

United States Army Corps of Engineers

John Day Dam Smolt and Juvenile Lamprey Condition Monitoring

Weekly Report, #24-14 Report Period: 6/29 – 7/5, 2024

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SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2023
A. River Flow	151.4	178.7	165.4	159.6	129.9
B. Powerhouse	97.8	114.9	106.7	102.7	83.4
C. Spill (kcfs)	52.8	62.9	57.7	55.7	45.6
% of River Flow	34.5	35.2	34.9	34.9	35.1%
D. Water Temp *	65.0	66.9	65.8	63.2	69.9
E. % Saturation *	104.2	108.2	106.2	109.1	109.2

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

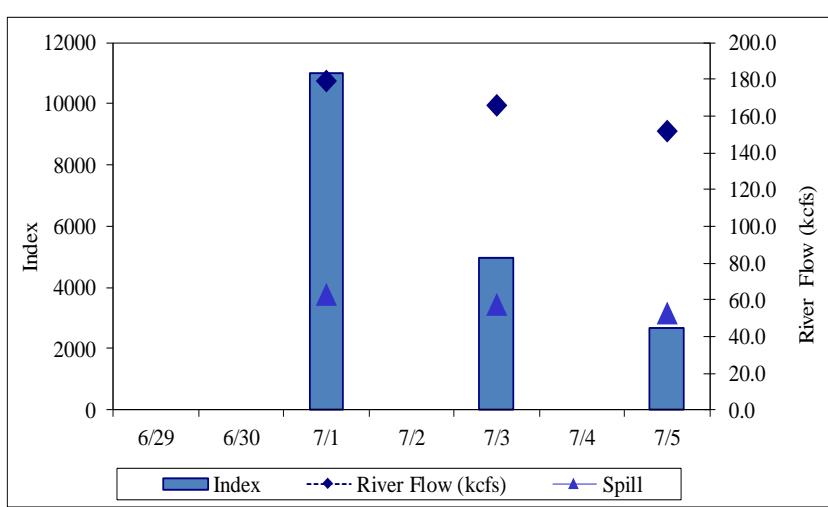
% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	0.0%	0.6%
SUBYEARLING CHINOOK	97.5%	98.4%
CHINOOK FRY	0.0%	0.0%
UNCLIPPED STEELHEAD	0.3%	0.0%
CLIPPED STEELHEAD	0.0%	0.3%
COHO	0.0%	0.3%
COHO FRY	0.0%	0.0%
SOCKEYE	2.2%	0.3%

YEARLING CHINOOK						SUBYEARLING CHINOOK						COHO					
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	
6/29																	
6/30																	
7/1	1.5%	0	0.0	0.0	0	0	104	1.0	0.0	6,850	10,600	0	0.0	0.0	0	0	0
7/2																	
7/3	3.1%	0	0.0	0.0	0	0	102	2.9	0.0	3,250	4,986	0	0.0	0.0	0	0	0
7/4																	
7/5	6.4%	0	0.0	0.0	0	0	105	1.9	0.0	1,642	2,528	0	0.0	0.0	0	0	0
Weekly		0	0.0	0.0	0	0	311	1.9	0.0	11,742	18,114	0	0.0	0.0	0	0	0
Season to date		4,127	2.3	0.0	56,351	93,291	2,704	2.3	0.0	77,715	123,525	578	4.3	0.0	9,543	15,900	

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		
6/29																							
6/30																							
7/1	1.5%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	3	0.0	0.0	250	387							
7/2																							
7/3	3.1%	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	
7/4																							
7/5	6.4%	1	0.0	0.0	10	15	0	0.0	0.0	0	0	4	25.0	0.0	80	123							
Weekly		1	0.0	0.0	10	15	0	0.0	0.0	0	0	7	14.3	0.0	330	510							
Season to date		286	5.2	0.0	4,323	7,164	911	7.4	0.0	16,018	26,729	610	3.8	0.0	8,029	13,306							

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
6/29						
6/30						
7/1	1.5%	107	0.9	0.0	7,100	10,987
7/2						
7/3	3.1%	102	2.9	0.0	3,250	4,986
7/4						
7/5	6.4%	110	2.7	0.0	1,732	2,667
Weekly		319	2.2	0.0	12,082	18,639
Season to date		9,216	3.1	0.0	171,979	279,916

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
6/29									
6/30									
7/1	0	0.0	0	0	0.0	0	0	0	0
7/2									
7/3	0	0.0	0	0	0.0	0	0	0	0
7/4									
7/5	0	0.0	0	0	0.0	0	0	0	0
Weekly	0	0.0	0	0	0.0	0	0	0	0
Season to date	7	0.0	68	0	0.0	0	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	0	0	0	0	0	0	0
Season to Date	0	4	7	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	0	0	117
	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	4	0	1	0	0	0
	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	0	0	0	0	0
Season to Date	0	0	0	29	0	95	0	1

SECTION 4. Facility Operations

Condition Monitoring at John Day Dam is currently sampling Mondays, Wednesdays, and Fridays until daily average river water temperatures reach 70 degrees F. 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. All river flow, powerhouse, spill, and index estimates are based on the sample period only. Debris at the separator bars was very low for the week and consisted of a few sticks, some plastic, and pieces of terrestrial vegetation.

SECTION 5. Research

No Pacific Lamprey macropthalmia or ammocoetes were sampled at the Smolt Facility during this report period.

SECTION 6. Pictures



Hatchery origin Subyearling Fall Chinook smolt (*Oncorhynchus tshawytscha*), approximately 105 mm fork length, showing a curved spine deformity, sampled at the John Day Dam Smolt Facility on 5 July, 2024.



Hatchery origin Subyearling Fall Chinook smolt (*Oncorhynchus tshawytscha*), approximately 120 mm fork length, showing a severely eroded caudal fin, sampled at the John Day Dam Smolt Facility on 5 July, 2024.