

# Pacific States Marine Fisheries Commission

## John Day Dam Condition Monitoring Weekly Report, #23-2

Report Period: 4/8 – 4/14, 2023

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### SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2022
A. River Flow	111.8	168.0	143.7	110.2	161.1
B. Powerhouse 1	59.6	99.8	78.6	108.9	105.3
C. Spill (kcfs)	47.6	79.6	64.0	0.0	54.7
% of River Flow	32.2	50.3	44.6	0.0	33.8
D. Water Temp *	46.7	47.5	47.1	45.0	47.7
E. % Saturation *	103.9	104.8	104.3	103.6	102.7

\* In sampling facility.

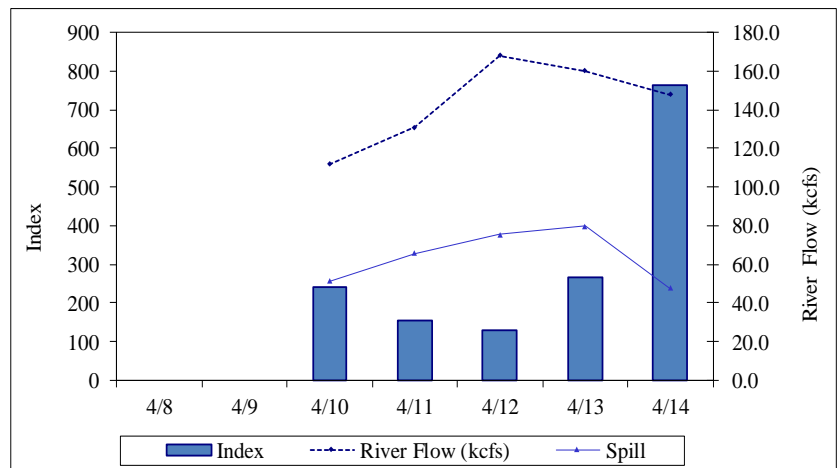
% SAMPLE COMPOSITION	This Week Last Week	
YEARLING CHINOOK	94.4%	99.5%
SUBYEARLING CHINOOK	0.0%	0.0%
CHINOOK FRY	2.3%	0.0%
UNCLIPPED STEELHEAD	3.0%	0.2%
CLIPPED STEELHEAD	0.0%	0.0%
COHO	0.2%	0.2%
COHO FRY	0.0%	0.0%
SOCKEYE	0.0%	0.0%

YEARLING CHINOOK							SUBYEARLING CHINOOK					COHO				
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
4/8																
4/9																
4/10	81.5%	106	1.9	0.0	130	242	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/11	100.0%	73	0.0	0.0	73	149	2	0.0	0.0	2	4	0	0.0	0.0	0	0
4/12	100.0%	68	1.5	0.0	68	124	1	0.0	0.0	1	2	0	0.0	0.0	0	0
4/13	50.0%	56	0.0	0.0	112	225	5	0.0	0.0	10	20	0	0.0	0.0	0	0
4/14	20.8%	100	1.0	0.0	478	706	2	0.0	0.0	9	13	1	0.0	0.0	5	7
Weekly		403	1.0	0.0	861	1,446	10	0.0	0.0	22	39	1	0.0	0.0	5	7
Season to date		842	1.7	0.1	1,563	2,148	10	0.0	0.0	22	39	2	0.0	0.0	7	9

End Date	Sample Rate	UNCLIPPED STEELHEAD					CLIPPED STEELHEAD					SOCKEYE				
		# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
4/8																
4/9																
4/10	81.5%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/11	100.0%	1	0.0	0.0	1	2	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/12	100.0%	2	0.0	0.0	2	4	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/13	50.0%	5	1.0	0.0	10	20	0	0.0	0.0	0	0	0	0.0	0.0	0	0
4/14	20.8%	5	0.0	0.0	25	37	0	0.0	0.0	0	0	0	0.0	0.0	0	0
Weekly		13	7.7	0.0	38	63	0	0.0	0.0	0	0	0	0.0	0.0	0	0
Season to date		14	7.1	0.0	39	64	0	0.0	0.0	0	0	0	0.0	0.0	0	0

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
4/8						
4/9						
4/10	81.5%	106	1.9	0.0	130	242
4/11	100.0%	76	0.0	0.0	76	155
4/12	100.0%	71	1.4	0.0	71	130
4/13	50.0%	66	1.5	0.0	132	265
4/14	20.8%	108	0.9	0.0	517	764
Weekly		427	1.2	0.0	926	1,555
Season to date		868	1.7	0.1	1,631	2,261

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
4/8									
4/9									
4/10	0	0.0	0	0	0.0	0	0	0	0
4/11	4	0.0	4	0	0.0	0	0	0	0
4/12	68	0.0	68	0	0.0	0	0	0	0
4/13	38	0.0	76	17	0.0	34	0	0	0
4/14	54	0.0	258	71	0.0	343	0	0	0
Weekly	164	0.0	406	88	0.0	377	0	0	0
Season to date	165	0.0	407	88	0.0	377	0	0	0

## **SECTION 2. Smolt and Lamprey Condition Monitoring Summary**

		<b>Yearling Chinook</b>		<b>Subyearling Chinook</b>		<b>Unclipped Steelhead</b>		<b>Clipped Steelhead</b>		<b>Coho</b>		<b>Sockeye</b>	
		This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week
	<b>SAMPLE #</b>	<b>403</b>	<b>438</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>DESCALING</b>	3-19%	3.0%	3.2%										
	>20%	0.5%	0.5%										
	Pred. Desc.	0.5%	1.8%			7.7%							
<b>INJURY</b>	BODY	1.0%	1.4%										
	EYE	0.2%											
	HEAD	0.2%											
	OPERC.	0.2%	0.2%										
	FIN	1.5%	2.5%										
	POPEYE	0.2%											
<b>OTHER CONDITIONS</b>	PINK FIN												
	Fin Discolor. FIN HEM.	1.0%	0.2%										
<b>DISEASE</b>	Columnaris												
	FUNGUS		2.7%										
	BKD	0.5%	0.9%										
	PARASITES					38.5%							
	DEFORMITY EYE HEM.	0.2% 0.2%	0.2% 0.2%										
<b>PREDATION</b>	BIRD	2.7%	1.1%			7.7%							
	FISH	1.0%	1.1%										
	LAMPREY												
	OTHER												
end dates		4/14	4/7										

			INJURY					DISEASE and OTHER CONDITIONS					PREDATION	
MP- Macrophthalmia This Week Last Week	End Date	SAMPLE #	BODY	EYE	HEAD	FIN	POPEYE	FIN HEM	Columnaris	FUNGUS	DEFORMITY	EYE HEM.	BIRD	FISH
	4/14	164				0.6%	0.6%					0.6%		9.8%
	4/7	1												
AP - Ammocoetes This Week Last Week		SAMPLE #												
	4/14	88	5.7%		1.1%			1.1%						
	4/7	0												

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

	Bass Largemouth	Bass Smallmouth	Bluegill and Pumpkinseed	Bullhead	Carp	Catfish, Channel	Chiselmouth	Crappie species
This Week	0	2	1	0	1	0	0	1
Season to Date	0	2	1	0	1	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	24
Season to Date	0	0	0	0	0	0	0	46

	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	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	7	0	44	0	0
Season to Date	0	0	0	9	0	59	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 164 Pacific Lamprey macrophthalmia and 88 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 162 mm fork length, showing popeye and eye hemorrhaging, sampled at the John Day Dam Smolt Facility on 10 April, 2023.