

Pacific States Marine Fisheries Commission

John Day Dam Condition Monitoring Weekly Report, #22-7

Report Period: 5/14 – 5/20, 2022

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SECTION 1. River Flow and Sampling Results

	Mean				
	Min	Max	Current	Last Week	2021
A. River Flow	237.2	299.7	259.6	240.0	217.3
B. Powerhouse 1	73.2	159.9	114.6	124.9	93.9
C. Powerhouse 2	0.0	0.0	0.0	0.0	0.0
D. Spill (kcfs)	75.8	180.8	143.9	114.0	122.2
% of River Flow	32.0	70.8	55.3	47.5	56.0
E. Water Temp *	54.2	55.3	54.6	52.9	57.4
F. % Saturation *	109.3	115.0	112.8	106.8	105.7

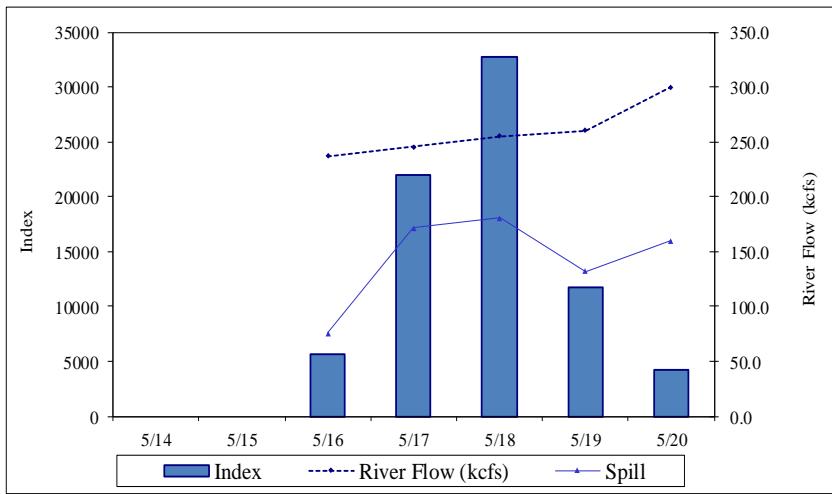
* TDG data from USGS forebay sensor, water temp from lab and USGS sensor.

% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	51.9%	55.6%
SUBYEARLING CHINOOK	0.4%	0.2%
CHINOOK FRY	0.0%	0.0%
UNCLIPPED STEELHEAD	2.6%	2.2%
CLIPPED STEELHEAD	11.7%	25.3%
COHO	4.8%	9.0%
COHO FRY	0.0%	0.0%
SOCKEYE	28.7%	7.6%

YEARLING CHINOOK						SUBYEARLING CHINOOK						COHO					
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	
5/14																	
5/15																	
5/16	4.0%	99	2.0	0.0	2,475	3,648	1	0.0	0.0	25	37	7	0.0	0.0	175	258	
5/17	2.5%	99	3.0	0.0	3,825	12,752	0	0.0	0.0	0	0	15	0.0	0.0	550	1,834	
5/18	1.8%	81	1.2	0.0	4,880	16,933	0	0.0	0.0	0	0	8	0.0	0.0	330	1,145	
5/19	3.4%	64	3.1	0.0	2,075	4,228	0	0.0	0.0	0	0	7	0.0	0.0	275	560	
5/20	9.0%	102	2.9	0.0	1,140	2,448	2	0.0	0.0	20	43	4	0.0	0.0	40	86	
Weekly		445	2.5	0.0	14,395	40,010	3	0.0	0.0	45	80	41	0.0	0.0	1,370	3,883	
Season to date		3,707	2.2	0.2	27,249	61,373	18	0.0	0.0	90	154	306	2.3	0.0	2,835	6,525	

UNCLIPPED						STEELHEAD						CLIPPED						SOCKEYE			
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
5/14																					
5/15																					
5/16	4.0%	1	0.0	0.0	25	37	19	5.3	0.0	475	700	26	0.0	0.0	650	958					
5/17	2.5%	3	0.0	0.0	125	417	31	9.7	0.0	1,350	4,501	15	0.0	0.0	750	2,500					
5/18	1.8%	6	0.0	0.0	390	1,353	18	5.6	0.0	980	3,401	54	1.9	0.0	2,850	9,889					
5/19	3.4%	6	0.0	0.0	200	408	19	0.0	0.0	525	1,070	102	2.0	0.0	2,700	5,502					
5/20	9.0%	6	0.0	0.0	100	215	13	7.7	0.0	170	365	49	4.1	0.0	490	1,052					
Weekly		22	0.0	0.0	840	2,429	100	6.0	0.0	3,500	10,036	246	2.0	0.0	7,440	19,902					
Season to date		156	1.3	0.0	1,391	3,345	859	6.2	0.2	7,453	17,113	325	2.2	0.3	8,131	21,219					

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
5/14						
5/15						
5/16	4.0%	153	2.0	0.0	3,825	5,638
5/17	2.5%	163	3.7	0.0	6,600	22,003
5/18	1.8%	167	1.8	0.0	9,430	32,722
5/19	3.4%	198	2.0	0.0	5,775	11,768
5/20	9.0%	176	3.4	0.0	1,960	4,209
Weekly		857	2.6	0.0	27,590	76,339
Season to date		5,371	2.8	0.2	47,149	109,729



Notes: Condition percentages are calculated from sample numbers.
Subyearling chinook and coho include fry.

Pacific Lamprey				Western Brook					
Macrophthalmia			Ammocoetes			Ammocoetes			
End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
5/14	0	0.0	0	0	0.0	0	0	0	0
5/15	0	0.0	0	0	0.0	0	0	0	0
5/16	0	0.0	0	0	0.0	0	0	0	0
5/17	0	0.0	0	0	0.0	0	0	0	0
5/18	0	0.0	0	0	0.0	0	0	0	0
5/19	0	0.0	0	0	0.0	0	0	0	0
5/20	0	0.0	0	0	0.0	0	0	0	0
Weekly	0	0.0	0	0	0.0	0	0	0	0
Season to date	33	3.0	136	1	0.0	2	0	0	0

SECTION 2. Smolt and Lamprey Condition Monitoring Summary

SECTION 3. Incidental Summary

	Bass Largemouth	Bass Smallmouth	Bluegill and Pumpkinseed	Bullhead	Carp	Catfish, Channel	Chiselmouth	Crappie species
This Week	0	0	0	0	0	0	0	0
Season to Date	0	2	6	0	1	0	0	4
	Dace - Longnose	Dace - Speckled	Chinook Jack	Kokanee	Lamprey Adult	Northern Pikeminnow	Peamouth	Perch Yellow
This Week	0	0	0	0	0	0	0	16
Season to Date	0	0	0	0	0	0	0	232
	Redside Shiner	Sand Roller	Sculpin species	Stickleback 3 spine	Sucker species	Shad Adult	Shad Juvenile	Sturgeon White
This Week	0	0	0	0	0	0	0	0
Season to Date	0	0	8	5	0	0	0	0
	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Goldfish
This Week	0	0	0	2	0	1	0	0
Season to Date	0	0	0	13	0	54	0	1

SECTION 4. Facility Operations

Condition Monitoring at John Day Dam is scheduled to sample Monday through Friday until early June. Samples will be taken from the Juvenile Bypass System between approximately 0700 and 1300 hrs. Collection, Index, and River flow estimates and averages are for the sample period only. The Condition Exams will target approximately 100 of the predominant species of out-migrant, currently Yearling spring Chinook and sockeye smolts. Debris at the separator bars and in the sample holding tank was low for week and consisted of sticks, plastic, and pieces of terrestrial vegetation.

SECTION 5. Research

No research activity occurred during this report period.

SECTION 6. Pictures



Yearling spring Chinook (*Oncorhynchus tshawytscha*) smolt, approximately 155 mm fork length, showing injury to the operculum and side, sampled on 17 May, 2022 at the John Day Dam Smolt Facility.



Detail of injury from specimen above.