

Pacific States Marine Fisheries Commission

John Day Dam Condition Monitoring Weekly Report, #22-13

Report Period: 6/25 – 7/1, 2022

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SECTION 1. River Flow and Sampling Results

	Mean				
	Min	Max	Current	Last Week	2021
A. River Flow	333.5	396.5	372.2	417.5	211.5
B. Powerhouse	198.6	219.0	211.0	233.1	136.8
C. Spill (kcfcs)	115.8	178.9	160.2	183.3	73.3
% of River Flow	34.7	45.2	42.8	43.9	34.7
D. Water Temp *	60.8	63.0	62.1	58.0	68.1
E. % Saturation *	115.4	121.6	118.6	117.9	105.7

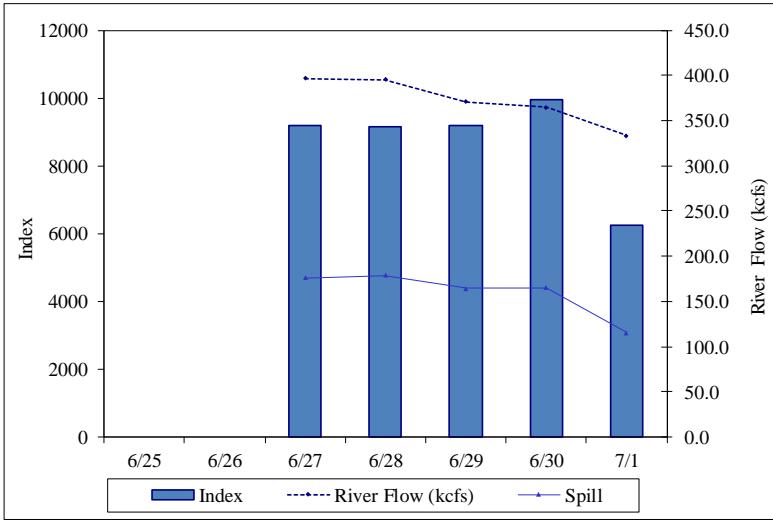
* TDG data from USGS forebay sensor, water temp from lab and USGS sensor.

% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	0.8%	1.5%
SUBYEARLING CHINOOK	98.8%	94.2%
CHINOOK FRY	0.0%	0.9%
UNCLIPPED STEELHEAD	0.0%	0.6%
CLIPPED STEELHEAD	0.0%	1.9%
COHO	0.0%	0.2%
COHO FRY	0.0%	0.0%
SOCKEYE	0.4%	0.8%

YEARLING CHINOOK						SUBYEARLING CHINOOK						COHO					
End Date	Sample Rate	# Smpd	% Desc	% Mort	# Coll	Index	# Smpd	% Desc	% Mort	# Coll	Index	# Smpd	% Desc	% Mort	# Coll	Index	
6/25																	
6/26																	
6/27	2.0%	0	0.0	0.0	0	0	101	1.0	0.0	5,050	9,113	0	0.0	0.0	0	0	0
6/28	2.0%	3	33.3	0.0	150	275	97	2.1	0.0	4,850	8,876	0	0.0	0.0	0	0	0
6/29	2.0%	0	0.0	0.0	0	0	102	2.0	0.0	5,100	9,204	0	0.0	0.0	0	0	0
6/30	1.7%	1	0.0	0.0	50	92	93	0.0	0.0	5,360	9,813	0	0.0	0.0	0	0	0
7/1	2.4%	0	0.0	0.0	0	0	97	1.0	0.0	4,075	6,251	0	0.0	0.0	0	0	0
Weekly		4	25.0	0.0	200	366	490	1.2	0.0	24,435	43,257	0	0.0	0.0	0	0	0
Season to date		4,666	2.3	0.1	47,604	114,424	2,185	1.4	0.1	58,525	111,608	482	1.9	0.2	5,750	13,608	

UNCLIPPED						STEELHEAD						CLIPPED						SOCKEYE					
End Date	Sample Rate	# Smpd	% Desc	% Mort	# Coll	Index	# Smpd	% Desc	% Mort	# Coll	Index	# Smpd	% Desc	% Mort	# Coll	Index	# Smpd	% Desc	% Mort	# Coll	Index		
6/25																							
6/26																							
6/27	2.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	1	0.0	0.0	50	90							
6/28	2.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0							
6/29	2.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0							
6/30	1.7%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	1	0.0	0.0	20	37							
7/1	2.4%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0							
Weekly		0	0.0	0.0	0	0	0	0.0	0.0	0	0	2	0.0	0.0	70	127							
Season to date		333	2.1	0.0	4,386	11,063	1,123	6.5	0.2	12,088	29,055	1,141	3.2	0.2	24,141	59,991							

TOTAL						
End Date	Sample Rate	# Smpd	% Desc	% Mort	# Coll	Index
6/25						
6/26						
6/27	2.0%	102	1.0	0.0	5,100	9,203
6/28	2.0%	100	3.0	0.0	5,000	9,151
6/29	2.0%	102	2.0	0.0	5,100	9,204
6/30	1.7%	95	0.0	0.0	5,430	9,941
7/1	2.4%	97	1.0	0.0	4,075	6,251
Weekly		496	1.4	0.0	24,705	43,750
Season to date		9,930	2.7	0.1	152,494	339,749



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

End Date	Pacific Lamprey			Western Brook					
	Macrophthalmia			Ammocoetes			Ammocoetes		
	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
6/25									
6/26									
6/27	0	0.0	0	0	0.0	0	0	0	0
6/28	0	0.0	0	0	0.0	0	0	0	0
6/29	0	0.0	0	0	0.0	0	0	0	0
6/30	0	0.0	0	0	0.0	0	0	0	0
7/1	0	0.0	0	0	0.0	0	0	0	0
Weekly	0	0.0	0	0	0.0	0	0	0	0
Season to date	320	0.3	4,161	40	0.0	482	0	0	0

SECTION 2. Smolt and Lamprey Condition Monitoring Summary

		Yearling Chinook		Subyearling Chinook		Unclipped Steelhead		Clipped Steelhead		Coho		Sockeye	
SAMPLE #		This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week
DESCALING	3-19%			1.8%	1.0%								
	>20%			0.2%	1.2%								
	Pred. Desc.	25.0%	12.5%	1.0%	0.8%								
INJURY	BODY			0.4%	0.2%								
	EYE			0.2%									
	HEAD												
	OPERC.				0.4%								
	FIN			1.6%	0.8%								
	POPEYE			0.2%									
OTHER CONDITIONS	PINK FIN												
	Fin Discolor.												
	FIN HEM.			0.6%	0.6%								
DISEASE	Columellaris												
	FUNGUS												
	BKD			0.2%									
	PARASITES			0.4%									
	DEFORMITY			1.8%	1.2%								
	EYE HEM.			0.4%									
PREDATION	BIRD			1.2%	0.6%								
	FISH			1.0%	0.6%								
	LAMPREY												
	OTHER												
	end dates	7/1	6/24										

MP- Macrophthalmia	End Date	SAMPLE #	INJURY					DISEASE and OTHER CONDITIONS					PREDATION	
			BODY	EYE	HEAD	FIN	POPEYE	FIN HEM	Columellaris	FUNGUS	DEFORMITY	EYE HEM.	BIRD	FISH
	This Week	7/1	0											
AP - Ammocoetes	Last Week	6/24	17											5.9%
			SAMPLE #											
AP - Ammocoetes	This Week	7/1	0											
	Last Week	6/24	3	33.3%	33.3%			33.3%						

SECTION 3. Incidental Summary

	Bass Largemouth	Bass Smallmouth	Bluegill and Pumpkinseed	Bullhead	Carp	Catfish, Channel	Chiselmouth	Crappie species
This Week	0	3	0	0	0	0	0	1
Season to Date	1	17	11	1	2	1	0	6
	Dace - Longnose	Dace - Speckled	Chinook Jack	Goldfish	Lamprey Adult	Northern Pikeminnow	Peamouth	Perch Yellow
This Week	0	0	0	0	0	0	0	2
Season to Date	0	0	1	1	1	0	0	359
	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	8	6	1	0	0	0
	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	0	0	6	0	0
Season to Date	0	0	0	29	6	118	0	5

SECTION 4. Facility Operations

Condition Monitoring at John Day Dam was originally scheduled to sample Monday through Friday until 15 June, reducing sampling to 3 days a week until river water temperatures reach 70 deg. F. Due to continued high flows and higher than average debris levels at the project, Monday through Friday sampling continued this week. Samples were taken from the Juvenile Bypass System between approximately 0700 and 1300 hrs. Collection, Index, and River flow estimates and averages are for the sample period only. Condition Exams targeted approximately 100 of the predominant species of out-migrant, currently Subyearling Fall Chinook (98.8% composition). Debris at the separator bars and in the sample holding tank was moderate to high for part of the week and consisted of sticks, plastic, and pieces of terrestrial vegetation.

SECTION 5. Research

No research activity occurred during this report period.

SECTION 6. Pictures



Hatchery Subyearling fall Chinook smolt (*Oncorhynchus tshawytscha*), approximately 62 mm fork length, sampled at the John Day Dam Smolt Facility on 16 June, 2022.



Black crappie (*Pomoxis nigromaculatus*), approximately 90 mm fork length, sampled at the John Day Dam Smolt Facility on 29 June, 2022.