



**PUBLIC UTILITY DISTRICT NO. 1 of CHELAN COUNTY**  
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February 28, 2011

**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 – 2010 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”<sup>1</sup> (License) and “Order on Rehearing”<sup>2</sup> 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.

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<sup>1</sup> 117 FERC ¶ 62,129

<sup>2</sup> 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 2010 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 25, 2011.<sup>3</sup> 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 2010 Annual Lake Level Report

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<sup>3</sup> This correspondence is available at the following Internet address:  
[http://www.chelanpud.org/departments/licensingCompliance/lc\\_implementation/corres/36085.pdf](http://www.chelanpud.org/departments/licensingCompliance/lc_implementation/corres/36085.pdf)

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# **LAKE CHELAN ANNUAL LAKE LEVEL REPORT 2009-2010 OPERATING CYCLE**

**LICENSE ARTICLE 405**

<b>FINAL</b>
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**LAKE CHELAN HYDROELECTRIC PROJECT  
FERC Project No. 637**

**February 28, 2011**



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

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## ***EXECUTIVE SUMMARY***

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Chelan PUD received a new license (License) from the Federal Energy Regulatory Commission (FERC)<sup>1</sup> 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 2009-2010 Operating Cycle resulted in lake levels being at or above the target minimum lake levels that are required by the License for recreation in May, June, July, August, September, and October. The lake level reached 1,099 feet on July 10 and was operated at or above 1,099 feet from July 10 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. 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. Chelan PUD began spill of excess water at the dam on May 21 for six days, and again on June 3 to manage the refill rate of Lake Chelan in order to meet license objectives, lake elevation targets, and protect recently constructed fish habitat in the Chelan River. Spill for lake level management continued until July 23. Further spill for pond control occurred July 30 - August 6 and August 19-20.

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<sup>1</sup> 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 fourth 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 2009 – August 2010 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**

<b>Date</b>	<b>Minimum Elevation (feet)</b>
September 7, 2009	1098.7
October 1, 2009	1097.2
May 1, 2010	1087.6
June 1, 2010	1094.0
July 1, 2010	1098.0
August 1, 2010	1099.0

The Project's operations during the 2009-2010 Operating Cycle met management objectives for recreation throughout the year, with all target elevations met. 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.

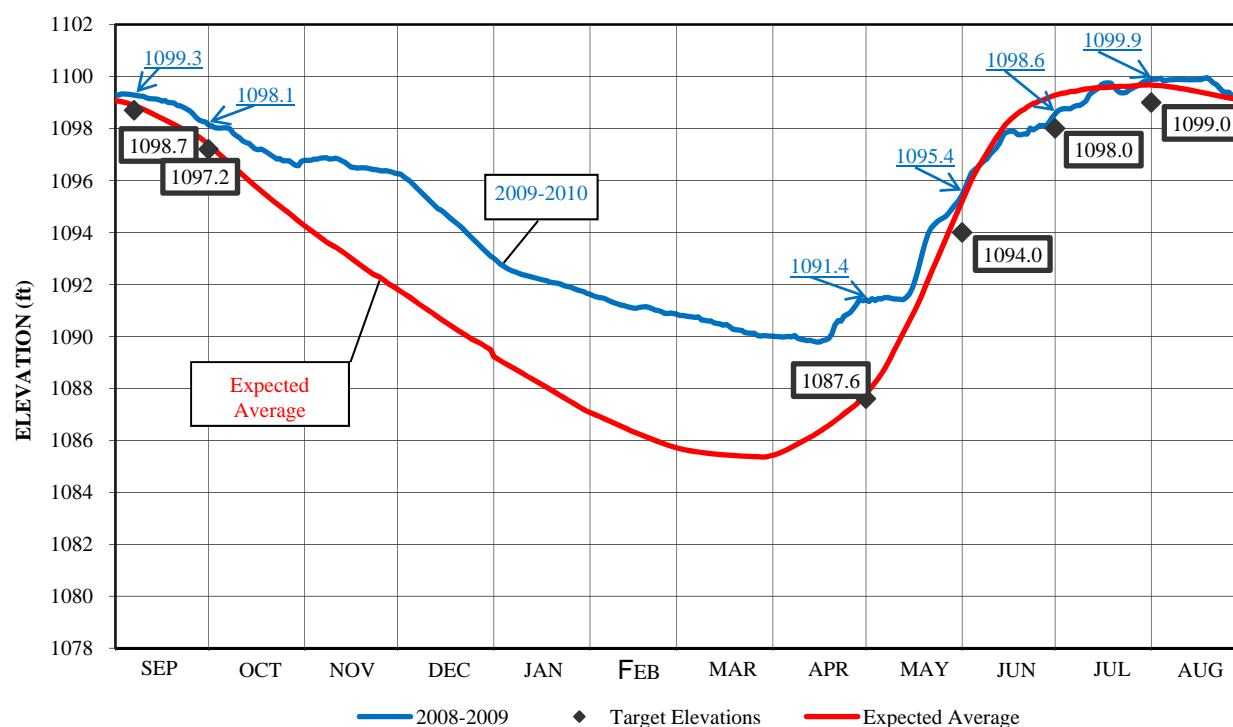
### ***2.1 Lake Levels – Actual Compared to Targets***

Chelan PUD's operation of the Project during the 2009-2010 Operating Cycle resulted in lake levels being at or above all (Sept., Oct., May-August) target minimum lake levels that are required by the License. The lake level reached 1,099 feet on July 10 and was operated at or above 1,099 feet from July 10 through August. Chelan PUD began spill of excess water at the

dam on May 21 for six days, and again on June 3 to manage the refill rate of Lake Chelan in order to meet license objectives, lake elevation targets, and protect recently constructed fish habitat in the Chelan River. Spill for lake level management continued until July 23. Further spill for pond control occurred July 30- August 6 and August 19-20. Spill of excess water included flow through the spillway and flow from the low level outlet.

Figure 1 shows the actual 2009-2010 lake levels compared to the expected average lake levels that will result from operations under the License conditions.

**Figure 2-1: Figure Lake Chelan Surface Elevations in 2009-2010 Compared to License Target Elevations and Expected Average Elevations.**



*2009-2010 Lake Level Report***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 and low level outlet. 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.

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 may 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. Protection of the recently constructed fish habitat in the Chelan River was, and will continue to be, a primary factor in managing the spill of excess water through the term of the License.

#### ***3.1 Runoff Forecasts***

April 1 through July 31, 2010 Runoff Forecasts for the Chelan Basin were produced on February 1, March 1 and April 1 of 2010. 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 April – July 2010**

Month	Volume (SFD)	Percent of Normal	Lake Elevation (feet)	Feet Above/Below Normal	Volume to Refill (SFD)
February 1	435,800	83	1091.6	+4.5	137,858
March 1	425,300	81	1090.8	+5.1	150,987
April 1	435,800	83	1090	+4.6	164,117

Actual runoff for April 1 – July 31 was 101% of average. Actual runoff was considerably higher than forecasted on April 1 due to above average precipitation in May and June. Lake levels were successfully managed using spill as defined in Chapter 8 of the Lake Chelan Comprehensive Plan.

*2009-2010 Lake Level Report***3.2 Decisions Related To Objectives**

Long range forecasts and indicators for runoff timing prior to April were conflicting. 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. Chelan PUD began spilling on May 21 for six days, and again on June 3 to manage the refill rate of Lake Chelan in order to meet license objectives, lake elevation targets, and protect recently constructed fish habitat in the Chelan River. Spill for lake level management continued until July 23. Further spill for pond control occurred July 30- August 6 and August 19-20.

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 July 10. In this Operating Cycle, Chelan PUD was able to manage spill levels to protect the habitat channel while shoreline plantings become established. Peak daily average spill in 2010 was 5,081 on June 27.

Inflows continued to exceed powerhouse capacity through late July and spill for lake level management was continued through July 23. 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 2009-2010 lake level operating cycles, Chelan PUD regularly publicized 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***

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## DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total <sup>2</sup> Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
9/1/2009	1099.3	1099.3	800	868	1047	0	N/A	1047
9/2/2009	1099.3	1099.3	787	1002	1055	0	N/A	1055
9/3/2009	1099.3	1099.3	1130	1081	753	0	N/A	753
9/4/2009	1099.3	1099.3	903	991	983	0	N/A	983
9/5/2009	1099.3	1099.3	984	998	1050	0	N/A	1050
9/6/2009	1099.3	1099.3	900	798	1050	0	N/A	1050
9/7/2009	1099.3	1099.3	867	800	1050	0	N/A	1050
9/8/2009	1099.3	1099.3	762	791	1050	0	N/A	1050
9/9/2009	1099.2	1099.3	678	642	1050	0	N/A	1050
9/10/2009	1099.2	1099.2	742	589	1052	0	N/A	1052
9/11/2009	1099.2	1099.2	675	643	1052	0	N/A	1052
9/12/2009	1099.1	1099.2	685	653	1050	0	N/A	1050
9/13/2009	1099.1	1099.2	723	597	1050	0	N/A	1050
9/14/2009	1099.1	1099.2	789	636	875	0	N/A	875
9/15/2009	1099.1	1099.1	733	751	1050	58	N/A	1108
9/16/2009	1099.1	1099.1	690	511	1096	40	N/A	1136
9/17/2009	1099.1	1099.1	691	547	760	40	N/A	800
9/18/2009	1099.0	1099.0	623	550	842	40	N/A	882
9/19/2009	1099.0	1099.0	708	394	1132	40	N/A	1172
9/20/2009	1099.0	1099.0	699	367	954	40	N/A	994
9/21/2009	1098.9	1098.9	568	528	935	40	N/A	975
9/22/2009	1098.9	1098.9	562	425	1093	40	56	1189
9/23/2009	1098.8	1098.8	572	480	1472	40	25	1536
9/24/2009	1098.7	1098.7	584	664	1507	40	0	1547
9/25/2009	1098.7	1098.7	519	484	2123	40	0	2163
9/26/2009	1098.6	1098.6	510	269	2181	40	0	2221
9/27/2009	1098.4	1098.4	446	228	2190	40	0	2230
9/28/2009	1098.3	1098.3	404	154	1151	15	0	1167
9/29/2009	1098.3	1098.3	375	-59	1096	0	0	1096
9/30/2009	1098.2	1098.3	353	72	1086	0	0	1086
10/1/2009	1098.1	1098.1	325	6	1095	0	N/A	1095
10/2/2009	1098.1	1098.1	345	-111	1236	0	N/A	1236
10/3/2009	1098.0	1098.1	319	-229	343	0	N/A	343
10/4/2009	1098.0	1098.0	293	-30	30	0	N/A	30
10/5/2009	1098.0	1098.0	272	-87	40	0	N/A	40
10/6/2009	1098.0	1098.0	256	197	80	0	N/A	80
10/7/2009	1098.0	1098.0	240	94	409	0	N/A	409
10/8/2009	1098.0	1098.0	228	101	1362	0	N/A	1362
10/9/2009	1097.8	1097.8	214	65	1927	0	N/A	1927

<sup>2</sup> 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 <sup>2</sup> Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
10/10/2009	1097.7	1097.7	203	4	1537	0	N/A	1537
10/11/2009	1097.6	1097.7	193	-117	1428	0	N/A	1428
10/12/2009	1097.5	1097.5	184	395	1990	0	N/A	1990
10/13/2009	1097.5	1097.5	180	498	1080	0	N/A	1080
10/14/2009	1097.4	1097.4	202	564	2227	0	29	2256
10/15/2009	1097.3	1097.3	209	893	2233	0	80	2313
10/16/2009	1097.2	1097.2	241	1343	2193	0	80	2273
10/17/2009	1097.2	1097.2	2010	1218	2126	0	80	2206
10/18/2009	1097.2	1097.2	1500	1319	1723	0	80	1803
10/19/2009	1097.1	1097.2	960	1409	2094	0	80	2174
10/20/2009	1097.1	1097.1	773	1255	2153	0	80	2233
10/21/2009	1097.0	1097.0	695	1021	2283	0	80	2363
10/22/2009	1096.9	1096.9	726	1260	2148	0	80	2228
10/23/2009	1096.8	1096.8	1250	1154	2263	0	80	2343
10/24/2009	1096.8	1096.8	1610	1384	2107	0	80	2187
10/25/2009	1096.8	1096.8	1070	1647	1706	0	80	1786
10/26/2009	1096.8	1096.8	1740	1587	2096	0	80	2176
10/27/2009	1096.8	1096.8	1420	1271	2115	0	80	2195
10/28/2009	1096.7	1096.7	1160	1551	2108	0	80	2188
10/29/2009	1096.6	1096.6	1050	2116	2130	0	80	2210
10/30/2009	1096.6	1096.6	2710	2204	2099	0	80	2179
10/31/2009	1096.7	1096.7	3530	2333	1997	0	80	2077
11/1/2009	1096.8	1096.8	2140	2442	2061	0	80	2141
11/2/2009	1096.8	1096.8	1610	2430	1360	0	80	1440
11/3/2009	1096.8	1096.8	1360	1672	1068	0	80	1148
11/4/2009	1096.8	1096.8	1140	1472	1070	0	80	1150
11/5/2009	1096.8	1096.8	998	1476	1068	0	80	1148
11/6/2009	1096.9	1096.9	992	1459	1070	0	80	1150
11/7/2009	1096.9	1096.9	941	1159	1070	0	80	1150
11/8/2009	1096.9	1096.9	851	1193	1070	0	80	1150
11/9/2009	1096.8	1096.8	804	1165	1080	0	80	1160
11/10/2009	1096.8	1096.8	787	995	1068	0	80	1148
11/11/2009	1096.9	1096.9	762	901	1060	0	80	1140
11/12/2009	1096.8	1096.8	704	1038	1135	0	80	1215
11/13/2009	1096.8	1096.8	680	953	1645	0	80	1725
11/14/2009	1096.7	1096.7	640	818	1978	0	80	2058
11/15/2009	1096.6	1096.6	628	1008	2355	0	80	2435
11/16/2009	1096.5	1096.5	638	1011	2316	0	82	2398
11/17/2009	1096.5	1096.5	665	1069	1565	0	85	1650
11/18/2009	1096.5	1096.5	636	1122	1068	0	85	1153
11/19/2009	1096.5	1096.5	656	1160	1067	0	86	1153
11/20/2009	1096.5	1096.5	616	995	1069	0	87	1155
11/21/2009	1096.5	1096.5	588	988	1076	0	86	1162
11/22/2009	1096.4	1096.5	578	912	1074	0	86	1160
11/23/2009	1096.4	1096.4	545	846	1076	0	86	1162
11/24/2009	1096.4	1096.4	543	783	1078	0	86	1164
11/25/2009	1096.4	1096.4	533	914	1076	0	86	1162
11/26/2009	1096.4	1096.4	613	939	1075	0	86	1161

## DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total <sup>2</sup> Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
11/27/2009	1096.4	1096.4	646	879	1077	0	86	1163
11/28/2009	1096.4	1096.4	610	828	1078	0	86	1164
11/29/2009	1096.3	1096.3	611	849	1078	0	86	1164
11/30/2009	1096.3	1096.3	643	889	1131	0	86	1217
12/1/2009	1096.3	1096.3	649	825	1229	0	86	1315
12/2/2009	1096.2	1096.2	605	808	1700	0	85	1784
12/3/2009	1096.1	1096.2	568	890	2059	0	87	2146
12/4/2009	1096.1	1096.1	553	814	1948	0	87	2034
12/5/2009	1096.0	1096.0	532	572	2295	0	82	2377
12/6/2009	1095.9	1095.9	504	592	2294	0	82	2376
12/7/2009	1095.7	1095.7	437	567	2303	0	82	2385
12/8/2009	1095.6	1095.6	338	442	2302	0	82	2384
12/9/2009	1095.5	1095.5	343	431	2305	0	81	2386
12/10/2009	1095.4	1095.4	351	480	2302	0	81	2383
12/11/2009	1095.3	1095.3	373	437	2306	0	81	2387
12/12/2009	1095.1	1095.2	391	443	2305	0	81	2386
12/13/2009	1095.0	1095.0	387	665	2296	0	81	2377
12/14/2009	1094.9	1094.9	375	749	2300	0	80	2380
12/15/2009	1094.9	1094.9	362	785	2304	0	80	2384
12/16/2009	1094.8	1094.8	347	816	2301	0	80	2381
12/17/2009	1094.7	1094.7	333	876	2307	0	80	2387
12/18/2009	1094.5	1094.6	314	739	2305	0	82	2387
12/19/2009	1094.5	1094.5	307	743	2295	0	85	2380
12/20/2009	1094.4	1094.4	308	723	2303	0	84	2387
12/21/2009	1094.3	1094.3	303	654	2304	0	92	2397
12/22/2009	1094.2	1094.2	277	576	2296	0	84	2380
12/23/2009	1094.0	1094.0	257	516	2315	0	84	2399
12/24/2009	1093.9	1093.9	245	428	2283	0	84	2367
12/25/2009	1093.8	1093.8	233	394	2263	0	83	2347
12/26/2009	1093.7	1093.7	222	415	2265	0	83	2349
12/27/2009	1093.5	1093.6	188	438	2266	0	83	2349
12/28/2009	1093.4	1093.4	217	447	2298	0	83	2380
12/29/2009	1093.3	1093.3	209	466	2303	0	82	2385
12/30/2009	1093.2	1093.2	198	612	2299	0	82	2381
12/31/2009	1093.1	1093.1	197	672	2302	0	82	2384
1/1/2010	1093.0	1093.0	205	658	2299	0	82	2381
1/2/2010	1092.9	1092.9	207	815	2301	0	82	2383
1/3/2010	1092.8	1092.8	187	752	2300	0	81	2381
1/4/2010	1092.7	1092.7	193	585	2301	0	81	2383
1/5/2010	1092.6	1092.6	190	518	1526	0	81	1607
1/6/2010	1092.6	1092.6	185	573	1224	0	82	1306
1/7/2010	1092.5	1092.5	169	425	1210	0	84	1294
1/8/2010	1092.5	1092.5	166	474	1210	0	84	1294
1/9/2010	1092.4	1092.4	165	589	1209	0	84	1293
1/10/2010	1092.4	1092.4	154	670	1210	0	84	1294
1/11/2010	1092.4	1092.4	164	687	1177	0	84	1261
1/12/2010	1092.3	1092.3	158	727	1212	0	84	1296
1/13/2010	1092.3	1092.3	162	790	1210	0	84	1294

## DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total <sup>2</sup> Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
1/14/2010	1092.3	1092.3	169	754	1211	0	83	1294
1/15/2010	1092.2	1092.2	190	769	1210	0	83	1294
1/16/2010	1092.2	1092.2	173	813	1208	0	83	1291
1/17/2010	1092.2	1092.2	167	746	1209	0	83	1292
1/18/2010	1092.1	1092.2	168	755	1190	0	83	1273
1/19/2010	1092.1	1092.1	164	834	1191	0	83	1274
1/20/2010	1092.1	1092.1	177	862	1201	0	83	1284
1/21/2010	1092.1	1092.1	187	765	1210	0	83	1292
1/22/2010	1092.0	1092.0	186	779	1211	0	83	1294
1/23/2010	1092.0	1092.0	177	816	1210	0	83	1292
1/24/2010	1091.9	1091.9	175	732	1211	0	83	1294
1/25/2010	1091.9	1091.9	181	641	1212	0	82	1295
1/26/2010	1091.9	1091.9	172	638	1210	0	82	1292
1/27/2010	1091.8	1091.8	167	689	1213	0	82	1295
1/28/2010	1091.8	1091.8	163	643	1212	0	82	1294
1/29/2010	1091.7	1091.8	161	554	1217	0	82	1299
1/30/2010	1091.7	1091.7	165	601	1213	0	82	1295
1/31/2010	1091.7	1091.7	161	592	1212	0	82	1294
2/1/2010	1091.6	1091.6	160	557	1212	0	82	1293
2/2/2010	1091.6	1091.6	158	562	1213	0	82	1295
2/3/2010	1091.5	1091.5	157	735	1214	0	82	1295
2/4/2010	1091.5	1091.5	155	735	1224	0	82	1306
2/5/2010	1091.5	1091.5	167	709	1240	0	82	1322
2/6/2010	1091.4	1091.4	169	672	1241	0	82	1322
2/7/2010	1091.4	1091.4	166	622	1240	0	82	1322
2/8/2010	1091.3	1091.3	166	533	1203	0	83	1285
2/9/2010	1091.3	1091.3	166	503	1197	0	84	1281
2/10/2010	1091.2	1091.3	162	656	1213	0	84	1298
2/11/2010	1091.2	1091.2	168	697	1210	0	84	1294
2/12/2010	1091.2	1091.2	175	751	1215	0	84	1299
2/13/2010	1091.1	1091.2	179	756	1211	0	85	1296
2/14/2010	1091.1	1091.1	209	730	1209	0	85	1294
2/15/2010	1091.1	1091.1	212	639	1107	0	85	1192
2/16/2010	1091.1	1091.1	224	597	397	0	86	483
2/17/2010	1091.1	1091.1	226	616	10	0	88	98
2/18/2010	1091.1	1091.1	220	668	59	0	90	149
2/19/2010	1091.1	1091.2	215	670	710	0	81	790
2/20/2010	1091.1	1091.1	209	622	1212	0	80	1292
2/21/2010	1091.1	1091.1	205	752	1212	0	80	1292
2/22/2010	1091.0	1091.0	203	709	1215	0	80	1296
2/23/2010	1091.0	1091.0	202	553	1219	0	80	1299
2/24/2010	1091.0	1091.0	208	686	1228	0	81	1309
2/25/2010	1090.9	1090.9	201	930	1219	0	81	1300
2/26/2010	1090.9	1090.9	228	907	1209	0	81	1290
2/27/2010	1090.9	1090.9	248	943	1208	0	81	1288
2/28/2010	1090.9	1090.9	252	1009	1206	0	81	1287
3/1/2010	1090.9	1090.8	266	1067	1211	0	81	1292
3/2/2010	1090.8	1090.8	290	928	1230	2	81	1312

## DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total <sup>2</sup> Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
3/3/2010	1090.8	1090.8	357	953	1275	0	81	1355
3/4/2010	1090.8	1090.8	405	1008	1274	0	81	1355
3/5/2010	1090.8	1090.8	406	1128	1276	0	81	1357
3/6/2010	1090.7	1090.8	408	1170	1276	0	81	1357
3/7/2010	1090.7	1090.7	420	883	1276	0	81	1357
3/8/2010	1090.7	1090.8	421	899	1275	0	81	1356
3/9/2010	1090.6	1090.7	411	846	1274	0	81	1354
3/10/2010	1090.6	1090.6	397	901	1270	0	81	1350
3/11/2010	1090.6	1090.6	400	622	1273	0	81	1354
3/12/2010	1090.6	1090.6	398	905	1277	0	81	1358
3/13/2010	1090.5	1090.6	370	903	1280	0	81	1360
3/14/2010	1090.5	1090.5	351	836	1275	0	81	1356
3/15/2010	1090.5	1090.5	349	924	1278	0	81	1359
3/16/2010	1090.4	1090.4	352	891	1280	0	81	1361
3/17/2010	1090.5	1090.5	372	671	1278	0	81	1359
3/18/2010	1090.4	1090.4	370	626	1281	0	81	1362
3/19/2010	1090.3	1090.3	367	761	1278	0	81	1359
3/20/2010	1090.3	1090.3	370	615	1278	0	81	1359
3/21/2010	1090.2	1090.2	383	603	1278	0	106	1384
3/22/2010	1090.2	1090.2	418	849	1278	0	109	1386
3/23/2010	1090.1	1090.2	444	922	1271	0	81	1352
3/24/2010	1090.1	1090.1	473	941	1241	0	81	1322
3/25/2010	1090.1	1090.1	507	714	1266	0	81	1347
3/26/2010	1090.1	1090.1	547	914	1273	0	81	1354
3/27/2010	1090.0	1090.1	567	1038	1267	0	81	1348
3/28/2010	1090.0	1090.0	590	1024	1270	0	81	1351
3/29/2010	1090.0	1090.1	705	958	1231	0	81	1312
3/30/2010	1090.0	1090.0	711	1215	1269	0	81	1350
3/31/2010	1090.0	1090.0	677	1234	1065	0	81	1146
4/1/2010	1090.0	1090.0	649	1172	1226	0	81	1307
4/2/2010	1090.0	1090.0	633	1146	1257	0	81	1338
4/3/2010	1090.0	1090.0	602	1249	1258	0	81	1339
4/4/2010	1090.0	1090.0	569	1302	1256	0	81	1337
4/5/2010	1090.0	1090.0	551	1239	1260	0	81	1341
4/6/2010	1090.0	1090.0	530	1431	1233	0	81	1314
4/7/2010	1090.0	1090.0	518	1130	1021	0	81	1102
4/8/2010	1090.0	1090.0	558	961	1270	0	81	1351
4/9/2010	1089.9	1089.9	514	876	1255	0	81	1336
4/10/2010	1089.9	1089.9	483	772	1272	0	81	1353
4/11/2010	1089.9	1089.9	462	558	1268	0	81	1349
4/12/2010	1089.8	1089.8	452	812	724	0	81	805
4/13/2010	1089.8	1089.8	464	752	926	0	81	1007
4/14/2010	1089.8	1089.8	514	804	1266	0	81	1347
4/15/2010	1089.8	1089.8	578	1184	855	0	81	936
4/16/2010	1089.8	1089.8	699	1301	1252	0	81	1333
4/17/2010	1089.8	1089.8	1020	1536	1245	0	81	1326
4/18/2010	1089.9	1089.9	1410	2248	1227	0	81	1308
4/19/2010	1089.9	1089.9	1750	3394	1008	0	81	1089

## DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total <sup>2</sup> Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
4/20/2010	1090.1	1090.1	2320	3818	1057	0	80	1137
4/21/2010	1090.4	1090.4	3050	3590	1394	0	80	1474
4/22/2010	1090.6	1090.6	2780	4114	1408	0	80	1488
4/23/2010	1090.6	1090.6	2480	3798	944	0	80	1024
4/24/2010	1090.8	1090.8	2240	2916	1331	0	81	1412
4/25/2010	1090.8	1090.8	1980	2917	1273	0	81	1354
4/26/2010	1090.9	1090.9	1840	3739	1292	0	83	1375
4/27/2010	1091.1	1091.1	2120	3848	1758	0	81	1839
4/28/2010	1091.2	1091.2	2170	3600	2033	0	81	2115
4/29/2010	1091.4	1091.4	1990	3742	1955	0	81	2036
4/30/2010	1091.4	1091.4	1830	3114	2033	0	81	2115
5/1/2010	1091.4	1091.4	1760	3035	2430	0	82	2512
5/2/2010	1091.3	1091.4	1690	2053	2430	0	82	2512
5/3/2010	1091.5	1091.5	1760	2347	2433	0	82	2516
5/4/2010	1091.4	1091.4	1600	1891	1343	0	82	1425
5/5/2010	1091.5	1091.5	1460	2151	1282	0	82	1364
5/6/2010	1091.4	1091.4	1350	1790	1283	0	82	1365
5/7/2010	1091.5	1091.5	1300	2166	1493	0	82	1576
5/8/2010	1091.5	1091.5	1250	2041	2439	0	82	2521
5/9/2010	1091.5	1091.4	1270	2326	2438	0	82	2520
5/10/2010	1091.4	1091.4	1310	2303	2435	0	82	2517
5/11/2010	1091.4	1091.4	1410	2244	2427	2	82	2511
5/12/2010	1091.4	1091.4	1830	2609	2435	0	82	2517
5/13/2010	1091.4	1091.4	2360	3169	2439	0	82	2521
5/14/2010	1091.5	1091.5	2870	3961	2434	0	131	2565
5/15/2010	1091.6	1091.6	3660	5148	2430	0	200	2630
5/16/2010	1091.9	1091.9	4710	6460	2429	0	200	2629
5/17/2010	1092.2	1092.2	5700	7447	2360	0	200	2560
5/18/2010	1092.6	1092.7	5940	8013	1510	0	200	1710
5/19/2010	1093.1	1093.1	5220	8194	1220	0	200	1420
5/20/2010	1093.6	1093.6	4810	7736	18	0	201	218
5/21/2010	1093.9	1093.9	3620	6861	608	336	201	1145
5/22/2010	1094.2	1094.2	2920	5886	1223	807	201	2230
5/23/2010	1094.3	1094.3	2520	5220	1215	817	201	2233
5/24/2010	1094.4	1094.4	2310	4533	1248	825	201	2274
5/25/2010	1094.5	1094.5	2160	4156	1750	832	201	2783
5/26/2010	1094.6	1094.6	2240	4250	2410	357	200	2968
5/27/2010	1094.6	1094.7	2450	4521	2419	0	200	2619
5/28/2010	1094.8	1094.8	2940	4637	2418	0	200	2618
5/29/2010	1095.0	1095.0	3120	4882	2422	0	200	2622
5/30/2010	1095.1	1095.1	3180	5214	2418	0	200	2618
5/31/2010	1095.2	1095.3	3580	5538	2416	0	200	2616
6/1/2010	1095.4	1095.4	3980	6156	2401	0	200	2601
6/2/2010	1095.7	1095.7	4460	6936	2254	0	200	2454
6/3/2010	1096.0	1096.0	5620	7302	2413	488	200	3100
6/4/2010	1096.3	1096.3	4550	7434	2320	1725	200	4246
6/5/2010	1096.4	1096.4	3880	7470	2416	2316	200	4932
6/6/2010	1096.5	1096.5	3780	7222	2321	2328	200	4849

## DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total <sup>2</sup> Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
6/7/2010	1096.6	1096.6	4200	6810	2369	2345	200	4915
6/8/2010	1096.7	1096.7	4470	6887	2418	2622	200	5239
6/9/2010	1096.8	1096.8	4580	7085	1845	3296	200	5340
6/10/2010	1097.0	1097.0	4410	7099	971	3333	200	4504
6/11/2010	1097.1	1097.1	4210	7284	1900	3139	200	5239
6/12/2010	1097.2	1097.3	4610	7834	1808	2860	200	4867
6/13/2010	1097.4	1097.4	5490	8005	2178	2891	200	5269
6/14/2010	1097.7	1097.7	5530	7602	1894	3052	200	5146
6/15/2010	1097.8	1097.9	4430	7418	2017	3325	200	5542
6/16/2010	1097.9	1097.9	3390	6928	1378	3329	200	4907
6/17/2010	1097.9	1097.9	3140	6095	1722	3338	200	5260
6/18/2010	1097.9	1097.9	3000	5765	2415	3828	200	6443
6/19/2010	1097.8	1097.8	3380	6180	2011	4771	200	6982
6/20/2010	1097.8	1097.8	4350	6421	1695	4767	200	6662
6/21/2010	1097.8	1097.8	4950	7516	1965	4772	200	6937
6/22/2010	1097.8	1097.8	4880	7705	2149	4797	200	7145
6/23/2010	1098.0	1097.9	5460	8128	2420	4817	200	7437
6/24/2010	1097.9	1098.0	5570	8369	2223	4830	200	7252
6/25/2010	1098.0	1098.0	5370	8366	2422	4857	200	7479
6/26/2010	1098.1	1098.1	5050	7412	2098	4880	200	7178
6/27/2010	1098.1	1098.1	4430	7414	1978	4881	200	7059
6/28/2010	1098.1	1098.1	4850	6837	2423	4091	200	6713
6/29/2010	1098.2	1098.2	4820	6043	1671	2283	200	4154
6/30/2010	1098.4	1098.4	3870	5572	1266	1172	200	2639
7/1/2010	1098.6	1098.6	3120	5164	1260	822	200	2283
7/2/2010	1098.7	1098.7	2690	4689	1668	825	200	2693
7/3/2010	1098.7	1098.7	2580	4200	2410	827	200	3437
7/4/2010	1098.8	1098.8	2680	3864	2398	828	200	3426
7/5/2010	1098.8	1098.8	2630	3897	2400	828	200	3427
7/6/2010	1098.8	1098.8	2790	4241	1587	1209	200	2996
7/7/2010	1098.8	1098.8	3320	4740	1267	2160	200	3627
7/8/2010	1098.9	1098.9	4040	5495	1689	3469	200	5358
7/9/2010	1098.9	1098.9	4580	6051	2208	3823	200	6231
7/10/2010	1099.0	1099.0	4830	6389	2003	3563	200	5766
7/11/2010	1099.1	1099.1	4830	5894	1298	2790	200	4287
7/12/2010	1099.3	1099.3	4300	5232	1208	1213	273	2694
7/13/2010	1099.4	1099.4	2940	4443	1248	459	263	1970
7/14/2010	1099.5	1099.5	2460	4172	1252	403	96	1750
7/15/2010	1099.6	1099.6	2680	3699	1252	403	96	1751
7/16/2010	1099.7	1099.7	2770	3663	1245	867	222	2334
7/17/2010	1099.7	1099.7	2700	3932	1248	1652	350	3250
7/18/2010	1099.8	1099.8	2700	3969	1246	1660	350	3256
7/19/2010	1099.7	1099.8	2540	3743	1250	2990	350	4590
7/20/2010	1099.6	1099.6	2480	3523	1255	4100	357	5712
7/21/2010	1099.5	1099.5	2500	3177	1255	4073	356	5684
7/22/2010	1099.4	1099.4	2490	2678	1254	2903	350	4507
7/23/2010	1099.4	1099.4	2210	2641	1245	206	353	1805
7/24/2010	1099.4	1099.4	2230	2469	1244	0	300	1544

## DAILY AVERAGE LAKE CHELAN ELEVATIONS, INFLOW AND OUTFLOW

Date	Chelan PUD Lake Elevation (ft)	USGS Lake Elevation (ft)	Stehekin River Flow (cfs)	Total <sup>2</sup> Estimated Inflow (cfs)	Powerhouse Turbine Flow (cfs)	Spill Flow (cfs)	Low Level Outlet Flow (cfs)	Total Outflow (cfs)
7/25/2010	1099.5	1099.5	2240	2349	1240	0	301	1540
7/26/2010	1099.5	1099.6	2120	2475	1249	0	252	1501
7/27/2010	1099.6	1099.6	2150	2678	1249	0	200	1449
7/28/2010	1099.7	1099.7	2290	2713	1247	0	200	1447
7/29/2010	1099.8	1099.8	2150	2789	1243	0	123	1366
7/30/2010	1099.8	1099.8	1840	2933	1245	647	260	2152
7/31/2010	1099.8	1099.8	1850	2948	1237	1159	349	2744
8/1/2010	1099.9	1099.9	2260	2880	1233	727	350	2309
8/2/2010	1099.9	1099.9	1880	3269	1240	808	350	2397
8/3/2010	1099.9	1099.9	1830	2990	1243	856	350	2449
8/4/2010	1099.9	1099.9	2150	2816	1243	3092	350	4684
8/5/2010	1099.8	1099.8	2020	2750	1242	1608	350	3200
8/6/2010	1099.9	1099.9	1880	2575	1238	352	403	1994
8/7/2010	1099.9	1099.9	1730	1911	1233	0	481	1714
8/8/2010	1099.9	1099.9	1620	1905	1235	0	481	1716
8/9/2010	1099.9	1099.9	1500	1709	1237	0	404	1641
8/10/2010	1099.9	1099.9	1350	1594	1240	0	300	1540
8/11/2010	1099.9	1099.9	1230	1524	1253	0	300	1552
8/12/2010	1099.9	1099.9	1240	1388	1252	0	208	1460
8/13/2010	1099.9	1099.9	1270	1373	1251	0	100	1351
8/14/2010	1099.9	1099.9	1200	1389	1248	0	100	1347
8/15/2010	1099.9	1099.9	1200	1367	1241	0	100	1341
8/16/2010	1099.9	1099.9	1240	1439	1279	0	100	1378
8/17/2010	1099.9	1099.9	1240	1670	1250	0	100	1350
8/18/2010	1099.9	1099.9	1180	1554	810	0	92	902
8/19/2010	1099.9	1100.0	1110	1384	1240	794	81	2115
8/20/2010	1099.9	1099.9	965	1414	1723	238	183	2143
8/21/2010	1099.7	1099.8	851	1053	2392	0	185	2577
8/22/2010	1099.7	1099.7	803	484	2388	0	100	2487
8/23/2010	1099.6	1099.6	753	473	2038	0	91	2129
8/24/2010	1099.4	1099.4	709	755	1627	0	81	1708
8/25/2010	1099.4	1099.4	744	515	1251	0	81	1332
8/26/2010	1099.4	1099.4	793	635	1949	0	82	2030
8/27/2010	1099.3	1099.3	753	754	1939	0	82	2021
8/28/2010	1099.2	1099.2	653	678	2010	0	82	2092
8/29/2010	1099.1	1099.1	594	338	1245	0	82	1326
8/30/2010	1099.1	1099.1	551	462	1370	0	82	1452
8/31/2010	1099.0	1099.0	548	499	1103	0	82	1184



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