

Pacific States Marine Fisheries Commission

John Day Dam Condition Monitoring Weekly Report, #23-17

Report Period: 7/22 – 7/28, 2023

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SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	
				2022	
A. River Flow	128.6	143.3	136.0	143.8	188.3
B. Powerhouse 1	82.4	92.1	87.3	92.4	121.5
C. Spill (kcf/s)	45.0	50.1	47.6	50.3	65.6
% of River Flow	35.0	35.0	35.0	35.0	34.8
D. Water Temp *	72.0	72.1	72.1	71.5	68.7
E. % Saturation *	104.8	105.5	105.2	105.6	109.9

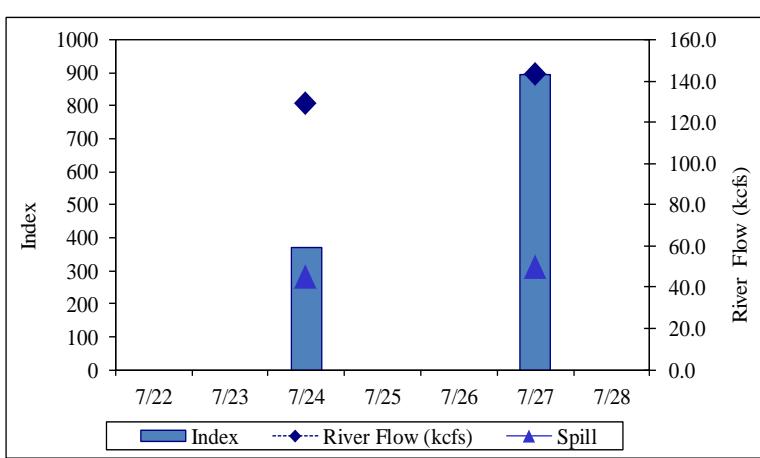
* TDG data from USGS forebay sensor, water temp from lab and USGS sensor.

		This Week	Last Week
YEARLING CHINOOK	0.0%	0.0%	
SUBYEARLING CHINOOK	99.6%	99.0%	
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	0.4%	1.0%	

YEARLING CHINOOK						SUBYEARLING CHINOOK						COHO					
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	
7/22																	
7/23																	
7/24	46.5%	0	0.0	0.0	0	0	111	0.9	0.9	239	370	0	0.0	0.0	0	0	0
7/25																	
7/26																	
7/27	19.3%	0	0.0	0.0	0	0	111	0.0	0.0	575	888	0	0.0	0.0	0	0	0
7/28																	
Weekly		0	0.0	0.0	0	0	222	0.5	0.5	814	1,257	0	0.0	0.0	0	0	0
Season to date		3,887	2.2	0.2	84,179	214,013	3,193	1.2	0.1	53,962	143,252	283	4.9	0.0	8,144	22,038	

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		
7/22																							
7/23																							
7/24	46.5%	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	
7/25																							
7/26																							
7/27	19.3%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	1	0.0	0.0	0	5	0	0.0	0.0	5	8	8	
7/28																							
Weekly		0	0.0	0.0	0	0	0	0.0	0.0	0	0	1	0.0	0.0	0	5	0	0.0	0.0	5	8	8	
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							

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
7/22						
7/23						
7/24	46.5%	111	0.9	0.9	239	370
7/25						
7/26						
7/27	19.3%	112	0.0	0.0	580	896
7/28						
Weekly		223	0.5	0.4	819	1,265
Season to date		8,804	2.2	0.1	199,968	514,707



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

Pacific Lamprey			Ammocoetes			Western Brook Ammocoetes			
Macrophthalmia			Ammocoetes			Ammocoetes			
End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
7/22									
7/23									
7/24	0	0.0	0	1	0.0	2	0	0	0
7/25									
7/26									
7/27	0	0.0	0	0	0.0	0	0	0	0
7/28									
Weekly	0	0.0	0	1	0.0	2	0	0	0
Season to date	253	0.0	3,247	108	0.0	577	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	2	0	0	1	0	0	0
Season to Date	0	19	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	1	0	0
Season to Date	0	0	0	0	2	1	0	69

	Redside Shiner	Sand Roller	Sculpin species	Stickleback 3 spine	Sucker species	Shad Adult	Shad Juvenile	Sturgeon White
This Week	0	0	6	0	0	1	402	0
Season to Date	0	0	18	4	2	1	465	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	7	0	0	0	0
Season to Date	0	0	0	31	4	184	0	3

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 99.6% 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 and tumbleweed pieces but mostly soft debris such as aquatic macrophytes and bryozoans.

SECTION 5. Research

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

SECTION 6. Pictures



Juvenile Northern Pikeminnow (*Ptychocheilus oregonensis*), approximately 40 mm fork length, sampled at the John Day Dam Smolt Facility, sampled on July 24, 2023.



Juvenile Common Carp (*Cyprinus carpio*), approximately 75 mm fork length, sampled at the John Day Dam Smolt Facility on July 27, 2023. This variation of the Common Carp is often called a Mirror Carp due to the large and irregular scales.