

United States Army Corps of Engineers

John Day Dam Smolt and Juvenile Lamprey Condition Monitoring

Weekly Report, #24-1

Report Period: 3/29 – 4/5, 2024

Prepared By: Gregory Kovalchuk



SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2023
A. River Flow	128.1	148.5	133.6		110.2
B. Powerhouse 1	116.7	137.4	122.3		108.9
C. Spill (kcfs)	9.9	10.0	9.9		0.0
% of River Flow	6.7	7.8	7.5		0.0
D. Water Temp *	47.8	48.5	48.1		45.0
E. % Saturation *	105.5	107.0	107.3		103.6

* In sampling facility and from TMT website.

% SAMPLE COMPOSITION		This Week	Last Week
YEARLING CHINOOK		96.2%	
SUBYEARLING CHINOOK		0.0%	
CHINOOK FRY		0.0%	
UNCLIPPED STEELHEAD		3.6%	
CLIPPED STEELHEAD		0.0%	
COHO		0.3%	
COHO FRY		0.0%	
SOCKEYE		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
3/30																
3/31																
4/1	50.0%	67	0.0	0.0	134	145	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/2	50.0%	72	2.8	0.0	144	156	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/3	50.0%	47	2.1	0.0	94	102	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/4	50.0%	41	2.4	0.0	82	88	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/5	50.0%	149	1.3	0.0	298	323	0	0.0	0.0	0	0	1	0.0	0.0	2	2
Weekly		376	1.6	0.0	752	814	0	0.0	0.0	0	0	1	0.0	0.0	2	2
Season to date		376	1.6	0.0	752	814	0	0.0	0.0	0	0	1	0.0	0.0	2	2

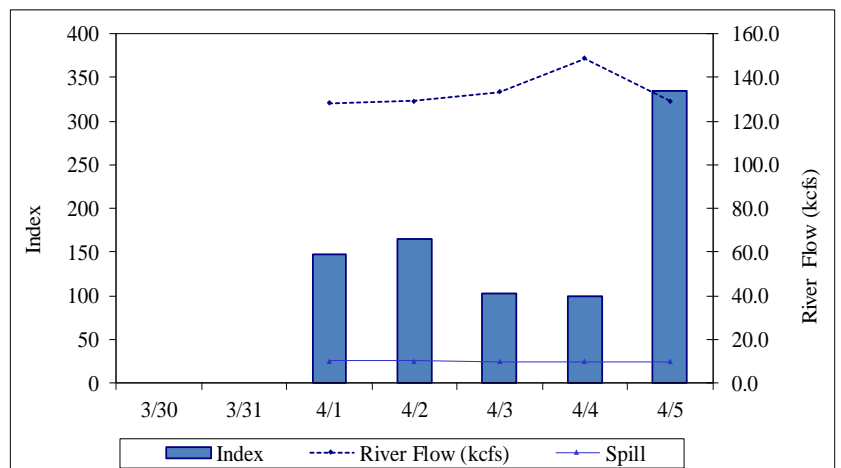
UNCLIPPED STEELHEAD							CLIPPED STEELHEAD					SOCKEYE				
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
3/30																
3/31																
4/1	50.0%	1	0.0	0.0	2	2	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/2	50.0%	4	0.0	0.0	8	9	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/3	50.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/4	50.0%	5	0.0	0.0	10	11	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/5	50.0%	4	0.0	0.0	8	9	0	0.0	0.0	0	0	0	0.0	0.0	0	0
Weekly		14	0.0	0.0	28	30	0	0.0	0.0	0	0	0	0.0	0.0	0	0
Season to date		14	0.0	0.0	28	30	0	0.0	0.0	0	0	0	0.0	0.0	0	0

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
3/30						
3/31						
4/1	50.0%	68	0.0	0.0	136	148
4/2	50.0%	76	2.6	0.0	152	165
4/3	50.0%	47	2.1	0.0	94	102
4/4	50.0%	46	2.2	0.0	92	99
4/5	50.0%	154	1.3	0.0	308	334
Weekly		391	1.5	0.0	782	847
Season to date		391	1.5	0.0	782	847

Notes: Condition percentages are calculated from sample numbers.

Subyearling chinook and coho include fry.

*Index estimates are based on the sample period only.



Western Brook

Ammocoetes

Ammocoetes

End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
3/30									
3/31									
4/1	0	0.0	0	0	0.0	0	0	0	0
4/2	0	0.0	0	0	0.0	0	0	0	0
4/3	0	0.0	0	0	0.0	0	0	0	0
4/4	0	0.0	0	0	0.0	0	0	0	0
4/5	1	0.0	2	0	0.0	0	0	0	0
Weekly	1	0.0	2	0	0.0	0	0	0	0
Season to date	1	0.0	2	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	
		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 #		376	0	0	0	14	0	0	0	1	0	0	0
DESCALING	3-19%	3.7%											
	>20%	0.3%											
	Pred. Desc.	1.3%											
INJURY	BODY	0.8%											
	EYE												
	HEAD												
	OPERC.												
	FIN	1.1%											
OTHER CONDITIONS	POPEYE												
	PINK FIN												
DISEASE	Fin Discolor.	0.3%											
	FIN HEM.												
	Columnaris	0.8%											
	FUNGUS												
	BKD	0.5%											
PARASITES	DEFORMITY	0.5%											
	EYE HEM.	0.5%											
PREDATION	BIRD	1.1%											
	FISH	2.4%											
	LAMPREY	0.3%											
	OTHER												
end dates		4/5	3/29										

			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	4/5	1												
Last Week	3/29	0												
AP - Ammocoetes		#												
This Week	4/5	0												
Last Week	3/29	0												

SECTION 3. Incidental Summary

	Bass - Largemouth	Bass - Smallmouth	Bluegill and Pumpkinseed	Bullhead	Carp	Catfish- Channel	Chiselmouth	Crappie species
This Week	0	0	2	0	0	0	0	1
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	9

	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	0	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	4	0	25	0	1
Season to Date	0	0	0	4	0	25	0	1

SECTION 4. Facility Operations

This is the first weekly summary for the 2024 sampling season, which started at 0700 hrs on 1 April. Condition Monitoring at John Day Dam is scheduled to sample Monday through Friday until 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.

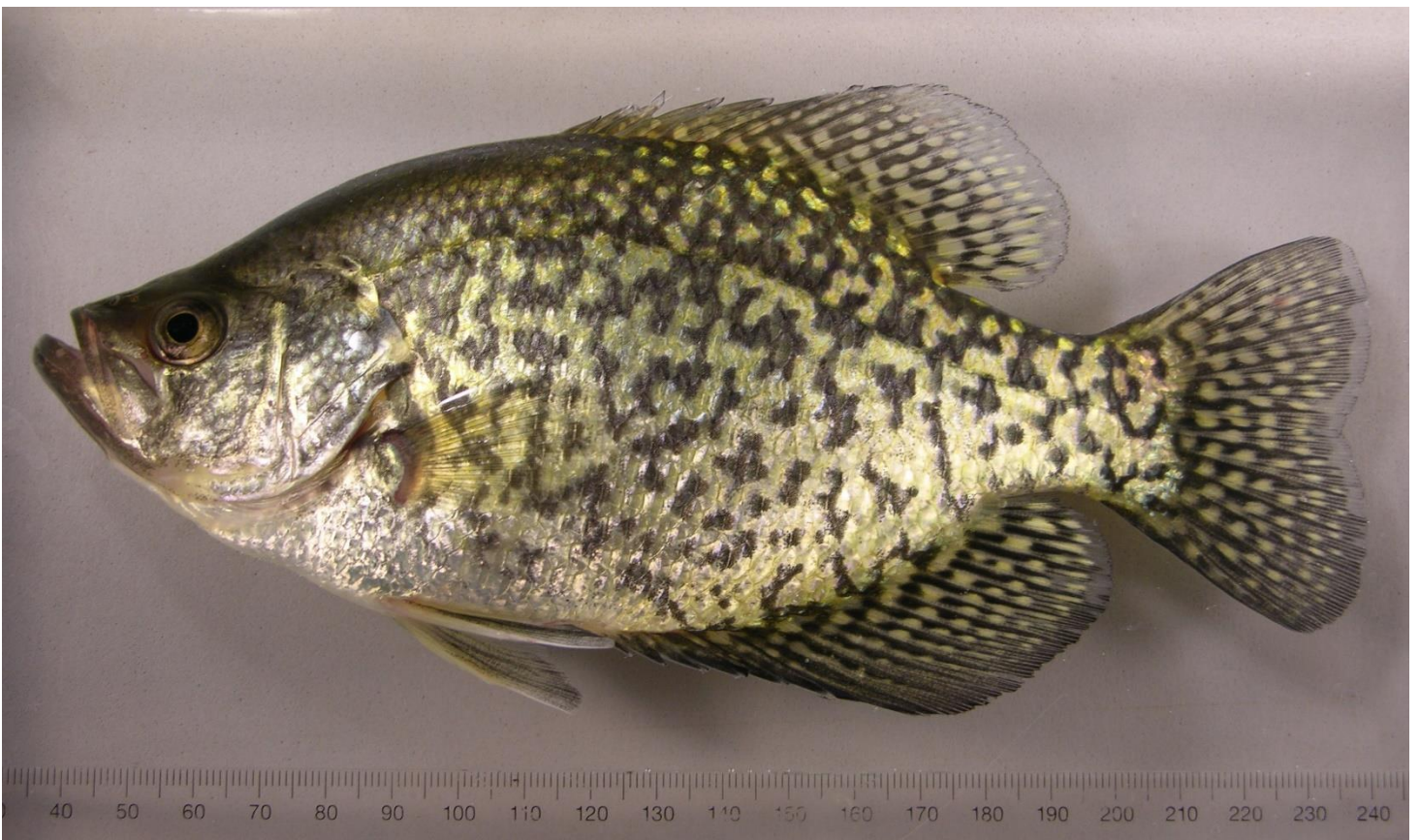
SECTION 5. Research

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



Pacific Lamprey *Macrophthalmia* (*Entosphenus tridentatus*), approximately 150 mm total length, sampled at the John Day Dam Smolt Facility on 5 April, 2024.



Adult Crappie (*Pomoxis* sp.), approximately 190 mm total length, sampled at the John Day Dam Smolt Facility on 5 April, 2024.