

Pacific States Marine Fisheries Commission

John Day Dam Condition Monitoring Weekly Report, #23-20

Report Period: 8/12 – 8/18, 2023

Project Manager: Allan Martin

Prepared By: Gregory Kovalchuk



SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	
				2022	
A. River Flow	119.8	120.1	120.0	122.6	178.4
B. Powerhouse 1	76.4	96.8	86.6	78.6	156.0
C. Spill (kcfs)	21.1	42.1	31.6	43.1	21.4
% of River Flow	17.6	35.1	26.3	35.1	12.1
D. Water Temp *	72.5	72.6	72.6	72.1	71.6
E. % Saturation *	107.1	107.7	107.4	105.2	107.6

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

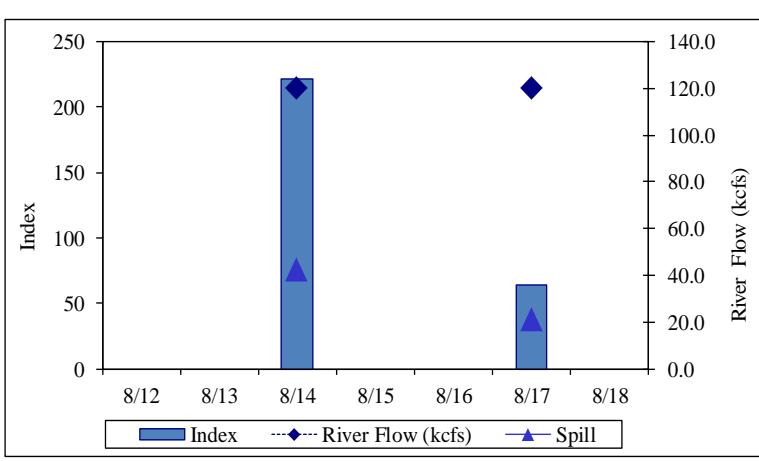
% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	0.6%	0.0%
SUBYEARLING CHINOOK	98.7%	100.0%
CHINOOK FRY	0.0%	0.0%
UNCLIPPED STEELHEAD	0.0%	0.0%
CLIPPED STEELHEAD	0.0%	0.0%
COHO	0.0%	0.0%
COHO FRY	0.0%	0.0%
SOCKEYE	0.6%	0.0%

YEARLING CHINOOK						SUBYEARLING CHINOOK						COHO					
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	
8/12																	
8/13																	
8/14	71.3%	1	0.0	0.0	2	3	100	2.0	0.0	139	216	0	0.0	0.0	0	0	0
8/15																	
8/16																	
8/17	100.0%	0	0.0	0.0	0	0	53	2.0	3.8	53	65	0	0.0	0.0	0	0	0
8/18																	
Weekly		1	0.0	0.0	2	3	153	2.0	1.3	192	280	0	0.0	0.0	0	0	0
Season to date		3,888	2.2	0.2	84,181	214,016	3,657	1.3	0.2	54,504	144,075	284	4.9	0.0	8,145	22,040	

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		
8/12																							
8/13																							
8/14	71.3%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	1	0.0	0.0	2	3							
8/15																							
8/16																							
8/17	100.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	
8/18																							
Weekly		0	0.0	0.0	0	0	0	0.0	0.0	0	0	1	0.0	0.0	2	3							
Season to date		344	3.5	0.0	10,294	25,917	958	4.0	0.0	38,693	97,930	140	5.7	0.0	4,698	11,560							

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
8/12						
8/13						
8/14	71.3%	102	2.0	0.0	143	222
8/15						
8/16						
8/17	100.0%	53	2.0	3.8	53	65
8/18						
Weekly		155	2.0	1.3	196	286
Season to date		9,271	2.2	0.2	200,515	515,538

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
8/12									
8/13									
8/14	0	0.0	0	0	0.0	0	0	0	0
8/15									
8/16									
8/17	0	0.0	0	0	0.0	0	0	0	0
8/18									
Weekly	0	0.0	0	0	0.0	0	0	0	0
Season to date	254	0.0	3,248	109	0.0	578	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	0	0	0	0	0	0
Season to Date	0	33	6	0	4	1	0	7

	Dace - Longnose	Dace - Speckled	Chinook Jack	Kokanee	Lamprey Adult	Northern Pikeminnow	Peamouth	Perch Yellow
This Week	0	0	0	0	0	0	0	5
Season to Date	0	0	0	0	2	1	0	81

	Redside Shiner	Sand Roller	Sculpin species	Stickleback 3 spine	Sucker species	Shad Adult	Shad Juvenile	Sturgeon White
This Week	0	0	7	0	0	2	43,598	0
Season to Date	0	0	37	4	2	5	123,483	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	29	0	1	0	0
Season to Date	0	0	0	134	4	185	0	4

SECTION 4. Facility Operations

Condition Monitoring at John Day Dam was scheduled to sample Monday, Wednesday, and Friday until the Columbia River water temperature averages 70 degrees F., which occurred on July 6. We will now sample Mondays and Thursdays until the Columbia River water temperature averages 69.5 degrees F, at which point we will go back to Monday, Wednesday, and Friday sampling. Samples will be taken from the Juvenile Bypass System between 0700 and 1300 hrs. and the Condition Exams will target approximately 100 of the predominant species of out-migrant, which is currently Subyearling Fall Chinook which were 98.7% of the sample this week. Collection, Index, and River flow estimates and averages are for the sample period only. Debris at the separator bars continued to be very low for the week and consisted of a few sticks, soft debris such as aquatic macrophytes and bryozoans, and adult American shad.

SECTION 5. Research

No juvenile Pacific Lamprey ammocoetes or macropthalmia were sampled during this report period.

SECTION 6. Pictures



This is a female Siberian prawn (*Exopalaemon modestus*), approximately 55 mm total length, carrying a few hundred yellowish eggs, sampled at the John Day Smolt Facility on August 17, 2023.



This picture illustrates some natural variability in the color and size of some juvenile Pacific Lamprey macrophthalmia and ammocoetes (*Entosphenus tridentatus*). These were sampled at the John Day Dam Smolt Facility on April 17, 2008.