

# Pacific States Marine Fisheries Commission

## John Day Dam Condition Monitoring Weekly Report, #23-16

Report Period: 7/15 – 7/21, 2023

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### SECTION 1. River Flow and Sampling Results

	Mean				
	Min	Max	Current	Last Week	2022
A. River Flow	134.4	153.2	143.8	127.9	210.3
B. Powerhouse 1	86.3	98.5	92.4	81.9	135.7
C. Spill (kcfcs)	47.0	53.6	50.3	44.4	73.5
% of River Flow	35.0	35.0	35.0	34.7	35.0
D. Water Temp *	70.5	72.5	71.5	70.4	67.0
E. % Saturation *	103.5	107.6	105.6	105.9	110.8

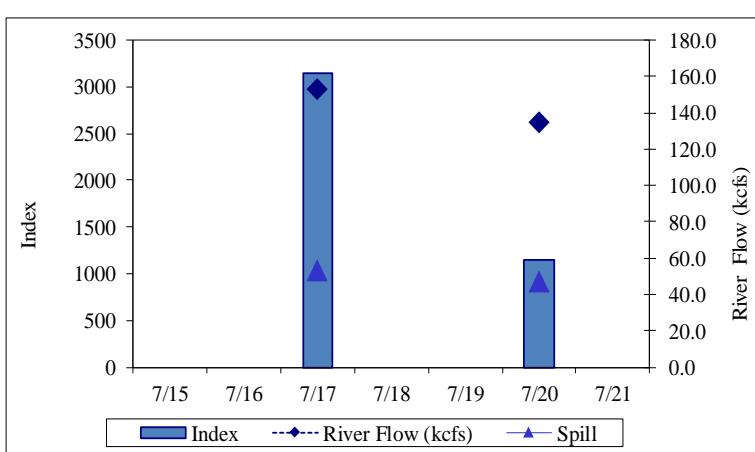
\* TDG data from USGS forebay sensor, water temp from lab and USGS sensor.

% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	0.0%	0.0%
SUBYEARLING CHINOOK	99.0%	100.0%
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	1.0%	0.0%

YEARLING CHINOOK					SUBYEARLING CHINOOK					COHO						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
7/15																
7/16																
7/17	5.0%	0	0.0	0.0	0	0	101	3.0	0.0	2,020	3,119	0	0.0	0.0	0	0
7/18																
7/19																
7/20	13.5%	0	0.0	0.0	0	0	99	0.0	0.0	739	1,141	0	0.0	0.0	0	0
7/21																
Weekly		0	0.0	0.0	0	0	200	1.5	0.0	2,759	4,261	0	0.0	0.0	0	0
Season to date		3,887	2.2	0.2	84,179	214,013	2,971	1.2	0.1	53,148	141,994	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			
7/15																			
7/16																			
7/17	5.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	1	0.0	0.0	20	31			
7/18																			
7/19																			
7/20	13.5%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	1	0.0	0.0	1	2			
7/21																			
Weekly		0	0.0	0.0	0	0	0	0.0	0.0	0	0	2	0.0	0.0	21	32			
Season to date		344	3.5	0.0	10,294	25,917	958	4.0	0.0	38,693	97,930	138	5.8	0.0	4,691	11,550			

TOTAL					
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll
7/15					
7/16					
7/17	5.0%	102	2.9	0.0	2,040
7/18					
7/19					
7/20	13.5%	100	0.0	0.0	740
7/21					
Weekly		202	1.5	0.0	2,780
Season to date		8,581	2.3	0.1	199,149
					513,442



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
7/15									
7/16									
7/17	0	0.0	0	0	0.0	0	0	0	0
7/18									
7/19									
7/20	0	0.0	0	0	0.0	0	0	0	0
7/21									
Weekly	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

## SECTION 2. Smolt and Lamprey Condition Monitoring Summary

and dates 7/21 7/14

### SECTION 3. Incidental Summary

	Bass Largemouth	Bass Smallmouth	Bluegill and Pumpkinseed	Bullhead	Carp	Catfish, Channel	Chiselmouth	Crappie species
This Week	0	1	0	0	0	0	0	0
Season to Date	0	17	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	69

	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	63	0
Season to Date	0	0	12	4	2	0	63	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	2	0	0	0	1
Season to Date	0	0	0	24	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% 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 and tumbleweed pieces but mostly soft debris such as aquatic macrophytes and bryozoans.

### 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 because no lamprey were sampled this week.

## SECTION 6. Pictures



Juvenile American shad fry (*Alosa sapidissima*), approximately 45 mm fork length, sampled at the John Day Dam Smolt Facility on July 20, 2023.



Adult Banded Killifish female? (*Fundulus diaphanus*), approximately 85 mm fork length, the largest specimen ever sampled at the John Day Dam Smolt Facility, sampled on July 17, 2023.



Adult Banded Killifish male? (*Fundulus diaphanus*), approximately 80 mm fork length, sampled at the John Day Dam Smolt Facility on May 20, 2018.