

# Pacific States Marine Fisheries Commission

## John Day Dam Condition Monitoring Weekly Report, #23-3

Report Period: 4/15 – 4/21, 2023

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### SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2022
A. River Flow	133.1	145.5	137.6	143.7	131.2
B. Powerhouse 1	78.2	90.5	85.1	78.6	73.3
C. Powerhouse 2	0.0	0.0	0.0	0.0	0.0
D. Spill (kcfs)	42.7	61.8	51.3	64.0	56.7
% of River Flow	32.1	42.5	37.2	44.6	43.1
E. Water Temp *	47.9	49.0	48.3	47.1	47.9
F. % Saturation *	105.4	108.1	106.5	104.3	106.5

\* In sampling facility.

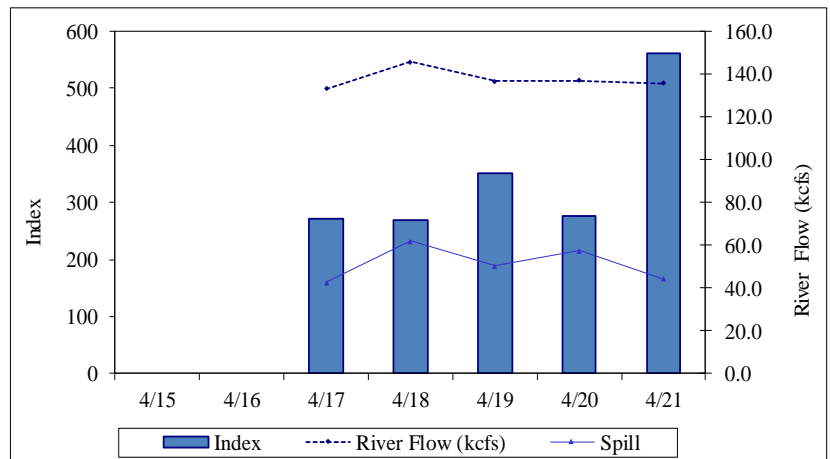
% SAMPLE COMPOSITION	This Week Last Week	
YEARLING CHINOOK	87.7%	94.4%
SUBYEARLING CHINOOK	0.0%	0.0%
CHINOOK FRY	1.1%	2.3%
UNCLIPPED STEELHEAD	5.9%	3.0%
CLIPPED STEELHEAD	4.9%	0.0%
COHO	0.4%	0.2%
COHO FRY	0.0%	0.0%
SOCKEYE	0.0%	0.0%

YEARLING CHINOOK							SUBYEARLING CHINOOK					COHO				
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
4/15																
4/16																
4/17	59.2%	102	1.0	0.0	164	242	5	0.0	0.0	5	7	0	0.0	0.0	0	0
4/18	58.3%	82	0.0	1.2	141	247	0	0.0	0.0	0	0	1	0.0	0.0	1	2
4/19	52.0%	100	1.0	0.0	200	319	0	0.0	0.0	0	0	1	0.0	0.0	1	2
4/20	73.9%	103	4.9	0.0	139	241	1	0.0	0.0	2	3	0	0.0	0.0	0	0
4/21	32.0%	100	1.0	0.0	326	485	0	0.0	0.0	0	0	0	0.0	0.0	0	0
Weekly		487	1.6	0.2	970	1,534	6	0.0	0.0	7	11	2	0.0	0.0	2	3
Season to date		1,329	1.7	0.2	2,533	3,682	16	0.0	0.0	29	50	4	0.0	0.0	9	13

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
4/15																					
4/16																					
4/17	59.2%	5	0.0	0.0	14	21	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/18	58.3%	5	0.0	0.0	9	16	1	0.0	0.0	2	4	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/19	52.0%	9	0.0	0.0	15	24	5	0.0	0.0	5	8	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/20	73.9%	7	0.0	0.0	11	19	7	14.3	0.0	8	14	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/21	32.0%	7	0.0	0.0	14	21	14	7.1	0.0	38	57	0	0.0	0.0	0	0	0	0.0	0.0	0	0
Weekly		33	0.0	0.0	63	100	27	7.4	0.0	53	82	0	0.0	0.0	0	0	0	0.0	0.0	0	0
Season to date		47	2.1	0.0	102	164	27	7.4	0.0	53	82	0	0.0	0.0	0	0	0	0.0	0.0	0	0

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
4/15						
4/16						
4/17	59.2%	112	0.9	0.0	183	271
4/18	58.3%	89	0.0	1.1	153	268
4/19	52.0%	115	0.9	0.0	221	352
4/20	73.9%	118	5.1	0.0	160	277
4/21	32.0%	121	1.7	0.0	378	562
Weekly		555	1.8	0.2	1,095	1,730
Season to date		1,423	1.8	0.1	2,726	3,991

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



Pacific Lamprey							Western Brook		
Macrophthalmia				Ammocoetes			Ammocoetes		
End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
4/15									
4/16									
4/17	7	0.0	14	6	0.0	14	0	0	0
4/18	0	0.0	0	2	0.0	3	0	0	0
4/19	0	0.0	0	0	0.0	0	0	0	0
4/20	1	0.0	1	3	0.0	4	0	0	0
4/21	0	0.0	0	0	0.0	0	0	0	0
Weekly	8	0.0	15	11	0.0	21	0	0	0
Season to date	173	0.0	422	99	0.0	398	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 #		486	403	0	0	33	13	27	0	2	1	0	0
DESCALING	3-19%	2.5%	3.0%					11.1%					
	>20%	0.6%	0.5%										
	Pred. Desc.	1.0%	0.5%			7.7%		7.4%					
INJURY	BODY	0.8%	1.0%										
	EYE	0.6%	0.2%										
	HEAD	0.4%	0.2%										
	OPERC.		0.2%										
	FIN	1.9%	1.5%										
POPEYE			0.2%										
OTHER CONDITIONS	PINK FIN												
	Fin Discolor.												
	FIN HEM.	0.8%	1.0%					3.7%					
DISEASE	Columnaris	0.2%											
	FUNGUS	2.9%											
	BKD	0.4%	0.5%										
	PARASITES	0.2%				9.1%	38.5%						
	DEFORMITY	0.4%	0.2%										
EYE HEM.		0.2%	0.2%										
PREDATION	BIRD	1.9%	2.7%				7.7%	18.5%					
	FISH	0.4%	1.0%										
	LAMPREY												
OTHER													
end dates		4/21	4/14										

			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	4/21	8												
Last Week	4/14	164												
AP - Ammocoetes														
This Week	4/21	11	9.1%											
Last Week	4/14	88	5.7%			1.1%		1.1%						

### **SECTION 3. Incidental Summary**

	Bass Largemouth	Bass Smallmouth	Bluegill and Pumpkinseed	Bullhead	Carp	Catfish, Channel	Chiselmouth	Crappie species
This Week	0	0	2	0	1	0	0	0
Season to Date	0	2	3	0	2	0	0	6

	Dace - Longnose	Dace - Speckled	Chinook Jack	Kokanee	Lamprey Adult	Northern Pikeminnow	Peamouth	Perch Yellow
This Week	0	0	0	0	0	0	0	6
Season to Date	0	0	0	0	0	0	0	52

	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	0	0
Season to Date	0	0	9	3	0	0	0	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	8	0	72	0	0
Season to Date	0	0	0	17	0	131	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. Collection, Index, and River flow estimates and averages are for the sample period only. Debris at the separator bars was low for the week. Debris consisted of sticks, plastic, and pieces of terrestrial vegetation.

### **SECTION 5. Research**

Genetic fin clip samples were taken from 8 Pacific Lamprey *macrophthalmia* and 11 Pacific Lamprey ammocoetes for the Columbia River Inter-Tribal Fish Commission during this report period.

## SECTION 6. Pictures



Yearling Spring Chinook smolt (*Oncorhynchus tshawytscha*), approximately 185 mm fork length, showing fungal growth on its fins and tail, similar to one sampled at the John Day Dam Smolt Facility on 21 April, 2023.



Steelhead smolt (*Oncorhynchus mykiss*), approximately 235 mm fork length, showing descaling and avian predator marks on body and caudal peduncle.