

Pacific States Marine Fisheries Commission

John Day Dam Condition Monitoring Weekly Report, #23-10

Report Period: 6/3 – 6/9, 2023

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SECTION 1. River Flow and Sampling Results

	Mean				
	Min	Max	Current	Last Week	2022
A. River Flow	211.7	230.3	222.6	263.8	386.2
B. Powerhouse 1	51.1	53.4	52.2	57.0	166.2
C. Spill (kcfs)	156.8	178.0	169.0	205.5	218.6
% of River Flow	74.1	77.3	75.9	77.9	57.0
D. Water Temp *	62.4	63.6	63.1	60.1	57.6
E. % Saturation *	112.9	119.4	117.3	115.4	118.9

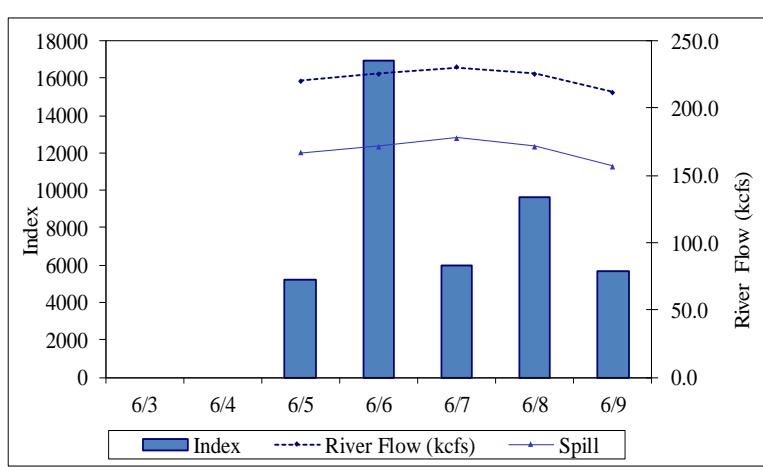
* TDG data from USGS forebay sensor, water temp from lab and USGS sensor.

% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	2.4%	15.8%
SUBYEARLING CHINOOK	90.7%	65.3%
CHINOOK FRY	0.7%	0.5%
UNCLIPPED STEELHEAD	0.7%	2.7%
CLIPPED STEELHEAD	0.3%	2.8%
COHO	4.5%	10.4%
COHO FRY	0.0%	0.0%
SOCKEYE	0.5%	2.6%

YEARLING CHINOOK						SUBYEARLING CHINOOK						COHO					
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	
6/3																	
6/4																	
6/5	9.3%	3	0.0	0.0	45	190	108	1.9	0.0	1,150	4,848	3	33.3	0.0	30	126	
6/6	2.9%	1	0.0	0.0	20	86	109	0.0	0.0	3,830	16,437	1	0.0	0.0	20	86	
6/7	7.9%	0	0.0	0.0	0	0	101	1.0	0.0	1,270	5,694	3	0.0	0.0	40	179	
6/8	5.1%	7	0.0	0.0	121	516	104	2.9	0.0	2,068	8,827	3	33.3	0.0	41	175	
6/9	8.6%	3	33.3	0.0	18	71	101	2.0	0.0	1,156	4,550	16	6.3	0.0	230	905	
Weekly		14	7.1	0.0	204	863	523	1.5	0.0	9,474	40,357	26	11.5	0.0	361	1,472	
Season to date		3,870	2.2	0.2	83,882	213,374	1,182	1.4	0.1	19,838	79,214	263	5.3	0.0	7,765	21,191	

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		
6/3																							
6/4																							
6/5	9.3%	1	0.0	0.0	10	42	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0		
6/6	2.9%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	2	0.0	0.0	70	300	0	0.0	0.0	0	0		
6/7	7.9%	0	0.0	0.0	0	0	1	0.0	0.0	20	90	0	0.0	0.0	0	0	0	0.0	0.0	0	0		
6/8	5.1%	1	0.0	0.0	20	85	0	0.0	0.0	0	0	0	0.0	0.0	0	0	1	0.0	0.0	20	79		
6/9	8.6%	2	0.0	0.0	8	31	1	0.0	0.0	4	16	1	0.0	0.0	0	0	3	0.0	0.0	90	379		
Weekly		4	0.0	0.0	38	159	2	0.0	0.0	24	105	3	0.0	0.0	0	0	132	6.1	0.0	4,600	11,363		
Season to date		342	3.5	0.0	10,264	25,810	957	4.0	0.0	38,689	97,924	132	6.1	0.0	4,600	11,363							

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
6/3						
6/4						
6/5	9.3%	115	2.6	0.0	1,235	5,207
6/6	2.9%	113	0.0	0.0	3,940	16,909
6/7	7.9%	105	1.0	0.0	1,330	5,963
6/8	5.1%	115	3.5	0.0	2,250	9,604
6/9	8.6%	124	3.2	0.0	1,436	5,653
Weekly		572	2.1	0.0	10,191	43,336
Season to date		6,746	2.6	0.1	165,038	448,877



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
6/3									
6/4									
6/5	0	0.0	0	0	0.0	0	0	0	0
6/6	0	0.0	0	0	0.0	0	0	0	0
6/7	0	0.0	0	0	0.0	0	0	0	0
6/8	1	0.0	20	0	0.0	0	0	0	0
6/9	0	0.0	0	0	0.0	0	0	0	0
Weekly	1	0.0	20	0	0.0	0	0	0	0
Season to date	249	0.0	3,153	107	0.0	575	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	4	0	0	0	0	0	0
Season to Date	0	12	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	1
Season to Date	0	0	0	0	2	0	0	67
	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	0	0
Season to Date	0	0	10	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	2	0	0
Season to Date	0	0	0	21	2	182	0	1

SECTION 4. Facility Operations

Condition Monitoring at John Day Dam is scheduled to sample Monday through Friday until mid-June. 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. 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 which coincided with lower river flows than the past several weeks. Debris consisted of sticks, tumbleweeds, pieces of terrestrial vegetation, and plastic.

SECTION 5. Research

A genetic fin clip sample was taken from one Pacific Lamprey macrourhthalmia for the Columbia River Inter-Tribal Fish Commission during this report period.

SECTION 6. Pictures



Subyearling Fall Chinook smolt (*Oncorhynchus tshawytscha*), approximately 110 mm fork length, showing a slight fin hemorrhage to the left pelvic fin, sampled at the John Day Dam Smolt Facility on June 9, 2023.



Unclipped Subyearling Fall Chinook smolt (*Oncorhynchus tshawytscha*), approximately 130 mm fork length, showing descaling and predation scar on left side caused by a fish (probably a walleye based on the teeth marks), similar to one sampled at the John Day Dam Smolt Facility on June 9, 2023.



Same specimen as above showing descaling and predation scar on the right side of the fish.