

United States Army Corps of Engineers

John Day Dam Smolt and Juvenile Lamprey Condition Monitoring

Weekly Report, #24-12 Report Period: 6/15 – 6/21, 2024

Prepared By: Gregory Kovalchuk



SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2023
A. River Flow	175.7	218.6	192.0	220.1	165.9
B. Powerhouse	113.0	141.8	124.0	130.6	106.9
	0.0	0.0	0.0	0.0	0.0
C. Spill (kcfs)	61.3	75.0	66.4	87.7	58.0
% of River Flow	34.3	34.9	34.6	39.9	34.9%
D. Water Temp *	61.3	61.6	61.5	60.6	65.0
E. % Saturation *	107.3	107.5	107.8	115.3	103.3

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

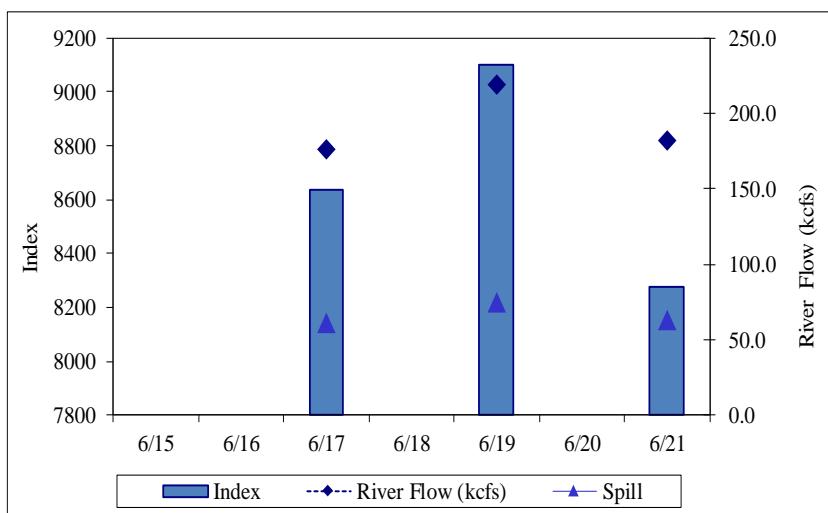
% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	0.6%	1.6%
SUBYEARLING CHINOOK	96.6%	91.8%
CHINOOK FRY	0.0%	0.0%
UNCLIPPED STEELHEAD	0.3%	0.9%
CLIPPED STEELHEAD	0.0%	0.9%
COHO	0.6%	1.1%
COHO FRY	0.0%	0.0%
SOCKEYE	1.9%	3.7%

YEARLING CHINOOK						SUBYEARLING CHINOOK						COHO					
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	
6/15																	
6/16																	
6/17	2.0%	1	0.0	0.0	50	77	105	1.9	0.0	5,250	8,098	2	0.0	0.0	100	154	
6/18																	
6/19	1.7%	1	0.0	0.0	100	153	101	2.0	0.0	5,800	8,868	0	0.0	0.0	0	0	
6/20																	
6/21	2.0%	0	0.0	0.0	0	0	106	0.9	0.0	5,365	8,246	0	0.0	0.0	0	0	
Weekly		2	0.0	0.0	150	230	312	1.6	0.0	16,415	25,212	2	0.0	0.0	100	154	
Season to date		4,125	2.3	0.0	56,251	93,137	2,081	2.1	0.0	45,516	73,829	577	4.3	0.0	9,493	15,823	

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		
6/15																							
6/16																							
6/17	2.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	4	25.0	0.0	200	308							
6/18																							
6/19	1.7%	1	0.0	0.0	50	76	0	0.0	0.0	0	0	0	0.0	0.0	0	0	6	16.7	0.0	220	339		
6/20																							
6/21	2.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	2	0.0	0.0	20	31							
Weekly		1	0.0	0.0	50	76	0	0.0	0.0	0	0	6	16.7	0.0	220	339							
Season to date		285	5.3	0.0	4,313	7,149	910	7.4	0.0	15,968	26,652	602	3.7	0.0	7,679	12,765							

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
6/15						
6/16						
6/17	2.0%	112	2.7	0.0	5,600	8,638
6/18						
6/19	1.7%	103	1.9	0.0	5,950	9,097
6/20						
6/21	2.0%	108	0.9	0.0	5,385	8,277
Weekly		323	1.9	0.0	16,935	26,012
Season to date		8,580	3.1	0.0	139,220	229,356

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.



	Pacific Lamprey						Western Brook Ammocoetes		
	Macrophthalmia			Ammocoetes			Ammocoetes		
End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
6/15									
6/16									
6/17	0	0.0	0	0	0.0	0	0	0	0
6/18									
6/19	0	0.0	0	0	0.0	0	0	0	0
6/20									
6/21	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	116
	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	3	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	1	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 scheduled to sample 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



Unclipped Subyearling Fall Chinook smolt (*Oncorhynchus tshawytscha*), approximately 110 mm fork length, showing black spots indicating a trematode parasitic infection, similar to a specimen sampled at the John Day Dam Smolt Facility on 19 June, 2024.



Hatchery origin Subyearling Fall Chinook smolt (*Oncorhynchus tshawytscha*), approximately 85 mm fork length, showing a stunted body deformity, similar to a specimen sampled at the John Day Dam Smolt Facility on 21 June, 2024.