

# Pacific States Marine Fisheries Commission

## John Day Dam Condition Monitoring Weekly Report, #22-17

Report Period: 7/23 – 7/29, 2022

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### SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2021
A. River Flow	165.3	196.1	178.1	208.2	121.2
B. Powerhouse 1	107.1	127.3	115.2	134.1	77.8
C. Spill (kcfs)	57.4	68.0	61.8	73.0	42.2
% of River Flow	34.7	34.7	34.7	35.0	34.7
D. Water Temp *	68.6	69.7	69.2	67.5	71.7
E. % Saturation *	109.8	111.7	110.8	109.1	104.7

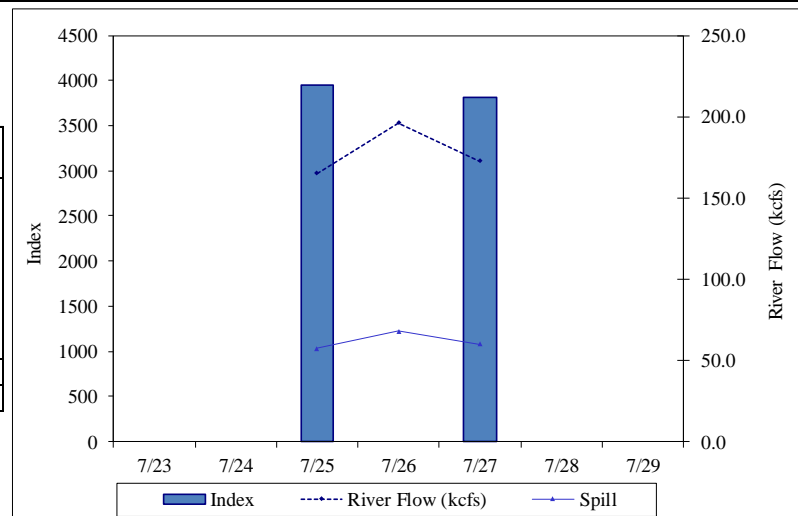
\* TDG and Water temp data from USGS forebay sensor.

% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	0.0%	0.0%
SUBYEARLING CHINOOK	100.0%	99.7%
CHINOOK FRY	0.0%	0.0%
UNCLIPPED STEELHEAD	0.0%	0.0%
CLIPPED STEELHEAD	0.0%	0.0%
COHO	0.0%	0.3%
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
7/23																
7/24																
7/25	4.0%	0	0.0	0.0	0	0	103	1.0	1.0	2,575	3,955	0	0.0	0.0	0	0
7/26																
7/27	4.0%	0	0.0	0.0	0	0	99	1.0	0.0	2,475	3,808	0	0.0	0.0	0	0
7/28																
7/29																
Weekly		0	0.0	0.0	0	0	202	1.0	0.5	5,050	7,763	0	0.0	0.0	0	0
Season to date		4,676	2.3	0.1	47,784	114,702	3,317	1.5	0.1	89,320	158,980	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					
7/23	4.0%																				
7/24		0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0					
7/25																					
7/26																					
7/27	4.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0					
7/28																					
7/29																					
Weekly		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	1,141	3.2	0.2	24,141	59,991					

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
7/23						
7/24						
7/25	4.0%	103	1.0	1.0	2,575	3,955
7/26						
7/27	4.0%	99	1.0	0.0	2,475	3,808
7/28						
7/29						
Weekly		202	1.0	0.5	5,050	7,763
Season to date		11,074	2.6	0.1	183,499	387,445



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

## Western Brook

	Macrophthalmia			Ammocoetes			Ammocoetes		
End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
7/23									
7/24									
7/25	0	0.0	0	0	0.0	0	0	0	0
7/26									
7/27	0	0.0	0	0	0.0	0	0	0	0
7/28									
7/29									
Weekly	0	0.0	0	0	0.0	0	0	0	0
Season to date	320	0.3	4,161	40	0.0	482	0	0	0

## **SECTION 2. Smolt and Lamprey Condition Monitoring Summary**

Subyearling Chinook This Week Last Week		DESCALING			INJURY					Other Conditions			
	SAMPLE #	3-19%	>20%	Pred. Desc.	BODY	EYE	HEAD	OP	FIN	POPEYE	PINK FIN	Fin Discolor.	FIN HEM
	201	4.5%	0.5%	0.5%	1.0%				3.0%				5.5%
	320	4.1%	0.6%	1.6%	2.2%			0.3%	1.6%				3.8%

This Week Last Week		DISEASE							PREDATION			
	SAMPLE #	Columnaris	FUNGUS	BKD	PARASITES	DEFORMITY	EYE	HEM	BIRD	FISH	LAMPREY	OTH
	201					24.4%			1.0%	0.5%		
	320		0.3%	0.9%	28.1%	0.3%			1.6%	3.1%		

			INJURY					DISEASE and OTHER CONDITIONS					PREDATION	
MP- Macrophthalmia	End Date	SAMPLE #	BODY	EYE	HEAD	FIN	POPEYE	FIN HEM	Columnaris	FUNGUS	DEFORMITY	EYE HEM.	BIRD	FISH
This Week	7/29	0												
Last Week	7/22	0												
AP - Ammocoetes		SAMPLE #												
This Week	7/29	0												
Last Week	7/22	0												

### **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	23	11	1	2	1	0	6

	Dace - Longnose	Dace - Speckled	Chinook Jack	Kokanee	Lamprey Adult	Northern Pikeminnow	Peamouth	Perch Yellow
This Week	0	0	0	0	0	0	0	1
Season to Date	0	0	1	0	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	0	1	0
Season to Date	0	0	9	6	1	3	1	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	0	0	0	0	0
Season to Date	0	0	0	31	6	122	0	5

### **SECTION 4. Facility Operations**

Condition Monitoring at John Day Dam has transitioned into the warm river water temperature sampling mode. This week, samples occurred Monday and Wednesday, whereas daily average forebay temps exceeded 70 deg. F. on 28 July. Samples will continue to target 100 of the predominant out-migrant smolt 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. Condition Exams targeted approximately 100 of the predominant species of out-migrant, currently Subyearling Fall Chinook (100.0% composition). Debris at the separator bars and in the sample holding tank was low for the week and consisted of sticks, plastic, and pieces of terrestrial and aquatic vegetation.

### **SECTION 5. Research**

No research activity occurred during this report period.

## SECTION 6. Pictures



Adult Yellow Perch (*Perca flavescens*), approximately 235 mm fork length, similar to one sampled at the John Day Dam Smolt Facility on 27 July, 2022.



Juvenile Northern Pikeminnow (*Ptychocheilus oregonensis*), approximately 75 mm fork length, similar to one sampled at the John Day Dam, Smolt Facility on 22 July, 2022.