

Pacific States Marine Fisheries Commission

John Day Dam Condition Monitoring Weekly Report, #22-5

Report Period: 4/30 – 5/6, 2022

Project Leader: Rick Martinson

Prepared By: Gregory Kovalchuk and Aaron Young



SECTION 1. River Flow and Sampling Results

	Mean				
	Min	Max	Current	Last Week	2021
A. River Flow	147.7	200.9	166.7	139.4	206.0
B. Powerhouse 1	81.3	135.7	105.9	79.6	86.4
C. Powerhouse 2	0.0	0.0	0.0	0.0	0.0
D. Spill (kcfs)	50.1	67.5	59.7	58.5	118.1
% of River Flow	31.9	44.1	36.1	41.6	57.1
E. Water Temp *	51.6	53.9	52.7	50.1	55.1
F. % Saturation *	107.8	112.0	109.7	110.3	105.6

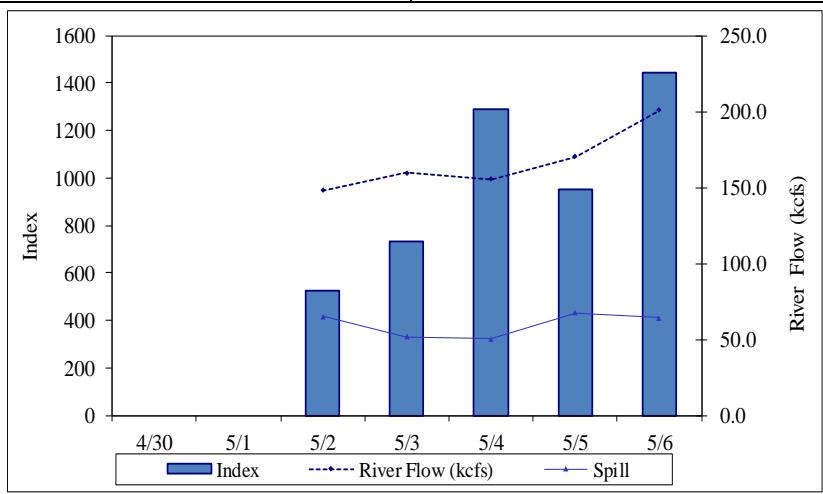
* TDG data from USGS forebay sensor, water temp from lab and USGS sensor.

% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	58.6%	74.2%
SUBYEARLING CHINOOK	0.6%	0.0%
CHINOOK FRY	0.5%	0.3%
UNCLIPPED STEELHEAD	3.8%	5.0%
CLIPPED STEELHEAD	18.9%	15.3%
COHO	16.9%	4.9%
COHO FRY	0.0%	0.0%
SOCKEYE	0.7%	0.3%

YEARLING CHINOOK						SUBYEARLING CHINOOK						COHO					
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	
4/30																	
5/1																	
5/2	56.5%	96	1.1	1.0	176	317	5	0.0	0.0	8	14	18	0.0	0.0	29	52	
5/3	33.9%	111	3.6	0.0	324	480	1	0.0	0.0	2	3	24	0.0	0.0	70	104	
5/4	18.5%	93	4.3	0.0	500	740	0	0.0	0.0	0	0	35	0.0	0.0	155	230	
5/5	28.6%	98	2.0	0.0	344	573	0	0.0	0.0	0	0	35	5.7	0.0	114	190	
5/6	20.0%	101	2.0	0.0	505	744	3	0.0	0.0	15	22	32	0.0	0.0	160	236	
Weekly		499	2.6	0.2	1,849	2,854	9	0.0	0.0	25	39	144	1.4	0.0	528	811	
Season to date		2,742	2.1	0.2	6,915	9,504	13	0.0	0.0	31	50	181	1.7	0.0	593	922	

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		
4/30																							
5/1																							
5/2	56.5%	9	0.0	0.0	14	25	34	11.8	0.0	60	108	2	0.0	0.0	4	7							
5/3	33.9%	4	0.0	0.0	14	21	27	3.7	0.0	82	122	0	0.0	0.0	0	0							
5/4	18.5%	4	0.0	0.0	27	40	29	3.4	0.0	190	281	0	0.0	0.0	0	0							
5/5	28.6%	3	0.0	0.0	12	20	27	7.4	0.0	100	167	0	0.0	0.0	0	0							
5/6	20.0%	12	1.0	0.0	60	88	44	2.3	0.0	220	324	4	0.0	0.0	20	29							
Weekly		32	3.1	0.0	127	194	161	5.6	0.0	652	1,002	6	0.0	0.0	24	37							
Season to date		113	1.8	0.0	293	426	522	7.7	0.2	1,374	2,034	8	0.0	0.0	28	44							

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
4/30	0.0%					
5/1	0.0%					
5/2	56.5%	164	3.1	0.6	291	524
5/3	33.9%	167	3.0	0.0	492	729
5/4	18.5%	161	3.1	0.0	872	1,291
5/5	28.6%	163	3.7	0.0	570	949
5/6	20.0%	196	2.0	0.0	980	1,443
Weekly		851	2.9	0.1	3,205	4,937
Season to date		3,579	2.9	0.2	9,234	12,980



Notes: Condition percentages are calculated from sample numbers.

Subyearling chinook and coho include fry.

Pacific Lamprey				Western Brook Lamprey					
Macrophthalmia			Ammocoetes			Ammocoetes			
End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
4/30									
5/1									
5/2	1	0.0	1	0	0.0	0	0	0	0
5/3	0	0.0	0	0	0.0	0	0	0	0
5/4	0	0.0	0	0	0.0	0	0	0	0
5/5	0	0.0	0	0	0.0	0	0	0	0
5/6	1	0.0	5	0	0.0	0	0	0	0
Weekly	2	0.0	6	0	0.0	0	0	0	0
Season to date	23	0.0	55	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	1	1	0	0	0	0	0
Season to Date	0	2	3	0	0	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	19
Season to Date	0	0	0	0	0	0	0	197

	Redside Shiner	Sand Roller	Sculpin species	Stickleback 3 spine	Sucker species	Shad Adult	Shad Juvenile	Sturgeon White
This Week	0	0	0	2	0	0	0	0
Season to Date	0	0	7	5	0	0	0	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	4	0	1	0	0
Season to Date	0	0	0	9	0	52	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 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

Genetic fin clip samples were taken from 2 Pacific Lamprey macrourhthalmia for the Columbia River Inter-Tribal Fish Commission during this report period.

SECTION 6. Pictures



Coho salmon smolt (*Oncorhynchus kisutch*), approximately 165mm fork length, showing hemorrhaging in the eye, sampled on 6 May, 2022 at the John Day Dam Smolt Facility.



Coho smolt eye hemorrhage detail from specimen above.