

# Pacific States Marine Fisheries Commission

## John Day Dam Condition Monitoring Weekly Report, #23-18

Report Period: 7/29 – 8/4, 2023

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### SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2022
A. River Flow	106.8	132.4	119.6	136.0	169.3
B. Powerhouse 1	68.1	84.3	76.2	87.3	109.0
C.. Spill (kcfs)	37.0	47.3	42.2	47.6	59.5
% of River Flow	34.6	35.7	35.2	35.0	35.1
D. Water Temp *	71.8	71.9	71.9	72.1	71.7
E. % Saturation *	103.2	106.8	105.0	105.2	110.3

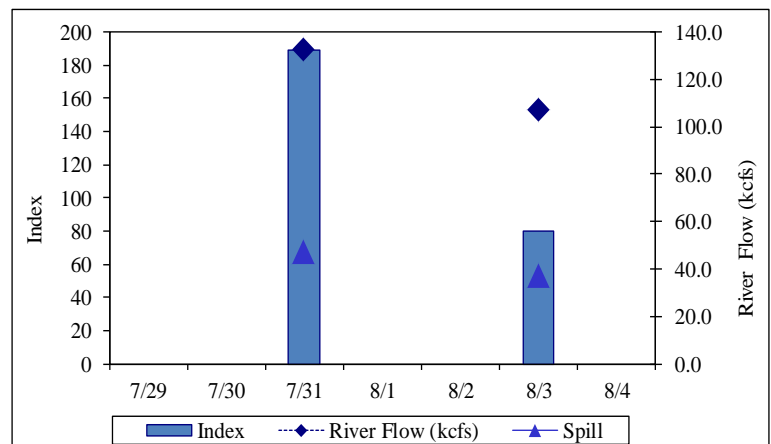
\* TDG data from USGS forebay sensor, water temp from lab and USGS sensor.

% SAMPLE COMPOSITION	This Week Last Week	
YEARLING CHINOOK	0.0%	0.0%
SUBYEARLING CHINOOK	99.3%	99.6%
CHINOOK FRY	0.0%	0.0%
UNCLIPPED STEELHEAD	0.0%	0.0%
CLIPPED STEELHEAD	0.0%	0.0%
COHO	0.7%	0.0%
COHO FRY	0.0%	0.0%
SOCKEYE	0.0%	0.4%

End Date	Sample Rate	YEARLING CHINOOK					SUBYEARLING CHINOOK					COHO				
		# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
7/29	80.2%															
7/30																
7/31		0	0.0	0.0	0	0	96	3.1	0.0	120	187	1	0.0	0.0	1	2
8/1																
8/2	90.6%															
8/3		0	0.0	0.0	0	0	47	2.1	0.0	52	80	0	0.0	0.0	0	0
8/4																
Weekly		0	0.0	0.0	0	0	143	2.8	0.0	172	268	1	0.0	0.0	1	2
Season to date		3,887	2.2	0.2	84,179	214,013	3,336	1.3	0.1	54,134	143,519	284	4.9	0.0	8,145	22,040

End Date	Sample Rate	UNCLIPPED STEELHEAD					CLIPPED STEELHEAD					SOCKEYE				
		# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
7/29	80.2%															
7/30																
7/31		0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
8/1																
8/2	90.6%															
8/3		0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
8/4																
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		344	3.5	0.0	10,294	25,917	958	4.0	0.0	38,693	97,930	139	5.8	0.0	4,696	11,557

End Date	Sample Rate	TOTAL				
		# Smpld	% Desc	% Mort	# Coll	Index
7/29	80.2%					
7/30						
7/31		97	3.1	0.0	121	189
8/1						
8/2	90.6%					
8/3		47	2.1	0.0	52	80
8/4						
Weekly		144	2.8	0.0	173	269
Season to date		8,948	2.2	0.1	200,141	514,976



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
7/29									
7/30									
7/31	0	0.0	0	0	0.0	0	0	0	0
8/1									
8/2									
8/3	1	0.0	1	0	0.0	0	0	0	0
8/4									
Weekly	1	0.0	1	0	0.0	0	0	0	0
Season to date	254	0.0	3,248	108	0.0	577	0	0	0

## SECTION 2. Smolt and Lamprey Condition Monitoring Summary

		Yearling Chinook		Subyearling Chinook		Unclipped Steelhead		Clipped Steelhead		Coho		Sockeye	
		This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week
SAMPLE #		0	0	143	221	0	0	0	0	1	0	0	1
DESCALING	3-19%			7.7%	4.5%					100.0%			
	>20%			1.4%									
	Pred. Desc.			1.4%	0.5%								
INJURY	BODY			1.4%	0.5%								
	EYE												
	HEAD			0.7%	0.5%								
	OPERC.			0.7%	0.9%								
	FIN				3.6%								
OTHER CONDITIONS	POPEYE												
	PINK FIN												
	Fin Discolor.												
DISEASE	FIN HEM.			4.9%	3.6%								
	Columnaris			0.7%									
	FUNGUS			0.7%	0.9%								
	BKD				3.2%								
	PARASITES			8.4%	14.0%								
PREDATION	DEFORMITY												
	EYE HEM.												
	BIRD												
	FISH			2.1%	0.5%								
LAMPREY				0.7%	0.5%								
OTHER													
end dates		8/4	7/28										

			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
	8/4	1												
	7/28	0												
AP - Ammocoetes														
	End Date	SAMPLE #												
	8/4	0												
	7/28	1												

### **SECTION 3. Incidental Summary**

	Bass Largemouth	Bass Smallmouth	Bluegill and Pumpkinseed	Bullhead	Carp	Catfish, Channel	Chiselmouth	Crappie species
This Week	0	6	0	0	0	0	0	0
Season to Date	0	25	6	0	3	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	4
Season to Date	0	0	0	0	2	1	0	73

	Redside Shiner	Sand Roller	Sculpin species	Stickleback 3 spine	Sucker species	Shad Adult	Shad Juvenile	Sturgeon White
This Week	0	0	3	0	0	0	52,493	0
Season to Date	0	0	21	4	2	1	52,958	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	20	0	0	0	1
Season to Date	0	0	0	51	4	184	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 99.3% 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, tumbleweed pieces, soft debris such as aquatic macrophytes and bryozoans, and adult American shad.

### **SECTION 5. Research**

One genetic fin clip sample was taken from a Pacific Lamprey macrophthalmia for the Columbia River Inter-Tribal Fish Commission during this report period.

## SECTION 6. Pictures



Juvenile Yellow perch (*Perca flavescens*), approximately 60 mm fork length, sampled at the John Day Dam Smolt Facility, sampled on August 3, 2023.



Juvenile Smallmouth bass (*Micropterus dolomieu*), approximately 55 mm fork length, sampled at the John Day Dam Smolt Facility on August 3, 2023.