

Pacific States Marine Fisheries Commission

John Day Dam Condition Monitoring Weekly Report, #22-1

Report Period: 4/4 – 4/8, 2022

Project Leader: Rick Martinson

Prepared By: Gregory Kovalchuk and Aaron Young



SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2021
A. River Flow	149.0	188.5	172.8		125.7
B. Powerhouse 1	148.2	187.3	171.8		124.3
C. Powerhouse 2	0.0	0.0	0.0		0.0
D. Spill (kcfs)	0.0	0.0	0.0		0.0
% of River Flow	0.0	0.0	0.0		0.0
E. Water Temp *	47.1	48.2	47.4		47.2
F. % Saturation *	101.6	106.5	103.3		105.4

* In sampling facility.

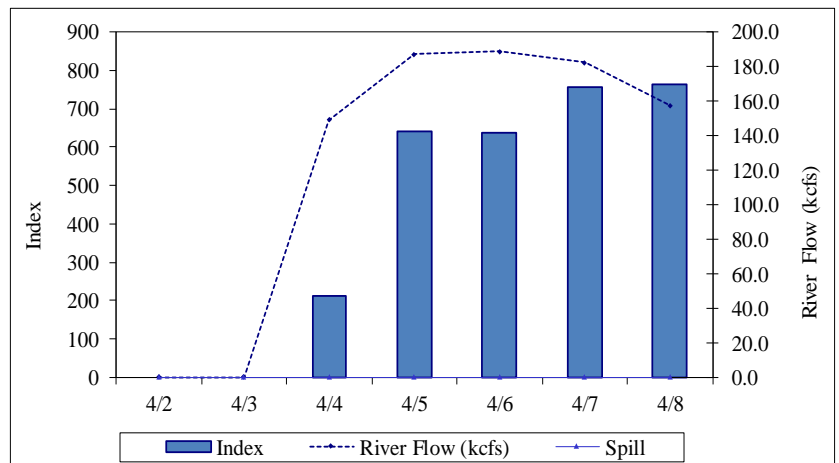
% SAMPLE COMPOSITION		This Week	Last Week
YEARLING CHINOOK		87.8%	
SUBYEARLING CHINOOK		0.0%	
CHINOOK FRY		0.0%	
UNCLIPPED STEELHEAD		2.6%	
CLIPPED STEELHEAD		9.3%	
COHO		0.3%	
COHO FRY		0.0%	
SOCKEYE		0.0%	

YEARLING CHINOOK							SUBYEARLING CHINOOK					COHO				
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
4/2		0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/3		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%	100	1.0	0.0	200	200	0	0.0	0.0	0	0	1	0.0	0.0	2	2
4/5	18.3%	115	1.7	0.0	634	634	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/6	20.7%	115	0.9	0.0	553	553	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/7	16.2%	109	0.9	0.0	656	656	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/8	24.6%	146	0.7	0.0	592	592	0	0.0	0.0	0	0	1	0.0	0.0	4	4
Weekly		585	1.0	0.0	2,635	2,635	0	0.0	0.0	0	0	2	0.0	0.0	6	6
Season to date		692	1.0	0.0	2,891	2,891	0	0.0	0.0	0	0	2	0.0	0.0	6	6

End Date	Sample Rate	UNCLIPPED STEELHEAD					CLIPPED STEELHEAD					SOCKEYE				
		# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
4/2		0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/3		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	10	1	0.0	0.0	2	2	0	0.0	0.0	0	0
4/5	18.3%	0	0.0	0.0	0	0	2	0.0	0.0	8	8	0	0.0	0.0	0	0
4/6	20.7%	7	1.0	0.0	35	35	10	10.0	0.0	49	49	0	0.0	0.0	0	0
4/7	16.2%	1	0.0	0.0	10	10	12	0.0	0.0	89	89	0	0.0	0.0	0	0
4/8	24.6%	4	0.0	0.0	16	16	37	8.1	0.0	151	151	0	0.0	0.0	0	0
Weekly		17	5.9	0.0	71	71	62	6.5	0.0	299	299	0	0.0	0.0	0	0
Season to date		18	5.6	0.0	75	75	62	6.5	0.0	299	299	0	0.0	0.0	0	0

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
4/2		0	0.0	0.0	0	0
4/3		0	0.0	0.0	0	0
4/4	50.0%	107	0.9	0.0	214	214
4/5	18.3%	117	1.7	0.0	642	642
4/6	20.7%	132	2.3	0.0	637	637
4/7	16.2%	122	0.8	0.0	755	755
4/8	24.6%	188	2.1	0.0	763	763
Weekly		666	1.7	0.0	3,011	3,011
Season to date		774	1.6	0.0	3,271	3,271

Notes: Condition percentages are calculated from sample numbers.
Subyearling chinook and coho include fry.



Western Brook

	Macrophthalmia			Ammocoetes			Ammocoetes		
End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
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	4	0	0.0	0	0	0	0
4/6	2	0.0	9	0	0.0	0	0	0	0
4/7	1	0.0	5	0	0.0	0	0	0	0
4/8	2	0.0	10	0	0.0	0	0	0	0
Weekly	6	0.0	28	0	0.0	0	0	0	0
Season to date	7	0.0	30	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 #		585	107	0	0	17	1	62	0	2	0	0	0
DESCALING	3-19%	3.8%	5.6%			11.8%		6.5%					
	>20%	0.5%	0.9%										
	Pred. Desc.	0.5%				5.9%		6.5%					
INJURY	BODY	1.4%	0.9%							50.0%			
	EYE	0.2%											
	HEAD												
	OPERC.							1.6%					
	FIN	0.3%				11.8%		1.6%					
	POPEYE		0.9%										
OTHER CONDITIONS	PINK FIN												
	Fin Discolor. FIN HEM.		0.9%										
DISEASE	Columnaris												
	FUNGUS	0.5%						1.6%					
	BKD												
	PARASITES					11.8%		1.6%					
	DEFORMITY												
	EYE HEM.	0.2%											
PREDATION	BIRD	0.7%	0.9%			5.9%		11.3%					
	FISH	0.5%				5.9%							
	LAMPREY												
	OTHER												
end dates		4/8	4/2										

[illegible]

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	1
Season to Date	0	0	0	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	34
Season to Date	0	0	0	0	0	0	0	59

	Redside Shiner	Sand Roller	Sculpin species	Stickleback 3 spine	Sucker species	Shad Adult	Shad Juvenile	Sturgeon White
This Week	0	0	2	2	0	0	0	0
Season to Date	0	0	4	2	0	0	0	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Other/Not Listed
This Week	0	0	0	0	0	27	0	0
Season to Date	0	0	0	0	0	35	0	0

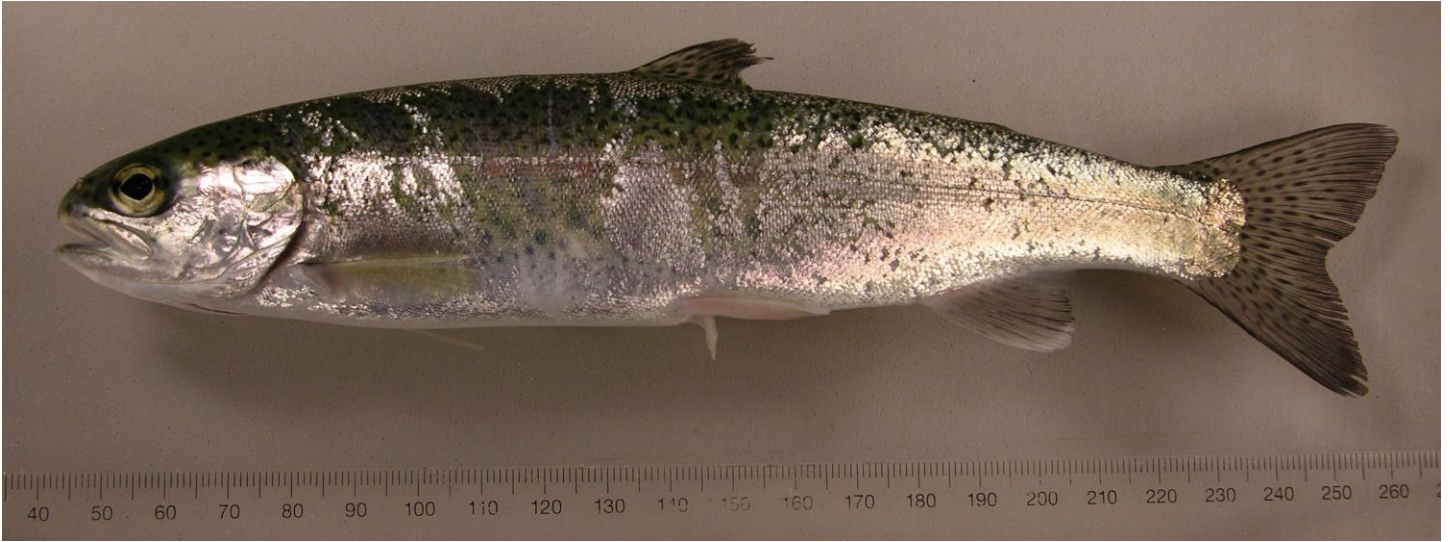
SECTION 4. Facility Operations

Condition Monitoring at John Day Dam is scheduled to sample Monday through Friday until early 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. Debris at the separator bars was low for part of the week but increased substantially during the last two days of sampling. Debris consisted of sticks, plastic, and pieces of terrestrial vegetation.

SECTION 5. Research

Genetic fin clip samples were taken from 6 Pacific Lamprey macrophthalmia for the Columbia River Inter-Tribal Fish Commission during this report period.

SECTION 6. Pictures



Hatchery Steelhead smolt with descaling and avian predation scars, sampled on 8 April, 2022 at the John Day Smolt Facility.



Yearling fall Chinook smolt "Holdover" (*Oncorhynchus tshawytscha*), similar to one sampled on 4 April, 2022 at the John Day Dam Smolt Monitoring Facility.