

Pacific States Marine Fisheries Commission

John Day Dam Condition Monitoring Weekly Report, #22-23

Report Period: 9/3 – 9/9, 2022

Program manager: Allan Martin

Prepared By: Gregory Kovalchuk and Aaron Young



SECTION 1. River Flow and Sampling Results

	Mean				
	Min	Max	Current	Last Week	2021
A. River Flow	76.0	136.6	110.2	115.4	87.5
B. Powerhouse 1	73.3	133.1	106.6	97.9	84.5
C. Spill (kcf/s)	1.5	4.7	2.4	16.5	1.6
% of River Flow	1.2	4.0	2.2	14.3	1.9
D. Water Temp *	71.4	71.5	71.5	71.9	69.0
E. % Saturation *	100.8	100.9	100.9	103.1	104.8

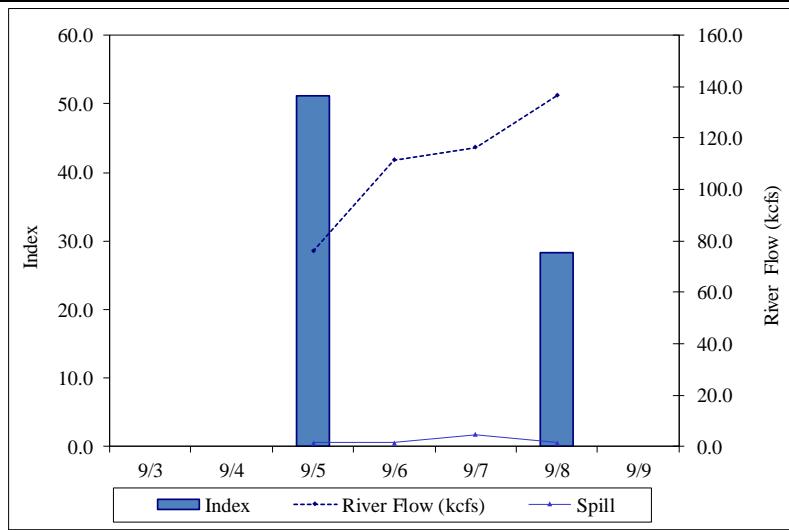
* TDG and water temp data from USGS forebay sensors.

% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	0.0%	0.0%
SUBYEARLING CHINOOK	100.0%	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	0.0%	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	
9/3																	
9/4																	
9/5	50.0%	0	0.0	0.0	0	0	25	0.0	0.0	50	51	0	0.0	0.0	0	0	
9/6																	
9/7																	
9/8	50.0%	0	0.0	0.0	0	0	14	0.0	0.0	28	28	0	0.0	0.0	0	0	
9/9																	
Weekly		0	0.0	0.0	0	0	39	0.0	0.0	78	79	0	0.0	0.0	0	0	
Season to date		4,676	2.3	0.1	47,784	114,702	4,190	1.5	0.1	96,132	168,908	484	1.9	0.2	5,780	13,654	

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		
9/3																							
9/4																							
9/5	50.0%	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		
9/6																							
9/7																							
9/8	50.0%	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		
9/9																							
Weekly		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		
Season to date		333	2.1	0.0	4,386	11,063	1,123	6.5	0.2	12,088	29,055	1,142	3.2	0.2	24,151	60,007							

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
9/3						
9/4						
9/5	50.0%	25	0.0	0.0	50	51
9/6						
9/7						
9/8	50.0%	14	0.0	0.0	28	28
9/9						
Weekly		39	0.0	0.0	78	79
Season to date		11,948	2.5	0.1	190,321	397,388



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	
9/3										
9/4										
9/5	0	0.0	0	0	0.0	0	0	0	0	0
9/6										
9/7										
9/8	0	0.0	0	0	0.0	0	0	0	0	0
9/9										
Weekly	0	0.0	0	0	0.0	0	0	0	0	0
Season to date	320	0.3	4,161	47	0.0	533	0	0	0	0

SECTION 2. Smolt and Lamprey Condition Monitoring Summary

Subyearling	DESCALING				INJURY					Other Conditions			
Chinook	SAMPLE #	3-19%	>20%	Pred. Desc.	BODY	EYE	HEAD	OP	FIN	POPEYE	PINK FIN	Fin Discolor.	FIN HEM
This Week	39	2.6%							12.8%				12.8%
Last Week	89	4.5%						1.1%		4.5%			9.0%

	DISEASE						PREDATION				
	SAMPLE #	Columnaris	FUNGUS	BKD	PARASITES	DEFORMITY	EYE HEM	BIRD	FISH	LAMPREY	OTH
This Week	39				15.4%			2.6%	2.6%		
Last Week	89				2.2%				2.2%		

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	1	38	11	1	3	1	0	6

	Dace - Longnose	Dace - Speckled	Mini- Jack/Jack Chinook	Goldfish	Lamprey Adult	Northern Pikeminnow	Peanouth	Perch Yellow
This Week	0	0	0	0	0	0	0	0
Season to Date	0	0	3	1	1	1	0	362

	Redside Shiner	Sand Roller	Sculpin species	Stickleback 3 spine	Sucker species	Shad Adult	Shad Juvenile	Sturgeon White
This Week	0	0	0	0	0	3	47,807	0
Season to Date	0	0	9	6	1	16	186,901	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	3	0	1	0	0
Season to Date	0	0	0	38	6	123	0	5

SECTION 4. Facility Operations

Condition Monitoring at John Day Dam is adhering to the warm river water temperature sampling mode. Samples will continue to target 100 of the predominant out-migrant smolt, currently Subyearling Fall Chinook (100% composition), on Mondays and Thursdays until daily average river water temperatures fall below 69.5 deg. F. Samples are taken from the Juvenile Bypass System between approximately 0700 and 1300 hrs and the Collection, Index, and River flow estimates and averages are for the sample period only. Debris at the separator bars and in the sample holding tank was moderate for the week and consisted mostly of aquatic vegetation, bryozoans, a few sticks, plastic, and some terrestrial vegetation. Juvenile American shad juvenile mortalities were quite low the last few weeks averaging less than 1%, but increased to approximately 28% during the last sample period of the week on 8 September. No obvious cause of the mortality has been found and project inspections did not show any irregularities or problems so far.

SECTION 5. Research

No research activity occurred during this report period.

SECTION 6. Pictures



Juvenile American shad (*Alosa sapidissima*), approximately 75 mm fork length, similar to some specimens sampled on 8 September, 2022, showing some descaling and fin hemorrhaging.



Juvenile smallmouth bass (*Micropterus dolomieu*), approximately 55 mm total length, sampled at the John Day Dam Smolt Facility on 2 September, 2022. Please note that this specimen has air bubbles on the fins which was caused by the photography process and not from Gas Bubble Trauma.