

# Pacific States Marine Fisheries Commission

## John Day Dam Condition Monitoring Weekly Report, #23-4

Report Period: 4/22 – 4/28, 2023

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### SECTION 1. River Flow and Sampling Results

	Mean				
	Min	Max	Current	Last Week	2022
A. River Flow	126.2	154.0	139.9	137.6	139.4
B. Powerhouse 1	80.3	90.8	86.6	85.1	83.3
C. Spill (kcfs)	39.9	63.9	52.0	51.3	54.7
% of River Flow	31.6	41.5	36.9	37.2	39.2
D. Water Temp *	49.8	53.5	51.6	48.3	49.8
E. % Saturation *	108.1	114.0	109.9	106.5	110.2

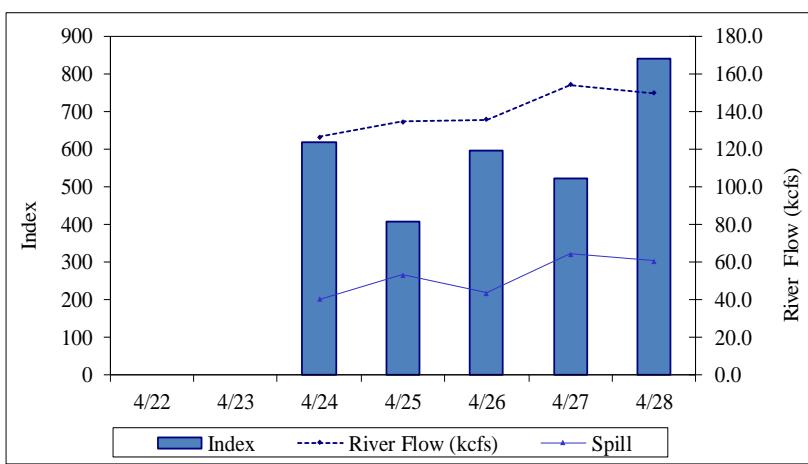
\* TDG data from USGS forebay sensor, water temp from lab and USGS sensor.

% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	88.9%	87.7%
SUBYEARLING CHINOOK	0.0%	0.0%
CHINOOK FRY	0.7%	1.1%
UNCLIPPED STEELHEAD	3.4%	5.9%
CLIPPED STEELHEAD	6.8%	4.9%
COHO	0.2%	0.4%
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	
4/22																	
4/23																	
4/24	28.9%	105	1.0	1.0	387	570	0	0.0	0.0	0	0	1	0.0	0.0	1	1	
4/25	44.3%	102	1.0	2.0	230	381	0	0.0	0.0	0	0	0	0.0	0.0	0	0	
4/26	26.5%	98	1.0	0.0	376	555	0	0.0	0.0	0	0	0	0.0	0.0	0	0	
4/27	40.1%	109	0.9	0.0	276	474	3	0.0	33.3	8	14	0	0.0	0.0	0	0	
4/28	25.5%	106	3.8	0.0	423	710	1	0.0	0.0	2	3	0	0.0	0.0	0	0	
Weekly		520	1.5	0.6	1,692	2,690	4	0.0	25.0	10	17	1	0.0	0.0	1	1	
Season to date		1,849	1.6	0.3	4,225	6,372	20	0.0	5.0	39	67	5	0.0	0.0	10	14	

UNCLIPPED						STEELHEAD						CLIPPED						SOCKEYE					
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index		
4/22																							
4/23																							
4/24	28.9%	3	0.0	0.0	9	13	12	0.0	0.0	21	31	0	0.0	0.0	0	0	0	0.0	0.0	0	0		
4/25	44.3%	4	0.0	0.0	8	13	2	0.0	0.0	6	10	0	0.0	0.0	0	0	0	0.0	0.0	0	0		
4/26	26.5%	4	0.0	0.0	12	18	5	20.0	0.0	16	24	0	0.0	0.0	0	0	0	0.0	0.0	0	0		
4/27	40.1%	2	0.0	0.0	4	7	8	0.0	0.0	16	27	0	0.0	0.0	0	0	0	0.0	0.0	0	0		
4/28	25.5%	7	1.0	0.0	25	42	13	7.7	0.0	49	82	0	0.0	0.0	0	0	0	0.0	0.0	0	0		
Weekly		20	5.0	0.0	58	93	40	5.0	0.0	108	174	0	0.0	0.0	0	0	0	0.0	0.0	0	0		
Season to date		67	3.0	0.0	160	257	67	6.0	0.0	161	256	0	0.0	0.0	0	0	0	0.0	0.0	0	0		

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
4/22						
4/23						
4/24	28.9%	121	0.8	0.8	418	615
4/25	44.3%	108	0.9	1.9	244	404
4/26	26.5%	107	1.9	0.0	404	596
4/27	40.1%	122	0.8	0.8	304	522
4/28	25.5%	127	4.7	0.0	499	838
Weekly		585	1.9	0.7	1,869	2,976
Season to date		2,008	1.8	0.3	4,595	6,967



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

Pacific Lamprey						Western Brook Ammocoetes			
Macrophthalmia			Ammocoetes			Ammocoetes			
End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
4/22									
4/23									
4/24	0	0.0	0	0	0.0	0	0	0	0
4/25	1	0.0	2	0	0.0	0	0	0	0
4/26	1	0.0	4	0	0.0	0	0	0	0
4/27	0	0.0	0	0	0.0	0	0	0	0
4/28	0	0.0	0	2	0.0	7	0	0	0
Weekly	2	0.0	6	2	0.0	7	0	0	0
Season to date	175	0.0	428	101	0.0	405	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 #	517	486	0	0	20	33	40	27	1	2	0	0
<b>DESCALING</b>	3-19%	3.1%	2.5%			10.0%			7.5%	11.1%		
	>20%		0.6%									
	Pred. Desc.	1.5%	1.0%			5.0%			5.0%	7.4%		
<b>INJURY</b>	BODY	1.0%	0.8%									
	EYE	0.4%	0.6%									
	HEAD	0.2%	0.4%									
	OPERC.	0.2%										
	FIN	0.8%	1.9%			10.0%						
<b>OTHER CONDITIONS</b>	PINK FIN											
	Fin Discolor.											
	FIN HEM.	1.0%	0.8%							3.7%		
<b>DISEASE</b>	Columnaris											
	FUNGUS											
	BKD											
	PARASITES	0.2%	0.2%									
	DEFORMITY		0.4%									
	EYE HEM.	0.4%	0.2%									
<b>PREDATION</b>	BIRD	1.4%	1.9%									
	FISH	2.1%	0.4%									
	LAMPREY											
	OTHER											
end dates		4/28	4/21									

### SECTION 3. Incidental Summary

	Bass Largemouth	Bass Smallmouth	Bluegill and Pumpkinseed	Bullhead	Carp	Catfish, Channel	Chiselmouth	Crappie species
This Week	0	1	2	0	0	1	0	1
Season to Date	0	3	5	0	2	1	0	7

	Dace - Longnose	Dace - Speckled	Chinook Jack	Kokanee	Lamprey Adult	Northern Pikeminnow	Peamouth	Perch Yellow
This Week	0	0	0	0	0	0	0	5
Season to Date	0	0	0	0	0	0	0	57

	Redside Shiner	Sand Roller	Sculpin species	Stickleback 3 spine	Sucker species	Shad Adult	Shad Juvenile	Sturgeon White
This Week	0	0	1	1	0	0	0	0
Season to Date	0	0	10	4	0	0	0	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	3	0	11	0	0
Season to Date	0	0	0	20	0	142	0	0

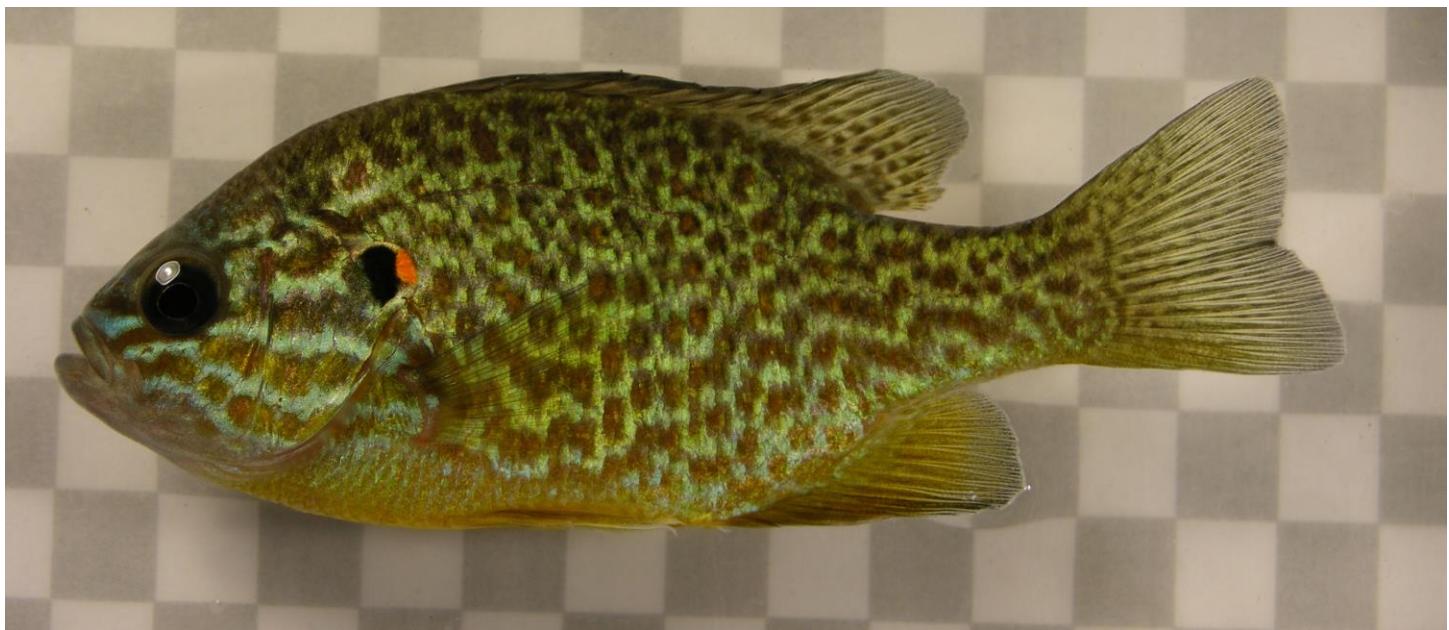
### SECTION 4. Facility Operations

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, which was Yearling Spring Chinook again this week. 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 2 Pacific Lamprey macrourhthalmia and 3 Pacific Lamprey ammocoetes for the Columbia River Inter-Tribal Fish Commission during this report period.

## SECTION 6. Pictures



Pumpkinseed (*Lepomis gibbosus*), approximately 120 mm fork length, similar to one sampled at the John Day Dam Smolt Facility on 27 April, 2023.



Bluegill (*Lepomis macrochirus*), approximately 95 mm fork length, similar to one sampled at the John Day Dam Smolt Facility on 26 April, 2023.