

United States Army Corps of Engineers

John Day Dam Smolt and Juvenile Lamprey Condition Monitoring

Weekly Report, #24-19 Report Period: 8/3 – 8/9, 2024

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SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2023
A. River Flow	96.7	112.2	104.5	134.3	122.6
B. Powerhouse	74.1	89.3	81.7	98.3	78.6
C. Spill (kcfs)	21.1	21.1	21.1	35.0	43.1
% of River Flow	18.8	21.8	20.3	25.7	35.1%
D. Water Temp *	70.9	71.4	71.2	70.2	72.1
E. % Saturation *	105.4	0.0	106.3	109.2	105.2

Note: Data is for the sample period only (0700 - 1300 hrs).

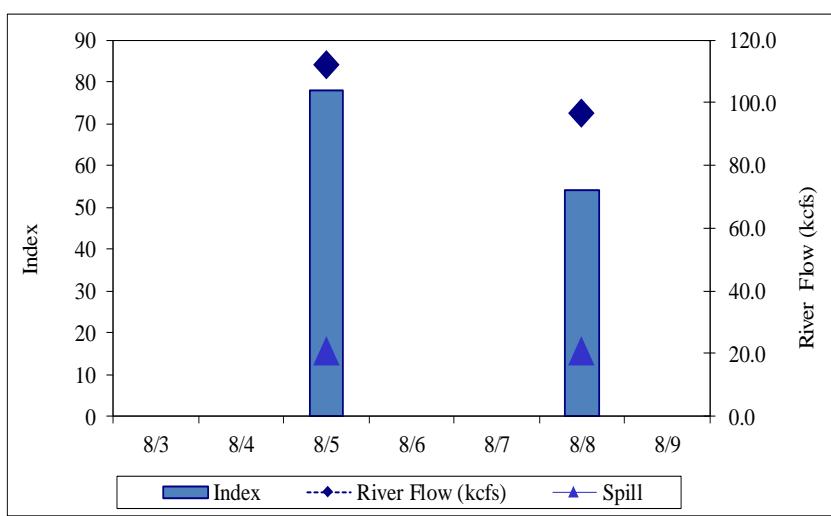
% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	0.0%	0.0%
SUBYEARLING CHINOOK	99.0%	99.4%
CHINOOK FRY	0.0%	0.0%
UNCLIPPED STEELHEAD	0.0%	0.0%
CLIPPED STEELHEAD	0.0%	0.0%
COHO	0.0%	0.0%
COHO FRY	0.0%	0.0%
SOCKEYE	1.0%	0.6%

YEARLING CHINOOK						SUBYEARLING CHINOOK						COHO					
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	
8/3																	
8/4																	
8/5	100.0%	0	0.0	0.0	0	0	62	4.8	0.0	62	77	0	0.0	0.0	0	0	0
8/6																	
8/7																	
8/8	100.0%	0	0.0	0.0	0	0	42	4.8	0.0	42	54	0	0.0	0.0	0	0	0
8/9																	
Weekly		0	0.0	0.0	0	0	104	4.8	0.0	104	131	0	0.0	0.0	0	0	0
Season to date		4,127	2.3	0.0	56,351	93,291	3,680	2.9	0.0	81,602	129,462	579	4.3	0.0	9,545	15,903	

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		
8/3																							
8/4																							
8/5	100.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	1	0.0	0.0	1	1	1	0.0	0.0	1	1		
8/6																							
8/7																							
8/8	100.0%	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		
8/9																							
Weekly		0	0.0	0.0	0	0	0	0.0	0.0	0	0	1	0.0	0.0	1	1	1	0.0	0.0	1	1		
Season to date		286	5.2	0.0	4,323	7,164	911	7.4	0.0	16,018	26,729	621	3.7	0.0	8,076	13,378							

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
8/3						
8/4						
8/5	100.0%	63	4.8	0.0	63	78
8/6						
8/7						
8/8	100.0%	42	4.8	0.0	42	54
8/9						
Weekly		105	4.8	0.0	105	132
Season to date		10,204	3.2	0.0	175,915	285,928

Notes: Condition percentages are calculated using sample numbers. Subyearling Chinook and Coho include fry. All river flow, powerhouse, spill and index estimates are for the sample period only.



End Date	Macrophthalmia			Ammocoetes			Western Brook Ammocoetes		
	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
8/3									
8/4									
8/5	0	0.0	0	0	0.0	0	0	0	0
8/6									
8/7									
8/8	0	0.0	0	0	0.0	0	0	0	0
8/9									
Weekly	0	0.0	0	0	0.0	0	0	0	0
Season to date	8	0.0	70	4	0.0	6	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	1	1	0	0	0	0	0
Season to Date	0	14	8	0	0	0	0	1
	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	1	2	0	119
	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	56,845	0
Season to Date	0	0	26	1	1	1	59,744	0
	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	10	0	0	0	0
Season to Date	0	0	0	50	0	95	0	1

SECTION 4. Facility Operations

Condition Monitoring at John Day Dam is currently sampling Mondays and Thursdays since daily average river water temperatures have reached 70 degrees F in the John Day Dam forebay. Sampling will return to Mondays, Wednesdays, and Fridays once daily average river water temperatures fall to 69.5 degrees F. Samples will be taken from the Juvenile Bypass System between 0700 and 1300 hrs. and the Condition Exams will target approximately 100 out-migrants. All river flow, powerhouse, spill, and index estimates are based on the sample period only. Debris at the separator bars was low for the week and consisted of adult American shad, bryozoans, freshwater sponges, a few small sticks, and aquatic vegetation.

SECTION 5. Research

No Pacific Lamprey macrourhthalmia or ammocoetes were sampled this week.

SECTION 6. Pictures



Banded Killifish (*Fundulus diaphanus*), approximately 65 mm total length, similar to a specimen sampled at the John Day Dam Smolt Facility on 2 April, 2024.



Pacific lamprey ammocoete on top and Pacific lamprey macrophthalmia (*Entosphenus tridentatus*) on bottom, both sampled at the John Day Dam Smolt Facility on 17 May, 2019.