

Pacific States Marine Fisheries Commission

John Day Dam Condition Monitoring Weekly Report, #23-21

Report Period: 8/19 – 8/25, 2023

Project Manager: Allan Martin

Prepared By: Gregory Kovalchuk



SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2022
A. River Flow	108.1	116.1	112.1	120.0	154.3
B. Powerhouse 1	85.3	93.6	89.5	86.6	132.0
C. Spill (kcfs)	21.1	21.1	21.1	31.6	21.2
% of River Flow	18.2	19.5	18.8	26.3	13.8
D. Water Temp *	71.6	72.8	72.2	72.6	71.6
E. % Saturation *	108.6	112.0	110.3	107.4	106.6

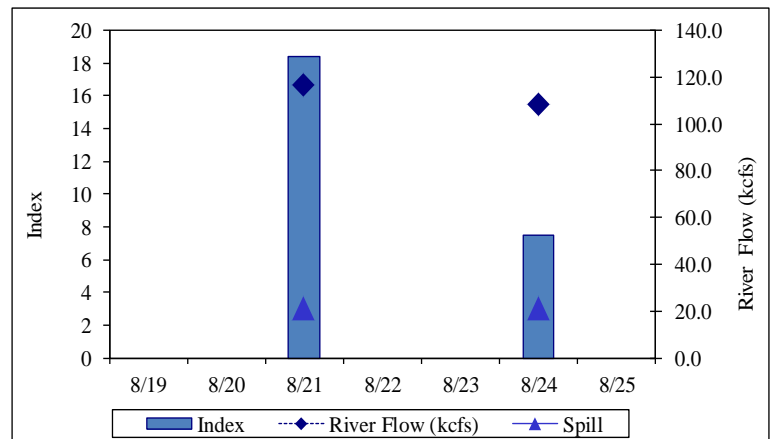
* TDG data from USGS forebay sensor, water temp from lab and USGS sensor.

% SAMPLE COMPOSITION	This Week Last Week	
YEARLING CHINOOK	0.0%	0.6%
SUBYEARLING CHINOOK	100.0%	98.7%
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	0.0%	0.6%

YEARLING CHINOOK							SUBYEARLING CHINOOK					COHO				
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
8/19	100.0%															
8/20																
8/21		0	0.0	0.0	0	0	15	0.0	0.0	15	18	0	0.0	0.0	0	0
8/22																
8/23	100.0%															
8/24		0	0.0	0.0	0	0	6	0.0	0.0	6	7	0	0.0	0.0	0	0
8/25																
Weekly		0	0.0	0.0	0	0	21	0.0	0.0	21	26	0	0.0	0.0	0	0
Season to date		3,888	2.2	0.2	84,181	214,016	3,678	1.3	0.2	54,525	144,101	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
8/19	100.0%															
8/20																
8/21		0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
8/22																
8/23	100.0%															
8/24		0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
8/25																
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	140	5.7	0.0	4,698	11,560

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
8/19	100.0%					
8/20						
8/21		15	0.0	0.0	15	18
8/22						
8/23	100.0%					
8/24		6	0.0	0.0	6	7
8/25						
Weekly		21	0.0	0.0	21	26
Season to date		9,292	2.2	0.2	200,536	515,564



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
8/19									
8/20									
8/21	0	0.0	0	0	0.0	0	0	0	0
8/22									
8/23									
8/24	0	0.0	0	0	0.0	0	0	0	0
8/25									
Weekly	0	0.0	0	0	0.0	0	0	0	0
Season to date	254	0.0	3,248	109	0.0	578	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	1	21	151	0	0	0	0	0	0	0	1
DESCALING	3-19%				3.3%								
	>20%												
	Pred. Desc.				2.0%								
INJURY	BODY				0.7%								
	EYE												
	HEAD												
	OPERC.												
	FIN				2.6%								
	POPEYE												
OTHER CONDITIONS	PINK FIN												
	Fin Discolor.												
	FIN HEM.			4.8%	2.0%								
DISEASE	Columnaris				0.7%								
	FUNGUS				1.3%								
	BKD												
	PARASITES			14.3%	6.6%								
	DEFORMITY												
	EYE HEM.												
PREDATION	BIRD												
	FISH				2.6%								
	LAMPREY												
	OTHER												
end dates		8/25	8/18										

			INJURY					DISEASE and OTHER CONDITIONS					PREDATION	
MP- Macrophthalmia This Week Last Week	End Date	SAMPLE #	BODY	EYE	HEAD	FIN	POPEYE	FIN HEM	Columnaris	FUNGUS	DEFORMITY	EYE HEM.	BIRD	FISH
	8/25	0												
	8/18	0												
AP - Ammocoetes This Week Last Week		SAMPLE #												
	8/25	0												
	8/18	0												

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	37	6	0	4	1	0	7

	Dace - Longnose	Dace - Speckled	Chinook Jack	Kokanee	Lamprey Adult	Northern Pikeminnow	Peamouth	Perch Yellow
This Week	0	0	0	0	1	0	0	1
Season to Date	0	0	0	0	3	1	0	82

	Redside Shiner	Sand Roller	Sculpin species	Stickleback 3 spine	Sucker species	Shad Adult	Shad Juvenile	Sturgeon White
This Week	0	0	4	0	0	0	103,105	0
Season to Date	0	0	41	4	2	5	226,588	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	18	0	0	0	0
Season to Date	0	0	0	152	4	185	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 are now sampling 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 are 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 100% 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, soft debris such as aquatic macrophytes and bryozoans, and adult American shad.

SECTION 5. Research

No juvenile Pacific Lamprey ammocoetes or macrophthalmia were sampled during this report period.

SECTION 6. Pictures



This is a juvenile Sucker (*Catostomas spp.*), possibly a Bridge-lip sucker (*Catostomas columbianus*) approximately 105 mm fork length, sampled at the John Day Dam Smolt Facility on May 8, 2017.



Juvenile Peamouth (*Mylocheilus caurinus*), approximately 111 mm fork length, sample at the John Day Dam Smolt Facility on August 23, 2005.



Juvenile Longnose dace (*Rhinichthys cataractae*), approximately 38 mm fork length, sampled at the John Day Dam Smolt Facility on July 13, 2016.