0	NA	1047
8/23/2009	1099.6	1099.6	654	770	1040	0	NA	1040
8/24/2009	1099.5	1099.5	573	486	1046	0	NA	1046
8/25/2009	1099.5	1099.5	542	294	1046	0	NA	1046
8/26/2009	1099.5	1099.5	479	309	1046	0	NA	1046
8/27/2009	1099.4	1099.4	453	467	1042	0	NA	1042
8/28/2009	1099.4	1099.4	508	398	1045	0	NA	1045
8/29/2009	1099.4	1099.4	599	414	648	0	NA	648
8/30/2009	1099.3	1099.3	642	686	1051	0	NA	1051
8/31/2009	1099.3	1099.3	738	655	1053	0	NA	1053