

WILLAMETTE FALLS FISHWAY COUNTS

Month January

Year 2016

Date	Hydrological Data						Spring Chinook									Coho				Steelhead			
							Adult			Jack			Mini Jack			Adult		Jack		Winter			Cum.
	Flow	HW	TW	Diff	Temp	Vis	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.	Daily	Cum.					
	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	Daily	Cum.	Daily	Cum.	Total	Clipped	Unclip	Cum.						
1	41,000													0	0	0	0	9	0	9	148		
2	38,000													0	0	0	0	5	0	5	153		
3	35,800													0	0	0	0	1	0	1	154		
4	33,800	57.1	19.4	37.7	38	2.2								0	0	0	0	0	0	0	154		
5	32,500	57.2	19.1	38.1	38	2.2								0	0	0	0	4	0	4	158		
6	31,400													0	0	0	0	10	0	10	168		
7	29,600	57.2	18	39.2	39	2.5								0	0	0	0	8	2	6	176		
8	26,700	57.0	17.5	39.5	40	2.8								0	0	0	0	15	0	15	191		
9	24,100													0	0	0	0	22	3	19	213		
10	23,100													0	0	0	0	27	4	23	240		
11	21,500	56.2	15.8	40.4	41	3.2								0	0	0	0	14	1	13	254		
12	21,200	56.2	15.7	40.5	41	3.2								0	0	0	0	29	3	26	283		
13	27,900													0	0	0	0	45	3	42	328		
14	36,200	58.0	21.2	36.8	43	<1.0								0	0	0	0	11	1	10	339		
15	41,600	58.4	23	35.4	44	<1.0								0	0	0	0	26	3	23	365		
16	43,000													0	0	0	0	42	3	39	407		
17	48,000													0	0	0	0	37	3	34	444		
18	62,300													0	0	0	0	31	2	29	475		
19	71,100	59.8	27.8	32.0	45	<1.0								0	0	0	0	18	0	18	493		
20	79,000	60.5	28.8	31.7	45	<1.0								0	0	0	0	27	3	24	520		
21	81,100	60.6	30.7	29.9	45	<1.0								0	0	0	0	18	1	17	538		
22	78,500	60.7	30.9	29.8	46									0	0	0	0	33	2	31	571		
23	73,300													0	0	0	0	53	4	49	624		
24	68,000													0	0	0	0	117	6	111	741		
25	63,400													0	0	0	0	127	10	117	868		
26	57,500	59.3	25.7	33.6	47	<1.0								0	0	0	0	69	6	63	937		
27	53,400	58.8	24.6	34.2	48	1.0								0	0	0	0	86	6	80	1,023		
28	49,900	58.5	23.5	35.0	48	1.0								0	0	0	0	104	10	94	1,127		
29	55,500	58.7	24	34.7	48	1.0								0	0	0	0	82	4	78	1,209		
30	61,000													0	0	0	0	28	0	28	1,237		
31	65,300													0	0	0	0	11	0	11	1,248		

WILLAMETTE FALLS FISHWAY COUNTS

Month February

Year 2016

Date	Hydrological Data						Spring Chinook									Coho				Steelhead			
							Adult				Jack			Mini Jack		Adult		Jack		Winter			
	Flow	HW	TW	Diff	Temp	Vis	Daily			Cum.	Daily			Cum.	Daily	Cum.	Daily	Cum.	Daily			Cum.	
							Total	Clipped	Unclip	0	Total	Clipped	Unclip		Daily	Cum.	Daily	Cum.	Total	Clipped	Unclip	1,248	
1	63,400	59.4	26.1	33.3	45	1	0	0	0	0									4	0	4	1,252	
2	54,900	59.0	25	34.0	45	1.6	0	0	0	0									28	0	28	1,280	
3	47,000	58.5	23.5	35.0	44	1.8	0	0	0	0									25	2	23	1,305	
4	39,200						0	0	0	0									38	6	32	1,343	
5	38,900	57.8	21.2	36.6	44	2	0	0	0	0									58	4	54	1,401	
6	36,900						0	0	0	0									43	5	38	1,444	
7	34,500						0	0	0	0									62	7	55	1,506	
8	31,900	57.3	19.6	37.7	45	2.0	0	0	0	0									85	7	78	1,591	
9	30,200	57.3	19.2	38.1	45	2.8	0	0	0	0									73	5	68	1,664	
10	27,800	57.3	18.3	39.0	45	2.8	0	0	0	0									50	4	46	1,714	
11	25,200						0	0	0	0									58	7	51	1,772	
12	23,800	56.8	16.9	39.9	45	3.0	1	1	0	1									49	4	45	1,821	
13	23,800						0	0	0	1									54	4	50	1,875	
14	24,200						0	0	0	1									59	5	54	1,934	
15	36,100						0	0	0	1									89	4	85	2,023	
16	39,000	57.6	20.5	37.1	48	3.0	0	0	0	1									95	10	85	2,118	
17	33,000	57.3	19.9	37.4	48	2.2	0	0	0	1									143	16	127	2,261	
18	31,500	57.3	19.1	38.2	48	2.2	0	0	0	1									136	9	127	2,397	
19	38,300	57.4	19.9	37.5	48	1.8	0	0	0	1									87	7	80	2,484	
20	43,800						0	0	0	1									55	3	52	2,539	
21	42,200						0	0	0	1									32	2	30	2,571	
22	37,400	57.6	21	36.6	46	1.8	0	0	0	1									35	3	32	2,606	
23	33,100						0	0	0	1									44	2	42	2,650	
24	27,600	57.2	18.9	38.3	46	2.8	0	0	0	1									38	2	36	2,688	
25	24,400	57.0	17.3	39.7	47	3.0	0	0	0	1									21	8	13	2,709	
26	22,500	56.7	16.6	40.1	47	3.0	0	0	0	1									50	6	44	2,759	
27	22,100						0	0	0	1									49	4	45	2,808	
28	24,300						0	0	0	1									56	5	51	2,864	
29	23,600	56.7	16.6	40.1	48	3.8	1	1	0	2									54	3	51	2,918	

WILLAMETTE FALLS FISHWAY COUNTS

Month March Year 2016

Date	Hydrological Data						Spring Chinook									Steelhead								
							Adult			Jack			Mini Jack			Winter				Summer				
	Flow	HW	TW	Diff	Temp	Vis	Daily			Cum.	Daily			Cum.	Daily	Cum.	Daily			Cum.				
							Total	Clipped	Unclip		Total	Clipped	Unclip				Total	Clipped	Unclip		Total	Clipped	Unclip	
1	22,800	57.0	16.8	40.2	48	3.8	1	1	0	3							29	0	29	2,947	0	0	0	0
2	23,800	56.8	16.9	39.9	48	3.6	0	0	0	3							41	0	41	2,988	2	2	0	2
3	25,100	57.0	17.2	39.8	48	3.0	0	0	0	3							61	0	61	3,049	4	4	0	6
4	26,200	57.2	17.6	39.6	48	3	1	0	1	4							47	0	47	3,096	6	6	0	12
5	28,200						0	0	0	4							65	0	65	3,161	7	7	0	19
6	31,800						0	0	0	4							45	0	45	3,206	8	8	0	27
7	36,200	57.3	19.3	38.0	49	3.2	0	0	0	4							47	0	47	3,253	5	5	0	32
8	36,700	57.5	20.5	37.0	49	3.2	0	0	0	4							38	0	38	3,291	9	9	0	41
9	34,500	57.4	20.4	37.0	49	3.2	0	0	0	4							49	0	49	3,340	2	2	0	43
10	38,000						0	0	0	4							40	0	40	3,380	5	5	0	48
11	41,200						0	0	0	4							61	0	61	3,441	3	3	0	51
12	36,200						0	0	0	4							67	0	67	3,508	7	7	0	58
13	37,400						0	0	0	4							63	0	63	3,571	6	6	0	64
14	49,500	58.9	23.5	35.4	48	1.0	0	0	0	4							39	0	39	3,610	2	2	0	66
15	60,600	59.7	25.9	33.8	48	<1.0	0	0	0	4							14	0	14	3,624	2	2	0	68
16	65,500	59.9	27.3	32.6	47	<1.0	0	0	0	4							19	0	19	3,643	2	2	0	70
17	61,000	59.9	27.5	32.4	47	<1.0	0	0	0	4							26	0	26	3,669	5	5	0	75
18	53,500	59.4	25.8	33.6	47	<1.0	0	0	0	4							76	0	76	3,745	12	12	0	87
19	51,400						0	0	0	4							58	0	58	3,803	18	18	0	105
20	50,300						0	0	0	4							77	0	77	3,880	7	7	0	112
21	49,400	58.8	23.5	35.3	50	<1.0	1	1	0	5							85	0	85	3,965	21	21	0	133
22	52,400	58.9	23.6	35.3	50	1.0	0	0	0	5							46	0	46	4,011	12	12	0	145
23	52,500	58.8	23.8	35.0	50	2.0	1	0	1	6							24	0	24	4,035	3	3	0	148
24	50,500	58.7	23.5	35.2	50	2.2	0	0	0	6							20	0	20	4,055	5	5	0	153
25	46,700	58.5	22.7	35.8	50	2.2	0	0	0	6							40	0	40	4,095	11	11	0	164
26	41,800						0	0	0	6							62	0	62	4,157	16	16	0	180
27	38,600						7	6	1	13							39	0	39	4,196	9	9	0	189
28	36,100	57.6	19.7	37.9	49	3.4	6	6	0	19							31	0	31	4,227	10	10	0	199
29	33,400	57.6	19.3	38.3	49	3.6	9	8	1	28							31	0	31	4,258	9	9	0	208
30	30,500	57.6	18.5	39.1	50	3.8	3	3	0	31							32	0	32	4,290	4	4	0	212
31	28,300	57.4	17.5	39.9	50	4.0	6	5	1	37							16	0	16	4,306	22	22	0	234

Cumulative Adult Spring Chinook Mark Rate: 86.5%

WILLAMETTE FALLS FISHWAY COUNTS

Month April Year 2016

Date	Hydrological Data						Spring Chinook									Steelhead							
							Adult			Jack			Mini Jack			Winter				Summer			
	Flow	HW	TW	Diff	Temp	Vis	Daily			Cum.	Daily			Cum.	Daily	Cum.	Daily			Cum.			
							Total	Clipped	Unclip		Total	Clipped	Unclip				Total	Clipped	Unclip				
1	25,700	57.2	16.9	40.3	50	4.3	22	19	3	59	0	0	0	0	17	0	17	4,323	7	7	0	241	
2	22,400						34	30	4	93	0	0	0	0	39	0	39	4,362	32	32	0	273	
3	20,800						43	35	8	136	0	0	0	0	69	0	69	4,431	29	29	0	302	
4	19,800	56.4	15.3	41.1	55	5	89	71	18	225	0	0	0	0	104	0	104	4,535	51	51	0	353	
5	20,000	56.3	15.1	41.2	55	5.2	46	18	28	271	0	0	0	0	48	0	48	4,583	18	18	0	371	
6	31,600	56.3	15	41.3	55	5.4	27	15	12	298	0	0	0	0	35	0	35	4,618	29	29	0	400	
7	19,000	56.1	14.6	41.5	57	5.6	26	19	7	324	0	0	0	0	29	0	29	4,647	11	11	0	411	
8	18,600						61	43	18	385	0	0	0	0	42	0	42	4,689	42	42	0	453	
9	17,500						93	67	26	478	0	0	0	0	43	0	43	4,732	42	42	0	495	
10	17,900						200	150	50	678	0	0	0	0	38	0	38	4,770	27	27	0	522	
11	18,000	55.9	14.2	41.7	58	6.2	243	169	74	921	0	0	0	0	29	0	29	4,799	34	34	0	556	
12	18,200	55.9	14	41.9	58	6.2	152	101	51	1,073	0	0	0	0	16	0	16	4,815	21	21	0	577	
13	17,500						95	78	17	1,168	0	0	0	0	12	0	12	4,827	23	23	0	600	
14	17,800						46	36	10	1,214	0	0	0	0	14	0	14	4,841	25	25	0	625	
15	19,600						17	15	2	1,231	0	0	0	0	10	0	10	4,851	15	15	0	640	
16	22,500						11	5	6	1,242	0	0	0	0	4	0	4	4,855	19	19	0	659	
17	19,900						20	14	6	1,262	1	1	0	1	14	0	14	4,869	20	20	0	679	
18	18,400	56.1	14.8	41.3	55	4.8	81	48	33	1,343	0	0	0	1	28	0	28	4,897	49	49	0	728	
19	17,200	55.8	14.3	41.5	58	4.8	206	151	55	1,549	3	2	1	4	29	0	29	4,926	38	38	0	766	
20	16,900	55.6	14.1	41.5	59	5.8	623	504	119	2,172	9	8	1	13	57	0	57	4,983	74	74	0	840	
21	16,400	55.3	14.6	40.7	61	6.0	430	318	112	2,602	11	10	1	24	45	0	45	5,028	44	44	0	884	
22	16,800	55.4	14.2	41.2	61	6.0	750	578	172	3,352	8	8	0	32	64	0	64	5,092	113	113	0	997	
23	16,800						337	263	74	3,689	6	5	1	38	33	0	33	5,125	64	64	0	1,061	
24	17,100						230	184	46	3,919	6	6	0	44	11	0	11	5,136	38	38	0	1,099	
25	18,500	56.0	14.6	41.4	59	5.8	108	80	28	4,027	3	3	0	47	16	0	16	5,152	71	71	0	1,170	
26	19,400	56.3	15	41.3	59	5.8	47	32	15	4,074	1	1	0	48	12	0	12	5,164	33	33	0	1,203	
27	18,900	56.0	14.8	41.2	57	5.2	23	16	7	4,097	1	1	0	49	9	0	9	5,173	39	39	0	1,242	
28	17,700	55.8	14.3	41.5	57	5.2	31	24	7	4,128	0	0	0	49	15	0	15	5,188	52	52	0	1,294	
29	16,800	55.7	14	41.7	55	5.5	31	25	6	4,159	1	1	0	50	3	0	3	5,191	55	55	0	1,349	
30	16,000	55.5	13.8	41.7	55	5.6	51	42	9	4,210	1	1	0	51	10	0	10	5,201	60	60	0	1,409	

Cumulative Adult Spring Chinook Mark Rate: 75.6%

WILLAMETTE FALLS FISHWAY COUNTS

Month May Year 2016

Date	Hydrological Data						Spring Chinook									Steelhead								
							Adult				Jack				Mini Jack		Winter				Summer			
	Flow	HW	TW	Diff	Temp	Vis	Daily			Cum.	Daily			Cum.	Daily	Cum.	Daily			Cum.	Daily			Cum.
							Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Cum.	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	
1	15,700						127	110	17	4,210	2	2	0	53	0	0	3	0	3	5,204	86	86	0	1,495
2	15,900	55.6	13.6	42.0	58	6.0	932	748	184	5,269	24	21	3	77	1	1	33	0	33	5,237	285	285	0	1,780
3	16,200	55.7	13.6	42.1	59	6.0	648	504	144	5,917	22	20	2	99	0	1	31	0	31	5,268	234	234	0	2,014
4	15,500	55.8	13.8	42.0	61	6.7	743	563	180	6,660	34	25	9	133	0	1	39	0	39	5,307	235	235	0	2,249
5	15,300	55.7	13.6	42.1	61	6.8	443	354	89	7,103	24	20	4	157	2	3	24	0	24	5,331	134	134	0	2,383
6	15,100	55.3	13.2	42.1	61	6.8	337	259	78	7,440	6	5	1	163	0	3	19	0	19	5,350	114	114	0	2,497
7	15,300	55.1	13.2	41.9	60	7.2	421	322	99	7,861	17	12	5	180	0	3	13	0	13	5,363	194	194	0	2,691
8	15,800						657	522	135	8,518	23	20	3	203	2	5	17	0	17	5,380	149	149	0	2,840
9	15,700	55.3	13.4	41.9	61	6.7	403	322	81	8,921	27	24	3	230	0	5	6	0	6	5,386	62	62	0	2,902
10	15,600	55.3	14.1	41.2	62	6.8	534	433	101	9,455	25	22	3	255	0	5	15	0	15	5,401	80	80	0	2,982
11	15,500	54.9	13.9	41.0	62	7.2	458	342	116	9,913	31	27	4	286	1	6	11	0	11	5,412	109	109	0	3,091
12	15,100	55.4	13.4	42.0	62	7.2	537	434	103	10,450	25	21	4	311	1	7	15	0	15	5,427	159	159	0	3,250
13	15,200	55.1	12.8	42.3	63	7.4	671	546	125	11,121	28	26	2	339	1	8	21	0	21	5,448	277	277	0	3,527
14	15,000	55.2	12.7	42.5	64	7.4	525	415	110	11,646	32	28	4	371	0	8	18	0	18	5,466	386	386	0	3,913
15	15,100						346	274	72	11,992	23	22	1	394	1	9	20	0	20	5,486	197	197	0	4,110
16	15,400	55.4	12.9	42.5	62	7.4	235	180	55	12,227	14	13	1	408	0	9	19	0	19	5,505	257	257	0	4,367
17	15,200	55.4	13.0	42.4	62	7.4	258	225	33	12,485	23	19	4	431	4	13	17	0	17	5,522	286	286	0	4,653
18	14,700	55.3	12.8	42.5	59	7.3	157	138	19	12,642	10	9	1	441	3	16	23	0	23	5,545	289	289	0	4,942
19	14,100	55.1	12.5	42.6	59	7.3	404	318	86	13,046	21	17	4	462	0	16	13	0	13	5,558	299	299	0	5,241
20	14,300	55.0	12.4	42.6	60	7.0	378	308	70	13,424	28	22	6	490	6	22	30	0	30	5,588	328	328	0	5,569
21	14,700						366	294	72	13,790	28	17	11	518	6	28	21	0	21	5,609	345	345	0	5,914
22	14,400						348	294	54	14,138	44	35	9	562	5	33	32	0	32	5,641	352	352	0	6,266
23	14,500	55.0	12.6	42.4	59	7.5	216	170	46	14,354	21	16	5	583	1	34	28	0	28	5,669	264	264	0	6,530
24	14,800	55.1	12.7	42.4	59	7.5	253	197	56	14,607	31	27	4	614	2	36	23	0	23	5,692	254	254	0	6,784
25	14,500	55.2	13.0	42.2	59	7.3	255	202	53	14,862	31	22	9	645	3	39	15	0	15	5,707	203	203	0	6,987
26	13,800	55.0	12.5	42.5	59	7.3	398	324	74	15,260	29	26	3	674	0	39	11	0	11	5,718	330	330	0	7,317
27	13,500	55.0	12.2	42.8	58	7.3	392	322	70	15,652	39	33	6	713	1	40	7	0	7	5,725	301	301	0	7,618
28	12,900						372	292	80	16,024	46	37	9	759	6	46	14	0	14	5,739	211	211	0	7,829
29	12,600						256	198	58	16,280	37	26	11	796	7	53	12	0	12	5,751	290	290	0	8,119
30	12,400						256	200	56	16,536	44	32	12	840	8	61	18	0	18	5,769	251	251	0	8,370
31	12,200						304	227	77	16,840	43	36	7	883	12	73	9	0	9	5,778	215	215	0	8,585

Cumulative Adult Spring Chinook Mark Rate: 78.5%

WILLAMETTE FALLS FISHWAY COUNTS

Month June Year 2016

Date	Hydrological Data						Spring Chinook									Steelhead								
							Adult			Jack			Mini Jack			Winter				Summer				
	Flow	HW	TW	Diff	Temp	Vis	Daily			Cum.	Daily			Cum.	Daily	Cum.	Daily			Cum.				
							Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped	Unclip			
1	12,200	54.8	11.8	43.0	62	7.4	348	276	72	17,188	28	24	4	911	3	76					314	307	7	8,899
2	12,100	54.9	11.8	43.1	63	7.5	313	242	71	17,501	26	23	3	937	0	76					334	325	9	9,233
3	12,000	54.4	11.7	42.7	66	8.0	341	266	75	17,842	39	33	6	976	6	82					300	284	16	9,533
4	11,700						284	214	70	18,126	41	35	6	1,017	3	85					240	232	8	9,773
5	12,100						230	172	58	18,356	62	43	19	1,079	8	93					207	199	8	9,980
6	12,200	54.3	13.4	40.9	70	7.0	284	220	64	18,640	6	6		1,085	2	95					306	303	3	10,286
7	12,100	54.2	13.3	40.9	72	7.2	293	236	57	18,933	17	16	1	1,102	4	99					287	285	2	10,573
8	11,900	54.2	13.2	41.0	74	7.4	83	65	18	19,016	4	3	1	1,106	3	102					88	82	6	10,661
9	11,700	54.3	13.1	41.2	74	7.9	82	59	23	19,098	12	12		1,118	3	105					63	59	4	10,724
10	11,600	54.2	13	41.2	74	8.0	136	117	19	19,234	16	16		1,134	9	114					124	110	14	10,848
11	10,800						128	98	30	19,362	21	17	4	1,155	12	126					182	163	19	11,030
12	10,600						285	219	66	19,647	36	29	7	1,191	9	135					312	301	11	11,342
13	10,400	54.0	12.8	41.2	66	7.6	160	126	34	19,807	25	22	3	1,216	9	144					185	176	9	11,527
14	9,980	54.0	12.7	41.3	64	7.6	269	208	61	20,076	36	32	4	1,252	44	188					332	324	8	11,859
15	9,880	53.9	12.7	41.2	65	7.8	437	326	111	20,513	49	39	10	1,301	63	251					459	449	10	12,318
16	9,980	54.5	12.8	41.7	65	7.8	488	374	114	21,001	55	42	13	1,356	74	325					352	330	22	12,670
17	10,000	54.2	12.8	41.4	65	8.0	495	379	116	21,496	52	44	8	1,408	90	415					385	367	18	13,055
18	9,510						421	289	132	21,917	74	57	17	1,482	84	499					289	267	22	13,344
19	9,410						351	269	82	22,268	19	18	1	1,501	106	605					348	341	7	13,692
20	9,410	53.9	12.6	41.3	66	7.2	513	413	100	22,781	14	12	2	1,515	111	716					547	536	11	14,239
21	9,090	53.9	12.6	41.3	67	7.3	539	458	81	23,320	18	18		1,533	182	898					483	482	1	14,722
22	8,570						505	428	77	23,825	15	14	1	1,548	207	1,105					493	487	6	15,215
23	8,570	53.7	12.2	41.5	68	8.3	518	431	87	24,343	23	19	4	1,571	149	1,254					407	396	11	15,622
24	8,510	56.3	7.6	48.7	68	8.8	436	362	74	24,779	38	32	6	1,609	163	1,417					327	313	14	15,949
25	8,790	56.2	11.8	44.4	68	8.8	372	305	67	25,151	39	28	11	1,648	126	1,543					307	294	13	16,256
26	8,540						275	214	61	25,426	38	30	8	1,686	108	1,651					252	237	15	16,508
27	8,160	56.2	11.6	44.6	69	8.8	347	286	61	25,773	27	23	4	1,713	131	1,782					250	222	28	16,758
28	7,850	56.3	14	42.3	70	9.0	369	296	73	26,142	37	27	10	1,750	143	1,925					228	214	14	16,986
29	7,850	56.3	14	42.3	70	9.0	121	94	27	26,263	10	8	2	1,760	51	1,976					115	106	9	17,101
30	8,130	56.4	10.9	45.5	71	9.0	240	178	62	26,503	34	30	4	1,794	106	2,082					191	184	7	17,292

Cumulative Adult Spring Chinook Mark Rate: 78.6%

WILLAMETTE FALLS FISHWAY COUNTS

Month July Year 2016

Date	Hydrological Data						Spring Chinook									Steelhead							
							Adult			Jack			Mini Jack			Winter			Summer				
	Flow	HW	TW	Diff	Temp	Vis	Daily			Cum.	Daily			Cum.	Daily	Cum.	Total	Daily		Cum.			
							Total	Clipped	Unclip		Total	Clipped	Unclip					Total	Clipped		Unclip		
1	8,100	56.4	11.6	44.8	72	8.8	231	183	48	26,503	27	24	3	1,821	136	2,218				169	152	17	17,461
2	7,780						306	267	39	27,040	31	29	2	1,852	104	2,322				151	146	5	17,612
3	7,510						244	201	43	27,284	10	7	3	1,862	82	2,404				169	168	1	17,781
4	7,420						192	171	21	27,476	5	5	0	1,867	65	2,469				128	126	2	17,909
5	7,360	56.4	10.8	45.6	72	7.5	138	113	25	27,614	3	3	0	1,870	47	2,516				111	109	2	18,020
6	7,270	56.4	11.5	44.9	72	7.6	115	96	19	27,729	13	13	0	1,883	34	2,550				140	137	3	18,160
7	7,210	56.3	11.6	44.7	73	7.8	151	125	26	27,880	11	8	3	1,894	65	2,615				143	142	1	18,303
8	7,240	56.4	10.4	46.0	72	7.5	90	71	19	27,970	7	6	1	1,901	50	2,665				147	145	2	18,450
9	7,540						137	120	17	28,107	12	10	2	1,913	30	2,695				219	218	1	18,669
10	7,880						83	66	17	28,190	16	13	3	1,929	47	2,742				144	134	10	18,813
11	8,100	56.3	10.8	45.5	70	7.6	207	154	53	28,397	26	22	4	1,955	64	2,806				148	140	8	18,961
12	8,190	56.2	12.1	44.1	70	7.6	167	133	34	28,564	17	12	5	1,972	50	2,856				109	102	7	19,070
13	7,910	56.3	11.9	44.4	70	7.6	112	81	31	28,676	10	9	1	1,982	41	2,897				120	109	11	19,190
14	7,270	56.2	10.8	45.4	70	7.0	163	112	51	28,839	10	9	1	1,992	59	2,956				156	147	9	19,346
15	6,670						276	191	85	29,115	25	19	6	2,017	97	3,053				257	244	13	19,603
16	6,350						178	120	58	29,293	11	9	2	2,028	88	3,141				160	151	9	19,763
17	6,440						133	86	47	29,426	16	12	4	2,044	51	3,192				158	148	10	19,921
18	6,560	56.4	8.9	47.5	71	8.2	123	92	31	29,549	16	15	1	2,060	56	3,248				143	139	4	20,064
19	6,560	56.4	10	46.4	71	8.2	113	87	26	29,662	22	20	2	2,082	56	3,304				128	126	2	20,192
20	6,440	56.2	10.6	45.6	71	8.3	66	48	18	29,728	9	8	1	2,091	50	3,354				114	111	3	20,306
21	6,410	56.5	10.1	46.4	72	8.7	108	83	25	29,836	6	4	2	2,097	68	3,422				109	103	6	20,415
22	6,330	56.4	9.4	47.0	72	8.7	50	37	13	29,886	7	6	1	2,104	20	3,442				84	78	6	20,499
23	6,330						36	20	16	29,922	1	0	1	2,105	25	3,467				54	48	6	20,553
24	6,300						68	44	24	29,990	4	2	2	2,109	48	3,515				141	140	1	20,694
25	6,330	56.4	9.0	47.4	73	7.8	65	42	23	30,055	3	2	1	2,112	50	3,565				96	95	1	20,790
26	6,210	56.3	9.2	47.1	73	7.8	12	4	8	30,067	0	0	0	2,112	8	3,573				25	22	3	20,815
27	6,330	56.2	8.9	47.3	74	7.0	11	5	6	30,078	0	0	0	2,112	15	3,588				36	31	5	20,851
28	6,300	56.1	9.1	47.0	74	7.0	19	16	3	30,097	1	0	1	2,113	12	3,600				19	16	3	20,870
29	6,210	56.2	7.5	48.7	78	7.2	14	9	5	30,111	1	1	0	2,114	10	3,610				19	16	3	20,889
30	6,240						6	4	2	30,117	0	0	0	2,114	7	3,617				11	9	2	20,900
31	6,210						0	0	0	30,117	0	0	0	2,114	3	3,620				1	1	0	20,901

Cumulative Adult Spring Chinook Mark Rate: 78.4%

WILLAMETTE FALLS FISHWAY COUNTS

Month August

Year 2016

Date	Hydrological Data						Spring/Fall Chinook									Steelhead							
							Adult			Jack			Mini Jack			Winter			Summer				
	Flow	HW	TW	Diff	Temp	Vis	Daily			Cum.	Daily			Cum.	Daily	Cum.	Daily			Cum.			
							Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Daily	Total	Clipped	Unclip	Total	Clipped	Unclip			
1	6,270	56.4	9.7	46.7	77	7	0	0	0	30,117	0	0	0	2,114	6	3,626				4	4	0	20,901
2	6,150	56.5	13	43.5	77	7.2	0	0	0	30,117	0	0	0	2,114	0	3,626				2	2	0	20,907
3	6,100	55.9	13.4	42.5	77	8.0	1	1	0	30,118	0	0	0	2,114	2	3,628				2	2	0	20,909
4	6,210	55.6	13	42.6	77	8.4	2	2	0	30,120	2	1	1	2,116	2	3,630				3	3	0	20,912
5	6,210	56.0	13.2	42.8	76	9	9	4	5	30,129	7	6	1	2,123	9	3,639				3	2	1	20,915
6	6,150						4	1	3	30,133	1	0	1	2,124	5	3,644				7	7	0	20,922
7	6,150						8	2	6	30,141	2	1	1	2,126	3	3,647				14	10	4	20,936
8	6,240	55.9	13.1	42.8	73	7.3	10	4	6	30,151	3	2	1	2,129	6	3,653				14	12	2	20,950
9	6,240	56.0	13	43.0	73	7.5	22	6	16	30,173	2	2	0	2,131	10	3,663				29	23	6	20,979
10	6,330	56.1	13.4	42.7	72	8.7	7	2	5	30,180	1	1	0	2,132	6	3,669				7	6	1	20,986
11	6,270	55.8	13.4	42.4	72	8.9	16	5	11	30,196	4	2	2	2,136	12	3,681				29	23	6	21,015
12	6,150	56.0	13.4	42.6	72	9.0	33	11	22	30,229	7	1	6	2,143	9	3,690				42	37	5	21,057
13	6,000						47	14	33	30,276	7	2	5	2,150	21	3,711				47	39	8	21,104
14	6,100						28	9	19	30,304	8	2	6	2,158	13	3,724				34	28	6	21,138
15	6,000	55.9	13.2	42.7	72	9.0	13	5	8	30,317	3	1	2	2,161	3	3,727				9	8	1	21,147
16	5,870	55.8	13.3	42.5	73	9.0	7	4	3	7	1	0	1	1	5	3,732				7	7	0	21,154
17	5,840	56.0	13.1	42.9	75	9.2	5	2	3	12	1	0	1	2	6	3,738				3	3	0	21,157
18	5,900	56.1	13.2	42.9	77	9.5	0	0	0	12	0	0	0	2	0	3,738				1	1	0	21,158
19	5,800	56.1	12.8	43.3	78	9.7	0	0	0	12	0	0	0	2	0	3,738				0	0	0	21,158
20	5,700						0	0	0	12	0	0	0	2	0	3,738				-1	-1	0	21,157
21	5,680						1	0	1	13	1	1	0	3	1	3,739				0	0	0	21,157
22	5,700	56.0	12.8	43.2	78	10.0	1	1	0	14	2	2	0	5	1	3,740				0	0	0	21,157
23	5,700	56.0	12.8	43.2	78	10.0	2	0	2	16	1	1	0	6	3	3,743				1	0	1	21,158
24	5,650	55.9	12.5	43.4	76	10.2	3	2	1	19	2	2	0	8	5	3,748				1	1	0	21,159
25	5,800	55.6	12.3	43.3	76	10.2	0	0	0	19	1	1	0	9	0	3,748				5	3	2	21,164
26	5,700	55.6	12.5	43.1	78	10.0	2	1	1	21	1	1	0	10	4	3,752				4	2	2	21,168
27	5,700						3	2	1	24	0	0	0	10	2	3,754				0	0	0	21,168
28	5,700						7	2	5	31	3	0	3	13	2	3,756				4	3	1	21,172
29	5,800	55.8	12.4	43.4	74	9.5	8	3	5	39	1	0	1	14	2	3,758				6	5	1	21,178
30	5,760	55.7	12.5	43.2	74	9.5	4	1	3	43	3	2	1	17	1	3,759				1	1	0	21,179
31	5,760	55.8	12.4	43.4	73	9.8	1	1	0	44	0	0	0	17	0	3,759				0	0	0	21,179

Cumulative Adult Spring Chinook Mark Rate: 78.1%

WILLAMETTE FALLS FISHWAY COUNTS

Month September

Year 2016

Date	Hydrological Data						Fall Chinook									Coho				Steelhead				
							Adult			Jack			Mini Jack			Adult		Jack		Summer				
	Flow	HW	TW	Diff	Temp	Vis	Daily			Cum.	Daily			Cum.	Daily	Cum.	Daily	Cum.	Daily			Cum.		
							Total	Clipped	Unclip		Total	Clipped	Unclip						Total	Clipped	Unclip		Total	Clipped
1	5,800	55.8	12.4	43.4	73	9.5	8	3	5	52	5	0	5	22	1	3,760	1	2	1	3	4	4	0	21,183
2	5,800	55.8	9.7	46.1	72	8.9	28	4	24	80	8	1	7	30	6	3,766	0	2	2	5	19	14	5	21,202
3	5,800						20	9	11	100	5	2	3	35	0	3,766	1	3	6	11	41	37	4	21,243
4	5,870						30	4	26	130	6	0	6	41	3	3,769	1	4	6	17	52	46	6	21,295
5	5,800						15	15		145	1	0	1	42	0	3,769	0	4	3	20	8	7	1	21,303
6	5,800	55.2	9.8	45.4	68	7.8	37	4	33	182	13	4	9	55	3	3,772	14	18	25	45	25	19	6	21,328
7	5,800	55.0	10.1	44.9	68	8.0	32	5	27	214	5	0	5	60	0	3,772	9	27	22	67	43	37	6	21,371
8	6,400	55.0	10.2	44.8	68	8.8	34	2	32	248	8	1	7	68	2	3,774	12	39	30	97	28	25	3	21,399
9	6,500	55.0	9.8	45.2	68	9.0	32	4	28	280	13	2	11	81	9	3,783	9	48	61	158	31	24	7	21,430
10	6,400						27	3	24	307	16	1	15	97	5	3,788	10	58	54	212	13	8	5	21,443
11	6,350						38	4	34	345	19	1	18	116	16	3,804	20	78	123	335	14	12	2	21,457
12	6,350	54.9	10	44.9	68	10.0	18	0	18	363	16	1	15	132	23	3,827	32	110	116	451	6	6	0	21,463
13	6,300	53.9	10.1	43.8	68	10.0	13	1	12	376	1	0	1	133	7	3,834	20	130	56	507	10	8	2	21,473
14	6,150	55.0	10.4	44.6	68	10.2	17	0	17	393	4	0	4	137	18	3,852	19	149	66	573	10	6	4	21,483
15	6,200	55.0	9.9	45.1	68	10.2	8	0	8	401	1	0	1	138	6	3,858	9	158	28	601	0	0	0	21,483
16	6,300	54.9	10.1	44.8	68	10.4	4	0	4	405	0	0	0	138	0	3,858	5	163	17	618	5	2	3	21,488
17	6,200						3	0	3	408	2	1	1	140	0	3,858	4	167	1	619	1	1	0	21,489
18	6,400						25	2	23	433	6	0	6	146	10	3,868	27	194	21	640	37	31	6	21,526
19	6,600	54.9	9.8	45.1	66	8.5	37	2	35	470	6	0	6	152	8	3,876	29	223	42	682	25	17	8	21,551
20	6,600	54.9	10.9	44.0	66	8.6	32	1	31	502	3	1	2	155	9	3,885	21	244	32	714	9	5	4	21,560
21	6,560	54.9	10.8	44.1	64	8.6	38	1	37	540	4	1	3	159	10	3,895	48	292	35	749	7	3	4	21,567
22	6,500	55.0	9.3	45.7	64	8.6	19	1	18	559	3	0	3	162	0	3,895	50	342	31	780	3	3	0	21,570
23	6,500	54.9	10.3	44.6	64	8.8	12	0	12	571	0	0	0	162	3	3,898	18	360	24	804	4	4	0	21,574
24	6,500						73	3	70	644	13	0	13	175	4	3,902	97	457	94	898	17	15	2	21,591
25	6,500						21	0	21	665	4	0	4	179	0	3,902	101	558	93	991	2	1	1	21,593
26	6,500	54.9	10.1	44.8	62	8.8	21	0	21	686	4	2	2	183	0	3,902	131	689	96	1,087	5	2	3	21,598
27	6,400	54.9	9.6	45.3	62	8.8	17	0	17	703	2	0	2	185	0	3,902	323	1,012	186	1,273	3	1	2	21,601
28	6,350	54.9	9.5	45.4	62	9.0	25	1	24	728	3	0	3	188	0	3,902	90	1,102	44	1,317	6	3	3	21,607
29	6,400	54.9	10	44.9	62	9.0	23	1	22	751	5	0	5	193	0	3,902	108	1,210	67	1,384	10	5	5	21,617
30	6,350	54.8	8.9	45.9	62	9.0	25	1	24	776	2	0	2	195	0	3,902	158	1,368	44	1,428	4	2	2	21,621

WILLAMETTE FALLS FISHWAY COUNTS

Month October

Year 2016

Date	Hydrological Data						Fall Chinook									Coho				Steelhead				
							Adult			Jack			Mini Jack			Adult		Jack		Summer				
	Flow	HW	TW	Diff	Temp	Vis	Daily			Cum.	Daily			Cum.	Daily	Cum.	Daily	Cum.	Daily			Cum.		
							Total	Clipped	Unclip	776	Total	Clipped	Unclip	195	Daily	Cum.	Daily	Cum.	Total	Clipped	Unclip	21,621		
1	6,350						38	0	38	814	4	0	4	199	0	3,902	169	1,537	56	1,484	8	4	4	21,629
2	6,500						52	0	52	866	6	0	6	205	0	3,902	190	1,727	78	1,562	8	2	6	21,637
3	6,700	54.9	9.7	45.2	63	9.0	8	0	8	874	0	0	0	205	0	3,902	28	1,755	10	1,572	1	1	0	21,638
4	6,700	54.9	9.9	45.0	63	9	26	0	26	900	2	0	2	207	0	3,902	100	1,855	34	1,606	7	1	6	21,645
5	7,400	54.9	10	44.9	60	8.6	19	0	19	919	1	0	1	208	0	3,902	59	1,914	44	1,650	4	3	1	21,649
6	8,800	54.9	11.5	43.4	60	8.5	8	0	8	927	0	0	0	208	0	3,902	28	1,942	17	1,667	1	1	0	21,650
7	10,400	54.8	13.9	40.9	59	8.3	20	0	20	947	1	0	1	209	0	3,902	60	2,002	27	1,694	11	7	4	21,661
8	12,500						9	0	9	956	3	0	3	212	1	3,903	23	2,025	17	1,711	9	8	1	21,670
9	10,300						13	0	13	969	0	0	0	212	0	3,903	24	2,049	24	1,735	10	5	5	21,680
10	9,300	55.1	14.2	40.9	58	6.5	8	0	8	977	1	0	1	213	0	3,903	21	2,070	26	1,761	6	3	3	21,686
11	10,000	55.2	13.9	41.3	58	6.5	11	0	11	988	1	0	1	214	0	3,903	25	2,095	11	1,772	8	5	3	21,694
12	9,300	55.2	13.8	41.4	57	5.8	20	0	20	1,008	3	0	3	217	0	3,903	51	2,146	27	1,799	1	1	0	21,695
13	9,100	55.1	13	42.1	57	5.6	4	0	4	1,012	1	0	1	218	0	3,903	14	2,160	11	1,810	3	1	2	21,698
14	13,600	55.3	14.6	40.7	58	5.6	10	0	10	1,022	1	0	1	219	0	3,903	43	2,203	10	1,820	7	3	4	21,705
15	21,100						6	0	6	1,028	1	0	1	220	0	3,903	49	2,252	15	1,835	1	0	1	21,706
16	23,800						3	0	3	1,031	0	0	0	220	0	3,903	13	2,265	5	1,840	4	2	2	21,710
17	26,500	57.6	18.7	38.9	55	2.0	2	0	2	1,033	0	0	0	220	0	3,903	23	2,288	6	1,846	8	4	4	21,718
18	35,100	57.8	21.2	36.6	55	2.0	2	0	2	1,035	0	0	0	220	0	3,903	10	2,298	5	1,851	0	0	0	21,718
19	43,600	58.1	22.8	35.3	53	1.0	6	0	6	1,041	2	0	2	222	0	3,903	19	2,317	11	1,862	1	0	1	21,719
20	39,400	58.0	22.3	35.7	52	<1.0	0	0	0	1,041	0	0	0	222	0	3,903	42	2,359	9	1,871	1	1	0	21,720
21	34,900	57.4	20.4	37.0	52	<1.0	0	0	0	1,041	0	0	0	222	0	3,903	46	2,405	15	1,886	4	4	0	21,724
22	40,800		20.8		53	1.5	0	0	0	1,041	0	0	0	222	0	3,903	27	2,432	14	1,900	2	2	0	21,726
23	39,200						0	0	0	1,041	0	0	0	222	0	3,903	16	2,448	6	1,906	0	0	0	21,726
24	34,100						0	0	0	1,041	0	0	0	222	0	3,903	13	2,461	6	1,912	1	1	0	21,727
25	30,800				53	2.5	0	0	0	1,041	0	0	0	222	0	3,903	16	2,477	12	1,924	1	1	0	21,728
26	28,300				53	2.5	0	0	0	1,041	0	0	0	222	0	3,903	11	2,488	14	1,938	1	1	0	21,729
27	38,300				53	2.4	0	0	0	1,041	0	0	0	222	0	3,903	8	2,496	6	1,944	0	0	0	21,729
28	37,900						0	0	0	1,041	0	0	0	222	0	3,903	3	2,499	1	1,945	1	0	1	21,730
29	41,600						0	0	0	1,041	0	0	0	222	0	3,903	2	2,501	0	1,945	0	0	0	21,730
30	39,500						0	0	0	1,041	0	0	0	222	0	3,903	0	2,501	1	1,946	1	0	1	21,731
31	37,300				53	2.5	0	0	0	1,041	0	0	0	222	0	3,903	6	2,507	2	1,948	1	0	1	21,732

WILLAMETTE FALLS FISHWAY COUNTS

Month November

Year 2016

Date	Hydrological Data						Fall Chinook									Coho				Steelhead				
							Adult			Jack			Mini Jack			Adult		Jack		Winter				
	Flow	HW	TW	Diff	Temp	Vis	Daily		Cum.	Daily			Cum.	Daily	Cum.	Daily	Cum.	Daily			Cum.			
							Total	Clipped		Unclip	Total	Clipped						Unclip	Total	Clipped		Unclip		
																	2,507	1,948	Total	Clipped	Unclip	0		
1	40,000				53	2.5											5	2,512	6	1,954	1	0	1	1
2	38,000	57.4	20.5	36.9	54	2.5											0	2,512	3	1,957	1	0	1	2
3	35,400	57.3	20	37.3	54	2.8											1	2,513	3	1,960	1	0	1	3
4	31,000	57.0	19.6	37.4	55	3											2	2,515	0	1,960	-2	0	-2	1
5	23,300																1	2,516	0	1,960	1	0	1	2
6	22,600																8	2,524	10	1,970	5	2	3	7
7	25,000	56.5	18	38.5	53	3.0											8	2,532	5	1,975	6	0	6	13
8	21,900	56.3	17.9	38.4	53	3.0											3	2,535	0	1,975	1	0	1	14
9	19,600	56.2	17.2	39.0	53	2.8											3	2,538	0	1,975	-1	0	-1	13
10	18,500	56.3	17.8	38.5	53	2.8											1	2,539	5	1,980	0	0	0	13
11	17,700																0	2,539	2	1,982	1	0	1	14
12	17,200																0	2,539	0	1,982	0	0	0	14
13	17,000																2	2,541	0	1,982	0	0	0	14
14	16,700	55.1	16	39.1	53	4.3											0	2,541	0	1,982	0	0	0	14
15	16,700	55.6	16.3	39.3	53	4.3											3	2,544	1	1,983	1	0	1	15
16	34,800	57.2	18.5	38.7	52	3.8											2	2,546	0	1,983	1	0	1	16
17	35,700	57.7	20.5	37.2	52	2.0											4	2,550	1	1,984	1	0	1	17
18	33,400	57.5	20.5	37.0	52	2.0											1	2,551	4	1,988	0	0	0	17
19	30,200																2	2,553	0	1,988	1	0	1	18
20	29,500																1	2,554	0	1,988	4	0	4	22
21	28,100	56.8	18.9	37.9	50	2.2											1	2,555	1	1,989	1	0	1	23
22	28,600	56.7	18.8	37.9	50	2.5											0	2,555	0	1,989	1	1	0	24
23	30,600	56.9	18.7	38.2	50	2.5											0	2,555	0	1,989	0	0	0	24
24	35,800																2	2,557	0	1,989	1	0	1	25
25	55,600																0	2,557	1	1,990	0	0	0	25
26	69,300																0	2,557	1	1,991	0	0	0	25
27	65,800																0	2,557	0	1,991	0	0	0	25
28	56,400	59.7	27.8	31.9	48	<1.0											0	2,557	0	1,991	0	0	0	25
29	52,400	59.2	25.6	33.6	48	<1.0											0	2,557	0	1,991	2	1	1	27
30	52,800	58.8	24.7	34.1	48	<1.0											1	2,558	0	1,991	2	0	2	29

WILLAMETTE FALLS FISHWAY COUNTS

Month December

Year 2016

Date	Hydrological Data						Fall Chinook									Coho				Steelhead			
							Adult			Jack			Mini Jack			Adult		Jack		Winter			Cum.
	Flow	HW	TW	Diff	Temp	Vis	Daily		Cum.	Daily		Cum.	Daily	Cum.	Daily	Cum.	Daily		Cum.				
	Total	Clipped	Unclip	Total	Clipped	Unclip	Total	Clipped		Unclip	Daily						Cum.	Daily		Cum.	Total	Clipped	Unclip
1	49,400	58.6	23.9	34.7	48	1								0	2,558	0	1,991	3	0	3	32		
2	45,900	58.3	23.9	34.4	48	1.0								0	2,558	0	1,991	1	0	1	33		
3														0	2,558	0	1,991	3	0	3	36		
4														0	2,558	0	1,991	7	0	7	43		
5	41,200													1	2,559	0	1,991	0	0	0	43		
6	44,100													0	2,559	0	1,991	2	0	2	45		
7	42,000													0	2,559	0	1,991	3	0	3	48		
8	38,000													0	2,559	0	1,991	1	0	1	49		
9	37,700													0	2,559	0	1,991	0	0	0	49		
10	44,300													0	2,559	0	1,991	0	0	0	49		
11	59,300													0	2,559	0	1,991	3	0	3	52		
12	66,200	59.3	25.4	33.9	43	<1.0								0	2,559	0	1,991	1	0	1	53		
13	64,000	59.4	26.7	32.7	42	<1.0								0	2,559	0	1,991	0	0	0	53		
14	55,300													0	2,559	0	1,991	1	0	1	54		
15	50,000													0	2,559	0	1,991	3	0	3	57		
16	58,300	58.4	23.1	35.3	40	1.0								0	2,559	0	1,991	1	0	1	58		
17	59,800													0	2,559	0	1,991	0	0	0	58		
18	52,400													0	2,559	0	1,991	1	0	1	59		
19	46,800	57.9	22.2	35.7	38	<1.0								0	2,559	0	1,991	0	0	0	59		
20	48,800	57.9	21.5	36.4	38	1.2								0	2,559	0	1,991	3	0	3	62		
21	68,100	59.0	24.3	34.7	38	1.2								0	2,559	0	1,991	3	0	3	65		
22	66,600	59.4	26.6	32.8	40	1.5								0	2,559	0	1,991	1	0	1	66		
23	57,100													0	2,559	0	1,991	1	0	1	67		
24	51,500													0	2,559	0	1,991	11	0	11	78		
25	47,100													0	2,559	0	1,991	17	0	17	95		
26	41,000													0	2,559	0	1,991	8	0	8	103		
27	36,500	57.3	20.1	37.2	40	2.5								0	2,559	0	1,991	7	0	7	110		
28	36,700	57.3	19.7	37.6	40	2.5								0	2,559	0	1,991	8	0	8	118		
29	36,500	57.4	20.3	37.1	40	2.5								0	2,559	0	1,991	4	0	4	122		
30	33,000	57.1	19.8	37.3	38	2.8								0	2,559	0	1,991	5	0	5	127		
31	31,300													0	2,559	0	1,991	4	0	4	131		