

# Pacific States Marine Fisheries Commission

## John Day Dam Condition Monitoring Weekly Report, #22-4

Report Period: 4/23 – 4/29, 2022

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### SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2021
A. River Flow	121.2	157.7	139.4	136.5	166.3
B. Powerhouse 1	71.5	87.2	79.6	79.4	84.8
C. Powerhouse 2	0.0	0.0	0.0	0.0	0.0
D. Spill (kcfs)	38.8	69.4	58.5	55.8	80.2
% of River Flow	32.0	48.0	41.6	41.1	47.8
E. Water Temp *	49.6	50.7	50.1	48.0	52.4
F. % Saturation *	109.9	110.6	110.3	108.1	105.4

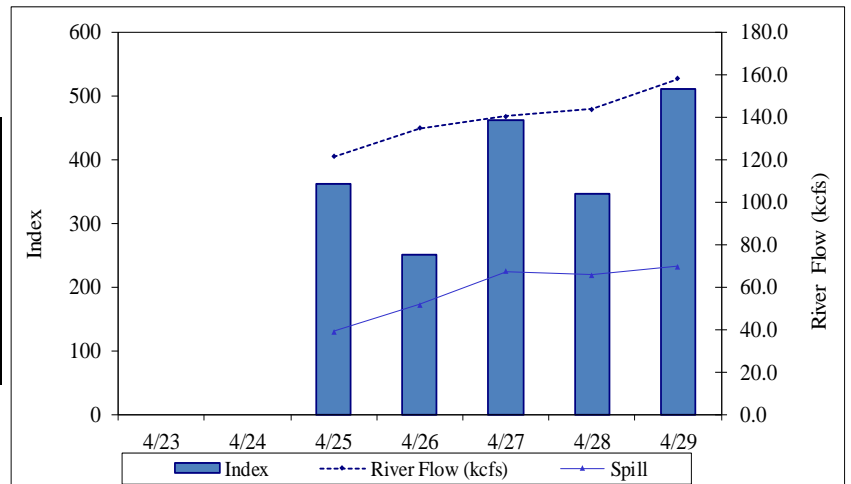
\* TDG data from USGS forebay sensor, water temp from lab and USGS sensor.

% SAMPLE COMPOSITION		This Week	Last Week
YEARLING CHINOOK		74.2%	82.2%
SUBYEARLING CHINOOK		0.0%	0.2%
CHINOOK FRY		0.3%	0.2%
UNCLIPPED STEELHEAD		5.0%	3.0%
CLIPPED STEELHEAD		15.3%	14.2%
COHO		4.9%	0.3%
COHO FRY		0.0%	0.0%
SOCKEYE		0.3%	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
4/23	NA															
4/24	NA															
4/25	56.1%	104	3.8	0.0	182	269	0	0.0	0.0	0	0	3	0.0	0.0	6	9
4/26	79.4%	98	2.0	0.0	125	204	0	0.0	0.0	0	0	2	0.0	0.0	2	3
4/27	57.1%	101	0.0	0.0	177	344	0	0.0	0.0	0	0	5	0.0	0.0	8	16
4/28	75.9%	100	0.0	1.0	133	247	0	0.0	0.0	0	0	9	11.1	0.0	12	22
4/29	50.0%	100	2.0	0.0	200	359	2	0.0	0.0	4	7	14	0.0	0.0	28	50
Weekly		503	1.6	0.2	817	1,422	2	0.0	0.0	4	7	33	3.0	0.0	56	100
Season to date		2,243	2.0	0.2	5,066	6,650	4	0.0	0.0	6	10	37	2.7	0.0	65	111

UNCLIPPED STEELHEAD							CLIPPED STEELHEAD					SOCKEYE				
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
4/23	NA															
4/24	NA															
4/25	56.1%	8	0.0	0.0	15	22	22	13.6	0.0	41	61	0	0.0	0.0	0	0
4/26	79.4%	4	0.0	0.0	5	8	18	16.7	0.0	22	36	0	0.0	0.0	0	0
4/27	57.1%	7	0.0	0.0	13	25	22	0.0	0.0	40	78	0	0.0	0.0	0	0
4/28	75.9%	11	0.0	0.0	13	24	22	9.1	0.0	28	52	0	0.0	0.0	0	0
4/29	50.0%	4	0.0	0.0	8	14	20	5.0	0.0	40	72	2	0.0	0.0	4	7
Weekly		34	0.0	0.0	54	94	104	8.7	0.0	171	298	2	0.0	0.0	4	7
Season to date		81	1.2	0.0	166	231	361	8.6	0.3	722	1,033	2	0.0	0.0	4	7

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
4/23	NA					
4/24	NA					
4/25	56.1%	137	5.1	0.0	244	361
4/26	79.4%	122	4.1	0.0	154	251
4/27	57.1%	135	0.0	0.0	238	462
4/28	75.9%	142	2.1	0.7	186	345
4/29	50.0%	142	2.1	0.0	284	510
Weekly		678	2.7	0.1	1,106	1,929
Season to date		2,728	2.8	0.2	6,029	8,042



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
4/23									
4/24									
4/25	1	0.0	2	0	0.0	0	0	0	0
4/26	1	0.0	1	0	0.0	0	0	0	0
4/27	2	0.0	2	0	0.0	0	0	0	0
4/28	3	0.0	5	0	0.0	0	0	0	0
4/29	0	0.0	0	0	0.0	0	0	0	0
Weekly	7	0.0	10	0	0.0	0	0	0	0
Season to date	21	0.0	49	1	0.0	2	0	0	0

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

[illegible]

			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	4/29	7	14.3%					50.0%					28.6%		
Last Week	4/22	2													
AP - Ammocoetes		SAMPLE #													
This Week	4/29	0													
Last Week	4/22	0													

### **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	0
Season to Date	0	1	2	0	0	0	0	4

	Dace - Longnose	Dace - Speckled	Chinook Jack	Kokanee	Lamprey Adult	Northern Pikeminnow	Peamouth	Perch Yellow
This Week	0	0	0	0	0	0	0	26
Season to Date	0	0	0	0	0	0	0	178

	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	7	3	0	0	0	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Goldfish
This Week	0	0	0	3	0	6	0	1
Season to Date	0	0	0	5	0	51	0	1

### **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 approximately 0700 and 1300 hrs. The Condition Exams will target approximately 100 of the predominant species of out-migrant, currently Yearling spring Chinook smolts. Debris at the separator bars and in the sample holding tank was low for week and consisted of sticks, plastic, and pieces of terrestrial vegetation.

### **SECTION 5. Research**

Genetic fin clip samples were taken from 7 Pacific Lamprey macrophthalmia for the Columbia River Inter-Tribal Fish Commission during this report period.

## SECTION 6. Pictures



Goldfish (*Carassius auratus*), sampled on 27 April, 2022 at the John Day Dam Smolt Facility.



Juvenile common carp (*Cyprinus carpio*), shown for comparison purposes, sampled 31 August, 2006 at the John Day Dam Smolt Facility. Note that the common carp have barbels in the corners of their mouth and goldfish do not. In addition, common carp usually have 32 lateral line scales or greater and goldfish usually have less than 32 lateral line scales.



Head detail for common carp showing barbels.



Head detail for goldfish without barbels.