

United States Army Corps of Engineers

John Day Dam Smolt and Juvenile Lamprey Condition Monitoring

Weekly Report, #24-16

Report Period: 7/13 – 7/19, 2024

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SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2023
A. River Flow	145.9	154.7	150.3	144.7	143.8
B. Powerhouse	94.7	99.8	97.3	92.8	92.4
C. Spill (kcfs)	50.3	53.9	52.1	50.7	50.3
% of River Flow	34.5	34.8	34.7	35.1	35.0%
D. Water Temp *	69.7	71.1	70.4	69.0	71.5
E. % Saturation *	108.0	0.0	108.4	113.6	105.6

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

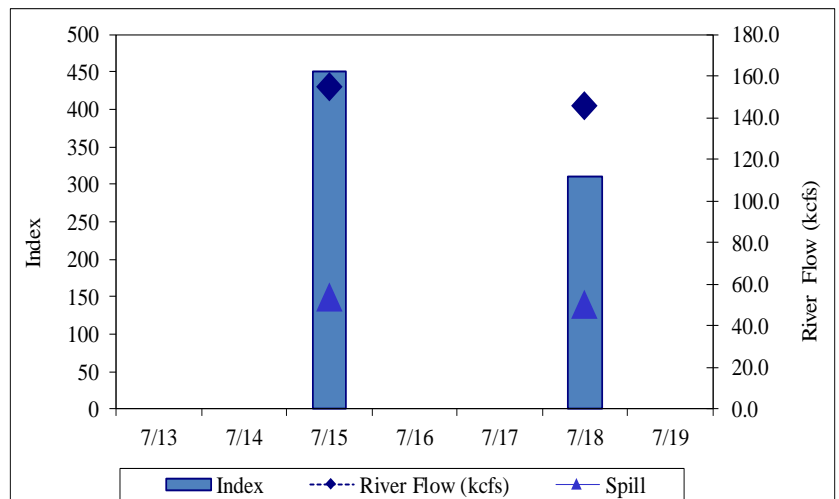
% SAMPLE COMPOSITION			This Week	Last Week
YEARLING CHINOOK	0.0%	0.0%		
SUBYEARLING CHINOOK	97.5%	99.1%		
CHINOOK FRY	0.0%	0.0%		
UNCLIPPED STEELHEAD	0.0%	0.0%		
CLIPPED STEELHEAD	0.0%	0.0%		
COHO	0.5%	0.0%		
COHO FRY	0.0%	0.0%		
SOCKEYE	2.0%	0.9%		

YEARLING CHINOOK							SUBYEARLING CHINOOK					COHO				
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
7/13	34.7%	0	0.0	0.0	0	0	100	3.0	0.0	290	447	0	0.0	0.0	0	0
7/14																
7/15																
7/16																
7/17	51.0%	0	0.0	0.0	0	0	99	8.1	0.0	193	296	1	0.0	0.0	2	3
7/18																
7/19																
Weekly		0	0.0	0.0	0	0	199	5.5	0.0	483	742	1	0.0	0.0	2	3
Season to date		4,127	2.3	0.0	56,351	93,291	3,221	2.6	0.0	81,071	128,707	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					
7/13	34.7%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	1	0.0	0.0	2	3					
7/14																					
7/15																					
7/16																					
7/17	51.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	3	0.0	0.0	7	11					
7/18																					
7/19																					
Weekly		0	0.0	0.0	0	0	0	0.0	0.0	0	0	4	0.0	0.0	9	14					
Season to date		286	5.2	0.0	4,323	7,164	911	7.4	0.0	16,018	26,729	617	3.7	0.0	8,072	13,372					

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
7/13	34.7%	101	3.0	0.0	292	450
7/14						
7/15						
7/16						
7/17	51.0%	103	7.8	0.0	202	309
7/18						
7/19						
Weekly		204	5.4	0.0	494	759
Season to date		9,741	3.2	0.0	175,380	285,167

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.



Western Brook

Ammocoetes

End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
7/13									
7/14									
7/15	1	0.0	2	0	0.0	0	0	0	0
7/16									
7/17									
7/18	0	0.0	0	1	0.0	2	0	0	0
7/19									
Weekly	1	0.0	2	1	0.0	2	0	0	0
Season to date	8	0.0	70	1	0.0	2	0	0	0

		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	This Week
SAMPLE #		0	0	199	318	0	0	0	0	1	0	4	3	204	100%
DESCALING	3-19%			5.0%	3.1%									10	4.9%
	>20%			1.0%	0.9%									2	1.0%
	Pred. Desc.			4.5%	2.5%									9	4.4%
INJURY	BODY			1.0%	0.9%									2	1.0%
	EYE													0	0.0%
	HEAD													0	0.0%
	OPERC.													0	0.0%
	FIN			3.0%	1.6%									6	2.9%
POPEYE													0	0.0%	
OTHER CONDITIONS	PINK FIN													0	0.0%
	Fin Discolor													0	0.0%
	FIN HEM			4.0%	2.8%									8	3.9%
DISEASE	Columnaris													0	0.0%
	FUNGUS				0.3%									0	0.0%
	BKD				0.6%									0	0.0%
	PARASITES			17.1%	34.0%									34	16.7%
	DEFORMITY				0.6%									0	0.0%
	EYE HEM													0	0.0%
PREDATION	BIRD			1.0%	0.3%									2	1.0%
	FISH			5.0%	3.1%									10	4.9%
	LAMPREY													0	0.0%
	OTHER													0	0.0%
end dates		7/19	7/12												

			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	7/19	1										100.0%		
Last Week	7/12	0												
AP - Ammocoetes		SAMPLE #												
	This Week	7/19	1											
	Last Week	7/12	0											

SECTION 3. Incidental Summary

	Bass - Largemouth	Bass - Smallmouth	Bluegill and Pumpkinseed	Bullhead	Carp	Catfish- Channel	Chiselmouth	Crappie species
This Week	0	1	0	0	0	0	0	0
Season to Date	0	5	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	1	0	1
Season to Date	0	0	0	0	1	1	0	119

	Redside Shiner	Sand Roller	Sculpin species	Stickleback 3 spine	Sucker species	Shad Adult	Shad Juvenile	Sturgeon White
This Week	0	0	5	0	0	0	6	0
Season to Date	0	0	11	0	1	0	7	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	1	0	0	0	0
Season to Date	0	0	0	31	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 very low for the week and consisted of bryozoans, a few small sticks, and some aquatic vegetation.

SECTION 5. Research

Two genetic fin clip samples were taken this week for the Columbia River Inter-Tribal Fish Commission during this report period, one from a Pacific Lamprey ammocoete and one from a Pacific Lamprey macrophthalmia.

SECTION 6. Pictures



Juvenile Smallmouth Bass (*Micropterus dolomieu*), approximately 35 mm fork length, sampled at the John Day Dam Smolt Facility on 18 July, 2024.



Juvenile Northern Pikeminnow (*Ptychocheilus oregonensis*), approximately 35 mm total length, sampled at the John Day Dam Smolt Facility on 18 July, 2024.