

United States Army Corps of Engineers

John Day Dam Smolt and Juvenile Lamprey Condition Monitoring

Weekly Report, #24-13

Report Period: 6/22 – 6/28, 2024

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SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2023
A. River Flow	153.8	167.5	159.6	192.0	144.1
B. Powerhouse	98.6	107.8	102.7	124.0	92.7
	0.0	0.0	0.0	0.0	0.0
C. Spill (kcfs)	54.0	58.6	55.7	66.4	50.1
% of River Flow	34.6	35.1	34.9	34.6	34.7%
D. Water Temp *	62.1	63.9	63.2	61.5	66.4
E. % Saturation *	107.4	107.4	109.1	107.8	107.3

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

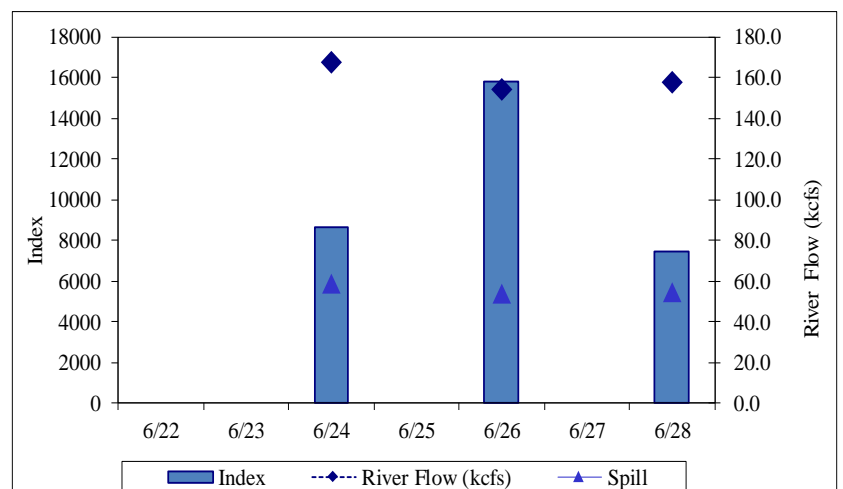
% SAMPLE COMPOSITION			This Week	Last Week
YEARLING CHINOOK	0.6%	0.6%		
SUBYEARLING CHINOOK	98.4%	96.6%		
CHINOOK FRY	0.0%	0.0%		
UNCLIPPED STEELHEAD	0.0%	0.3%		
CLIPPED STEELHEAD	0.3%	0.0%		
COHO	0.3%	0.6%		
COHO FRY	0.0%	0.0%		
SOCKEYE	0.3%	1.9%		

YEARLING CHINOOK							SUBYEARLING CHINOOK					COHO				
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
6/22																
6/23																
6/24	2.0%	2	0.0	0.0	100	154	108	3.7	0.0	5,400	8,335	1	0.0	0.0	50	77
6/25																
6/26	1.0%	0	0.0	0.0	0	0	103	5.8	0.0	10,207	15,797	0	0.0	0.0	0	0
6/27																
6/28	2.1%	0	0.0	0.0	0	0	101	1.0	0.0	4,850	7,449	0	0.0	0.0	0	0
Weekly		2	0.0	0.0	100	154	312	3.5	0.0	20,457	31,582	1	0.0	0.0	50	77
Season to date		4,127	2.3	0.0	56,351	93,291	2,393	2.3	0.0	65,973	105,411	578	4.3	0.0	9,543	15,900

UNCLIPPED STEELHEAD							CLIPPED STEELHEAD					SOCKEYE				
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
6/22																
6/23																
6/24	2.0%	0	0.0	0.0	0	0	1	0.0	0.0	50	77	0	0.0	0.0	0	0
6/25																
6/26	1.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
6/27																
6/28	2.1%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	1	0.0	0.0	20	31
Weekly		0	0.0	0.0	0	0	1	0.0	0.0	50	77	1	0.0	0.0	20	31
Season to date		285	5.3	0.0	4,313	7,149	911	7.4	0.0	16,018	26,729	603	3.6	0.0	7,699	12,796

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
6/22						
6/23						
6/24	2.0%	112	3.6	0.0	5,600	8,644
6/25						
6/26	1.0%	103	5.8	0.0	10,207	15,797
6/27						
6/28	2.1%	102	1.0	0.0	4,870	7,480
Weekly		317	3.5	0.0	20,677	31,921
Season to date		8,897	3.1	0.0	159,897	261,277

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		
	Macrophthalmia			Ammocoetes			Ammocoetes		
End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
6/22									
6/23									
6/24	0	0.0	0	0	0.0	0	0	0	0
6/25									
6/26	0	0.0	0	0	0.0	0	0	0	0
6/27									
6/28	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

		Yearling Chinook		Subyearling Chinook		Unclipped Steelhead		Clipped Steelhead		Coho		Sockeye		Total All Species Combined	Percent All Species Combined
		This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week
SAMPLE #		2	2	312	312	0	1	1	0	1	2	1	6	317	100%
DESCALING	3-19%			2.9%	1.0%									9	2.8%
	>20%			0.3%	0.3%									1	0.3%
	Pred. Desc.			3.2%	1.3%							16.7%		10	3.2%
INJURY	BODY			1.0%	0.3%									3	0.9%
	EYE													0	0.0%
	HEAD													0	0.0%
	OPERC.													0	0.0%
	FIN			1.3%	1.3%									4	1.3%
	POPEYE													0	0.0%
OTHER CONDITIO	PINK FIN													0	0.0%
	Fin Discolor													0	0.0%
	FIN HEM			1.9%	1.0%									6	1.9%
DISEASE	Columnaris													0	0.0%
	FUNGUS			0.6%	0.6%									2	0.6%
	BKD													0	0.0%
	PARASITES			7.7%	0.3%									24	7.6%
	DEFORMITY			1.0%	1.0%									3	0.9%
	EYE HEM													0	0.0%
PREDATION	BIRD			0.6%										2	0.6%
	FISH			2.2%	1.3%									7	2.2%
	LAMPREY			0.3%										1	0.3%
	OTHER													0	0.0%
end dates		6/28	6/21												

			INJURY					DISEASE and OTHER CONDITIONS					PREDATION		
MP- Macrophthalmia	End Date	SAMPLE #	BODY	EYE	HEAD	FIN	POPEYE	FIN HEM	Columnaris	FUNGUS	DEFORMITY	EYE HEM.	BIRD	FISH	
	This Week	6/28	0												
	Last Week	6/21	0												
AP - Ammocoetes		SAMPLE #													
	This Week	6/28	0												
	Last Week	6/21	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	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	1
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	1	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 macrophthalmia 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 fish teeth marks from attempted predation, sampled at the John Day Dam Smolt Facility on 26 June, 2024.



Hatchery origin Subyearling Fall Chinook smolt (*Oncorhynchus tshawytscha*), approximately 110 mm fork length, showing a severely distended abdomen, a typical symptom of Bacterial Kidney Disease (*Renibacterium salmoninarum*), similar to a specimen sampled at the John Day Dam Smolt Facility on 4 June, 2024.