

From: Scott Hopkins <Scott.Hopkins@chelanpud.org>

Sent: Thursday, September 30, 2021 11:28 AM

To: 'Ashley Rawhouser' <Ashely_Rawhouser@nps.gov>; 'bgoedde@cityofchelan.us' <bgoedde@cityofchelan.us>; 'Breean Zimmerman' <bzim461@ecy.wa.gov>; 'Carl Merkle' <carlmerkle@ctuir.com>; Marcie Clement <Marcie.Clement@chelanpud.org>; 'David Bowen' <david.bowen@ecy.wa.gov>; 'Emily Johnson' <ekjohnson@fs.fed.us>; 'Graham Simon' <Graham.Simon@dfw.wa.gov>; 'Hugh Anthony' <Hugh_Anthony@nps.gov>; 'Jim Pacheco' <jpac461@ecy.wa.gov>; 'Justin Yeager' <Justin.Yeager@noaa.gov>; 'Kari Grover Wier' <kgroverwier@fs.fed.us>; 'Mark Peterschmidt' <mape461@ecy.wa.gov>; Jeff Osborn <Jeff.Osborn@chelanpud.org>; 'Phil Archibald' <ndmarkey@gmail.com>; 'robin@mansonparks.com' <robin@mansonparks.com>; 'Ryan.Layton@parks.wa.gov' <Ryan.Layton@parks.wa.gov>; Michelle Smith <michelle.smith@chelanpud.org>; 'Steve Lewis' <Stephen_Lewis@fws.gov>; 'Thomas O'Keefe' <okeefe@amwhitewater.org>; William Towey <bill.towey@chelanpud.org>; 'Travis Maitland' <travis.maitland@dfw.wa.gov>; Alene Underwood <Alene.Underwood@chelanpud.org>; Charles Von Reis <Charles.VonReis@chelanpud.org>; Catherine Willard <Catherine.Willard@chelanpud.org>; 'Mayfield, Mariah - FS' <mariahmayfield@fs.fed.us>; 'Kevin Wright' <kswright@usgs.gov>; 'Esh, Nathan' <nesh@usgs.gov>; 'randi_riggs@fws.gov' <randi_riggs@fws.gov>; John Wasniewski <John.Wasniewski@chelanpud.org>; 'jamesurness@hotmail.com' <jamesurness@hotmail.com>; 'wfarris@cityofchelan.us' <wfarris@cityofchelan.us>; 'Pruit, Katie (RCO)' <katie.pruit@rco.wa.gov>; 'jody.walters@noaa.gov' <jody.walters@noaa.gov>; 'blod@yakamafish-nsn.gov' <blod@yakamafish-nsn.gov>; 'bret.nine@colvilletribes.com' <bret.nine@colvilletribes.com>; 'NaturalResources@ctuir.org' <NaturalResources@ctuir.org>; 'keith.primm@ecy.wa.gov' <keith.primm@ecy.wa.gov>; Janel Ulrich <janel.ulrich@chelanpud.org>; 'Gilbert, Joseph C' <jcgilber@usgs.gov>
Cc: Martha Whiteman <Martha.Whiteman@chelanpud.org>; Todd West <todd.west@chelanpud.org>; Elizabeth Krchnavek <Elizabeth.Krchnavek@kleinschmidtgroup.com>
Subject: Chelan River Flow Monitoring Data - August Reports

PUBLIC UTILITY DISTRICT NO. 1 of CHELAN COUNTY

P.O. Box 1231, Wenatchee, WA 98807-1231 • 327 N. Wenatchee Ave., Wenatchee, WA 98801
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To: Chelan River Fishery Forum
Washington Department of Ecology
Washington Department of Fish and Wildlife
United States Forest Service
National Park Service
United States Fish and Wildlife Service
National Marine Fisheries Service

CCT (Colville)
YN (Yakama)
CTUIR (Umatilla tribe)
United States Geological Survey
Washington State Parks and Recreation Commission
Washington State Recreation and Conservation Office
City of Chelan
Manson Parks and Recreation Department
Lake Chelan Recreation Association
American Whitewater

From: Scott Hopkins, Fisheries Biologist II
Public Utility District No. 1 of Chelan County (Chelan PUD)
scott.hopkins@chelanpud.org
(509)661-4763

Re: Lake Chelan Hydroelectric Project No. 637 (Project)
License Article 405a - Hourly and Daily Average Flow Data August
2021 Reports

Dear Chelan River Fishery Forum and Other Parties:

This email is to provide you, in the attached files, with the written flow information for August 2021. These reports contains data for surface elevations at the Chelan Dam Forebay and Powerhouse Tailrace and flows from the Powerhouse, Low Level Outlet, Spillway, Pump Station, and Total Reach 4 flows.

This information will be posted to the Chelan County PUD external website under "River Flows, Water Temperatures and Total Dissolved Gas" (link below).
<https://www.chelanpud.org/parks-and-recreation/river-flows-and-water-temperatures>

Data during times of maintenance or calibration events have been denoted with "NA" to designate these periods when data was either unavailable or inaccurate. Noteworthy events are explained below as well.

- Two hourly readings were corrected on August 4th to represent actual spill volume. Bulkheads were in place during spill gate "dry" testing. During this testing the gate was opened, and while computer readings depict spill flow, there was no actual spill due to the placement of the bulkheads.
- Spill gate "wet" testing on August 4th resulted in one hourly flow measurement at the dam outside the ramping rate guidelines. This event did not cause a discernable change in water levels in Reach 4 or an exceedance of the 2-inch ramping rate due to the short duration of the gate testing (<2 min. per gate).

Please feel free to call or email any questions or concerns.



Scott Hopkins

Fisheries Biologist II
Chelan County P.U.D.

P: (509) 661-4763

C: (509) 630-2708

Date	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/1/2021	1099.5	10	708.9	87	0	99	186
8/2/2021	1099.5	10	707.8	87	0	98	185
8/3/2021	1099.6	1465	709.1	87	0	100	187
8/4/2021	1099.6	1461	708.9	87	5	99	192
8/5/2021	1099.5	1604	708.9	87	0	85	172
8/6/2021	1099.6	1444	709.0	87	0	84	171
8/7/2021	1099.5	1446	709.0	87	0	98	185
8/8/2021	1099.5	10	708.1	87	0	97	184
8/9/2021	1099.5	1566	708.2	87	0	97	184
8/10/2021	1099.5	1606	708.7	87	0	99	186
8/11/2021	1099.4	1612	709.1	50	50	82	181
8/12/2021	1099.4	1613	709.5	3	98	51	152
8/13/2021	1099.4	1573	709.2	13	84	51	148
8/14/2021	1099.4	1600	709.0	61	32	50	143
8/15/2021	1099.4	10	708.5	88	0	50	138
8/16/2021	1099.4	10	708.6	88	0	50	138
8/17/2021	1099.5	774	708.2	88	0	51	139
8/18/2021	1099.4	775	709.2	88	0	51	139
8/19/2021	1099.4	775	708.9	88	0	51	139
8/20/2021	1099.4	773	708.8	88	0	51	139
8/21/2021	1099.4	774	708.7	88	0	52	140
8/22/2021	1099.4	10	708.3	88	0	50	138
8/23/2021	1099.4	768	708.1	88	0	51	139
8/24/2021	1099.3	771	708.2	94	0	15	109
8/25/2021	1099.3	892	709.1	87	0	0	87
8/26/2021	1099.3	768	709.1	87	0	0	87
8/27/2021	1099.3	777	709.1	87	0	0	87
8/28/2021	1099.2	775	708.5	87	0	0	87
8/29/2021	1099.2	10	708.6	87	0	0	87
8/30/2021	1099.2	775	707.5	87	0	0	87
8/31/2021	1099.2	773	708.7	87	0	0	87

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/1/2021	1	1099.4	10	709.7	87	0	97	184
8/1/2021	2	1099.4	10	709.4	87	0	99	186
8/1/2021	3	1099.4	10	708.7	87	0	98	185
8/1/2021	4	1099.4	10	708.4	87	0	98	185
8/1/2021	5	1099.4	10	708.2	87	0	97	184
8/1/2021	6	1099.5	10	708.8	87	0	97	184
8/1/2021	7	1099.5	10	708.6	87	0	97	184
8/1/2021	8	1099.5	10	708.3	87	0	96	183
8/1/2021	9	1099.5	10	708.4	87	0	98	185
8/1/2021	10	1099.5	10	708.3	87	0	98	185
8/1/2021	11	1099.5	10	708.3	87	0	98	185
8/1/2021	12	1099.5	10	708.6	87	0	99	185
8/1/2021	13	1099.5	10	709.1	87	0	99	186
8/1/2021	14	1099.5	10	709.0	87	0	99	186
8/1/2021	15	1099.5	10	709.5	87	0	100	187
8/1/2021	16	1099.5	10	709.7	87	0	100	187
8/1/2021	17	1099.5	10	709.8	87	0	101	188
8/1/2021	18	1099.5	10	709.4	87	0	100	187
8/1/2021	19	1099.5	10	709.2	87	0	101	189
8/1/2021	20	1099.5	10	709.2	87	0	100	187
8/1/2021	21	1099.5	10	708.7	86	0	98	185
8/1/2021	22	1099.5	10	708.6	86	0	98	185
8/1/2021	23	1099.5	10	708.6	87	0	99	185
8/1/2021	24	1099.5	10	708.5	87	0	99	186
8/2/2021	1	1099.5	10	708.1	87	0	98	185
8/2/2021	2	1099.5	10	708.3	87	0	98	184
8/2/2021	3	1099.5	10	708.4	87	0	98	184
8/2/2021	4	1099.5	10	708.2	87	0	98	184
8/2/2021	5	1099.5	10	708.4	87	0	98	185
8/2/2021	6	1099.5	10	708.9	87	0	99	186
8/2/2021	7	1099.5	10	708.4	87	0	98	185
8/2/2021	8	1099.5	10	707.9	87	0	98	185
8/2/2021	9	1099.5	10	707.3	87	0	97	184
8/2/2021	10	1099.5	10	707.1	87	0	97	184
8/2/2021	11	1099.5	10	706.7	87	0	97	184
8/2/2021	12	1099.5	10	706.3	87	0	97	184
8/2/2021	13	1099.5	10	706.1	87	0	96	183
8/2/2021	14	1099.5	10	706.1	87	0	96	183
8/2/2021	15	1099.5	10	706.3	87	0	97	183
8/2/2021	16	1099.5	10	706.6	87	0	98	185
8/2/2021	17	1099.5	10	707.0	87	0	98	185
8/2/2021	18	1099.5	10	707.8	87	0	99	186
8/2/2021	19	1099.5	10	708.1	87	0	99	186
8/2/2021	20	1099.5	10	708.7	87	0	100	187
8/2/2021	21	1099.5	10	708.7	87	0	100	187
8/2/2021	22	1099.6	10	708.9	88	0	100	188
8/2/2021	23	1099.6	10	708.9	87	0	100	187

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/2/2021	24	1099.6	10	709.0	87	0	101	188
8/3/2021	1	1099.6	10	709.1	87	0	100	187
8/3/2021	2	1099.6	10	708.6	87	0	100	187
8/3/2021	3	1099.6	10	708.6	87	0	100	187
8/3/2021	4	1099.6	10	708.4	87	0	100	187
8/3/2021	5	1099.6	10	707.9	87	0	99	186
8/3/2021	6	1099.6	80	708.0	87	0	99	186
8/3/2021	7	1099.6	2140	708.7	87	0	100	187
8/3/2021	8	1099.6	2160	708.4	87	0	99	185
8/3/2021	9	1099.5	2170	708.5	87	0	99	186
8/3/2021	10	1099.5	2170	708.6	87	0	99	186
8/3/2021	11	1099.6	2190	708.7	87	0	100	187
8/3/2021	12	1099.5	2190	708.8	87	0	99	186
8/3/2021	13	1099.5	2180	709.1	87	0	100	187
8/3/2021	14	1099.5	2190	709.6	87	0	101	188
8/3/2021	15	1099.5	2190	710.3	87	0	102	189
8/3/2021	16	1099.5	2190	710.7	87	0	102	189
8/3/2021	17	1099.5	2200	710.7	87	0	102	189
8/3/2021	18	1099.6	2170	710.0	87	0	101	188
8/3/2021	19	1099.5	2170	710.2	87	0	98	185
8/3/2021	20	1099.6	2170	709.8	87	0	100	187
8/3/2021	21	1099.6	2180	709.6	87	0	101	188
8/3/2021	22	1099.6	2160	709.1	87	0	101	187
8/3/2021	23	1099.6	190	708.2	87	0	98	185
8/3/2021	24	1099.6	10	708.0	87	0	98	185
8/4/2021	1	1099.6	10	708.2	87	0	98	185
8/4/2021	2	1099.6	10	708.6	87	0	99	185
8/4/2021	3	1099.7	10	708.0	87	0	98	185
8/4/2021	4	1099.7	10	707.9	87	0	98	185
8/4/2021	5	1099.6	10	708.3	87	0	99	186
8/4/2021	6	1099.6	150	708.0	87	0	98	185
8/4/2021	7	1099.6	2170	708.7	87	0	99	186
8/4/2021	8	1099.6	2160	708.7	87	0	99	186
8/4/2021	9	1099.6	2160	708.6	87	0	100	187
8/4/2021	10	1099.6	2170	708.5	87	0	100	187
8/4/2021	11	1099.6	2170	708.7	88	0	100	188
8/4/2021	12	1099.6	2180	708.6	88	62	99	249
8/4/2021	13	1099.6	2170	709.0	89	57	100	246
8/4/2021	14	1099.6	2170	709.3	89	11	99	199
8/4/2021	15	1099.6	2180	709.5	87	0	98	185
8/4/2021	16	1099.6	2190	709.8	87	0	100	187
8/4/2021	17	1099.6	2160	710.0	87	0	100	187
8/4/2021	18	1099.6	2160	710.0	87	0	100	187
8/4/2021	19	1099.6	2170	709.8	87	0	100	187
8/4/2021	20	1099.6	2160	709.7	87	0	101	188
8/4/2021	21	1099.6	2160	709.5	87	0	100	187
8/4/2021	22	1099.6	2170	709.2	87	0	100	187

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/4/2021	23	1099.6	160	708.7	87	0	98	186
8/4/2021	24	1099.6	10	709.2	87	0	99	186
8/5/2021	1	1099.6	10	709.7	87	0	99	186
8/5/2021	2	1099.6	10	708.8	87	0	99	185
8/5/2021	3	1099.6	10	708.6	87	0	98	185
8/5/2021	4	1099.6	10	708.4	87	0	98	185
8/5/2021	5	1099.6	10	708.2	87	0	98	186
8/5/2021	6	1099.6	100	708.4	87	0	98	185
8/5/2021	7	1099.6	2350	709.0	87	0	99	186
8/5/2021	8	1099.6	2370	708.7	87	0	99	186
8/5/2021	9	1099.6	2380	708.8	87	0	99	186
8/5/2021	10	1099.5	2380	708.9	87	0	99	186
8/5/2021	11	1099.5	2390	708.9	87	0	85	172
8/5/2021	12	1099.5	2380	708.9	87	0	0	87
8/5/2021	13	1099.5	2370	709.3	87	0	0	87
8/5/2021	14	1099.5	2380	709.3	87	0	8	95
8/5/2021	15	1099.5	2380	709.0	87	0	96	183
8/5/2021	16	1099.5	2370	709.0	87	0	98	185
8/5/2021	17	1099.5	2380	709.0	87	0	98	185
8/5/2021	18	1099.5	2380	709.0	87	0	97	184
8/5/2021	19	1099.5	2370	709.0	87	0	96	183
8/5/2021	20	1099.5	2370	709.1	87	0	96	183
8/5/2021	21	1099.5	2380	709.1	87	0	95	182
8/5/2021	22	1099.5	2370	709.1	87	0	96	183
8/5/2021	23	1099.5	330	708.7	87	0	96	183
8/5/2021	24	1099.5	10	709.3	87	0	97	183
8/6/2021	1	1099.5	10	709.3	87	0	97	184
8/6/2021	2	1099.5	10	708.4	88	0	97	185
8/6/2021	3	1099.6	10	707.8	87	0	96	182
8/6/2021	4	1099.6	10	707.5	87	0	96	183
8/6/2021	5	1099.6	10	707.6	87	0	96	183
8/6/2021	6	1099.5	10	707.5	87	0	95	182
8/6/2021	7	1099.6	1810	708.2	87	0	97	184
8/6/2021	8	1099.6	2150	708.5	87	0	97	183
8/6/2021	9	1099.6	2160	708.5	87	0	96	183
8/6/2021	10	1099.6	2180	708.5	87	0	96	183
8/6/2021	11	1099.6	2180	708.7	87	0	96	183
8/6/2021	12	1099.6	2190	708.8	87	0	95	182
8/6/2021	13	1099.6	2200	709.2	87	0	51	138
8/6/2021	14	1099.6	2190	709.6	87	0	0	87
8/6/2021	15	1099.6	2180	710.0	87	0	0	87
8/6/2021	16	1099.6	2190	710.1	87	0	40	127
8/6/2021	17	1099.6	2190	710.3	87	0	97	185
8/6/2021	18	1099.6	2190	710.4	87	0	97	184
8/6/2021	19	1099.6	2190	710.2	87	0	97	184
8/6/2021	20	1099.6	2180	710.2	87	0	97	184
8/6/2021	21	1099.5	2180	710.0	87	0	97	184

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/6/2021	22	1099.5	2150	709.8	87	0	97	184
8/6/2021	23	1099.6	80	709.2	87	0	97	184
8/6/2021	24	1099.5	10	708.7	87	0	98	185
8/7/2021	1	1099.5	10	707.6	87	0	96	183
8/7/2021	2	1099.5	10	707.4	87	0	95	182
8/7/2021	3	1099.5	10	707.1	87	0	96	183
8/7/2021	4	1099.5	10	707.2	87	0	97	184
8/7/2021	5	1099.5	10	707.4	87	0	97	184
8/7/2021	6	1099.5	20	707.4	87	0	97	184
8/7/2021	7	1099.5	2010	708.4	87	0	99	185
8/7/2021	8	1099.5	2160	708.6	87	0	99	186
8/7/2021	9	1099.5	2150	708.8	87	0	99	186
8/7/2021	10	1099.6	2170	709.0	87	0	100	187
8/7/2021	11	1099.6	2170	709.1	87	0	101	187
8/7/2021	12	1099.6	2180	709.5	87	0	98	185
8/7/2021	13	1099.6	2180	709.9	87	0	98	185
8/7/2021	14	1099.6	2170	710.1	87	0	99	186
8/7/2021	15	1099.5	2170	710.5	87	0	99	186
8/7/2021	16	1099.5	2180	710.5	87	0	99	185
8/7/2021	17	1099.5	2190	710.3	87	0	98	185
8/7/2021	18	1099.5	2190	710.4	87	0	98	185
8/7/2021	19	1099.5	2180	710.1	87	0	98	185
8/7/2021	20	1099.5	2170	710.0	87	0	98	185
8/7/2021	21	1099.5	2170	709.9	87	0	98	185
8/7/2021	22	1099.5	2090	709.7	87	0	97	184
8/7/2021	23	1099.5	90	709.2	87	0	97	183
8/7/2021	24	1099.5	10	709.0	87	0	96	183
8/8/2021	1	1099.5	10	708.1	87	0	96	182
8/8/2021	2	1099.5	10	707.6	87	0	95	182
8/8/2021	3	1099.5	10	707.9	87	0	95	182
8/8/2021	4	1099.5	10	707.5	87	0	95	182
8/8/2021	5	1099.5	10	707.1	87	0	96	183
8/8/2021	6	1099.5	10	707.4	87	0	96	183
8/8/2021	7	1099.5	10	707.5	87	0	96	183
8/8/2021	8	1099.5	10	707.6	87	0	96	183
8/8/2021	9	1099.5	10	707.8	87	0	96	183
8/8/2021	10	1099.5	10	708.0	87	0	97	184
8/8/2021	11	1099.5	10	708.1	87	0	99	186
8/8/2021	12	1099.5	10	708.1	87	0	97	185
8/8/2021	13	1099.5	10	708.6	87	0	99	186
8/8/2021	14	1099.5	10	708.7	87	0	100	186
8/8/2021	15	1099.5	10	708.9	87	0	101	188
8/8/2021	16	1099.5	10	709.0	87	0	101	188
8/8/2021	17	1099.5	10	709.0	87	0	100	187
8/8/2021	18	1099.5	10	708.8	87	0	99	186
8/8/2021	19	1099.5	10	708.8	87	0	98	185
8/8/2021	20	1099.5	10	709.0	87	0	98	185

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/8/2021	21	1099.6	10	708.8	87	0	98	185
8/8/2021	22	1099.6	10	708.0	87	0	96	184
8/8/2021	23	1099.6	10	707.4	87	0	97	184
8/8/2021	24	1099.6	10	707.1	87	0	97	184
8/9/2021	1	1099.6	10	706.6	87	0	96	182
8/9/2021	2	1099.6	10	706.5	87	0	96	183
8/9/2021	3	1099.6	10	706.2	87	0	96	182
8/9/2021	4	1099.6	10	706.1	87	0	95	182
8/9/2021	5	1099.6	10	706.1	87	0	95	182
8/9/2021	6	1099.6	160	706.3	87	0	96	183
8/9/2021	7	1099.6	2180	708.3	87	0	96	183
8/9/2021	8	1099.6	2170	708.4	87	0	96	183
8/9/2021	9	1099.5	2170	708.4	87	0	96	183
8/9/2021	10	1099.5	2260	708.5	87	0	98	185
8/9/2021	11	1099.6	2370	708.7	87	0	98	185
8/9/2021	12	1099.5	2390	708.8	87	0	98	185
8/9/2021	13	1099.5	2380	709.0	87	0	98	185
8/9/2021	14	1099.5	2380	709.1	87	0	99	185
8/9/2021	15	1099.5	2370	709.5	87	0	98	185
8/9/2021	16	1099.5	2380	709.7	87	0	99	186
8/9/2021	17	1099.5	2390	709.5	87	0	99	186
8/9/2021	18	1099.5	2380	709.3	87	0	98	185
8/9/2021	19	1099.5	2380	709.2	87	0	98	185
8/9/2021	20	1099.5	2380	709.3	87	0	98	185
8/9/2021	21	1099.5	2380	709.2	87	0	98	184
8/9/2021	22	1099.5	2290	708.9	87	0	98	184
8/9/2021	23	1099.5	110	708.1	87	0	97	184
8/9/2021	24	1099.5	10	708.0	87	0	97	184
8/10/2021	1	1099.5	10	707.6	87	0	96	183
8/10/2021	2	1099.5	10	707.9	87	0	97	184
8/10/2021	3	1099.5	10	707.9	87	0	97	184
8/10/2021	4	1099.5	10	707.6	87	0	97	185
8/10/2021	5	1099.5	10	707.7	87	0	97	184
8/10/2021	6	1099.5	200	708.0	86	0	98	184
8/10/2021	7	1099.5	2380	708.9	87	0	99	186
8/10/2021	8	1099.5	2380	708.9	87	0	99	186
8/10/2021	9	1099.5	2370	708.8	87	0	99	186
8/10/2021	10	1099.5	2360	708.9	87	0	99	186
8/10/2021	11	1099.5	2380	708.8	87	0	98	185
8/10/2021	12	1099.5	2380	709.0	87	0	98	186
8/10/2021	13	1099.5	2380	709.2	87	0	99	186
8/10/2021	14	1099.5	2390	709.3	87	0	99	186
8/10/2021	15	1099.5	2380	709.6	87	0	100	187
8/10/2021	16	1099.5	2390	709.5	87	0	100	186
8/10/2021	17	1099.5	2370	709.5	87	0	100	187
8/10/2021	18	1099.4	2390	709.3	87	0	100	186
8/10/2021	19	1099.5	2380	709.2	87	0	100	187

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/10/2021	20	1099.5	2360	709.0	87	0	99	186
8/10/2021	21	1099.5	2360	708.9	87	0	100	187
8/10/2021	22	1099.4	2350	709.0	87	0	99	186
8/10/2021	23	1099.5	280	708.6	87	0	99	186
8/10/2021	24	1099.5	10	708.4	87	0	98	186
8/11/2021	1	1099.5	10	708.6	87	0	99	186
8/11/2021	2	1099.5	10	708.9	87	0	99	186
8/11/2021	3	1099.5	10	708.7	87	0	99	186
8/11/2021	4	1099.5	10	708.3	87	0	99	186
8/11/2021	5	1099.5	10	708.4	87	0	98	185
8/11/2021	6	1099.5	170	708.7	87	0	99	185
8/11/2021	7	1099.5	2380	709.2	87	0	100	187
8/11/2021	8	1099.5	2380	709.1	87	0	99	186
8/11/2021	9	1099.5	2380	709.1	87	0	99	186
8/11/2021	10	1099.4	2380	709.2	87	0	99	186
8/11/2021	11	1099.4	2390	709.2	87	0	100	187
8/11/2021	12	1099.4	2380	709.4	87	0	100	187
8/11/2021	13	1099.4	2380	709.4	87	0	102	189
8/11/2021	14	1099.4	2380	709.4	51	75	100	226
8/11/2021	15	1099.4	2380	709.4	1	154	99	254
8/11/2021	16	1099.4	2380	709.4	1	133	98	232
8/11/2021	17	1099.4	2380	709.4	1	116	44	162
8/11/2021	18	1099.4	2380	709.2	2	98	42	142
8/11/2021	19	1099.4	2370	709.1	2	101	44	147
8/11/2021	20	1099.4	2370	709.2	1	102	48	151
8/11/2021	21	1099.4	2370	709.3	1	102	48	152
8/11/2021	22	1099.4	2380	709.6	1	103	50	154
8/11/2021	23	1099.4	390	709.6	1	103	51	155
8/11/2021	24	1099.4	10	709.8	1	104	52	156
8/12/2021	1	1099.4	10	709.9	1	103	52	156
8/12/2021	2	1099.4	10	709.7	1	103	50	155
8/12/2021	3	1099.4	10	709.3	1	103	50	155
8/12/2021	4	1099.4	10	709.3	1	103	51	155
8/12/2021	5	1099.4	10	709.0	1	104	51	155
8/12/2021	6	1099.4	150	708.8	1	104	50	154
8/12/2021	7	1099.4	2380	709.3	1	104	50	155
8/12/2021	8	1099.4	2380	708.9	1	104	50	155
8/12/2021	9	1099.4	2380	709.0	1	104	49	154
8/12/2021	10	1099.4	2390	709.2	1	104	50	156
8/12/2021	11	1099.4	2390	709.2	1	104	51	156
8/12/2021	12	1099.4	2380	709.1	1	104	51	156
8/12/2021	13	1099.4	2380	709.1	1	104	51	156
8/12/2021	14	1099.4	2380	709.3	5	103	52	160
8/12/2021	15	1099.4	2380	709.5	6	103	52	161
8/12/2021	16	1099.4	2380	709.7	6	92	52	149
8/12/2021	17	1099.4	2380	709.8	6	87	52	144
8/12/2021	18	1099.4	2380	709.9	6	87	52	145

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/12/2021	19	1099.4	2380	709.9	6	87	53	145
8/12/2021	20	1099.4	2370	710.0	6	87	53	145
8/12/2021	21	1099.4	2370	710.0	6	87	52	145
8/12/2021	22	1099.4	2380	710.0	6	87	52	145
8/12/2021	23	1099.4	410	709.8	6	87	52	145
8/12/2021	24	1099.4	10	709.7	6	87	51	144
8/13/2021	1	1099.4	10	709.5	6	87	51	145
8/13/2021	2	1099.4	10	709.6	6	87	52	145
8/13/2021	3	1099.4	10	709.5	6	88	51	144
8/13/2021	4	1099.4	10	708.9	6	88	50	144
8/13/2021	5	1099.4	10	708.5	6	88	51	144
8/13/2021	6	1099.4	20	708.2	6	88	50	144
8/13/2021	7	1099.4	1640	708.8	6	86	51	143
8/13/2021	8	1099.4	2380	708.9	8	85	51	143
8/13/2021	9	1099.4	2370	709.1	16	84	51	151
8/13/2021	10	1099.4	2380	709.1	16	83	52	151
8/13/2021	11	1099.4	2390	709.2	16	83	51	150
8/13/2021	12	1099.4	2380	709.1	16	83	52	151
8/13/2021	13	1099.4	2390	709.3	16	82	52	151
8/13/2021	14	1099.4	2390	709.5	16	82	52	151
8/13/2021	15	1099.4	2380	709.7	16	82	52	150
8/13/2021	16	1099.4	2380	709.7	16	83	51	150
8/13/2021	17	1099.4	2380	709.6	16	83	51	150
8/13/2021	18	1099.3	2390	709.7	16	83	51	150
8/13/2021	19	1099.4	2370	709.4	16	83	50	149
8/13/2021	20	1099.4	2370	709.3	16	83	50	149
8/13/2021	21	1099.4	2370	709.1	16	83	50	150
8/13/2021	22	1099.3	2360	709.0	16	83	50	150
8/13/2021	23	1099.4	340	708.5	16	83	51	150
8/13/2021	24	1099.4	10	708.6	16	83	50	149
8/14/2021	1	1099.4	10	708.1	16	83	50	150
8/14/2021	2	1099.4	10	708.6	16	83	50	150
8/14/2021	3	1099.4	10	709.4	16	83	51	150
8/14/2021	4	1099.4	10	708.6	16	83	50	150
8/14/2021	5	1099.4	10	708.3	16	83	50	150
8/14/2021	6	1099.4	50	708.3	16	83	50	150
8/14/2021	7	1099.4	2280	708.8	16	84	50	150
8/14/2021	8	1099.4	2370	708.7	16	83	50	150
8/14/2021	9	1099.4	2370	708.6	20	79	50	150
8/14/2021	10	1099.4	2380	708.6	87	12	51	150
8/14/2021	11	1099.4	2390	708.6	88	0	51	139
8/14/2021	12	1099.4	2370	708.6	88	0	50	138
8/14/2021	13	1099.3	2390	708.6	88	0	51	139
8/14/2021	14	1099.3	2380	708.7	88	0	52	140
8/14/2021	15	1099.4	2370	708.7	88	0	51	139
8/14/2021	16	1099.4	2380	709.0	88	0	50	138
8/14/2021	17	1099.4	2360	709.5	88	0	50	138

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/14/2021	18	1099.4	2390	709.8	88	0	50	138
8/14/2021	19	1099.4	2380	709.9	88	0	50	138
8/14/2021	20	1099.4	2380	710.0	88	0	50	138
8/14/2021	21	1099.4	2370	709.9	88	0	51	139
8/14/2021	22	1099.3	2380	709.8	88	0	50	138
8/14/2021	23	1099.3	350	709.4	88	0	51	139
8/14/2021	24	1099.3	10	709.1	88	0	51	139
8/15/2021	1	1099.3	10	708.9	88	0	51	140
8/15/2021	2	1099.3	10	708.8	88	0	51	139
8/15/2021	3	1099.4	10	708.7	88	0	51	139
8/15/2021	4	1099.4	10	708.5	88	0	51	139
8/15/2021	5	1099.3	10	708.3	88	0	51	139
8/15/2021	6	1099.3	10	708.2	88	0	51	139
8/15/2021	7	1099.3	10	707.9	88	0	51	139
8/15/2021	8	1099.4	10	707.8	88	0	51	139
8/15/2021	9	1099.3	10	707.7	88	0	50	138
8/15/2021	10	1099.3	10	707.3	88	0	50	138
8/15/2021	11	1099.3	10	707.4	88	0	50	138
8/15/2021	12	1099.3	10	707.5	88	0	50	138
8/15/2021	13	1099.3	10	707.4	88	0	50	138
8/15/2021	14	1099.4	10	708.0	88	0	49	137
8/15/2021	15	1099.4	10	708.6	88	0	49	137
8/15/2021	16	1099.4	10	708.9	88	0	50	138
8/15/2021	17	1099.4	10	708.8	88	0	50	138
8/15/2021	18	1099.4	10	709.1	88	0	50	138
8/15/2021	19	1099.4	10	708.8	88	0	49	138
8/15/2021	20	1099.4	10	709.2	88	0	50	138
8/15/2021	21	1099.4	10	709.3	88	0	49	137
8/15/2021	22	1099.4	10	709.8	88	0	50	138
8/15/2021	23	1099.4	10	710.1	88	0	52	141
8/15/2021	24	1099.4	10	710.0	88	0	52	140
8/16/2021	1	1099.4	10	709.3	88	0	52	140
8/16/2021	2	1099.4	10	708.4	88	0	51	139
8/16/2021	3	1099.4	10	708.0	88	0	50	139
8/16/2021	4	1099.4	10	707.8	88	0	49	138
8/16/2021	5	1099.4	10	708.0	88	0	50	138
8/16/2021	6	1099.4	10	707.9	88	0	51	139
8/16/2021	7	1099.4	10	707.8	88	0	50	138
8/16/2021	8	1099.4	10	707.6	88	0	50	138
8/16/2021	9	1099.4	10	707.8	88	0	50	138
8/16/2021	10	1099.4	10	707.9	88	0	50	138
8/16/2021	11	1099.4	10	708.0	88	0	50	137
8/16/2021	12	1099.4	10	708.6	88	0	49	137
8/16/2021	13	1099.4	10	708.5	88	0	50	138
8/16/2021	14	1099.4	10	708.9	88	0	50	139
8/16/2021	15	1099.4	10	709.2	88	0	50	138
8/16/2021	16	1099.4	10	709.2	88	0	50	138

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/16/2021	17	1099.5	10	709.2	88	0	50	138
8/16/2021	18	1099.5	10	709.5	88	0	50	138
8/16/2021	19	1099.5	10	709.5	88	0	50	138
8/16/2021	20	1099.5	10	709.4	88	0	49	137
8/16/2021	21	1099.5	10	709.2	88	0	49	137
8/16/2021	22	1099.5	10	709.1	88	0	50	139
8/16/2021	23	1099.4	10	708.8	88	0	49	137
8/16/2021	24	1099.4	10	708.5	88	0	49	137
8/17/2021	1	1099.4	10	707.9	88	0	49	137
8/17/2021	2	1099.5	10	707.8	88	0	49	137
8/17/2021	3	1099.4	10	708.0	88	0	50	139
8/17/2021	4	1099.4	10	707.9	88	0	50	138
8/17/2021	5	1099.5	10	707.9	88	0	49	137
8/17/2021	6	1099.5	70	708.2	88	0	50	138
8/17/2021	7	1099.5	1150	708.7	88	0	50	138
8/17/2021	8	1099.5	1140	708.0	88	0	50	139
8/17/2021	9	1099.5	1150	708.0	88	0	50	138
8/17/2021	10	1099.5	1140	708.0	88	0	52	140
8/17/2021	11	1099.5	1140	707.8	88	0	52	140
8/17/2021	12	1099.5	1150	707.9	88	0	52	140
8/17/2021	13	1099.5	1150	707.8	88	0	51	139
8/17/2021	14	1099.5	1150	707.8	88	0	51	139
8/17/2021	15	1099.5	1150	707.8	88	0	51	139
8/17/2021	16	1099.5	1150	707.9	88	0	52	140
8/17/2021	17	1099.5	1150	707.9	88	0	52	140
8/17/2021	18	1099.5	1160	708.2	88	0	51	139
8/17/2021	19	1099.5	1150	708.3	88	0	52	140
8/17/2021	20	1099.5	1150	708.4	88	0	52	140
8/17/2021	21	1099.4	1150	708.9	88	0	53	141
8/17/2021	22	1099.4	1160	709.3	88	0	53	141
8/17/2021	23	1099.4	50	709.5	88	0	54	142
8/17/2021	24	1099.4	10	709.5	88	0	53	141
8/18/2021	1	1099.4	10	709.7	88	0	53	140
8/18/2021	2	1099.4	10	709.1	88	0	51	140
8/18/2021	3	1099.4	10	708.8	88	0	51	140
8/18/2021	4	1099.4	10	708.3	88	0	51	139
8/18/2021	5	1099.4	10	708.1	88	0	50	138
8/18/2021	6	1099.4	90	708.6	88	0	50	138
8/18/2021	7	1099.4	1160	709.0	88	0	51	139
8/18/2021	8	1099.4	1150	709.1	88	0	50	138
8/18/2021	9	1099.4	1150	709.4	88	0	51	139
8/18/2021	10	1099.4	1160	709.4	88	0	50	138
8/18/2021	11	1099.4	1150	709.3	88	0	50	138
8/18/2021	12	1099.4	1150	709.3	88	0	50	138
8/18/2021	13	1099.4	1150	709.3	88	0	50	138
8/18/2021	14	1099.4	1140	709.2	88	0	51	140
8/18/2021	15	1099.4	1150	709.2	88	0	51	139

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/18/2021	16	1099.4	1150	709.2	88	0	51	139
8/18/2021	17	1099.4	1160	708.8	88	0	51	139
8/18/2021	18	1099.4	1160	708.8	88	0	51	139
8/18/2021	19	1099.4	1160	709.1	88	0	51	139
8/18/2021	20	1099.4	1160	709.5	88	0	51	139
8/18/2021	21	1099.4	1150	709.5	88	0	50	138
8/18/2021	22	1099.4	1130	709.9	88	0	51	139
8/18/2021	23	1099.4	10	710.3	88	0	51	139
8/18/2021	24	1099.4	10	710.5	88	0	51	139
8/19/2021	1	1099.4	10	710.1	88	0	51	139
8/19/2021	2	1099.4	10	709.7	88	0	51	139
8/19/2021	3	1099.4	10	709.5	88	0	51	140
8/19/2021	4	1099.4	10	708.8	88	0	50	138
8/19/2021	5	1099.4	10	708.5	88	0	53	141
8/19/2021	6	1099.4	20	708.4	88	0	52	140
8/19/2021	7	1099.4	1140	708.7	88	0	52	140
8/19/2021	8	1099.4	1150	707.9	88	0	51	139
8/19/2021	9	1099.4	1150	708.1	88	0	51	139
8/19/2021	10	1099.4	1150	708.2	88	0	51	139
8/19/2021	11	1099.4	1160	708.6	88	0	51	138
8/19/2021	12	1099.4	1150	708.5	88	0	51	139
8/19/2021	13	1099.4	1160	709.0	88	0	51	139
8/19/2021	14	1099.4	1160	709.0	88	0	51	139
8/19/2021	15	1099.4	1160	709.1	88	0	51	139
8/19/2021	16	1099.4	1160	709.2	88	0	50	138
8/19/2021	17	1099.4	1160	709.3	88	0	50	138
8/19/2021	18	1099.4	1170	709.3	88	0	49	138
8/19/2021	19	1099.4	1160	709.4	88	0	50	138
8/19/2021	20	1099.4	1160	709.4	88	0	51	139
8/19/2021	21	1099.4	1150	709.1	88	0	50	138
8/19/2021	22	1099.4	1150	708.8	88	0	51	139
8/19/2021	23	1099.4	20	708.4	89	0	51	140
8/19/2021	24	1099.4	10	708.0	88	0	50	138
8/20/2021	1	1099.4	10	707.5	88	0	50	138
8/20/2021	2	1099.4	10	707.0	88	0	50	137
8/20/2021	3	1099.4	10	707.3	88	0	50	138
8/20/2021	4	1099.7	10	707.0	88	0	50	138
8/20/2021	5	1099.5	10	706.8	88	0	49	137
8/20/2021	6	1099.4	20	707.1	88	0	49	137
8/20/2021	7	1099.4	1150	707.7	88	0	50	138
8/20/2021	8	1099.4	1150	707.7	88	0	50	137
8/20/2021	9	1099.4	1150	708.2	88	0	50	138
8/20/2021	10	1099.4	1160	708.3	88	0	50	138
8/20/2021	11	1099.4	1160	708.5	88	0	51	139
8/20/2021	12	1099.4	1160	709.2	88	0	52	140
8/20/2021	13	1099.4	1160	709.6	88	0	52	141
8/20/2021	14	1099.4	1170	709.7	88	0	53	141

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/20/2021	15	1099.4	1170	710.0	88	0	52	140
8/20/2021	16	1099.4	1170	710.1	88	0	52	141
8/20/2021	17	1099.4	1170	710.0	88	0	52	141
8/20/2021	18	1099.4	1170	709.9	88	0	52	140
8/20/2021	19	1099.4	1160	709.9	88	0	51	140
8/20/2021	20	1099.4	1160	709.9	88	0	51	139
8/20/2021	21	1099.4	1160	709.9	88	0	51	139
8/20/2021	22	1099.4	1050	709.9	88	0	52	140
8/20/2021	23	1099.4	10	709.9	88	0	53	141
8/20/2021	24	1099.4	10	709.9	88	0	54	141
8/21/2021	1	1099.4	10	709.8	88	0	53	141
8/21/2021	2	1099.4	10	709.6	88	0	53	141
8/21/2021	3	1099.4	10	709.3	88	0	52	141
8/21/2021	4	1099.4	10	708.8	88	0	52	140
8/21/2021	5	1099.4	10	708.7	88	0	51	139
8/21/2021	6	1099.4	10	709.0	88	0	52	140
8/21/2021	7	1099.4	1140	709.2	88	0	53	140
8/21/2021	8	1099.4	1160	708.3	88	0	51	139
8/21/2021	9	1099.4	1160	708.1	88	0	51	139
8/21/2021	10	1099.4	1150	708.1	88	0	50	138
8/21/2021	11	1099.4	1160	707.8	88	0	51	139
8/21/2021	12	1099.4	1150	707.6	88	0	51	138
8/21/2021	13	1099.4	1150	707.8	88	0	50	138
8/21/2021	14	1099.4	1150	708.0	88	0	52	140
8/21/2021	15	1099.4	1160	708.4	88	0	53	141
8/21/2021	16	1099.4	1160	708.8	88	0	53	142
8/21/2021	17	1099.4	1160	709.0	88	0	53	141
8/21/2021	18	1099.3	1160	708.9	88	0	53	141
8/21/2021	19	1099.4	1170	708.9	88	0	52	140
8/21/2021	20	1099.4	1160	708.9	88	0	52	140
8/21/2021	21	1099.4	1160	708.9	88	0	51	139
8/21/2021	22	1099.4	1140	708.9	88	0	51	139
8/21/2021	23	1099.4	10	708.8	88	0	50	138
8/21/2021	24	1099.4	10	708.7	88	0	50	138
8/22/2021	1	1099.4	10	707.9	88	0	49	137
8/22/2021	2	1099.4	10	708.2	88	0	49	137
8/22/2021	3	1099.4	10	708.9	88	0	50	138
8/22/2021	4	1099.4	10	708.8	88	0	50	138
8/22/2021	5	1099.4	10	709.6	88	0	51	139
8/22/2021	6	1099.4	10	710.1	88	0	51	139
8/22/2021	7	1099.4	10	710.3	88	0	51	139
8/22/2021	8	1099.4	10	710.0	88	0	51	139
8/22/2021	9	1099.4	10	709.4	88	0	51	139
8/22/2021	10	1099.4	10	708.5	88	0	49	137
8/22/2021	11	1099.4	10	708.1	88	0	49	137
8/22/2021	12	1099.4	10	708.1	88	0	49	137
8/22/2021	13	1099.4	10	707.7	88	0	49	137

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/22/2021	14	1099.4	10	707.3	88	0	49	137
8/22/2021	15	1099.4	10	707.4	88	0	50	138
8/22/2021	16	1099.4	10	707.5	88	0	49	137
8/22/2021	17	1099.4	10	707.5	88	0	49	137
8/22/2021	18	1099.4	10	707.4	88	0	48	136
8/22/2021	19	1099.4	10	707.5	88	0	48	136
8/22/2021	20	1099.4	10	707.7	88	0	49	137
8/22/2021	21	1099.4	10	707.9	88	0	49	137
8/22/2021	22	1099.4	10	707.5	88	0	49	138
8/22/2021	23	1099.4	10	707.5	88	0	50	138
8/22/2021	24	1099.4	10	707.2	88	0	50	138
8/23/2021	1	1099.4	10	706.5	88	0	50	138
8/23/2021	2	1099.4	10	706.9	88	0	50	138
8/23/2021	3	1099.4	10	706.8	88	0	49	137
8/23/2021	4	1099.4	10	706.6	88	0	49	137
8/23/2021	5	1099.4	10	706.6	88	0	49	137
8/23/2021	6	1099.4	80	706.9	88	0	49	137
8/23/2021	7	1099.4	1160	708.1	88	0	51	138
8/23/2021	8	1099.4	1150	707.9	88	0	50	138
8/23/2021	9	1099.4	1150	708.3	88	0	51	139
8/23/2021	10	1099.4	1150	708.8	88	0	51	139
8/23/2021	11	1099.4	1140	708.8	88	0	51	139
8/23/2021	12	1099.4	1130	708.8	88	0	51	140
8/23/2021	13	1099.4	1140	708.9	88	0	52	141
8/23/2021	14	1099.4	1150	708.8	88	0	52	140
8/23/2021	15	1099.4	1160	708.8	88	0	52	140
8/23/2021	16	1099.4	1160	708.8	88	0	52	139
8/23/2021	17	1099.4	1170	708.9	88	0	52	140
8/23/2021	18	1099.3	1170	708.7	88	0	53	141
8/23/2021	19	1099.3	1160	708.9	88	0	52	140
8/23/2021	20	1099.4	1160	708.7	88	0	51	140
8/23/2021	21	1099.3	1150	708.6	88	0	51	140
8/23/2021	22	1099.3	980	708.4	88	0	51	139
8/23/2021	23	1099.3	10	708.1	88	0	50	138
8/23/2021	24	1099.3	10	708.1	88	0	50	138
8/24/2021	1	1099.3	10	707.9	88	0	50	138
8/24/2021	2	1099.3	10	708.5	88	0	51	139
8/24/2021	3	1099.3	10	708.5	88	0	50	139
8/24/2021	4	1099.3	10	708.7	88	0	51	139
8/24/2021	5	1099.3	10	708.6	88	0	51	139
8/24/2021	6	1099.3	90	708.2	88	0	50	138
8/24/2021	7	1099.3	1160	708.8	110	0	51	160
8/24/2021	8	1099.3	1160	708.3	118	0	5	123
8/24/2021	9	1099.3	1150	708.0	106	0	0	106
8/24/2021	10	1099.3	1160	708.2	103	0	0	103
8/24/2021	11	1099.3	1160	708.2	103	0	0	103
8/24/2021	12	1099.3	1160	708.1	103	0	0	103

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/24/2021	13	1099.3	1150	708.0	103	0	0	103
8/24/2021	14	1099.3	1140	708.0	103	0	0	103
8/24/2021	15	1099.3	1140	707.9	102	0	0	102
8/24/2021	16	1099.3	1140	707.9	87	0	0	87
8/24/2021	17	1099.3	1130	708.2	87	0	0	87
8/24/2021	18	1099.3	1140	708.4	87	0	0	87
8/24/2021	19	1099.3	1140	708.4	87	0	0	87
8/24/2021	20	1099.3	1130	708.5	87	0	0	87
8/24/2021	21	1099.3	1130	708.2	87	0	0	87
8/24/2021	22	1099.3	1120	708.1	87	0	0	87
8/24/2021	23	1099.3	50	708.1	87	0	0	87
8/24/2021	24	1099.3	10	708.1	87	0	0	87
8/25/2021	1	1099.3	10	707.8	87	0	0	87
8/25/2021	2	1099.3	10	708.2	87	0	0	87
8/25/2021	3	1099.3	10	708.1	87	0	0	87
8/25/2021	4	1099.3	10	708.1	87	0	0	87
8/25/2021	5	1099.3	10	708.3	87	0	0	87
8/25/2021	6	1099.3	80	708.3	87	0	0	87
8/25/2021	7	1099.3	1150	708.3	87	0	0	87
8/25/2021	8	1099.3	1150	708.0	87	0	0	87
8/25/2021	9	1099.3	1150	708.1	87	0	0	87
8/25/2021	10	1099.3	1150	708.1	87	0	0	87
8/25/2021	11	1099.3	1150	708.5	87	0	0	87
8/25/2021	12	1099.3	1170	709.2	87	0	0	87
8/25/2021	13	1099.3	1170	709.7	87	0	0	87
8/25/2021	14	1099.3	1570	710.0	87	0	0	87
8/25/2021	15	1099.3	2380	710.2	87	0	0	87
8/25/2021	16	1099.3	2230	710.0	87	0	0	87
8/25/2021	17	1099.3	1150	709.8	87	0	0	87
8/25/2021	18	1099.3	1170	709.9	87	0	0	87
8/25/2021	19	1099.3	1160	710.4	87	0	0	87
8/25/2021	20	1099.3	1160	710.5	88	0	0	88
8/25/2021	21	1099.3	1160	710.4	87	0	0	87
8/25/2021	22	1099.3	1160	710.2	87	0	0	87
8/25/2021	23	1099.3	40	709.8	87	0	0	87
8/25/2021	24	1099.3	10	709.6	87	0	0	87
8/26/2021	1	1099.3	10	709.6	87	0	0	87
8/26/2021	2	1099.3	10	709.6	87	0	0	87
8/26/2021	3	1099.3	10	709.3	87	0	0	87
8/26/2021	4	1099.3	10	709.0	87	0	0	87
8/26/2021	5	1099.3	10	708.6	87	0	0	87
8/26/2021	6	1099.3	20	708.4	87	0	0	87
8/26/2021	7	1099.3	1160	708.4	87	0	0	87
8/26/2021	8	1099.3	1150	708.1	88	0	0	88
8/26/2021	9	1099.3	1150	708.1	87	0	0	87
8/26/2021	10	1099.3	1160	708.6	87	0	0	87
8/26/2021	11	1099.3	1150	708.5	87	0	0	87

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/26/2021	12	1099.3	1160	708.9	87	0	0	87
8/26/2021	13	1099.3	1150	709.2	87	0	0	87
8/26/2021	14	1099.3	1130	709.5	87	0	0	87
8/26/2021	15	1099.3	1130	709.5	87	0	0	87
8/26/2021	16	1099.3	1130	709.3	87	0	0	87
8/26/2021	17	1099.3	1140	709.2	87	0	0	87
8/26/2021	18	1099.3	1130	709.4	87	0	0	87
8/26/2021	19	1099.3	1140	709.3	87	0	0	87
8/26/2021	20	1099.3	1130	709.3	87	0	0	87
8/26/2021	21	1099.3	1140	709.3	87	0	0	87
8/26/2021	22	1099.3	1120	709.5	87	0	0	87
8/26/2021	23	1099.3	70	709.8	87	0	0	87
8/26/2021	24	1099.3	10	710.1	87	0	0	87
8/27/2021	1	1099.3	10	710.1	87	0	0	87
8/27/2021	2	1099.3	10	710.0	87	0	0	87
8/27/2021	3	1099.3	10	709.4	87	0	0	87
8/27/2021	4	1099.3	10	709.1	87	0	0	87
8/27/2021	5	1099.3	10	708.7	87	0	0	87
8/27/2021	6	1099.3	60	708.4	87	0	0	87
8/27/2021	7	1099.3	1150	708.6	87	0	0	87
8/27/2021	8	1099.3	1150	708.2	87	0	0	87
8/27/2021	9	1099.3	1160	708.3	87	0	0	87
8/27/2021	10	1099.3	1150	708.1	87	0	0	87
8/27/2021	11	1099.3	1160	708.5	87	0	0	87
8/27/2021	12	1099.2	1160	708.7	87	0	0	87
8/27/2021	13	1099.3	1170	709.3	87	0	0	87
8/27/2021	14	1099.3	1160	709.6	87	0	0	87
8/27/2021	15	1099.3	1160	709.9	87	0	0	87
8/27/2021	16	1099.3	1170	710.0	87	0	0	87
8/27/2021	17	1099.3	1160	710.0	87	0	0	87
8/27/2021	18	1099.3	1170	709.8	87	0	0	87
8/27/2021	19	1099.3	1160	709.6	87	0	0	87
8/27/2021	20	1099.3	1150	709.4	87	0	0	87
8/27/2021	21	1099.3	1160	709.3	87	0	0	87
8/27/2021	22	1099.3	1120	709.0	87	0	0	87
8/27/2021	23	1099.3	10	708.8	87	0	0	87
8/27/2021	24	1099.3	10	708.1	87	0	0	87
8/28/2021	1	1099.3	10	707.9	87	0	0	87
8/28/2021	2	1099.3	10	707.2	87	0	0	87
8/28/2021	3	1099.3	10	707.1	87	0	0	87
8/28/2021	4	1099.3	10	707.3	87	0	0	87
8/28/2021	5	1099.3	10	707.3	87	0	0	87
8/28/2021	6	1099.2	10	707.3	87	0	0	87
8/28/2021	7	1099.2	1120	707.9	87	0	0	87
8/28/2021	8	1099.2	1150	707.8	87	0	0	87
8/28/2021	9	1099.2	1160	707.7	87	0	0	87
8/28/2021	10	1099.2	1170	707.6	87	0	0	87

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/28/2021	11	1099.2	1160	707.7	87	0	0	87
8/28/2021	12	1099.2	1160	707.7	87	0	0	87
8/28/2021	13	1099.2	1160	707.8	87	0	0	87
8/28/2021	14	1099.2	1160	708.3	87	0	0	87
8/28/2021	15	1099.2	1160	709.2	87	0	0	87
8/28/2021	16	1099.2	1170	709.7	87	0	0	87
8/28/2021	17	1099.2	1160	709.9	87	0	0	87
8/28/2021	18	1099.2	1170	709.9	87	0	0	87
8/28/2021	19	1099.2	1160	709.9	87	0	0	87
8/28/2021	20	1099.2	1160	709.8	87	0	0	87
8/28/2021	21	1099.2	1160	709.8	87	0	0	87
8/28/2021	22	1099.2	1150	709.9	87	0	0	87
8/28/2021	23	1099.2	10	709.8	87	0	0	87
8/28/2021	24	1099.2	10	709.8	87	0	0	87
8/29/2021	1	1099.2	10	709.8	87	0	0	87
8/29/2021	2	1099.2	10	709.3	87	0	0	87
8/29/2021	3	1099.2	10	708.7	87	0	0	87
8/29/2021	4	1099.2	10	708.2	87	0	0	87
8/29/2021	5	1099.2	10	707.7	87	0	0	87
8/29/2021	6	1099.2	10	707.6	87	0	0	87
8/29/2021	7	1099.2	10	707.6	86	0	0	86
8/29/2021	8	1099.2	10	707.6	87	0	0	87
8/29/2021	9	1099.2	10	707.8	87	0	0	87
8/29/2021	10	1099.2	10	707.7	87	0	0	87
8/29/2021	11	1099.2	10	707.8	87	0	0	87
8/29/2021	12	1099.2	10	708.2	87	0	0	87
8/29/2021	13	1099.2	10	708.6	87	0	0	87
8/29/2021	14	1099.2	10	709.0	87	0	0	87
8/29/2021	15	1099.2	10	709.4	87	0	0	87
8/29/2021	16	1099.2	10	709.6	87	0	0	87
8/29/2021	17	1099.2	10	709.8	87	0	0	87
8/29/2021	18	1099.2	10	709.8	87	0	0	87
8/29/2021	19	1099.2	10	709.6	87	0	0	87
8/29/2021	20	1099.2	10	709.3	87	0	0	87
8/29/2021	21	1099.2	10	709.3	87	0	0	87
8/29/2021	22	1099.2	10	708.9	87	0	0	87
8/29/2021	23	1099.2	10	708.2	87	0	0	87
8/29/2021	24	1099.2	10	708.0	87	0	0	87
8/30/2021	1	1099.2	10	707.6	87	0	0	87
8/30/2021	2	1099.2	10	707.0	87	0	0	87
8/30/2021	3	1099.2	10	707.2	87	0	0	87
8/30/2021	4	1099.2	10	707.3	87	0	0	87
8/30/2021	5	1099.2	10	706.9	87	0	0	87
8/30/2021	6	1099.2	70	706.8	87	0	0	87
8/30/2021	7	1099.2	1150	707.6	87	0	0	87
8/30/2021	8	1099.2	1150	707.5	87	0	0	87
8/30/2021	9	1099.2	1150	707.5	87	0	0	87

Date	Hour	Lake Chelan Elevation (ft)	Powerhouse Tailrace Flow (cfs)	Powerhouse Tailwater Elevation (ft)	Low Level Outlet Flow (cfs)	Spillway Flow (cfs)	Pump Station Flow (cfs)	Chelan River Flow Reach 4 (cfs)
8/30/2021	10	1099.2	1160	707.5	87	0	0	87
8/30/2021	11	1099.2	1160	707.5	87	0	0	87
8/30/2021	12	1099.2	1160	707.6	87	0	0	87
8/30/2021	13	1099.2	1160	707.7	87	0	0	87
8/30/2021	14	1099.2	1160	707.8	87	0	0	87
8/30/2021	15	1099.2	1160	707.9	87	0	0	87
8/30/2021	16	1099.2	1170	708.2	87	0	0	87
8/30/2021	17	1099.3	1160	708.3	87	0	0	87
8/30/2021	18	1099.3	1150	708.3	87	0	0	87
8/30/2021	19	1099.2	1150	707.9	87	0	0	87
8/30/2021	20	1099.3	1150	707.7	86	0	0	86
8/30/2021	21	1099.3	1150	707.7	87	0	0	87
8/30/2021	22	1099.3	1110	707.6	87	0	0	87
8/30/2021	23	1099.3	10	706.5	87	0	0	87
8/30/2021	24	1099.3	10	706.8	87	0	0	87
8/31/2021	1	1099.3	10	707.0	87	0	0	87
8/31/2021	2	1099.3	10	707.2	87	0	0	87
8/31/2021	3	1099.3	10	707.3	87	0	0	87
8/31/2021	4	1099.3	10	707.6	87	0	0	87
8/31/2021	5	1099.3	10	707.8	87	0	0	87
8/31/2021	6	1099.3	90	707.8	87	0	0	87
8/31/2021	7	1099.2	1160	708.2	87	0	0	87
8/31/2021	8	1099.2	1160	707.8	87	0	0	87
8/31/2021	9	1099.2	1150	707.8	87	0	0	87
8/31/2021	10	1099.2	1150	708.2	87	0	0	87
8/31/2021	11	1099.2	1160	708.4	87	0	0	87
8/31/2021	12	1099.2	1160	708.7	87	0	0	87
8/31/2021	13	1099.2	1160	709.2	87	0	0	87
8/31/2021	14	1099.2	1170	709.8	87	0	0	87
8/31/2021	15	1099.2	1160	710.2	87	0	0	87
8/31/2021	16	1099.2	1160	710.1	87	0	0	87
8/31/2021	17	1099.2	1160	710.0	87	0	0	87
8/31/2021	18	1099.2	1160	709.7	87	0	0	87
8/31/2021	19	1099.2	1170	709.7	87	0	0	87
8/31/2021	20	1099.2	1160	709.5	87	0	0	87
8/31/2021	21	1099.2	1170	709.7	87	0	0	87
8/31/2021	22	1099.2	990	709.6	87	0	0	87
8/31/2021	23	1099.2	10	709.0	87	0	0	87
8/31/2021	24	1099.2	10	708.9	87	0	0	87