



February 7, 2024

Senator Jeff Golden, Chair
Senator Fred Girod, Vice-Chair
Senate Committee on Natural Resources and Wildfire

Re: Trout Unlimited Opposes Senate Bill 1590

Dear Chair Golden, Vice-Chair Girod, and Members of the Committee,

Trout Unlimited (“TU”) is a non-profit organization dedicated to conserving coldwater fish (such as trout, salmon, and steelhead) and their habitats. We have more than 350,000 members and supporters nationwide, including thousands of members in Oregon.

TU and its members are committed to caring for Oregon rivers and streams so future generations can experience the joy of wild and native trout and salmon. TU supports recreational boating opportunity so long as it is consistent with that paramount conservation goal.

TU opposes SB 1590 because the existing “towed watersports” framework protects important native fish runs—and guards against further degradation of water quality in the Willamette River—by restricting only the largest class of recreational motor boats from engaging in certain damaging activities in the area upstream of Willamette Falls.

Below, we have provided background on this topic and statutory program, and information about usage of the relevant portion of the Willamette River by native fish:

1. Background: Underlying Problem, Past Legislative Efforts, Existing Law

Over the past decade or so, recreational motorboat manufacturers have produced larger and heavier watersport boats, especially including the class of “wake surf” boats that create large and artificial waves which enable individuals to “surf” behind the boat on otherwise calm rivers or streams.

Problem: When the wakes of these large boats—especially when towing water skiers or tubers, or using ballast to create surfable waves—reach shallow waters and shorelines, the wave energy can erode streambanks and damage riparian fish habitats (in addition to public safety and private property damage concerns, which TU will not address in this testimony).

In the same period that these boats have become more frequently used in Oregon, there have been wide-ranging indications of related degradation to fish habitat and water quality in the

Willamette River. For instance, homeowners and river users noticed acute erosion and water quality concerns in the area upstream of Willamette Falls (the “Newberg Pool”).

Past Legislative Efforts: The legislature has considered *numerous* bills over the past six years regarding the negative effects of large recreational motor boats in the Willamette River, and did not land upon an enforceable and meaningful management framework until 2022.

In 2018, the legislature considered HB 4099 and HB 4138 (regarding a Task Force and Marine Board rulemaking authority applicable to boating on the Willamette River, respective), but neither passed.

In 2019, the legislature enacted HB 2351 and HB 2352, in effort to minimize the harm of artificial wave energy in the Willamette River. HB 2351 authorized the Marine Board to make special regulations related to operation of boats in the Willamette River Greenway, including speed limits to protect fish and wildlife habitat. Thereafter, the Oregon State Marine Board established a 10,000 pound weight limit for motorboats (based on ramp capacity) in the Newberg Pool. This very large weight limit applied to very few boats available on the market, and therefore, did not meaningfully address the ongoing problem of large boat wakes and erosion. HB 2352 established the “towed watersports” structure within the Marine Board, which created new boater safety and education programs. Neither fully addressed the underlying problem, conflicts, and concerns for native fish and water quality; under HB 2351 and HB 2352, very large boats were still able to tow and wake-surf in the Newberg Pool.

In 2020, the National Marine Fisheries Service warned the Oregon State Marine Board about the risks of wake sports in the Newberg Pool on listed fish species, stating:

“In NMFS’ experience, noise and wave action are frequently a threat to juvenile salmon and steelhead. Therefore, **we expect that wake sports are likely to have a significant adverse impact on those listed species and their critical habitats by injuring and killing individual fish** when, for example, the surge and wakes caused by artificial waves from passing boat and wake sport participants wash juvenile fish onto the shore, or otherwise modify or degrade [physical and biological features] in ways that injure or kill fish by significantly impairing their essential behavior patterns . . .”

K.W. Kratz, United States Department of Commerce, National Marine Fisheries Service, to Val Early, Oregon State Marine Board (January 16, 2020) (emphasis added).

In 2021, the legislature revisited the issue, and considered a bill to address the still-increasing traffic of large ballast capacity motorboats on the Willamette. SB 857 (2021) would have placed a 5,000 pound weight limit on motor boats permitted to engage in “towed watersports” in the Newberg Pool. It did not pass.

Existing Law: In 2022, the legislature considered *yet another* bill on the ongoing problem. SB 1589 (2022) passed after the legislature held several public hearings, received extensive written and verbal testimony from the public, and received input from multiple experts (from both sides of the issue). For the first time, SB 1589: (1) specified a maximum loading weight limit for

motorboats that engage in “towed watersports” in the Newberg Pool of 5,500 pounds (calculated as the sum of the factory-specified dry gross weight of the boat plus factory-specified maximum factory ballast capacity), and (2) prohibited wake surfing in the Newberg Pool.

By capping the size of boats that may engage in towed watersports (e.g., waterskiing) and specifying that boaters may not “use devices or individuals to increase wakes,” ORS 830.649(5)(a), SB 1589 limited the extent of wave energy in the Newberg Pool that damages the shoreline and riverbanks. In other words, it specified meaningful, reasonable, and enforceable limits on a small subset of only the *very largest* motorboats engaging in towed watersports, which create the largest and most damaging artificial wakes.

2. The Fish: What’s at Risk in the Newberg Pool

The Willamette River is home to numerous runs of anadromous fish, many of which are struggling. Accordingly, water quality issues in the Newberg Pool can affect native fish populations throughout the Willamette River basin. These populations include two species listed as threatened under the federal Endangered Species Act: Upper Willamette River Chinook Salmon (i.e., spring Chinook), and Upper Willamette River Steelhead (i.e., winter steelhead).

Many native fish in the Willamette River basin depend on water quality in the Newberg Pool at some point in their life cycles. As examples only, wild spring chinook from the McKenzie River, and wild winter steelhead from the Molalla and Santiam River basins, migrate through this river corridor twice in their respective life cycles, and require sufficiently high water quality throughout their migration corridors to ensure they return to their home streams as adults. Similarly, the wild coho salmon, winter steelhead, and spring chinook in the Clackamas River (which enters the Willamette about 1.5 miles downriver of the Newberg Pool) require high water quality from upstream portions of the Willamette during their respective migrations.

Salmon are present in the Newberg Pool during the summer boating season. For the Committee’s reference, I have attached a spreadsheet showing upstream fish passage data collected at Willamette Falls (i.e., the downstream end of the statutorily-defined Newberg Pool per ORS 830.649(1)(a)) and reported on the Oregon Department of Fish & Wildlife’s [website](#).

This information – which I’ve included for 2023 only – shows that adult salmon migrate upstream into the Newberg Pool in every month of the summer boating season. In 2023, this included: 9,817 threatened adult spring chinook in June; 1,600 threatened adult spring chinook in July; 1,089 adult chinook in August; and 18,885 adult coho and 584 adult chinook in September. Those figures do not include “jack” sub-adult size salmon. Further, juvenile salmon and steelhead out-migrate though the reach (typically very close to the shoreline where they are vulnerable to the effects of large ballast boats, [as testified by Dr. Stan Gregory, emeritus professor of fisheries at Oregon State University, in the legislative record for SB 1589 \(2022\)](#)), and lamprey may also be present seasonally in the Newberg Pool. Juvenile salmon and steelhead, resident trout, and lamprey are not included in the attached fish count spreadsheet. Accordingly, the presence of native and migratory species in the Newberg Pool is greater than what is reflected in Exhibit A alone.

3. Result of SB 1590 (2024)

Senate Bill 1590 would unwind and roll-back a reasonable statutory framework that balances one recreational user group's use of the river with the State's concerns for water quality, threatened fish species, public safety, and protection of private property. We oppose it.

Conclusion

Trout Unlimited opposes SB 1590. Thank you for this opportunity to provide comments on the bill, and please let me know if you have any questions.

Sincerely,

James Fraser
Oregon Policy Director
Trout Unlimited
james.fraser@tu.org

Exhibit A

2023 Upstream Fish Passage Numbers – Willamette Falls (Source: ODFW)

(Attached.)

WILLAMETTE FALLS FISHWAY COUNTS

[Link to USGS Willamette River Portland \(Morrison\) Daily Hydro Data](#)
[Link to NOAA Willamette River Salem Flows](#)

Year: 2023
Month: January

Date	Hydrological Data		Spring Chinook										Coho										Steelhead										Other Species	
			Adult			Jack			Mini Jack				Adult			Jack			Winter (Nov 2022-May 2023)				Summer (Mar 2023-Oct 2023)				Species/Total							
	Flow	Temp	Total	Clipped	Unclip	Total	Clipped	Unclip	0	Daily	Cum.	Total	Clipped	Unclip	11,260	Total	Clipped	Unclip	6,630	-1	0	-1	123	0	0	0	123	0	0	0	123	0	0	
1	71,500		0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	-1	0	-1	123										
2	65,100		0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	0	0	0	123										
3	57,500	43	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	8	0	8	131										
4	53,100	43	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	16	0	16	147										
5	49,500	43	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	26	0	26	173										
6	47,600	42	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	30	0	30	203										
7	48,800		0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	21	0	21	224										
8	45,900		0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	21	0	21	245										
9	45,100	45	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	15	0	15	260										
10	44,300	45	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	6	0	6	266										
11	39,500	45	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	7	0	7	273										
12	35,600		0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	5	0	5	278										
13	34,300	46	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	2	0	2	280										
14	31,600		0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	2	0	2	282										
15	31,600		0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	10	0	10	292										
16	34,900		0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	9	0	9	301										
17	37,100	47	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	7	0	7	308										
18	32,900	47	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	1	0	1	309										
19	30,800	46	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	10	0	10	319										
20	29,600	46	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	7	0	7	326										
21	23,100		0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	5	0	5	331										
22	20,800		0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	7	0	7	338										
23	19,300	43	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	2	0	2	340										
24	17,400	43	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	3	0	3	343										
25	15,800	42	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	5	0	5	348										
26	15,100	42	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	2	0	2	350										
27	14,700	41	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	4	0	4	354										
28	14,300		0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	14	0	14	368										
29	14,700		0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	11	0	11	379										
30	14,300	41	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	6	0	6	385										
31	13,500	41	0	0	0	0	0	0	0	0	0	0	0	0	0	11,260	0	0	0	6,630	4	0	4	389										

Total Clip/Unclip

0

0

0

0

98

11,162

113

6,517

0

389

WILLAMETTE FALLS FISHWAY COUNTS

[Link to USGS Willamette River Portland \(Morrison\) Daily Hydro Data](#)
[Link to NOAA Willamette River Salem Flows](#)

Year: 2023
Month: February

Date	Hydrological Data		Spring Chinook										Coho										Other Species	
			Adult			Jack			Min. Jack				Adult			Jack			Winter (Nov 2022-May 2023)			Summer (Mar 2023-Oct 2023)		
	Flow	Temp	Total	Clipped	Unclip	Total	Clipped	Unclip	0	Total	Clipped	Cum.	Daily	Cum.	Daily	Cum.	Total	Clipped	Unclip	Total	Clipped	Unclip	Species/Total	
1	13,200	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	390				
2	12,800	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	391				
3	12,000	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	2	394				
4	11,800		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	395				
5	12,000		0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6	401				
6	13,200	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5	406				
7	14,300	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0	22	428				
8	14,400	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0	24	452				
9	15,300	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10	462				
10	14,600		0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	9	471				
11	14,000		0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	14	485				
12	13,400		0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	6	492				
13	12,800	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	11	503				
14	12,900	42	1	1	0	1	0	0	0	0	0	0	0	0	0	0	14	0	14	517				
15	13,700	42	0	0	0	1	0	0	0	0	0	0	0	0	0	0	10	0	10	527				
16	13,200	41	0	0	0	0	1	0	0	0	0	0	0	0	0	0	11	1	10	538				
17	13,200	41	1	0	1	2	0	0	0	0	0	0	0	0	0	0	3	0	3	541				
18	12,700		0	0	0	2	0	0	0	0	0	0	0	0	0	0	4	0	4	545				
19	12,100		0	0	0	2	0	0	0	0	0	0	0	0	0	0	11	0	11	556				
20	11,800		0	0	0	2	0	0	0	0	0	0	0	0	0	0	11	0	11	567				
21	11,600	42	0	0	0	2	0	0	0	0	0	0	0	0	0	0	5	1	4	572				
22	12,400	42	0	0	0	0	2	0	0	0	0	0	0	0	0	0	14	0	14	586				
23	13,900		2	1	1	4	0	0	0	0	0	0	0	0	0	0	7	0	7	593				
24	14,000	41	0	0	0	4	0	0	0	0	0	0	0	0	0	0	3	0	3	596				
25	13,100		0	0	0	0	4	0	0	0	0	0	0	0	0	0	2	0	2	598				
26	12,600		0	0	0	0	4	0	0	0	0	0	0	0	0	0	1	0	1	599				
27	13,800	39	1	1	0	5	0	0	0	0	0	0	0	0	0	0	2	1	1	601				
28	14,700	38	0	0	0	0	5	0	0	0	0	0	0	0	0	0	4	0	4	605				

Total Clip/Unclip

3

2

0

0

5

600

WILLAMETTE FALLS FISHWAY COUNTS

[Link to USGS Willamette River Portland \(Morrison\) Daily Hydro Data](#)
[Link to NOAA Willamette River Salem Flows](#)

Year: 2023
Month: March

Date	Hydrological Data		Spring Chinook										Coho										Other Species	
			Adult			Jack			Mini Jack				Adult			Jack			Winter (Nov 2022-May 2023)				Summer (Mar 2023-Oct 2023)	
	Total	Clipped	Unclip	Daily	Total	Clipped	Unclip	0	Daily	Cum.	Daily	Cum.	Total	Clipped	Unclip	Daily	Cum.	Daily	Cum.	Daily	Cum.	Species/Total		
1	17,000	38	0	0	0	5	0	0	0	0	0	0	13	0	13	618	0	0	0	0	0	0		
2	17,000	39	0	0	0	5	0	0	0	0	0	0	9	0	9	627	2	2	0	0	2			
3	16,200	39	0	0	0	5	0	0	0	0	0	0	11	0	11	638	2	2	0	4				
4	15,800		0	0	0	5	0	0	0	0	0	0	16	0	16	654	1	1	0	5				
5	16,000		0	0	0	5	0	0	0	0	0	0	7	0	7	661	0	0	0	0	5			
6	16,400	42	0	0	0	5	0	0	0	0	0	0	14	0	14	675	2	2	0	7				
7	16,200		0	0	0	5	0	0	0	0	0	0	13	0	13	688	1	1	0	8				
8	15,600	42	0	0	0	5	0	0	0	0	0	0	21	0	21	709	0	0	0	0	8			
9	15,400	42	1	0	1	6	0	0	0	0	0	0	32	0	32	741	1	1	0	9				
10	16,300	42	0	0	0	6	0	0	0	0	0	0	31	0	31	772	3	3	0	12				
11	19,200		0	0	0	6	0	0	0	0	0	0	14	0	14	786	1	1	0	13				
12	19,600		0	0	0	6	0	0	0	0	0	0	9	0	9	795	0	0	0	13				
13	22,400		0	0	0	6	0	0	0	0	0	0	30	0	30	825	1	1	0	14				
14	35,300	45	0	0	0	6	0	0	0	0	0	0	33	0	33	858	0	0	0	14				
15	37,400		0	0	0	6	0	0	0	0	0	0	-4	0	-4	854	1	1	0	15				
16	29,700		0	0	0	6	0	0	0	0	0	0	26	0	26	880	0	0	0	15				
17	25,200	45	0	0	0	6	0	0	0	0	0	0	85	0	85	965	6	6	0	21				
18	22,800		0	0	0	6	0	0	0	0	0	0	128	0	128	1,093	11	11	0	32				
19	21,200		0	0	0	6	0	0	0	0	0	0	80	0	80	1,173	14	14	0	46				
20	20,600	48	1	1	0	7	0	0	0	0	0	0	68	0	68	1,241	10	10	0	56				
21	22,200	48	0	0	0	7	0	0	0	0	0	0	37	0	37	1,278	5	5	0	61				
22	22,200	48	0	0	0	7	0	0	0	0	0	0	35	0	35	1,313	6	6	0	67				
23	20,500	47	2	1	1	9	0	0	0	0	0	0	45	0	45	1,358	15	15	0	82				
24	20,400	47	0	0	0	9	0	0	0	0	0	0	38	0	38	1,396	1	1	0	83				
25	22,500		0	0	0	9	0	0	0	0	0	0	45	0	45	1,441	1	1	0	84				
26	23,900		0	0	0	9	0	0	0	0	0	0	21	0	21	1,462	7	7	0	91				
27	23,700	43	1	0	1	10	0	0	0	0	0	0	13	0	13	1,475	2	2	0	93				
28	22,400	43	0	0	0	10	0	0	0	0	0	0	15	0	15	1,490	1	1	0	94				
29	24,000	43	0	0	0	10	0	0	0	0	0	0	20	0	20	1,510	2	2	0	96				
30	23,600	42	0	0	0	10	0	0	0	0	0	0	29	0	29	1,539	0	0	0	96				
31	22,600		0	0	0	10	0	0	0	0	0	0	33	0	33	1,572	6	6	0	102				

Total Clip/Unclip

5

5

0

0

5

1,567

102

0

WILLAMETTE FALLS FISHWAY COUNTS

[Link to USGS Willamette River Portland \(Morrison\) Daily Hydro Data](#)
[Link to NOAA Willamette River Salem Flows](#)

Year: 2023
Month: April

Date	Hydrological Data			Spring Chinook										Coho										Other Species	
				Adult			Jack			Mini Jack				Adult			Jack			Winter (Nov 2022-May 2023)				Summer (Mar 2023-Oct 2023)	
	Total	Clipped	Unclip	10	Total	Clipped	Unclip	0	Daily	Cum.	Total	Clipped	Unclip	1,572	Total	Clipped	Unclip	102	Daily	Cum.	Daily	Cum.	Species/Total		
1	22,800			1	0	1	11	0	0	0	0	0	0		24	0	24	1,596	1	1	0	103			
2	31,300			0	0	0	11	0	0	0	0	0	0		26	0	26	1,622	4	4	0	107			
3	35,500	45		0	0	0	11	0	0	0	0	0	0		5	0	5	1,627	1	1	0	108			
4	34,900	45		0	0	0	11	0	0	0	0	0	0		14	0	14	1,641	2	2	0	110			
5	32,700	44		0	0	0	11	0	0	0	0	0	0		12	0	12	1,653	5	5	0	115			
6	30,300	44		0	0	0	11	0	0	0	0	0	0		21	0	21	1,674	3	3	0	118			
7	32,300	45		0	0	0	11	0	0	0	0	0	0		26	0	26	1,700	1	1	0	119			
8	39,200			0	0	0	11	0	0	0	0	0	0		36	0	36	1,736	4	4	0	123			
9	38,000			3	0	3	14	0	0	0	0	0	0		16	0	16	1,752	7	7	0	130			
10	37,500	48		2	2	0	16	0	0	0	0	0	0		25	0	25	1,777	2	2	0	132			
11	52,100	48		0	0	0	16	0	0	0	0	0	0		7	0	7	1,784	0	0	0	132			
12	62,700	48		0	0	0	16	0	0	0	0	0	0		0	0	0	1,784	0	0	0	132			
13	58,000	48		0	0	0	16	0	0	0	0	0	0		3	0	3	1,787	0	0	0	132			
14	48,300	48		0	0	0	16	0	0	0	0	0	0		17	0	17	1,804	0	0	0	132			
15	40,400			3	2	1	19	0	0	0	0	0	0		26	0	26	1,830	-1	-1	0	131			
16	34,700			6	0	6	25	0	0	0	0	0	0		37	0	37	1,867	2	2	0	133			
17	31,300	49		6	4	2	31	0	0	0	0	0	0		27	0	27	1,894	3	3	0	136			
18	30,500	49		5	3	2	36	0	0	0	0	0	0		15	0	15	1,909	5	5	0	141			
19	29,700	48		5	4	1	41	0	0	0	0	0	0		11	0	11	1,920	1	1	0	142			
20	31,100	48		7	5	2	48	0	0	0	0	0	0		0	0	0	1,920	3	3	0	145			
21	32,300			4	2	2	52	0	0	0	0	0	0		6	0	6	1,926	0	0	0	145			
22	37,900			15	5	10	67	0	0	0	0	0	0		6	0	6	1,932	2	2	0	147			
23	41,200			20	7	13	87	0	0	0	0	0	0		13	0	13	1,945	0	0	0	147			
24	45,000	50		22	7	15	109	0	0	0	0	0	0		9	0	9	1,954	5	5	0	152			
25	46,800	50		16	6	10	125	0	0	0	0	0	0		13	0	13	1,967	0	0	0	152			
26	43,600	51		23	8	15	148	0	0	0	0	0	0		4	0	4	1,971	2	2	0	154			
27	39,900	51		86	35	51	234	0	0	0	0	0	0		2	0	2	1,973	8	8	0	162			
28	37,900	52		257	154	103	491	0	0	0	0	0	0		5	0	5	1,978	13	13	0	175			
29	38,000			355	219	136	846	1	1	0	1	0	0		12	0	12	1,990	10	10	0	185			
30	38,300			544	321	223	1,390	3	3	0	4	0	0		2	0	2	1,992	14	14	0	199			

Total Clip/Unclip

789

601

4

0

5

1,987

199

0

WILLAMETTE FALLS FISHWAY COUNTS

[Link to USGS Willamette River Portland \(Morrison\) Daily Hydro Data](#)
[Link to NOAA Willamette River Salem Flows](#)

Year: 2023
Month: May

Date	Hydrological Data		Spring Chinook								Coho								Steelhead								Other Species				
			Adult			Jack			Mini Jack		Adult			Jack			Winter (Nov 2022-May 2023)		Summer (Mar 2023-Oct 2023)		Daily		Cum.		Daily		Cum.		Species/Total		
	Flow	Temp	Daily	Cum.	Total	Clipped	Unclip	Daily	Cum.	Total	Clipped	Unclip	Daily	Cum.	Total	Clipped	Unclip	Daily	Cum.	Total	Clipped	Unclip	Daily	Cum.	Total	Clipped	Unclip	Daily	Cum.		
1	38,600	56	391	249	142	1,781	3	3	0	7	0	0						2	0	2	1,994	13	13	0	212						
2	35,000	55	189	123	66	1,970	0	0	0	7	0	0						5	0	5	1,999	7	7	0	219						
3	31,000	55	172	108	64	2,142	0	0	0	7	0	0						4	0	4	2,003	9	9	0	228						
4	27,300	53	180	101	79	2,322	0	0	0	7	0	0						2	0	2	2,005	10	10	0	238						
5	27,000	52	83	48	35	2,405	0	0	0	7	0	0						0	0	0	2,005	5	5	0	243						
6	26,300		213	130	83	2,618	1	0	1	8	0	0						3	0	3	2,008	6	6	0	249						
7	25,400		172	95	77	2,790	1	1	0	9	0	0						1	0	1	2,009	3	3	0	252						
8	25,600	53	178	91	87	2,968	3	2	1	12	0	0						6	0	6	2,015	7	7	0	259						
9	25,200	53	187	103	84	3,155	4	2	2	16	0	0						1	0	1	2,016	3	3	0	262						
10	24,800	54	91	52	39	3,246	0	0	0	16	0	0						1	0	1	2,017	3	3	0	265						
11	23,800	55	130	74	56	3,376	0	0	0	16	0	0						1	0	1	2,018	3	3	0	268						
12	23,300		211	117	94	3,587	3	3	0	19	0	0						1	0	1	2,019	12	12	0	280						
13	23,200		350	196	154	3,937	12	11	1	31	0	0						3	0	3	2,022	6	6	0	286						
14	23,600		324	206	118	4,261	5	4	1	36	0	0						0	0	0	2,022	9	9	0	295						
15	24,800		411	251	160	4,672	3	2	1	39	0	0						2	0	1	2,024	14	14	0	309						
16	25,100		298	188	110	4,970	6	4	2	45	0	0						1	0	1	2,025	5	5	0	314						
17	23,700	62	301	211	90	5,271	3	1	2	48	0	0						0	0	0	2,025	11	11	0	325						
18	23,000	64	245	168	77	5,516	8	6	2	56	0	0						0	0	0	2,025	6	6	0	331						
19	22,100	64	226	158	68	5,742	4	4	0	60	0	0						0	0	0	2,025	3	3	0	334						
20	20,500		372	235	137	6,114	6	5	1	66	0	0						2	0	2	2,027	5	5	0	339						
21	19,700		827	638	189	6,941	10	7	3	76	0	0						1	0	1	2,028	8	8	0	347						
22	18,700	64	602	447	155	7,543	13	11	2	89	1	1						0	0	0	2,028	3	3	0	350						
23	18,100	63	544	397	147	8,087	10	10	0	99	0	1						0	0	0	2,028	5	5	0	355						
24	17,900	62	528	415	113	8,615	15	15	0	114	0	1						0	0	0	2,028	7	7	0	362						
25	15,400		413	283	130	9,028	11	11	0	125	0	1						1	0	1	2,029	15	15	0	377						
26	14,900		458	346	112	9,486	11	9	2	136	0	1						0	0	0	2,029	9	9	0	386						
27	14,300		559	406	153	10,045	10	9	1	146	0	1						3	0	3	2,032	14	14	0	400						
28	14,300		477	344	133	10,522	4	3	1	150	1	2						1	0	1	2,033	8	8	0	408						
29	13,800		514	358	156	11,036	6	6	0	156	0	2						5	0	5	2,038	12	12	0	420						
30	13,100	66	338	247	91	11,374	15	13	2	171	1	3						0	0	0	2,038	6	6	0	426						
31	12,700		270	189	81	11,644	4	4	0	175	0	3						1	0	1	2,039	8	8	0	434						

Total Clip/Unclip

7,763 3,881

150 25

5 2,034

434 0

WILLAMETTE FALLS FISHWAY COUNTS

[Link to USGS Willamette River Portland \(Morrison\) Daily Hydro Data](#)
[Link to NOAA Willamette River Salem Flows](#)

Year: 2023
Month: June

Date	Spring Chinook										Coho						Steelhead						Other Species		
	Adult			Jack			Mini Jack				Adult			Jack			Winter (Nov 2022-May 2023)			Summer (Mar 2023-Oct 2023)					
	Flow	Temp	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	434	
			Total	Clipped	Unclip	11,644	Total	Clipped	Unclip	175	3	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	434	
1	12,400	64	304	209	95	11,948	8	7	1	183	0	3									8	6	2	442	
2	12,200		228	150	78	12,176	5	5	0	188	0	3									9	9	0	451	
3	12,000		240	170	70	12,416	6	6	0	194	0	3									11	11	0	462	
4	12,000		246	176	70	12,662	9	7	2	203	0	3									10	9	1	472	
5	12,000	65	325	228	97	12,987	10	9	1	213	1	4									12	11	1	484	
6	11,700	67	473	346	127	13,460	16	15	1	229	0	4									11	12	-1	495	
7	11,400	68	252	191	61	13,712	15	13	2	244	0	4									15	13	2	510	
8	11,400	68	347	241	106	14,059	13	10	3	257	2	6									11	10	1	521	
9	11,100	68	250	181	69	14,309	12	12	0	269	0	6									5	4	1	526	
10	11,100		309	226	83	14,618	15	11	4	284	1	7									13	12	1	539	
11	11,000		375	275	100	14,993	15	13	2	299	0	7									8	8	0	547	
12	10,900	68	329	237	92	15,322	13	8	5	312	0	7									17	15	2	564	
13	10,700	68	380	309	71	15,702	13	12	1	325	1	8									9	9	0	573	
14	10,300	68	427	304	123	16,129	13	11	2	338	2	10									20	19	1	593	
15	10,000	68	354	284	70	16,483	9	9	0	347	5	15									13	13	0	606	
16	9,900	68	383	321	62	16,866	13	12	1	360	0	15									27	25	2	633	
17	9,600		334	225	109	17,200	9	8	1	369	20	35									14	13	1	647	
18	9,180		286	208	78	17,486	8	7	1	377	15	50									18	17	1	665	
19	9,100		287	225	62	17,773	22	19	3	399	11	61									18	18	0	683	
20	9,300	67	244	180	64	18,017	9	9	0	408	14	75									15	12	3	698	
21	9,200	67	262	187	75	18,279	16	14	2	424	32	107									24	23	1	722	
22	9,000	67	357	283	74	18,636	11	11	0	435	31	138									18	18	0	740	
23	8,760	68	299	228	71	18,935	13	12	1	448	37	175									8	8	0	748	
24	8,540		459	329	130	19,394	29	27	2	477	29	204									24	24	0	772	
25	8,320		472	374	98	19,866	18	16	2	495	31	235									21	21	0	793	
26	8,350		403	320	83	20,269	16	15	1	511	46	281									16	14	2	809	
27	8,250	70	355	269	86	20,624	11	7	4	522	50	331									8	7	1	817	8 SHAD
28	8,160		357	270	87	20,981	7	6	1	529	79	410									11	11	0	828	4 SHAD
29	8,000	72	270	212	58	21,251	15	13	2	544	101	511									7	7	0	835	
30	7,970	72	210	175	35	21,461	8	7	1	552	71	582									6	6	0	841	2 SHAD

Total Clip/Unclip

15,096

6,365

481

71

819

22

WILLAMETTE FALLS FISHWAY COUNTS

[Link to USGS Willamette River Portland \(Morrison\) Daily Hydro Data](#)
[Link to NOAA Willamette River Salem Flows](#)

Year: 2023
Month: July

Date	Hydrological Data		Spring Chinook												Coho												Steelhead												Other Species		
			Adult			Jack			Mini Jack			Adult			Jack			Winter (Nov 2022-May 2023)			Summer (Mar 2023-Oct 2023)			Daily			Cum.			Daily			Cum.			Daily			Cum.		
	Flow	Temp	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip						
1	7,850		229	176	53	21,690	5	5	0	557	53	635																													
2	7,630		152	103	49	21,842	7	7	0	564	49	684																													
3	7,600	75	127	97	30	21,969	6	5	1	570	60	744																													
4	7,500		109	79	30	22,078	4	4	0	574	45	789																													
5	7,450	75	96	59	37	22,174	6	4	2	580	45	834																													
6	7,330	75	71	53	18	22,245	5	4	1	585	30	864																													
7	7,240	76	40	32	8	22,285	0	0	0	585	36	900																													
8	7,240		13	8	5	22,298	0	0	0	585	7	907																													
9	7,240		35	25	10	22,333	0	0	0	585	12	919																													
10	7,330	76	12	8	4	22,345	1	1	0	586	15	934																													
11	7,240	75	49	37	12	22,394	3	2	1	589	21	955																													
12	7,180	75	67	48	19	22,461	0	0	0	589	29	984																													
13	7,150	75	59	49	10	22,520	1	1	0	590	29	1,013																													
14	7,090		88	58	30	22,608	2	2	0	592	62	1,075																													
15	6,970		104	69	35	22,712	1	1	0	593	129	1,204																													
16	6,670		42	27	15	22,754	5	5	0	598	61	1,265																													
17	6,500	77	54	33	21	22,808	4	4	0	602	63	1,328																													
18	6,400	77	33	18	15	22,841	0	0	0	602	32	1,360																													
19	6,270	78	39	24	15	22,880	1	1	0	603	29	1,389																													
20	6,300	78	34	21	13	22,914	3	3	0	606	15	1,404																													
21	6,270	78	14	13	1	22,928	3	2	1	609	4	1,408																													
22	6,350		37	19	18	22,965	0	0	0	609	18	1,426																													
23	6,150		16	10	6	22,981	1	1	0	610	15	1,441																													
24	6,130	78	13	9	4	22,994	1	0	1	611	10	1,451																													
25	6,100	78	5	4	1	22,999	1	1	0	612	17	1,468																													
26	6,150		12	5	7	23,011	1	1	0	613	14	1,482																													
27	6,100	78	7	3	4	23,018	1	1	0	614	13	1,495																													
28	6,150	78	4	3	1	23,022	2	1	1	616	16	1,511																													
29	6,100		5	4	1	23,027	2	2	0	618	19	1,530																													
30	6,130		19	14	5	23,046	2	1	1	620	18	1,548																													
31	6,240	76	15	9	6	23,061	2	2	0	622	24	1,572																													

Total Clip/Unclip 16,213 6,848 542 80 906 28

WILLAMETTE FALLS FISHWAY COUNTS

[Link to USGS Willamette River Portland \(Morrison\) Daily Hydro Data](#)
[Link to NOAA Willamette River Salem Flows](#)

Year: 2023
 Month: August

Date	Hydrological Data			Spring/Fall Chinook										Coho										Other Species			
				Adult			Jack			Min. Jack				Adult			Jack			Winter (Nov 2022-May 2023)				Summer (Mar 2023-Oct 2023)			
	Flow	Temp		Total	Clipped	Unclip	Total	Clipped	Unclip	Daily	Cum.	Total	Clipped	Unclip	Daily	Cum.	Total	Clipped	Unclip	Daily	Cum.	Total	Clipped	Unclip	Daily	Cum.	Species/Total
1	6,150	76		20	7	13	23,081	3	3	0	625	43	1,615	0	0	0	0	0	0	0	0	2	2	0	936		
2	6,150	77		22	7	15	23,103	2	2	0	627	67	1,682	0	0	0	0	0	0	0	0	0	0	0	0	936	
3	6,100	77		28	17	11	23,131	1	1	0	628	42	1,724	0	0	0	0	0	0	0	0	1	1	0	937		
4	6,070	77		10	4	6	23,141	3	3	0	631	28	1,752	0	0	0	0	0	0	0	0	0	0	0	0	937	
5	6,150			12	3	9	23,153	0	0	0	631	30	1,782	0	0	0	0	0	0	0	0	1	1	0	938		
6	6,530			22	14	8	23,175	3	3	0	634	38	1,820	0	0	0	0	0	0	0	0	3	3	0	941		
7	6,700	77		10	7	3	23,185	0	0	0	634	14	1,834	0	0	0	0	0	0	0	0	2	2	0	943		
8	6,640	78		7	4	3	23,192	3	3	0	637	8	1,842	0	0	0	0	0	0	0	0	1	1	0	944		
9	6,560	78		12	7	5	23,204	0	0	0	637	37	1,879	0	0	0	0	0	0	0	0	1	1	0	945		
10	6,530	78		15	11	4	23,219	2	2	0	639	41	1,920	0	0	0	0	0	0	0	0	4	3	1	949		
11	6,500	78		29	11	18	23,248	1	1	0	640	30	1,950	0	0	0	0	0	0	0	0	1	1	0	950		
12	6,500			99	45	54	23,347	13	8	5	653	86	2,036	0	0	0	0	0	0	0	0	0	0	0	950		
13	6,560			10	7	3	23,357	-1	0	-1	652	6	2,042	0	0	0	0	0	0	0	0	-1	-1	0	949		
14	6,600	78		53	22	31	23,410	13	10	3	665	91	2,133	0	0	0	0	0	0	0	0	9	8	1	958		
*15	6,640	78		12	9	3	23,422	2	2	0	667	0	2,133	0	0	0	0	0	0	0	0	0	0	0	958		
16	6,600			Ladder closed for maintenance										Ladder closed for maintenance										Ladder closed for maintenance			
17	6,670																										
18	6,640																										
19	6,600																										
20	6,440																										
21	6,500			2	0	2	2	2	1	1	2	2	2,135	0	0	0	0	0	0	0	0	0	0	0	958		
22	6,440			5	4	1	7	1	1	0	3	3	2,138	0	0	0	0	0	0	0	0	6	4	2	964		
23	6,440			29	9	20	36	1	0	1	4	30	2,168	0	0	0	0	0	0	0	0	-1	-1	0	963		
24	6,470	73		47	25	22	83	3	2	1	7	19	2,187	0	0	0	0	0	0	0	0	3	2	1	966		
25	6,470	73		56	22	34	139	3	1	2	10	24	2,211	0	0	0	0	0	0	0	0	1	1	0	967		
26	6,640			60	31	29	199	4	3	1	14	21	2,232	0	0	0	0	0	0	0	0	0	0	0	967		
27	7,000			75	44	31	274	4	0	4	18	18	2,250	0	0	0	0	0	0	0	0	1	0	1	968		
28	7,180	70		71	32	39	345	2	1	1	20	26	2,276	0	0	0	0	0	0	0	0	4	4	0	972		
29	7,180	70		122	53	69	467	5	0	5	25	39	2,315	0	0	0	0	0	0	0	0	7	7	0	979		
30	7,420			163	87	76	630	16	3	13	41	60	2,375	4	0	4	4	0	0	0	0	2	2	0	981		
31	7,360			98	39	59	728	4	0	4	45	36	2,411	4	4	0	8	0	0	0	0	4	4	0	985		
Total Clip/Unclip			ChS	16,388	7,034		580	87						4	4		0	0					951	34			
*Spring Chinook (ChS)- Jan. 1-Aug. 15 Fall Chinook (ChF)- Aug. 16-Dec. 31																											

*Spring Chinook (ChS)- Jan. 1-Aug. 15 Fall Chinook (ChF)- Aug. 16-Dec. 31

WILLAMETTE FALLS FISHWAY COUNTS

[Link to USGS Willamette River Portland \(Morrison\) Daily Hydro Data](#)
[Link to NOAA Willamette River Salem Flows](#)

Year: 2023
 Month: September

Date	Hydrological Data		Fall Chinook												Coho												Other Species	
			Adult			Jack			Mini Jack			Adult			Jack			Winter (Nov 2022-May 2023)			Summer (Mar 2023-Oct 2023)			Species/Total				
	Flow	Temp	Total	Clipped	Unclip	Cum.	Total	Clipped	Unclip	Cum.	Daily	Total	Clipped	Unclip	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Total	Clipped	Unclip	Cum.	Species/Total		
1	8,060		85	39	46	813	7	2	5	52	55	2,466	23	0	23	31	3	0	3	3	11	9	2	996				
2	7,850		15	5	10	828	4	1	3	56	9	2,475	81	9	72	112	34	3	31	37	9	7	2	1,005				
3	7,240		18	12	6	846	8	3	5	64	17	2,492	152	14	138	264	24	3	21	61	9	9	0	1,014				
4	7,000		10	4	6	856	6	4	2	70	7	2,499	123	20	103	387	23	5	18	84	6	2	4	1,020				
5	6,970	68	9	2	7	865	2	0	2	72	3	2,502	99	11	88	486	23	6	17	107	6	4	2	1,026				
6	6,900	68	16	2	14	881	5	2	3	77	1	2,503	121	17	104	607	30	1	29	137	2	2	0	1,028				
7	6,790	67	20	3	17	901	5	1	4	82	4	2,507	177	17	160	784	24	2	22	161	7	3	4	1,035				
8	6,760	67	21	1	20	922	0	0	0	82	14	2,521	233	22	211	1,017	71	0	71	232	7	3	4	1,042				
9	6,700		12	0	12	934	1	0	1	83	6	2,527	221	21	200	1,238	59	0	59	291	4	3	1	1,046				
10	6,610		42	8	34	976	6	0	6	89	6	2,533	332	38	294	1,570	87	6	81	378	5	3	2	1,051				
11	6,590	68	35	3	32	1,011	3	0	3	92	12	2,545	455	31	424	2,025	132	0	132	510	4	4	0	1,055				
12	6,470		19	0	19	1,030	1	0	1	93	0	2,545	477	3	474	2,502	141	0	141	651	4	2	2	1,059				
13	6,470	69	27	2	25	1,057	1	0	1	94	6	2,551	687	17	670	3,189	203	1	202	854	4	2	2	1,063				
14	6,440	68	21	2	19	1,078	1	0	1	95	4	2,555	839	18	821	4,028	227	0	227	1,081	1	1	0	1,064				
15	6,410	69	6	1	5	1,084	2	0	2	97	11	2,566	711	21	690	4,739	236	0	236	1,317	3	1	2	1,067				
16	6,380		17	2	15	1,101	0	0	0	97	0	2,566	643	19	624	5,382	265	0	265	1,582	0	0	0	1,067				
17	6,330		16	0	16	1,117	3	0	3	100	2	2,568	1027	26	1,001	6,409	424	0	424	2,006	4	2	2	1,071				
18	6,330	69	25	1	24	1,142	9	0	9	109	5	2,573	1167	30	1,137	7,576	612	3	609	2,618	0	0	0	1,071				
19	6,300	70	10	0	10	1,152	2	0	2	111	0	2,573	908	2	906	8,484	482	0	482	3,100	4	3	1	1,075				
20	6,240	70	28	2	26	1,180	6	0	6	117	0	2,573	1149	22	1,127	9,633	554	1	553	3,654	1	1	0	1,076				
21	6,270	69	19	0	19	1,199	2	0	2	119	0	2,573	871	5	866	10,504	531	0	531	4,185	0	0	0	1,076				
22	6,210		16	0	16	1,215	0	0	0	119	1	2,574	1090	6	1,084	11,594	577	0	577	4,762	2	1	1	1,078				
23	6,500		15	3	12	1,230	1	0	1	120	1	2,575	836	17	819	12,430	426	0	426	5,188	1	0	1	1,079				
24	6,790		20	2	18	1,250	4	0	4	124	0	2,575	596	7	589	13,026	227	0	227	5,415	3	1	2	1,082				
25	7,120	64	12	2	10	1,262	6	0	6	130	0	2,575	462	18	444	13,488	271	0	271	5,686	5	4	1	1,087				
26	7,540	64	26	2	24	1,288	8	0	8	138	2	2,577	1066	18	1,048	14,554	472	0	472	6,158	6	3	3	1,093				
27	7,540	64	6	1	5	1,294	0	0	0	138	0	2,577	1047	10	1037	15,601	396	2	394	6,554	1	0	1	1,094				
28	7,660	63	7	0	7	1,301	0	0	0	138	0	2,577	1241	2	1239	16,842	469	0	469	7,023	3	2	1	1,097				
29	7,750		6	1	5	1,307	0	0	0	138	0	2,577	965	0	965	17,807	265	0	265	7,288	2	0	2	1,099				
30	7,750		5	0	5	1,312	0	0	0	138	0	2,577	1086	5	1081	18,893	292	0	292	7,580	2	2	0	1,101				

Total Clip/Unclip

446

866

25

113

450

18,443

33

7,547

1,025

76

WILLAMETTE FALLS FISHWAY COUNTS

[Link to USGS Willamette River Portland \(Morrison\) Daily Hydro Data](#)
[Link to NOAA Willamette River Salem Flows](#)

Year: 2023
Month: October

Date	Hydrological Data			Fall Chinook												Coho												Steelhead												Other Species			
				Adult			Jack			Mini Jack			Adult			Jack			Winter (Nov 2022-May 2023)			Summer (Mar 2023-Oct 2023)																					
	Flow	Temp		Daily		Cum.	Daily		Unclip	Cum.		Daily	Unclip	Cum.	Daily		Cum.	Daily		Unclip	Cum.	Daily		Cum.	Daily		Cum.	Species/Total															
1	8,500			4	1	3	1,316	0	0	0	138	0	2,577	840	27	813	19,733	240	0	240	7,820				4	2	2	1,105															
2	8,700			8	0	8	1,324	1	0	1	139	0	2,577	683	17	666	20,416	250	0	250	8,070				4	0	4	1,109															
3	8,760	60		8	0	8	1,332	0	0	0	139	0	2,577	718	18	700	21,134	309	1	308	8,379				12	4	8	1,121															
4	8,900	60		7	0	7	1,339	0	0	0	139	0	2,577	624	24	600	21,758	356	1	355	8,735				3	2	1	1,124															
5	9,400	60		2	0	2	1,341	0	0	0	139	0	2,577	497	8	489	22,255	255	0	255	8,990				0	0	0	1,124															
6	9,500	61		3	0	3	1,344	0	0	0	139	0	2,721	427	25	402	22,682	323	2	321	9,313				1	1	0	1,125															
7	9,750			2	1	1	1,346	0	0	0	139	0	2,721	448	17	431	23,130	271	0	271	9,584				1	0	1	1,126															
8	9,800			6	0	6	1,352	1	0	1	140	0	2,721	538	8	530	23,668	253	0	253	9,837				4	1	3	1,130															
9	9,750	62		0	0	0	1,352	0	0	0	140	0	2,721	386	1	385	24,054	142	0	142	9,979				2	0	2	1,132															
10	9,750	62		5	0	5	1,357	0	0	0	140	0	2,721	281	4	277	24,335	151	0	151	10,130				0	0	0	1,132															
11	10,100	61		6	0	6	1,363	0	0	0	140	0	2,721	340	1	339	24,675	133	2	131	10,263				0	0	0	1,132															
12	12,900			3	0	3	1,366	0	0	0	140	0	2,721	440	7	433	25,115	148	0	148	10,411				1	0	1	1,133															
13	14,900			1	0	1	1,367	0	0	0	140	0	2,721	351	14	337	25,466	70	0	70	10,481				3	3	0	1,136															
14	13,300			0	0	0	1,367	0	0	0	140	0	2,721	387	9	378	25,853	62	0	62	10,543				3	2	1	1,139															
15	12,500			0	0	0	1,367	0	0	0	140	0	2,721	406	18	388	26,259	71	0	71	10,614				2	0	2	1,141															
16	12,100	59		0	0	0	1,367	0	0	0	140	0	2,721	361	18	343	26,620	62	2	60	10,676				4	4	0	1,145															
17	12,000	59		0	0	0	1,367	0	0	0	140	0	2,721	221	12	209	26,841	24	0	24	10,700				1	1	0	1,146															
18	13,400	58		1	0	1	1,368	0	0	0	140	0	2,721	156	18	138	26,997	32	0	32	10,732				2	1	1	1,148															
19	14,300	58		0	0	0	1,368	0	0	0	140	0	2,721	145	4	141	27,142	34	0	34	10,766				1	1	0	1,149															
20	14,400	59		0	0	0	1,368	0	0	0	140	0	2,721	89	3	86	27,231	15	0	15	10,781				0	0	0	1,149															
21	14,100			0	0	0	1,368	0	0	0	140	0	2,721	79	3	76	27,310	28	0	28	10,809				-1	0	-1	1,148															
22	12,900			0	0	0	1,368	0	0	0	140	0	2,721	58	5	53	27,368	17	0	17	10,826				1	0	1	1,149															
23	12,200	58		1	0	1	1,369	0	0	0	140	0	2,721	69	6	63	27,437	23	0	23	10,849				1	1	0	1,150															
24	11,600	58		0	0	0	1,369	0	0	0	140	0	2,721	89	1	88	27,526	19	0	19	10,868				1	0	1	1,151															
25	11,500	57		0	0	0	1,369	0	0	0	140	0	2,721	104	6	98	27,630	24	0	24	10,892				0	0	0	1,151															
26	12,400	57		0	0	0	1,369	0	0	0	140	0	2,721	64	0	64	27,694	19	0	19	10,911				1	0	1	1,152															
27	12,800			0	0	0	1,369	0	0	0	140	0	2,721	69	2	67	27,763	6	0	6	10,917				1	1	0	1,153															
28	12,100			2	0	2	1,371	0	0	0	140	0	2,721	45	1	44	27,808	7	0	7	10,924				1	1	0	1,154															
29	11,500			1	0	1	1,372	0	0	0	140	0	2,721	64	7	57	27,872	9	0	9	10,933				3	0	3	1,157															
30	12,400	52		0	0	0	1,372	0	0	0	140	0	2,721	36	3	33	27,908	10	0	10	10,943				0	0	0	1,157															
31	11,800	52		0	0	0	1,372	0	0	0	140	0	2,721	26	1	25	27,934	7	0	7	10,950				0	0	0	1,157															

Total Clip/Unclip

448

924

25

115

738

27,196

41

10,909

1,050

107

WILLAMETTE FALLS FISHWAY COUNTS

[Link to USGS Willamette River Portland \(Morrison\) Daily Hydro Data](#)
[Link to NOAA Willamette River Salem Flows](#)

Year: 2023
 Month: November

Date	Hydrological Data		Fall Chinook								Coho								Steelhead								Other Species										
			Adult			Jack			Mini Jack		Adult			Jack			Winter (Nov 2023-May 2024)			Summer (Mar 2023-Oct 2023)						Species/Total											
	Flow	Temp	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Total	Clipped	Unclip	Daily	Cum.	Total	Clipped	Unclip	Daily	Cum.	Total	Clipped	Unclip								
1	11,000	50	0	0	0	1,372	0	0	0	140	0	2,721	13	0	13	27,947	7	0	7	10,957	0	0	0	0	0	0	0	0	0	0	0	0	0				
2	11,100	50	0	0	0	1,372	0	0	0	140	0	2,721	78	4	74	28,025	14	0	14	10,971	0	0	0	0	0	0	0	0	0	0	0	0	0				
3	11,600	49	0	0	0	1,372	0	0	0	140	0	2,721	42	3	39	28,067	6	0	6	10,977	3	0	3	3	3	3	3	3	3	3	3	3	3				
4	12,000		0	0	0	1,372	0	0	0	140	0	2,721	160	13	147	28,227	13	0	13	10,990	4	3	1	7													
5	15,100		0	0	0	1,372	0	0	0	140	0	2,721	335	18	317	28,562	43	0	43	11,033	3	0	3	10													
6	24,900	54	0	0	0	1,372	0	0	0	140	0	2,721	337	9	328	28,899	56	0	56	11,089	0	0	0	10													
7	27,500	55	0	0	0	1,372	0	0	0	140	0	2,721	143	8	135	29,042	26	0	26	11,115	0	0	0	10													
8	31,600	53	0	0	0	1,372	0	0	0	140	0	2,721	38	4	34	29,080	18	0	18	11,133	5	0	5	15													
9	27,700	52	0	0	0	1,372	0	0	0	140	0	2,721	62	8	54	29,142	12	0	12	11,145	1	0	1	16													
10	24,300		0	0	0	1,372	0	0	0	140	0	2,721	25	1	24	29,167	8	0	8	11,153	4	0	4	20													
11	21,700		0	0	0	1,372	0	0	0	140	0	2,721	14	0	14	29,181	10	0	10	11,163	3	0	3	23													
12	19,300		0	0	0	1,372	0	0	0	140	0	2,721	52	0	52	29,233	9	0	9	11,172	3	0	3	26													
13	18,300	50	0	0	0	1,372	0	0	0	140	0	2,721	36	2	34	29,269	5	0	5	11,177	0	0	0	26													
14	16,900	50	0	0	0	1,372	0	0	0	140	0	2,721	25	1	24	29,294	12	0	12	11,189	4	0	4	30													
15	15,500	50	0	0	0	1,372	0	0	0	140	0	2,721	30	4	26	29,324	10	0	10	11,199	0	0	0	30													
16	14,900	50	0	0	0	1,372	0	0	0	140	0	2,721	27	2	25	29,351	11	0	11	11,210	3	0	3	33													
17	14,400	49	0	0	0	1,372	0	0	0	140	0	2,721	11	1	10	29,362	14	0	14	11,224	3	0	3	36													
18	13,200		0	0	0	1,372	0	0	0	140	0	2,721	0	0	0	29,362	5	0	5	11,229	3	0	3	39													
19	12,500		0	0	0	1,372	0	0	0	140	0	2,721	11	0	11	29,373	4	0	4	11,233	2	0	2	41													
20	13,600	49	0	0	0	1,372	0	0	0	140	0	2,721	15	1	14	29,388	9	0	9	11,242	1	0	1	42													
21	14,300	49	0	0	0	1,372	0	0	0	140	0	2,721	7	0	7	29,395	2	0	2	11,244	3	1	2	45													
22	14,400	48	0	0	0	1,372	0	0	0	140	0	2,721	9	0	9	29,404	3	0	3	11,247	-1	0	-1	44													
23	15,000		0	0	0	1,372	0	0	0	140	0	2,721	6	1	5	29,410	1	0	1	11,248	0	0	0	44													
24	14,800		0	0	0	1,372	0	0	0	140	0	2,721	5	0	5	29,415	2	0	2	11,250	2	0	2	46													
25	14,300		0	0	0	1,372	0	0	0	140	0	2,721	0	0	0	29,415	0	0	0	11,250	3	0	3	49													
26	14,000		0	0	0	1,372	0	0	0	140	0	2,721	3	0	3	29,418	1	0	1	11,251	1	0	1	50													
27	13,600	44	0	0	0	1,372	0	0	0	140	0	2,721	3	0	3	29,421	0	0	0	11,251	2	0	2	52													
28	12,800		0	0	0	1,372	0	0	0	140	0	2,721	7	0	7	29,428	0	0	0	11,251	1	0	1	53													
29	12,300	42	0	0	0	1,372	0	0	0	140	0	2,721	2	0	2	29,430	0	0	0	11,251	1	0	1	54													
30	11,700	42	0	0	0	1,372	0	0	0	140	0	2,721	-1	0	-1	29,429	0	0	0	11,251																	

Total Clip/Unclip

448 924

25 115

818 28,611

41 11,210

4

50

WILLAMETTE FALLS FISHWAY COUNTS

[Link to USGS Willamette River Portland \(Morrison\) Daily Hydro Data](#)
[Link to NOAA Willamette River Salem Flows](#)

Year: 2023
Month: December

Date	Hydrological Data			Fall Chinook						Coho						Steelhead						Other Species			
				Adult			Jack			Adult			Jack			Winter (Nov 2023-May 2024)			Summer (Mar 2023-Oct 2023)						
	Flow	Temp		Daily	Cum.	Clipped	Unclip	Total	Daily	Clipped	Unclip	Total	Daily	Cum.	Clipped	Unclip	Total	Daily	Cum.	Species/Total					
1	11,700	42		0	0	0	1,372	0	0	0	140	0	2,721	3	0	3	29,432	0	0	0	11,251	-1	0	-1	53
2	13,200			0	0	0	1,372	0	0	0	140	0	2,721	3	0	3	29,435	2	0	2	11,253	8	0	8	61
3	20,600			0	0	0	1,372	0	0	0	140	0	2,721	4	0	4	29,439	4	0	4	11,257	7	1	6	68
4	54,100	46		0	0	0	1,372	0	0	0	140	0	2,721	13	0	13	29,452	5	0	5	11,262	0	0	0	68
5	75,000	46		0	0	0	1,372	0	0	0	140	0	2,721	5	0	5	29,457	0	0	0	11,262	-2	0	-2	66
6	68,900			0	0	0	1,372	0	0	0	140	0	2,721	-4	0	-4	29,453	0	0	0	11,262	-3	0	-3	63
7	64,900	50		0	0	0	1,372	0	0	0	140	0	2,721	2	0	2	29,455	0	0	0	11,262	-3	0	-3	60
8	67,600	50		0	0	0	1,372	0	0	0	140	0	2,721	-2	0	-2	29,453	0	0	0	11,262	-2	0	-2	58
9	66,900			0	0	0	1,372	0	0	0	140	0	2,721	1	0	1	29,454	0	0	0	11,262	1	0	1	59
10	60,300			0	0	0	1,372	0	0	0	140	0	2,721	2	0	2	29,456	0	0	0	11,262	3	0	3	62
11	67,100	47		0	0	0	1,372	0	0	0	140	0	2,721	-2	0	-2	29,454	0	0	0	11,262	-5	0	-5	57
12	74,600	46		0	0	0	1,372	0	0	0	140	0	2,721	-3	0	-3	29,451	0	0	0	11,262	-3	0	-3	54
13	75,200	46		0	0	0	1,372	0	0	0	140	0	2,721	6	1	5	29,457	0	0	0	11,262	2	0	2	56
14	65,800	46		0	0	0	1,372	0	0	0	140	0	2,721	5	0	5	29,462	0	0	0	11,262	2	0	2	58
15	57,800	46		0	0	0	1,372	0	0	0	140	0	2,721	1	0	1	29,463	1	0	1	11,263	8	0	8	66
16	50,300			0	0	0	1,372	0	0	0	140	0	2,721	6	1	5	29,469	0	0	0	11,263	11	0	11	77
17	42,100			0	0	0	1,372	0	0	0	140	0	2,721	3	0	3	29,472	1	0	1	11,264	3	0	3	80
18	37,400	44		0	0	0	1,372	0	0	0	140	0	2,721	4	0	4	29,476	1	0	1	11,265	17	0	17	97
19	32,800	44		0	0	0	1,372	0	0	0	140	0	2,721	4	1	3	29,480	1	0	1	11,266	20	0	20	117
20	30,600			0	0	0	1,372	0	0	0	140	0	2,721	11	3	8	29,491	0	0	0	11,266	36	0	36	153
21	27,300			0	0	0	1,372	0	0	0	140	0	2,721	22	1	21	29,513	1	0	1	11,267	34	0	34	187
22	24,900			0	0	0	1,372	0	0	0	140	0	2,721	9	0	9	29,522	3	0	3	11,270	33	0	33	220
23	23,300			0	0	0	1,372	0	0	0	140	0	2,721	8	0	8	29,530	2	0	2	11,272	18	0	18	238
24	20,400			0	0	0	1,372	0	0	0	140	0	2,721	9	1	8	29,539	2	0	2	11,274	24	0	24	262
25	17,600			0	0	0	1,372	0	0	0	140	0	2,721	8	1	7	29,547	2	0	2	11,276	15	0	15	277
26	17,400	43		0	0	0	1,372	0	0	0	140	0	2,721	2	0	2	29,549	2	0	2	11,278	10	0	10	287
27	18,700	43		0	0	0	1,372	0	0	0	140	0	2,721	6	0	6	29,555	0	0	0	11,278	17	0	17	304
28	18,000	44		0	0	0	1,372	0	0	0	140	0	2,721	8	1	7	29,563	0	0	0	11,278	29	0	29	333
29	17,700	44		0	0	0	1,372	0	0	0	140	0	2,721	13	0	13	29,576	0	0	0	11,278	28	1	27	361
30	17,000			0	0	0	1,372	0	0	0	140	0	2,721	13	0	13	29,589	1	0	1	11,279	23	0	23	384
31	17,300			0	0	0	1,372	0	0	0	140	0	2,721	2	0	2	29,591	1	0	1	11,280	35	0	35	419

Total Clip/Unclip

448

924

25

115

828

28,763

41

11,239

6

413