

United States Army Corps of Engineers

John Day Dam Smolt and Juvenile Lamprey Condition Monitoring

Weekly Report, #24-2

Report Period: 4/6 – 4/12, 2024

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SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2023
A. River Flow	146.2	170.4	159.8	133.6	143.7
B. Powerhouse 1	94.8	144.2	114.9	122.3	78.6
C. Spill (kcfs)	10.0	68.1	43.4	9.9	64.0
% of River Flow	6.4	40.0	26.4	7.5	45%
D. Water Temp *	48.3	49.7	48.7	48.1	47.1
E. % Saturation *	103.9	105.3	104.7	107.3	104.3

* In sampling facility and from TMT website.

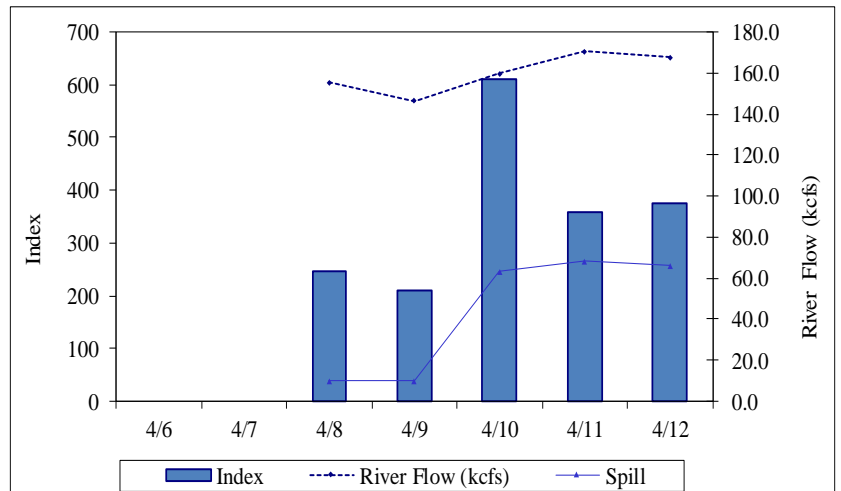
% SAMPLE COMPOSITION	This Week Last Week	
YEARLING CHINOOK	94.5%	96.2%
SUBYEARLING CHINOOK	0.0%	0.0%
CHINOOK FRY	0.0%	0.0%
UNCLIPPED STEELHEAD	3.1%	3.6%
CLIPPED STEELHEAD	0.0%	0.0%
COHO	2.5%	0.3%
COHO FRY	0.0%	0.0%
SOCKEYE	0.0%	0.0%

YEARLING CHINOOK							SUBYEARLING CHINOOK					COHO				
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
4/6																
4/7																
4/8	50.0%	103	1.0	0.0	206	220	0	0.0	0.0	0	0	4	0.0	0.0	8	9
4/9	50.0%	90	0.0	0.0	180	193	0	0.0	0.0	0	0	5	0.0	0.0	10	11
4/10	29.8%	109	1.8	0.0	366	610	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/11	41.1%	84	2.4	0.0	202	339	0	0.0	0.0	0	0	2	0.0	0.0	8	13
4/12	50.0%	108	0.0	0.0	216	359	0	0.0	0.0	0	0	2	0.0	0.0	4	7
Weekly		494	1.0	0.0	1,170	1,721	0	0.0	0.0	0	0	13	0.0	0.0	30	39
Season to date		870	1.3	0.0	1,922	2,535	0	0.0	0.0	0	0	14	0.0	0.0	32	42

End Date	Sample Rate	UNCLIPPED					STEELHEAD					CLIPPED					SOCKEYE				
		# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
4/6																					
4/7																					
4/8	50.0%	8	2.0	0.0	16	17	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/9	50.0%	3	1.0	0.0	6	6	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/10	29.8%	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
4/11	41.1%	2	1.0	0.0	4	7	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/12	50.0%	3	0.0	0.0	6	10	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
Weekly		16	25.0	0.0	32	40	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
Season to date		30	13.3	0.0	60	70	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
4/6						
4/7						
4/8	50.0%	115	2.6	0.0	230	246
4/9	50.0%	98	1.0	0.0	196	211
4/10	29.8%	109	1.8	0.0	366	610
4/11	41.1%	88	3.4	0.0	214	359
4/12	50.0%	113	0.0	0.0	226	375
Weekly		523	1.7	0.0	1,232	1,800
Season to date		914	1.6	0.0	2,014	2,647

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



			INJURY					DISEASE and OTHER CONDITIONS				PREDATION		
MP- Macrophthalmia	End Date	SAMPLE #	BODY	EYE	HEAD	FIN	POPEYE	FIN HEM	Columnaris	FUNGUS	EFORMITE	EYE HEM	BIRD	FISH
This Week	4/12	1												
Last Week	4/5	1												
AP - Ammocoetes		SAMPLE #												
This Week	4/12	0												
Last Week	4/5	0												

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	0	2	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	9
Season to Date	0	0	0	0	0	0	0	18

	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	0	0
Season to Date	0	0	1	0	0	0	0	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	5	0	18	0	0
Season to Date	0	0	0	9	0	43	0	1

SECTION 4. Facility Operations

Condition Monitoring at John Day Dam is scheduled to sample Monday through Friday until early 15 June. 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 moderate for the week and consisted of sticks, plastic, and pieces of terrestrial vegetation.

SECTION 5. Research

Genetic fin clip samples were taken from 1 Pacific Lamprey macrophthalmia for the Columbia River Inter-Tribal Fish Commission during this report period.

SECTION 6. Pictures



Hatchery origin Yearling Spring Chinook smolt (*Oncorhynchus tshawytscha*), approximately 185 mm fork length, showing an eye hemorrhage injury, sampled at the John Day Dam Smolt Facility on 11 April, 2024.



Juvenile Yellow Perch (*Perca flavescens*), approximately 85 mm fork length, sampled at the John Day Dam Smolt Facility on 12 April, 2024. Please note the first dorsal fin is flat against the dorsal mid-line.