



FISH PASSAGE CENTER

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MEMORANDUM

To: Fish Passage Advisory Committee (FPAC)

From: FPC Staff

Date: September 21, 2018

Subject: Action Notes from September 18, 2018, FPAC meeting

On September 18, 2018, FPAC met for its monthly face-to-face meeting/conference call at the Fish Passage Center. The following people participated in the meeting:

Paul Wagner (NOAA, co-chair)	Erick Van Dyke (ODFW, via phone)
Tom Lorz (CRITFC, co-chair)	Russ Kiefer (IDFG, via phone)
Dave Swank (USFWS)	Jay Hesse (NPT, via phone)
Michele DeHart (FPC)	Trevor Conder (NOAA, via phone)
Dave Benner (FPC)	Gabe Scheer (FPC)
Erin Cooper (FPC)	Tom Iverson (Yakama Nation, via phone)
Brandon Chockley (FPC)	

AGENDA ITEMS

Review and Approval of Previous Notes (00:01:15 – 00:05:30)

- Notes from September 4 meeting will be approved with following edits:
 - FPC received edits from Russ Kiefer (IDFG) via e-mail. Edits pertained to Snake River sockeye returns to Stanley Basin.
 - Paul Wagner (NOAA) suggested edits to the Water Supply section. Suggested striking “coordination with COE” in section discussing Idaho Power operations.

Water Supply and Reservoir Status (00:05:30 – 00:02:40)

- Dave Benner (FPC) provided an overview of reservoir operations and 2018 spring and summer objective flows. See attached document.
 - Note: there is a typo in the Brownlee section. It should read that Brownlee is at 2,050.0 feet on September 17, 2018 (not September 3, 2018).

Weather Update and Climate Forecast (00:02:40 – 00:09:20)

- See attached precipitation and temperatures report for the season and August.
- Kyle Dittmer (CRITFC) sent his weather report via e-mail: Sunny weather will give way to a weak storm that will push through the region on THUR-FRI, delivering 0.1-0.25 inch rain totals. Rainy weather will continue through MON, then sunny skies return with near normal temps – 70s day, and 50s at night.
- Paul Wagner (NOAA) noted that NOAA now estimating 65-70% chance of El Niño for this winter.

Fish Passage Status (00:09:20 – 00:53:20)

Juvenile Passage Status

- For passage indices through September 18, 2018, see the attached document. For updated indices, use the FPC website. Subyearling Chinook continue to predominate samples.
- Brandon Chockley (FPC) provided a summary of the recent MFR from the COE regarding LGS operations. Due to high mortalities last week, presumed from *Columnaris*, LGS has switched to primary bypass. LGS will conduct a condition sample (24-hour sample) every three days. Transportation operations (i.e., daily sampling) will resume when three consecutive condition samples have <9% mortality. Paul Wagner (NOAA) noted that he thinks should resume when mortality is even lower (~5% or lower) and suggested this to the COE. The FPP does not have specific language on when to resume normal operations. FPAC discussed possibly submitting a change form to spell out when normal operations should resume.

Adult Passage Status

- Dave Benner (FPC) provided an update on adult counts (see attached). For updated adult counts, use FPC website.
- Russ Kiefer (IDFG) notes that the daily fluctuations in steelhead counts at BON seem to track those for fall Chinook adults.
- Tom Lorz (CRITFC) provided recap of discussion at last week's FPOM meeting. Upon request from WDFW, COE conducted recount of sockeye at IHR (via video). Upon review, it was determined that the sockeye count at IHR is inflated, as a counter misidentified Chinook mini-jacks as sockeye. IHR count will be adjusted. New IHR count will be 370.
- Michele DeHart (FPC) noted that the video was reviewed in response to a WDFW request but, without this request, the video would not have been reviewed. Expressed concern that there isn't a normal QA/QC process to prevent these things. Tom Lorz (CRITFC) noted that the new adult counting contract has language for a more rigorous

QA/QC program. New contract should also remedy recent issues with getting count data in timely manner.

- Erick Van Dyke (ODFW) asked about potential for similar counting errors at other projects. We had modified operations in response to count data. Perhaps the COE should review videos at other sites to make sure not similar counting issue at other sites. Tom Lorz (CRITFC) suggested trying to pinpoint certain sites of concern. Russ Kiefer (IDFG) mentioned the count differential between LMN and LGS for Snake River sockeye, could use that as justification for review at those two projects.
- Dave Swank (USFWS) asked, what is FPAC's opportunity to comment on the new counting contract and QA/QC program? Tom Lorz (CRITFC) noted that it is too late to provide input now. COE will share contract with agencies after it has been awarded (~Oct.). Managers can review what was proposed by contractor and can provide comments then. If there are substantial concerns, will have to go through contract modification, which is not desirable to COE. Brandon Chockley (FPC) suggested that FPAC could consider providing input on QA/QC program to the selection committee, via a JTS memo. This may be a way to provide input before a new contract is awarded. Tom suggested asking COE what they would do with a JTS memo prior to sending it.
- FPAC continued discussion of issues with getting current counts in timely manner. Michele DeHart (FPC) noted that the COE has a MOA with the agencies and tribes that states that states the COE has not committed to daily posting of counts. The MOA states that the COE has three days to post the counts. Tom Lorz (CRITFC) noted there are different interpretations of this language. Some believe the three days refers to corrected counts but uncorrected counts should be available daily.

Little Goose Bypass Status (See Fish Passage Status – Juvenile Passage Status above)

PIT-Powerhouse Passage Information (00:53:20 – 01:44:30)

Note: Given that this discussion was largely an overview of an on-line application, we recommend consulting the recording from this meeting to see application features and usage (http://www.fpc.org/documents/fpac_minutes/fpac_min_2018/09-18_GTM.mp4). The notes provided below are highlights of some of the discussions from the overview and not details of application use or features.

- Jay Hesse (NPT) provided an overview of Nez Perce Tribe's Shiny App for Snake and Columbia River Hydrosystem Spill Operations and Fish Passage Route Planning (<https://nptfisheries.shinyapps.io/pitph2/>). This version of the application is not yet live but can be used by FPAC.
- Jay noted that the application is currently based on the CSS curves for PITPH but they recently received the SPE curves for the COMPASS model and will be working on incorporating these into the tool.
- Paul Wagner (NOAA) asked about the ice trash sluiceway at The Dalles and Corner Collector at BON. How are they accounted for in CSS PITPH? After much discussion, Brandon Chockley and Michele DeHart (FPC) clarified that the ice trash sluiceway at The Dalles is considered a powerhouse passage in the CSS PITPH model. This is because fish

exiting the sluiceway are subjected to the same tailrace conditions as fish exiting the powerhouse at The Dalles. The Corner Collector at BON (B2CC) is considered part of spill passage, as fish exiting the B2CC encounter similar conditions as fish exiting the spillway. This is different from COMPASS, as the COMPASS model treats all of these passage routes separately. Michele DeHart (FPC) reiterated that PITPH was developed as a way to describe spill, in response to NOAA's suggestion that average spill proportion, as was used in older CSS analyses, was not adequate and did not account for surface passage routes.

- Trevor Conder (NOAA) asked whether the tool accounts for uncontrolled spill. Jay noted that the tool incorporated powerhouse minimum requirements for lower end constraints and powerhouse capacities for upper end constraints. Real powerhouse capacities fluctuate from year to year but tool assumes same capacities for all years (similar to other modeling efforts).
- Simulated year option in Modeled Flow section provides “average” of low, average, or high flow years, depending on what was chosen by user in the Average Season-wide In-flow section in dataset (2006-2017). Every time you run the model, you will get slightly different values for PITPH because “Simulated Year” option incorporates variation in datasets for low, average, and high flow years.
- Jay provided overview of “Probability Diagram” tab, which provides methodology for adjustment to PITPH for transported fish at Snake River transportation sites. Transported fish are removed from calculations for the period when transportation is occurring.
 - Michele DeHart (FPC) noted that transported fish had at least one powerhouse encounter and are removed from river. In the modeling of PITPH at downstream dams, is there anything that is based on the number of fish? PITPH is a probability of any fish approaching the project having a powerhouse encounter. How does removing a number of fish effect the probability of encountering a powerhouse downstream? Is there something that relies on a number of fish downstream? Jay answered - No.
 - Michele asked about the application of this tool. Is it to evaluate EIS alternatives? Jay answered – Yes, in terms of overall PITPH and to adjust operations at one dam and tweak at another. Michele noted that she does not understand why removing fish for transport effects PITPH calculation because PITPH is just a probability of encountering a powerhouse (a way to describe spill). Michele suggested that CSS needs to think about this further and should set up a meeting to discuss this methodology with NPT staff.
 - Brandon Chockley (FPC) noted that this methodology of adjusting the PITPH estimate for transportation sites is different from what you would get if you applied the CSS equations in their current form. Therefore, estimates generated by the tool will be different than what one would get if using the CSS equations.
- Jay provided overview of different graphics that are available with Static option of Modeled Flow. Graphics allow for visual assessment of data to inform focused adjustments to operations and how they may affect overall PITPH. Helpful tool to see where operations can be tinkered with and what the effect of tinkering is.

- Jay noted that NPT was hoping to launch the new version later this week. Hoping to get COMPASS curves incorporated before launching to public.
- Trevor Conder (NOAA) reminded Jay to look into BON (PH1) ice trash sluiceway and how that is incorporated into the CSS PITPH. Michele DeHart (FPC) reiterated that PITPH was developed as a way of describing spill operations. Brandon Chockley and Michele DeHart (FPC) clarified that the ice trash sluiceway at BON (PH1) is treated the same as a powerhouse encounter in the CSS PITPH model. Trevor noted that COMPASS treats this route separately. Trevor highlighted an example where, in the NEPA alternatives, some may look at PITPH at BON and develop ways to improve it. If alternative is to improve ice trash sluiceway, CSS model may underestimate the benefit of these improvements, as this is considered a powerhouse passage. Brandon suggested that this is a matter of understanding the model you are working with and perhaps the CSS PITPH model may not be the best tool to use when evaluating changes to the ice trash sluiceway at BON.

Other: SCT Proposal (01:44:30 – 01:46:50)

- Russ Kiefer (IDFG) noted that IDFG was hoping that the evaluation of PIT-tag detection system in the RSW at LGR would help inform the question of subyearling Chinook usage of the RSW, particularly during periods of high temperatures. Unfortunately, with the delay of the PIT-tag detection system, this will not be possible.
- Therefore, IDFG is going to propose a hydroacoustic evaluation of subyearling Chinook sized targets at the surface weirs at LGR and LGS for 2019. Objective would be to see when the number of subyearling Chinook passing through the surface weirs drops compared to subyearlings in the collection. IDFG will be proposing this at the SCT meeting on Thursday.

Other: September 10, 2018 FPC Memo (01:46:50 – 01:59:00)

- Russ Kiefer (IDFG) expressed concerns with the FPC review of the PNNL Report (Review of “Factors Influencing Migration Depths and Spillway Passage Routes of Subyearling Fall Chinook Salmon) that was provided to Charlie Morrill (WDFW) on September 10, 2018 (<http://www.fpc.org/documents/memos/60-18.pdf>) and circulated to FPAC.
- Russ expressed concerns that the introductory paragraph is not entirely accurate on the history of changing surface passage weir operations in the Snake River. Erin Cooper (FPC) specified that this paragraph is specific to what prompted the PNNL report, not this year’s operations.
- Russ noted that first got into this issue because the COE had proposed a FPP change form to remove the RSW at LGS when flows dropped below 50 Kcfs not to deal with temperature but to deal with an eddy and adult passage problem. IDFG objected to this change but offered a compromise by adding in a criterion for temperature. COE drafted revised change form, with IDFG input, which was not approved. Only in recent years has the COE talked about potential for temperature benefit. Russ noted that he first objected because he thought ladder temperature differentials at LGS were more impactful on adult passage and COE wanted to meet temperature criteria at LGR. Once we got the cooling pumps, Russ was more supportive of turning RSWs off. From IDFG

perspective, intent is to turn off surface weirs when no longer effective for juveniles and remedying eddy below LGS. Idea of decreasing tailrace temperatures is low priority. This would have been a more accurate way of describing the discussions on why should develop criteria of when should turn off RSWs.

- Russ suggested that the sentence “At the time, fisheries managers expressed that the removal of surface passage could negatively impact out-migrating subyearling Chinook...” should be changed to “At the time, some fisheries managers expressed that the removal of surface passage could negatively impact out-migrating subyearling Chinook...”. [*Emphasis added for notes to highlight suggested change*]. From IDFG perspective, if we come up with right criteria, when forebays are 72°F at 5 meters depth, it is very likely that removing the RSWs is a good idea and subyearlings are likely not using them very much.
- Russ noted that he was glad to see the last bullet in the memo that specifies that the data utilized by PNNL doesn’t cover the temperatures and time periods in question. However, Russ believes this is the most important point and suggested that something to this point should have been covered in second paragraph of memo.
- Tom Lorz (CRITFC) suggested that if Russ has comments, these comments should be submitted to FPC and FPAC review. Russ asked other salmon managers, after mentioning his concerns with the memo, do they agree? Russ noted that the memo has already been posted. His concern is that it could have done a lot better job of explaining where we are at, how we got where we’re at, and how we can move forward. Tom suggested that if there are changes that Russ wants, write them up. Paul Wagner (NOAA) noted that he understands what Russ is saying.
- Tom suggested that Russ submit his proposal for a hydroacoustic study at LGR and LGS to SCT this week.

Coordination (01:59:00 – 02:00:23)

- TMT tomorrow (September 19 at 9:00 AM), followed by Process meeting.
- SCT on Thursday at NOAA (morning)
- SRWG on Thursday at CRITFC (afternoon)
- Next FPAC, October 2nd (9:00 am conference call)

FPAC Agenda for Tuesday September 18, 2018
Meeting time: 10:00 AM
Meeting Location: FPC conference room

1. Review and approval of notes from September 3, meeting
2. Water supply and reservoir status
3. Weather update and climate forecast
4. Fish passage status
5. Little Goose bypass status
6. PIT Power house passage information
7. Coordination for other scheduled meetings
8. Other



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MEMORANDUM

TO: FPAC

FROM: David Benner, FPC

DATE: September 18th, 2018

RE: Reservoir Operations/Flows

Grand Coulee Reservoir is at 1281.2 feet (9-17-18) and has refilled 1.0 feet over the last week. Outflows at Grand Coulee have ranged between 49.6 Kcfs and 61.3 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2442.3 feet (9-17-18) and has drafted 0.4 feet over the past week. Daily average outflows at Libby Dam have been 6.0 Kcfs over the last week.

Hungry Horse is currently at an elevation of 3551.4 feet (9-17-18) and has drafted 1.1 feet last week. Outflows at Hungry Horse have been 2.3 Kcfs over the last week.

Dworshak is currently at an elevation of 1522.5 feet (9-17-18) and has drafted 4.1 feet over last week. Dworshak outflows have been reduced from 5.5 Kcfs to 4.6 Kcfs over the last week.

The Brownlee Reservoir was at an elevation of 2050.0 feet on September 3th, 2018, drafting 3.5 feet last week.

The Biological Opinion flow period began on April 3rd in the lower Snake River (Lower Granite). According to the April Final Water Supply Forecast (April 4th, 2018), the flow objective this spring was 100 Kcfs at Lower Granite. Flows at Lower Granite Dam averaged 111.3 Kcfs over the spring season. The summer biological flow period began on June 21st, 2018 at Lower Granite (Flow Objective = 53.3 Kcfs), flows averaged 37.5 Kcfs over the summer period.

Based on the April Final Water Supply Forecast, the Spring Biological Opinion Flow Objective is 260 Kcfs at McNary Dam and 135 Kcfs at Priest Rapids Dam. Flows at McNary averaged 343.0 Kcfs over the season. The summer flow period began on July 1, 2018 at McNary Dam, with a flow objective of 200 Kcfs. Over the summer period, flows averaged 161.9 Kcfs at McNary.

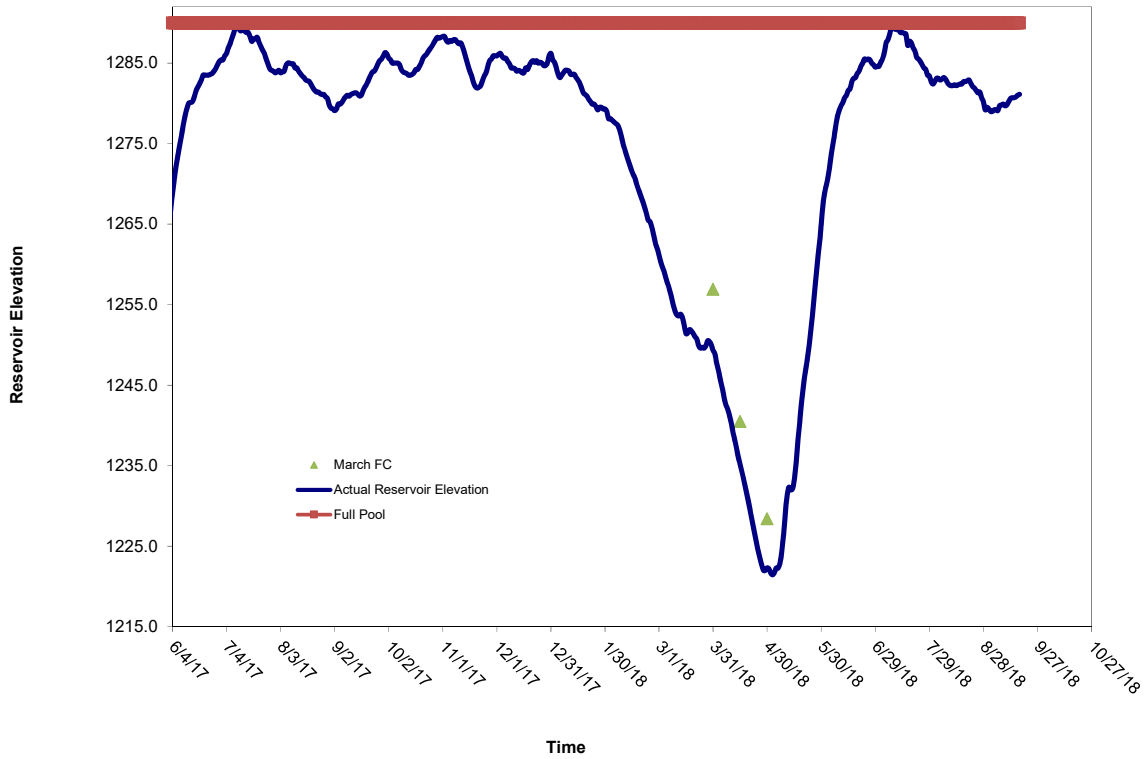


Figure 1. Grand Coulee

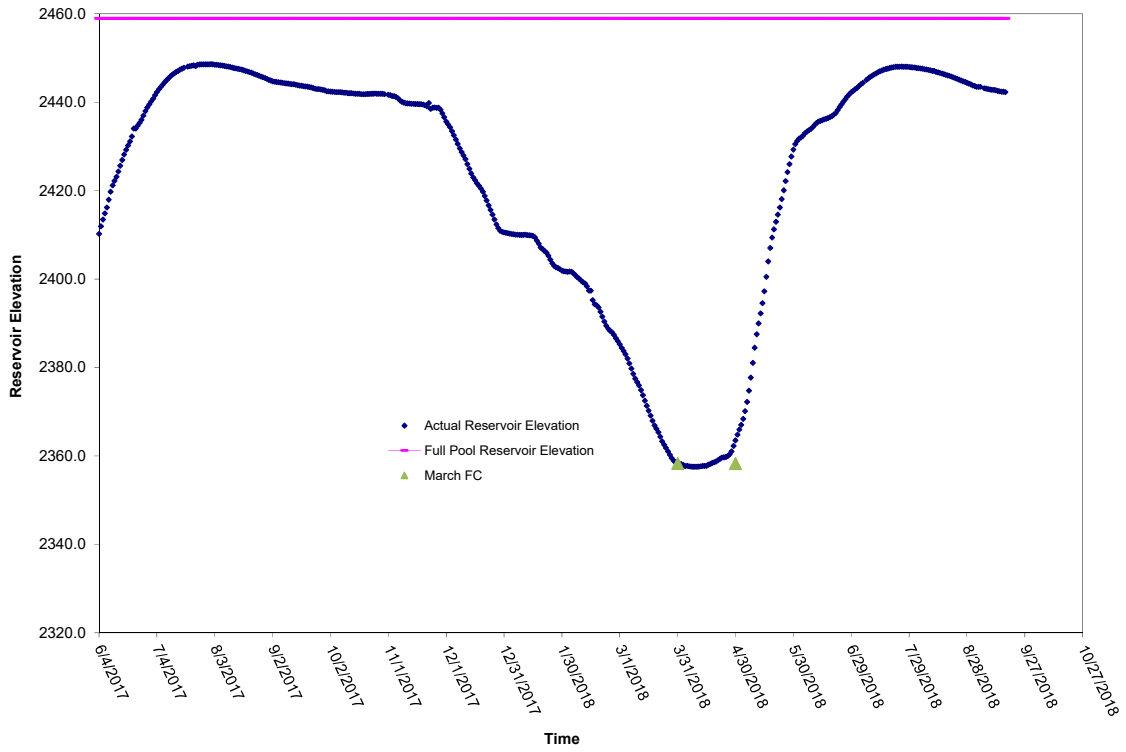


Figure 2. Libby

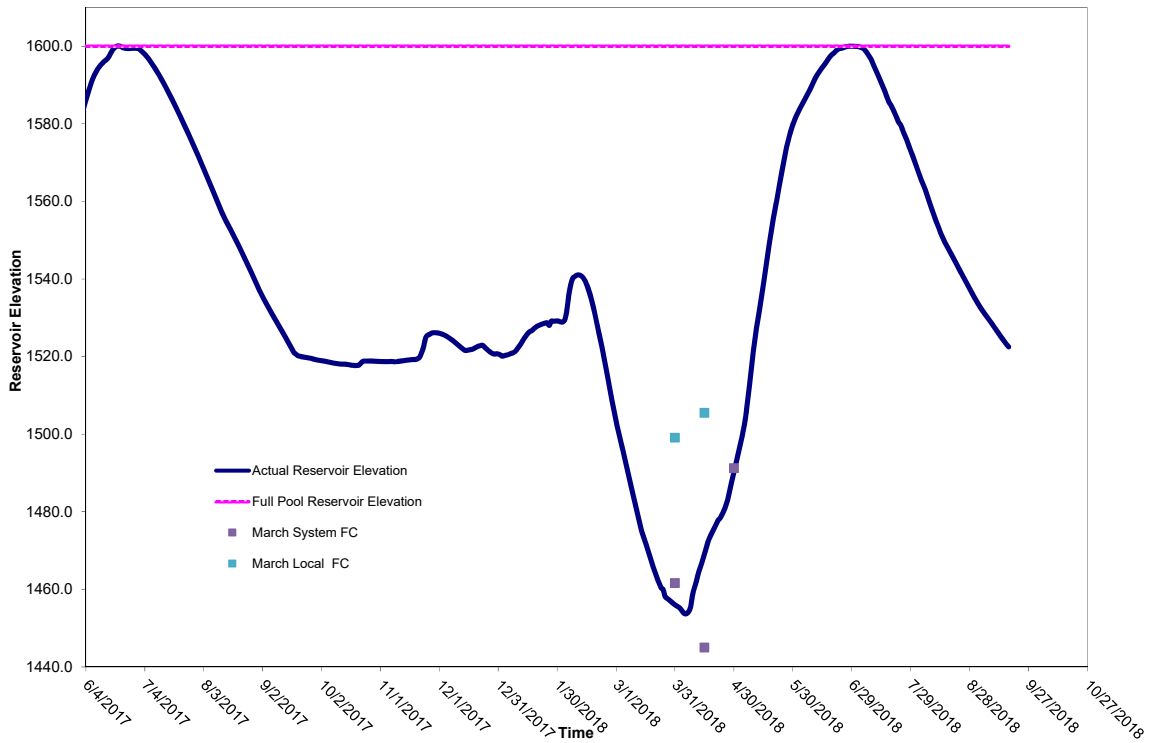


Figure 3. Dworshak

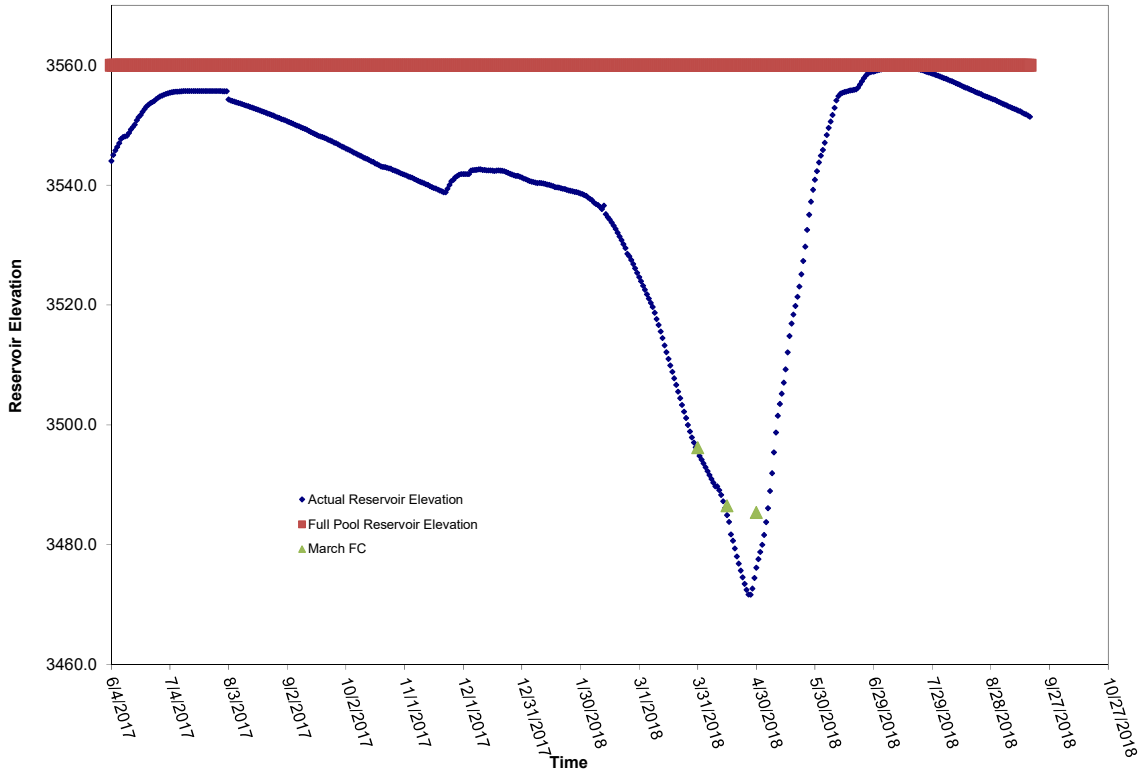


Figure 4. Hungry Horse

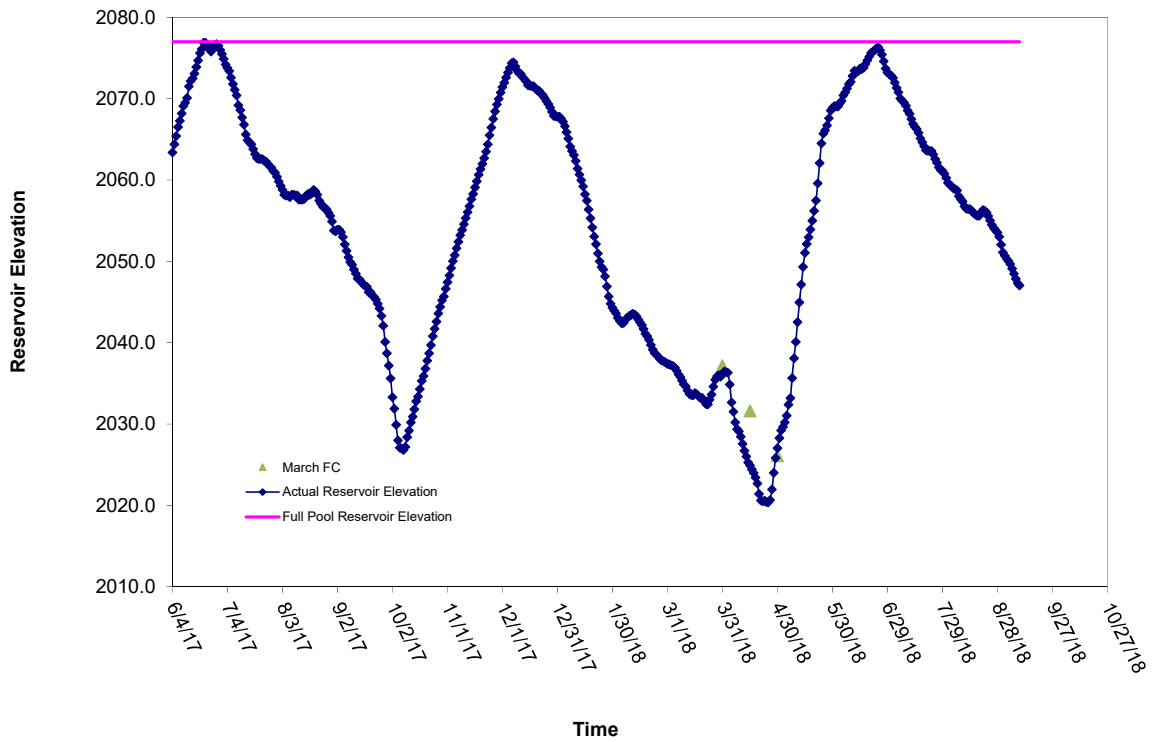


Figure 5. Brownlee

Water Year 2018
Clim Norm 1981-2010

Precipitation

Monthly
Temp. (degF)
(pro-rated)

Monthly
August 1 - 31
Seasonal
(Oct. 1 - now)

Portland	9%	82%	2.6
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UPPER-COLUMBIA:

Kamloops	81%	121%	-1.3
Revelstoke	22%	75%	0.0
Cranbrook	30%	106%	2.9
Creston	24%	87%	2.7
average:	39%	97%	1.1
Normal:	1.47	19.59	66.5

MIDDLE-COLUMBIA:

Pendleton	8%	89%	1
Redmond	0%	54%	2.1
Yakima	0%	66%	1.8
Wenatchee AP	1%	98%	0.6
Omak	4%	90%	0.4
Spokane	29%	106%	1.4
average:	7%	84%	1.2
Normal:	0.40	11.03	70.2

LOWER SNAKE:

Lewiston	67%	131%	1.3
Pullman	51%	129%	2.7
Stanley	40%	125%	2
Challis	22%	62%	2.5
average:	45%	112%	2.1
Normal:	0.70	13.30	66.3

UPPER and MIDDLE SNAKE:

McCall	47%	116%	3.8
Ontario	1%	72%	1.7
Boise	4%	94%	1.6
Twin Falls	3%	75%	-1
Burley	5%	85%	1.6
Pocatello	43%	79%	-0.9
Idaho Falls	48%	112%	-1.2
average:	22%	90%	0.8
Normal:	0.42	11.51	63.6

YEAR-TO-DATE ADULT RETURN COMPARISON REPORT

[[FPC Home](#)] [[Adult Salmon Home](#)]

Dam	End Date	Spring Chinook						Summer Chinook						Fall Chinook					
		2018		2017		10-yr Avg		2018		2017		10-yr Avg		2018		2017		10-yr Avg	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	09/18	87894	6456	83624	18110	152393	25835	61057	4349	88044	10648	101791	21805	136475	19305	228878	25502	412708	57337
TDA	09/18	57935	4793	58310	12497	119227	21697	49296	3787	69246	9277	84539	17568	79451	10503	123372	14743	224528	42405
JDA	09/18	50572	5053	46675	12475	103731	20380	42835	4293	60416	7363	75555	16777	60143	8626	81368	10067	161933	33437
MCN	09/18	44427	3472	44292	7020	94405	16297	42649	2513	57279	4705	71705	12468	52215	5355	53762	4530	124521	19805
IHR	09/18	32600	2197	28306	6949	68113	11204	6046	521	9284	2087	19109	4826	12074	1892	12208	1735	26880	8578
LMN	09/17	35398	3020	28545	8270	68100	11017	6091	716	8216	3388	19658	6010	11794	2830	8401	1760	21728	8846
LGS	09/18	31834	2486	26598	8335	63992	12109	7458	589	9086	3754	19425	6430	11098	1686	7894	1251	20843	6648
LGR	09/18	31161	2948	27357	8256	62850	13009	7304	819	8952	3627	17398	6872	10356	1800	6472	1359	17421	6479
PRD	09/16	7067	949	7268	783	18018	1858	40076	2269	52981	1760	60015	3091	7889	1077	5611	748	20253	3783
WAN	09/16	8071	964	6612	484	17542	2163	37808	1450	49392	1355	56843	2474	4963	910	3241	538	8403	2490
RIS	09/17	7894	997	8080	564	18255	2598	38816	1646	56265	1333	59661	4992	3536	577	3570	513	6130	2620
RRH	09/17	5919	807	5864	406	8195	1153	33110	1106	42608	1060	47856	3464	2713	452	2798	418	4628	1751
WEL	09/17	7500	976	6589	820	8670	1609	22163	1101	30101	1102	37754	3567	866	153	1003	150	1972	655
WFA	09/16	24543	1999	34739	2521	35770	1705	0	0	0	0	0	0	742	118	0	0	682	164

Dam	End Date	Coho						Sockeye			Steelhead						Lamprey			Shad		
		2018		2017		10-yr Avg		2018	2017	10 Year	2018	2017	10 Year	2018	2017	10 Year	2018	2017	10 Year			
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Adult	Adult	Adult	Adult	Unclipped	Unclipped	Unclipped							
BON	09/18	22987	3878	26079	1775	57291	3572	193816	87690	321945	85799	97761	281987	29048	30330	98226	43422	82381	30367	6059933	3135401	2101623
TDA	09/18	12904	1274	9090	1252	23470	2628	152085	64026	273682	49839	51071	185340	15514	15310	64679	10448	30507	9299	0	0	468816
JDA	09/18	9354	1514	4973	985	15984	2095	168466	65983	264739	34884	28917	149332	11983	10079	51530	8507	23093	7243	0	0	0
MCN	09/18	5798	586	1654	192	8306	1219	155477	58012	230414	28378	20379	114570	9770	7069	37891	1520	2501	1287	3871859	1610611	808449
IHR	09/18	254	82	100	33	907	141	659	392	959	14960	9235	75960	3748	3109	20571	992	1355	452	807491	368693	162111
LMN	09/17	120	35	58	17	414	82	396	346	1118	14426	7999	67998	4309	3080	20322	413	410	124	0	0	0
LGS	09/18	53	16	21	12	383	102	280	285	1047	11509	6000	53552	3382	2371	16425	77	495	91	0	0	0
LGR	09/18	25	8	5	0	136	22	274	227	1077	12889	10685	49045	3908	4374	15991	208	335	42	49709	28771	17667
PRD	09/16	1482	86	57	7	1184	173	189883	66670	271043	3327	2390	13387	0	0	0	11278	25082	6404	79012	7957	7022
WAN	09/16	1031	66	30	4	540	106	196183	76074	241635	2771	2078	12269	0	0	0	8396	25557	5353	407	459	255
RIS	09/17	1771	24	29	0	557	95	171976	73191	263929	3111	2172	11516	1475	1144	4930	4752	20176	3197	0	0	0
RRH	09/17	486	6	5	0	58	13	162651	46687	220818	2249	1507	8425	983	701	3397	5002	22781	3433	0	0	0
WEL	09/17	159	6	0	0	7	0	153598	42288	209501	1732	1224	5884	833	663	2449	173	210	4	0	0	0
WFA	09/16	209	473	148	181	1371	517	0	0	0	10823	2758	20890	2182	757	0	0	0	0	0	0	0

- NOTES:
- Since the year 2006, Priest Rapids Dam jack counts have included mini jacks.
 - BON=Bonneville, TDA=The Dalles, JDA=John Day, MCN=McNary, LMN=Lower Monumental, LGS=Little Goose, LGR=Lower Granite, PRD= Priest Rapids, RIS=Rock Island, RRH=Rocky Reach, WEL=Wells, WFA Willamette Falls Dam
 - This report is based on historic dam counting dates. In January and February, Willamette Falls Dam is the only project that appears on the report because historically it collected data during this time period.
 - End Date is the last day of data we have for that site - the 2014 and 10 year average are also run to this end date.
 - PRD is not posting wild steelhead numbers.
 - These numbers were collected from USACE, Grant PUD, Douglas PUD, Chelan PUD, ODFW and DART.
 - Shad data are not available at WEL, WFA, RIS, and RRH.
 - Wild steelhead numbers are included in the total. Wild Steelhead are defined as unclipped fish.
 - Historic counts (pre-1996) were obtained from CRITFC and compiled by the FPC.
 - Historic counts 1997 to present were obtained from the Corps of Engineers.

Page design last updated on: March 9, 2018

This website designed for 1024 x 768 or higher resolution. Questions and comments to: webmaster@fpc.org

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2018 ADULT SALMON COUNTS

Daily Totals for Last 7 days and Year to Date Totals (based on reporting dates since 2000)

[[FPC Home](#)] [[Adult Salmon Home](#)]

[Corp of Engineers Adult Fish Count Queries by Project and Fish Ladder](#)

NOTE:

- These data are updated as soon as the Corp of Engineers provides the data to us.

MORE HOT LINKS:

GO TO: [Adult Count RSS Feed](#) or [Annual Totals](#) or 10 Yr. Avg. vs 2018 and 2017 [Graph Table](#) or [Water Flow & Spill](#) or [Current Water Temperature \(January through December\)](#) or [Current vs. Historical Water Temperature \(April through Aug\)](#) [Offline until April](#)

FISHING REPORTS: [Oregon](#) or [Washington](#) or [Idaho](#)

WILLAMETTE FALLS 2)

DATE	CHINOOK ADULT	CHINOOK JACK	SPRING CHINOOK ADULT	SPRING CHINOOK JACK	SUMMER CHINOOK ADULT	SUMMER CHINOOK JACK	FALL CHINOOK ADULT	FALL CHINOOK JACK	COHO ADULT	COHO JACK	TOTAL STEELHEAD	UNCLIPPED 5) STEELHEAD	SHAD	SOCKEYE	LAMPREY	CHUM	PINK	SOURCE
09/12/18	25	3	0	0	n/a	n/a	25	3	20	29	13	1	n/a	n/a	n/a	n/a	n/a	WFA
09/13/18	40	11	0	0	n/a	n/a	40	11	34	48	25	4	n/a	n/a	n/a	n/a	n/a	WFA
09/14/18	50	11	0	0	n/a	n/a	50	11	20	37	15	1	n/a	n/a	n/a	n/a	n/a	WFA
09/15/18	35	11	0	0	n/a	n/a	35	11	20	53	11	4	n/a	n/a	n/a	n/a	n/a	WFA
09/16/18	60	17	0	0	n/a	n/a	60	17	39	109	15	3	n/a	n/a	n/a	n/a	n/a	WFA
09/17/18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09/18/18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YTD	25285	2117	24543	1999	n/a	n/a	742	118	209	473	10823	2182	n/a	n/a	n/a	n/a	n/a	

BONNEVILLE DAM

DATE	CHINOOK ADULT	CHINOOK JACK	SPRING CHINOOK ADULT	SPRING CHINOOK JACK	SUMMER CHINOOK ADULT	SUMMER CHINOOK JACK	FALL CHINOOK ADULT	FALL CHINOOK JACK	COHO ADULT	COHO JACK	TOTAL STEELHEAD	UNCLIPPED 5) STEELHEAD	SHAD 6)	SOCKEYE	LAMPREY	CHUM	PINK	SOURCE
09/12/18	4883	629	0	0	0	0	4883	629	816	148	1180	268	n/a	0	33	0	0	USACE
09/13/18	3521	637	0	0	0	0	3521	637	638	147	890	183	n/a	0	38	0	0	USACE
09/14/18	1976	355	0	0	0	0	1976	355	590	75	833	174	n/a	0	28	0	0	USACE
09/15/18	4191	637	0	0	0	0	4191	637	740	124	1323	276	n/a	0	8	0	0	USACE
09/16/18	2909	431	0	0	0	0	2909	431	584	97	865	160	n/a	0	12	0	0	USACE
09/17/18	4642	1043	0	0	0	0	4642	1043	1032	188	1734	278	n/a	0	3	0	0	USACE
09/18/18	1627	375	0	0	0	0	1627	375	493	172	540	120	n/a	0	-17	0	0	USACE
YTD	285426	30110	87894	6456	61057	4349	136475	19305	22987	3878	85799	29048	6059933	193816	43422	0	4	

THE DALLES DAM 2) **)

DATE	CHINOOK ADULT	CHINOOK JACK	SPRING CHINOOK ADULT	SPRING CHINOOK JACK	SUMMER CHINOOK ADULT	SUMMER CHINOOK JACK	FALL CHINOOK ADULT	FALL CHINOOK JACK	COHO ADULT	COHO JACK	TOTAL STEELHEAD	UNCLIPPED 5) STEELHEAD	SHAD	SOCKEYE	LAMPREY	CHUM	PINK	SOURCE
09/12/18	2642	482	0	0	0	0	2642	482	448	123	1006	206	n/a	2	18	0	0	USACE
09/13/18	3611	548	0	0	0	0	3611	548	520	30	1464	279	n/a	1	18	0	0	USACE
09/14/18	3047	606	0	0	0	0	3047	606	472	52	1915	347	n/a	1	17	0	0	USACE
09/15/18	2484	425	0	0	0	0	2484	425	357	44	1789	422	n/a	1	8	0	0	USACE
09/16/18	1961	397	0	0	0	0	1961	397	414	59	1852	348	n/a	4	17	0	0	USACE
09/17/18	3241	283	0	0	0	0	3241	283	961	62	1593	310	n/a	-1	14	0	0	USACE
09/18/18	2952	409	0	0	0	0	2952	409	725	49	2319	606	n/a	2	8	0	0	USACE
YTD	186682	19083	57935	4793	49296	3787	79451	10503	12904	1274	49839	15514	n/a	152085	10448	0	0	

JOHN DAY DAM 2)

DATE	CHINOOK ADULT	CHINOOK JACK	SPRING CHINOOK ADULT	SPRING CHINOOK JACK	SUMMER CHINOOK ADULT	SUMMER CHINOOK JACK	FALL CHINOOK ADULT	FALL CHINOOK JACK	COHO ADULT	COHO JACK	TOTAL STEELHEAD	UNCLIPPED 5) STEELHEAD	SHAD	SOCKEYE	LAMPREY	CHUM	PINK	SOURCE
09/12/18	1818	422	0	0	0	0	1818	422	405	152	910	271	n/a	1	15	0	0	USACE
09/13/18	2226	278	0	0	0	0	2226	278	272	27	726	173	n/a	0	22	0	0	USACE
09/14/18	2096	370	0	0	0	0	2096	370	322	140	837	183	n/a	0	43	0	0	USACE
09/15/18	3087	448	0	0	0	0	3087	448	487	65	1555	388	n/a	-1	11	0	0	USACE
09/16/18	1937	350	0	0	0	0	1937	350	365	115	1667	414	n/a	0	11	0	0	USACE
09/17/18	1592	349	0	0	0	0	1592	349	348	90	1655	368	n/a	0	23	0	0	USACE
09/18/18	2764	312	0	0	0	0	2764	312	282	31	1452	362	n/a	0	31	0	0	USACE
YTD	153550	17972	50572	5053	42835	4293	60143	8626	9354	1514	34884	11983	n/a	168466	8507	0	0	

MCNARY DAM **)

DATE	CHINOOK ADULT	CHINOOK JACK	SPRING CHINOOK ADULT	SPRING CHINOOK JACK	SUMMER CHINOOK ADULT	SUMMER CHINOOK JACK	FALL CHINOOK ADULT	FALL CHINOOK JACK	COHO ADULT	COHO JACK	TOTAL STEELHEAD	UNCLIPPED 5) STEELHEAD	SHAD	SOCKEYE	LAMPREY	CHUM	PINK	SOURCE
09/12/18	2124	314	0	0	0	0	2124	314	440	11	1115	268	0	1	3	0	0	USACE
09/13/18	2358	310	0	0	0	0	2358	310	472	20	1229	342	0	0	5	0	0	USACE
09/14/18	1830	286	0	0	0	0	1830	286	334	33	997	300	0	0	6	0	0	USACE
09/15/18	2068	248	0	0	0	0	2068	248	300	60	912	226	0	1	6	0	0	USACE
09/16/18	2769	347	0	0	0	0	2769	347	304	60	965	223	0	1	9	0	0	USACE
09/17/18	3320	262	0	0	0	0	3320	262	272	80	1171	240	0	0	6	0	0	USACE
09/18/18	2128	245	0	0	0	0	2128	245	203	70	1218	255	0	1	10	0	0	USACE
YTD	139291	11340	44427	3472	42649	2513	52215	5355	5798	586	28378	9770	3871859	155477	1520	0	3	

ICE HARBOR DAM

DATE	CHINOOK ADULT	CHINOOK JACK	SPRING CHINOOK ADULT	SPRING CHINOOK JACK	SUMMER CHINOOK ADULT	SUMMER CHINOOK JACK	FALL CHINOOK ADULT	FALL CHINOOK JACK	COHO ADULT	COHO JACK	TOTAL STEELHEAD	UNCLIPPED 5) STEELHEAD	SHAD	SOCKEYE	LAMPREY	CHUM	PINK	SOURCE
09/12/18	603	127	0	0	0	0	603	127	17	4	1075	218	0	0	2	0	0	USACE
09/13/18	500	139	0	0	0	0	500	139	47	11	1005	196	0	0	5	0	0	USACE
09/14/18	384	89	0	0	0	0	384	89	54	15	890	132	0	0	0	0	0	USACE
09/15/18	259	53	0	0	0	0	259	53	34	16	504	66	0	0	2	0	0	USACE
09/16/18	237	39	0	0	0	0	237	39	28	18	576	72	0	0	1	0	0	USACE
09/17/18	272	56	0	0	0	0	272	56	26	5	783	128	0	0	4	0	0	USACE
09/18/18	469	198	0	0	0	0	469	198	29	8	876	157	0	0	4	0	0	USACE
YTD	50720	4610	32600	2197	6046	521	12074	1892	254	82	14960	3748	807491	659	992	0	0	

LOWER MONUMENTAL DAM 2)

DATE	CHINOOK ADULT	CHINOOK JACK	SPRING CHINOOK ADULT	SPRING CHINOOK JACK	SUMMER CHINOOK ADULT	SUMMER CHINOOK JACK	FALL CHINOOK ADULT	FALL CHINOOK JACK	COHO ADULT	COHO JACK	TOTAL STEELHEAD	UNCLIPPED 5) STEELHEAD	SHAD	SOCKEYE	LAMPREY	CHUM	PINK	SOURCE
09/12/18	843	240	0	0	0	0	843	240	6	5	864	222	n/a	0	3	0	0	USACE
09/13/18	681	239	0	0	0	0	681	239	8	8	1197	253	n/a	0	2	0	0	USACE
09/14/18	408	182	0	0	0	0	408	182	18	4	988	236	n/a	0	1	0	0	USACE
09/15/18	419	166	0	0	0	0	419	166	11	1	732	152	n/a	0	2	0	0	USACE
09/16/18	475	245	0	0	0	0	475	245	18	2	1011	186	n/a	0	0	0	0	USACE
09/17/18	422	203	0	0	0	0	422	203	26	3	1142	205	n/a	0	0	0	0	USACE
09/18/18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YTD	53283	6566	35398	3020	6091	716	11794	2830	120	35	14426	4309	n/a	396	413	0	0	

LITTLE GOOSE DAM 2)

DATE	CHINOOK ADULT	CHINOOK JACK	SPRING CHINOOK ADULT	SPRING CHINOOK JACK	SUMMER CHINOOK ADULT	SUMMER CHINOOK JACK	FALL CHINOOK ADULT	FALL CHINOOK JACK	COHO ADULT	COHO JACK	TOTAL STEELHEAD	UNCLIPPED 5) STEELHEAD	SHAD	SOCKEYE	LAMPREY	CHUM	PINK	SOURCE
09/12/18	613	113	0	0	0	0	613	113	1	0	625	152	n/a	0	-6	0	0	USACE
09/13/18	720	114	0	0	0	0	720	114	2	0	774	164	n/a	0	0	0	0	USACE
09/14/18	499	132	0	0	0	0	499	132	6	0	721	173	n/a	0	0	0	0	USACE
09/15/18	563	110	0	0	0	0	563	110	1	1	750	168	n/a	0	-5	0	0	USACE
09/16/18	500	96	0	0	0	0	500	96	12	8	927	223	n/a	0	0	0	0	USACE
09/17/18	474	109	0	0	0	0	474	109	11	2	939	191	n/a	0	-1	0	0	USACE
09/18/18	346	116	0	0	0	0	346	116	11	4	807	173	n/a	0	-1	0	0	USACE
YTD	50390	4761	31834	2486	7458	589	11098	1686	53	16	11509	3382	n/a	280	77	0	0	

LOWER GRANITE DAM 3)

DATE	CHINOOK ADULT	CHINOOK JACK	SPRING CHINOOK ADULT	SPRING CHINOOK JACK	SUMMER CHINOOK ADULT	SUMMER CHINOOK JACK	FALL CHINOOK ADULT	FALL CHINOOK JACK	COHO ADULT	COHO JACK	TOTAL STEELHEAD	UNCLIPPED 5) STEELHEAD	SHAD 6)	SOCKEYE	LAMPREY	CHUM	PINK	SOURCE
09/12/18	473	85	0	0	0	0	473	85	1	0	475	128	n/a	0	0	0	0	USACE
09/13/18	449	88	0	0	0	0	449	88	0	0	453	113	n/a	0	0	0	0	USACE
09/14/18	457	140	0	0	0	0	457	140	1	0	591	140	n/a	0	0	0	0	USACE
09/15/18	719	199	0	0	0	0	719	199	1	0	565	131	n/a	0	0	0	0	USACE
09/16/18	835	187	0	0	0	0	835	187	5	0	748	192	n/a	0	0	0	0	USACE
09/17/18	587	186	0	0	0	0	587	186	7	1	1122	226	n/a	1	2	0	0	USACE
09/18/18	346	109	0	0	0	0	346	109	8	7	746	180	n/a	0	0	0	0	USACE
YTD	48821	5567	31161	2948	7304	819	10356	1800	25	8	12889	3908	49709	274	208	0	0	

PRIEST RAPIDS DAM 1) 4)

DATE	CHINOOK ADULT	CHINOOK JACK	SPRING CHINOOK ADULT	SPRING CHINOOK JACK	SUMMER CHINOOK ADULT	SUMMER CHINOOK JACK	FALL CHINOOK ADULT	FALL CHINOOK JACK	COHO ADULT	COHO JACK	TOTAL STEELHEAD	UNCLIPPED 5) STEELHEAD	SHAD	SOCKEYE	LAMPREY	CHUM	PINK	SOURCE
09/12/18	231	30	0	0	0	0	231	30	167	14	103	n/a	3	0	35	0	0	
09/13/18	409	59	0	0	0	0	409	59	204	0	141	n/a	38	0	31	0	0	
09/14/18	360	51	0	0	0	0	360	51	140	12	103	n/a	28	0	50	0	0	
09/15/18	603	57	0	0	0	0	603	57	150	1	154	n/a	21	0	25	0	0	
09/16/18	523	38	0	0	0	0	523	38	298	24	140	n/a	23	0	21	0	0	
09/17/18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09/18/18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YTD	55032	4295	7067	949	40076	2269	7889	1077	1482	86	3327	n/a	79012	189883	11278	0	0	

WANAPUM DAM

DATE	CHINOOK ADULT	CHINOOK JACK	SPRING CHINOOK ADULT	SPRING CHINOOK JACK	SUMMER CHINOOK ADULT	SUMMER CHINOOK JACK	FALL CHINOOK ADULT	FALL CHINOOK JACK	COHO ADULT	COHO JACK	TOTAL STEELHEAD	UNCLIPPED 5) STEELHEAD	SHAD	SOCKEYE	LAMPREY	CHUM	PINK	SOURCE
09/12/18	268	34	0	0	0	0	268	34	85	0	109	n/a	1	2	63	0	0	
09/13/18	387	27	0	0	0	0	387	27	49	1	106	n/a	0	0	44	0	0	
09/14/18	312	26	0	0	0	0	312	26	104	2	85	n/a	0	0	35	0	0	
09/15/18	262	25	0	0	0	0	262	25	160	12	88	n/a	0	0	48	0	0	
09/16/18	380	40	0	0	0	0	380	40	159	5	108	n/a	0	0	34	0	0	
09/17/18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09/18/18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YTD	50842	3324	8071	964	37808	1450	4963	910	1031	66	2771	n/a	407	196183	8396	0	0	

ROCK ISLAND DAM 2) 4) 7)

DATE	CHINOOK ADULT	CHINOOK JACK	SPRING CHINOOK ADULT	SPRING CHINOOK JACK	SUMMER CHINOOK ADULT	SUMMER CHINOOK JACK	FALL CHINOOK ADULT	FALL CHINOOK JACK	COHO ADULT	COHO JACK	TOTAL STEELHEAD	UNCLIPPED 5) STEELHEAD	SHAD	SOCKEYE	LAMPREY	CHUM	PINK	SOURCE
09/12/18	199	9	0	0	0	0	199	9	235	0	143	59	n/a	9	32	0	0	CHPUD
09/13/18	105	18	0	0	0	0	105	18	149	3	79	29	n/a	1	29	0	0	CHPUD
09/14/18	149	18	0	0	0	0	149	18	196	3	136	43	n/a	0	44	0	0	CHPUD
09/15/18	224	38	0	0	0	0	224	38	211	5	134	47	n/a	0	29	0	0	CHPUD

09/16/18	208	24	0	0	0	0	208	24	216	5	132	55	n/a	7	26	0	0	CHPUD
09/17/18	180	31	0	0	0	0	180	31	264	7	123	36	n/a	2	28	0	0	CHPUD
09/18/18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YTD	50246	3220	7894	997	38816	1646	3536	577	1771	24	3111	1475	n/a	171976	4752	0	0	

ROCKY REACH DAM 2) 4)

DATE	CHINOOK ADULT	CHINOOK JACK	SPRING CHINOOK ADULT	SPRING CHINOOK JACK	SUMMER CHINOOK ADULT	SUMMER CHINOOK JACK	FALL CHINOOK ADULT	FALL CHINOOK JACK	COHO ADULT	COHO JACK	TOTAL STEELHEAD	UNCLIPPED 5) STEELHEAD	SHAD	SOCKEYE	LAMPREY	CHUM	PINK	SOURCE
09/12/18	238	17	0	0	0	0	238	17	42	2	93	36	n/a	3	28	0	0	CHPUD
09/13/18	177	11	0	0	0	0	177	11	74	0	108	30	n/a	6	44	0	0	CHPUD
09/14/18	98	9	0	0	0	0	98	9	62	1	68	18	n/a	0	33	0	0	CHPUD
09/15/18	96	19	0	0	0	0	96	19	87	2	108	34	n/a	1	39	0	0	CHPUD
09/16/18	131	22	0	0	0	0	131	22	90	0	117	36	n/a	0	29	0	0	CHPUD
09/17/18	165	14	0	0	0	0	165	14	57	1	83	33	n/a	2	8	0	0	CHPUD
09/18/18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YTD	41742	2365	5919	807	33110	1106	2713	452	486	6	2249	983	n/a	162651	5002	0	0	

WELLS DAM 2) 4)

DATE	CHINOOK ADULT	CHINOOK JACK	SPRING CHINOOK ADULT	SPRING CHINOOK JACK	SUMMER CHINOOK ADULT	SUMMER CHINOOK JACK	FALL CHINOOK ADULT	FALL CHINOOK JACK	COHO ADULT	COHO JACK	TOTAL STEELHEAD	UNCLIPPED 5) STEELHEAD	SHAD	SOCKEYE	LAMPREY	CHUM	PINK	SOURCE
09/12/18	51	12	0	0	0	0	51	12	12	0	55	29	n/a	8	1	0	0	DART
09/13/18	53	5	0	0	0	0	53	5	19	0	81	38	n/a	7	1	0	0	DART
09/14/18	67	10	0	0	0	0	67	10	23	1	86	38	n/a	0	1	0	0	DART
09/15/18	42	3	0	0	0	0	42	3	38	2	86	28	n/a	4	0	0	0	DART
09/16/18	34	4	0	0	0	0	34	4	28	1	74	26	n/a	0	2	0	0	DART
09/17/18	46	9	0	0	0	0	46	9	25	2	47	21	n/a	2	0	0	0	DART
09/18/18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YTD	30529	2230	7500	976	22163	1101	866	153	159	6	1732	833	n/a	153598	173	0	0	

NOTES:

- At Willamette Falls Dam, it takes the staff most of the day to accurately review one day of fish passage on tape when the counts are high. The WFA staff make every attempt to keep the counts as up-to-date as possible. Note: at WFA Monday's are extremely busy, as the staff attempt to catch-up with the weekend counts.
- The Corp of Engineers has stopped shad counting at The Dalles, starting in 2011 on the advice of the Fish Passage Operations and Management (FPOM) committee, made up of NOAA, CRITFC, ODFW, WDFW, IDFW, BPA, and COE biologists.
- ¹⁾ Since the year 2006, Priest Rapids Dam and Wanapum Dam jack counts have included mini jacks.
- ²⁾ Shad are not counted at Willamette Falls, The Dalles, John Day, Lower Monumental, Little Goose, Rock Island, Rocky Reach and Wells Dams
- ³⁾ Steelhead counts appear higher at Lower Granite Dam because most years a group which migrated into the river system between October and December overwinters below LGR and continues its migration in early March.
- ⁴⁾ As the Army Corp of Engineers no longer collects adult counts from the PUDs, we now get data directly from Chelan, Douglas and Grant Co. PUDs and DART.
- The steelhead counts include unclipped (wild) steelhead. It is not appropriate to add the steelhead counts and wild steelhead counts together.
- ⁵⁾ Unclipped steelhead are counted separately from clipped steelhead at ODFW and Corps dams on the Willamette, Columbia, and Snake Rivers. There are two categories for steelhead 1. Unclipped Steelhead and 2. Total Steelhead (combines unclipped and clipped). There is no distinction between unclipped and clipped steelhead counts at Public Utility projects.
- ⁶⁾ Shad are typically not counted at any of the Corps dams after August 31 each year and shad are not counted at all Corps dams. An n/a in the shad columns at Bonneville Dam and Lower Granite Dam after August 31st means that the shad are not being counted.
- ⁷⁾ In 2014, Grant County PUD trapped and transported hundreds of Lamprey above Rock Island Dam. Therefore, the ladder counts of Lamprey at Rock Island under estimate the true numbers of lamprey past the project.
- In 2012, the U.S. Army Corps of Engineers and NOAA Fisheries are currently developing automated counting systems for Lamprey Passage Structures (LPS) installed at Bonneville Dam. In the interest of publishing accurate counts, LPS counts will not be publicly posted in-season until the automated systems are fully operational.
- The adult counts in this report are based on reporting dates for dams recently established (2000). They are presented in the table below. A report with adult salmon counts based on historical dates (prior to 2000) can be found [here](#).
- The reporting dates table shows that several dams stop counting fish around November 15th each year. After a dam stops counting fish for the season, only the total number of fish are shown on this report.
- These data are updated periodically throughout the day. The FPC data retrieving robot searches the web for updated data every 30 minutes in the AM, and every hour in the PM.
- The last column " Source " shows where the data was imported from: NWACE is imported from the COE's Daily Fish Reports; USACE is from [US Army Corps of Engineers](#) fish count pages; CHPUD is from [Chean PUD](#); GCPUD is from [Grant PUD](#) and DGPUD is from [Douglas PUD](#) and DART is from the [University of Washington's Data Access in Real Time](#), WFA is imported from [ODFW's Willamette Falls](#) website.
- Some of the sites are several days behind in reporting, but is reported by the COE as zero, so where zeros appear across all rows, the data should be considered as "not yet reported".
- Video counts can cause a delay in posting the data to the web, because the staff at the projects have to review the tapes.

2017-18 Adult Salmon Dam Count Monitoring Dates

Dam	Video Monitoring Dates		Direct Monitoring Dates
	Day	Night	
Bonneville Dam	March 1 - March 31, 2017	May 15 - September 30, 2016	April 1 to November 30, 2017
	December 1, 2017 - February 28, 2018		
The Dalles Dam	March 1 - March 31	June 15 - September 30, 2017	April 1 to October 31, 2017
	December 1, 2017 - February 28, 2018		
John Day Dam		June 15 - September 30, 2017	April 1 to October 31, 2017
McNary Dam	March 1 - March 31	June 15 - September 30, 2017	April 1 to October 31, 2017
Ice Harbor Dam	November 1, 2017 - February 28, 2018		April 1 to October 31, 2017
Lower Monumental Dam			April 1 - October 31, 2017
Little Goose Dam			April 1 to October

			31, 2017
Lower Granite Dam	March 1 - March 31, 2017 November 1 - December 30, 2017	June 1 - September 30, 2017	April 1 - October 31, 2017
Priest Rapids Dam	April 15 - November 15, 2017 (24 hr)		
Wanapum Dam	April 15 - November 15, 2017 (24 hr)		
Rock Island Dam	April 14 - November 15, 2017 (24 hr)		
Rocky Reach Dam	April 14 - November 15, 2017 (24 hr)		
Wells Dam	May 1 - November 15, 2017 (24 hr)		
Willamette Falls	Count year round (24 hr)		

2017-2018 Columbia and Snake River Fishway Outages

Dam	Dates Fishways are Closed
Bonneville Dam	Bradford Island Fishway: December 1, 2017-February 28, 2018. Cascades Island Fishway: Not Dewatering. Washington Shore Fishway: Not Dewatering.
The Dalles Dam	East Fish Fishway: December 1, 2017 - February 28, 2018. North Fish Fishway: January 16, 2018 – January 30, 2018.
John Day Dam	North Fish Fishway: December 5, 2017 – December 17, 2017. South Fish Fishway: January 9, 2018 - February 28, 2018.
McNary Dam	Washington Shore Fishway: January 1, 2018 – January 31, 2018. Oregon Shore Fishway: February 1, 2018 - February 27, 2018.
Ice Harbor Dam	North Shore Fishway: February 4, 2018 - February 28, 2018. South Shore Fishway: January 1, 2018 - February 3, 2018.
Lower Monumental Dam	North Shore Fishway: January 1, 2018—January 31, 2018. South Shore Fishway: February 1, 2018 - February 28, 2018.
Little Goose Dam	January 2, 2018 - February 28, 2018.
Lower Granite Dam	January 1, 2018 – February 28, 2018.
Priest Rapids Dam	Left Bank Fishway: TBD Right Bank Fishway: TBD
Wanapum Dam	Right Bank Fishway: TBD Left Bank Fishway: TBD
Rock Island Dam	Right Bank Fishway: December 4, 2017 to January 5, 2018. Left Bank Fishway: December 18, 2017 to February 2, 2018. Middle Fishway: January 8, 2017 to TBD.
Rocky Reach Dam	December 11, 2017 to February 2, 2018.
Wells Dam	West Ladder: TBD East Ladder: TBD

- Data source: Corp of Engineers, Dewatering Plans and Schedules. Available online at: <http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/Plans%20lists%20charts/>