

# Pacific States Marine Fisheries Commission

## John Day Dam Condition Monitoring Weekly Report, #23-13

Report Period: 6/24 – 6/30, 2023

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### SECTION 1. River Flow and Sampling Results

	Mean				
	Min	Max	Current	Last Week	2022
A. River Flow	134.8	150.7	144.1	165.9	385.5
B. Powerhouse 1	86.5	97.1	92.7	106.9	213.4
C. Spill (kcfs)	46.9	52.4	50.1	58.0	171.0
% of River Flow	34.6	34.8	34.7	34.9	44.4
D. Water Temp *	65.6	67.4	66.4	65.0	61.3
E. % Saturation *	104.5	109.1	107.3	103.3	119.6

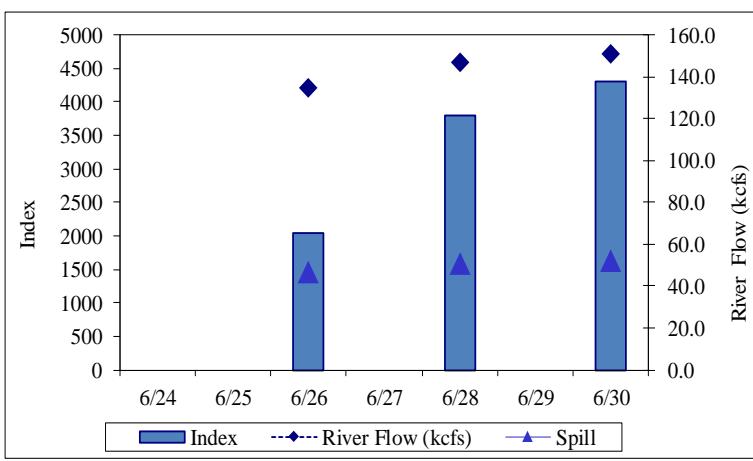
\* TDG data from USGS forebay sensor, water temp from lab and USGS sensor.

% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	0.6%	1.8%
SUBYEARLING CHINOOK	98.7%	96.1%
CHINOOK FRY	0.0%	0.0%
UNCLIPPED STEELHEAD	0.0%	0.0%
CLIPPED STEELHEAD	0.0%	0.3%
COHO	0.6%	1.5%
COHO FRY	0.0%	0.0%
SOCKEYE	0.0%	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	
6/24																	
6/25																	
6/26	8.0%	1	0.0	0.0	10	15	106	1.9	0.0	1,320	2,036	0	0.0	0.0	0	0	0
6/27																	
6/28	3.9%	0	0.0	0.0	0	0	96	2.1	0.0	2,475	3,807	0	0.0	0.0	0	0	0
6/29																	
6/30	4.0%	1	0.0	0.0	25	38	109	2.8	0.9	2,725	4,196	2	0.0	0.0	50	77	
Weekly		2	0.0	0.0	35	54	311	2.3	0.3	6,520	10,038	2	0.0	0.0	50	77	
Season to date		3,886	2.2	0.2	84,154	213,974	2,353	1.1	0.1	40,679	122,727	282	5.0	0.0	8,094	21,961	

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		
6/24																							
6/25																							
6/26	8.0%	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		
6/27																							
6/28	3.9%	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		
6/29																							
6/30	4.0%	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		
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		344	3.5	0.0	10,294	25,917	958	4.0	0.0	38,693	97,930	135	5.9	0.0	4,645	11,479							

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
6/24						
6/25						
6/26	8.0%	107	1.9	0.0	1,330	2,051
6/27						
6/28	3.9%	96	2.1	0.0	2,475	3,807
6/29						
6/30	4.0%	112	2.7	0.9	2,800	4,311
Weekly		315	2.2	0.3	6,605	10,169
Season to date		7,958	2.3	0.1	186,559	493,988



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

Pacific Lamprey						Western Brook Ammocoetes					
Macrophthalmia			Ammocoetes			Ammocoetes			Ammocoetes		
End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort
6/24											
6/25											
6/26	0	0.0	0	0	0.0	0	0	0	0	0	0
6/27											
6/28	0	0.0	0	0	0.0	0	0	0	0	0	0
6/29											
6/30	0	0.0	0	0	0.0	0	0	0	0	0	0
Weekly	0	0.0	0	0	0.0	0	0	0	0	0	0
Season to date	253	0.0	3,247	107	0.0	575	0	0	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 #	2	6	310	320	0	0	0	1	2	4	0	1
DESCALING	3-19%	33.3%	2.6%	6.6%					50.0%			
	>20%			1.0%								
	Pred. Desc.			1.3%								
INJURY	BODY		0.3%	1.6%								
	EYE			0.3%								
	HEAD			0.3%								
	OPERC.			1.0%							25.0%	
	FIN			1.9%								
OTHER CONDITIONS	PINK FIN	16.7%	3.2%	5.0%								
	Fin Discolor.			0.0%								
	FIN HEM.			0.3%								
DISEASE	Columnaris		0.0%	0.3%								
	FUNGUS			0.3%								
	BKD			0.6%								
	PARASITES			9.7%								
	DEFORMITY			0.6%								
	EYE HEM.			0.3%								
PREDATION	BIRD		1.6%	0.6%								
	FISH			1.3%							50.0%	
	LAMPREY			0.3%								
	OTHER			0.6%								
end dates			6/30	6/23								

### SECTION 3. Incidental Summary

	Bass Largemouth	Bass Smallmouth	Bluegill and Pumpkinseed	Bullhead	Carp	Catfish, Channel	Chiselmouth	Crappie species
This Week	0	0	0	0	0	0	0	0
Season to Date	0	14	6	0	2	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	0
Season to Date	0	0	0	0	2	0	0	68

	Redside Shiner	Sand Roller	Sculpin species	Stickleback 3 spine	Sucker species	Shad Adult	Shad Juvenile	Sturgeon White
This Week	0	0	1	0	0	0	0	0
Season to Date	0	0	11	4	2	0	0	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	0	1	0	0	0
Season to Date	0	0	0	21	4	184	0	2

### SECTION 4. Facility Operations

Condition Monitoring at John Day Dam was scheduled to sample Monday through Friday until 15 June and will now sample three times a week (Mon., Wed., Fri.) until the Columbia River water temperature averages 70 degrees F., at which time we will sample Mondays and Thursdays. 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 was very low for the week and consisted of a few sticks, tumbleweeds, pieces of terrestrial vegetation, and plastic.

### SECTION 5. Research

No genetic fin clip samples were taken from Pacific Lamprey macrophthalmia or ammocoetes for the Columbia River Inter-Tribal Fish Commission during this report period.

## SECTION 6. Pictures



Juvenile Mountain Whitefish (*Prosopium williamsoni*), approximately 90 mm fork length, sampled at the John Day Dam Smolt Facility on June 30, 2023.



Juvenile Prickly Sculpin (*Cottus asper*), approximately 35 mm fork length, sampled at the John Day Dam Smolt Facility on June 30, 2023.