

Pacific States Marine Fisheries Commission

John Day Dam Condition Monitoring Weekly Report, #22-18

Report Period: 7/30 – 8/5, 2022

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SECTION 1. River Flow and Sampling Results

	Mean				
	Min	Max	Current	Last Week	2021
A. River Flow	125.2	190.4	169.3	178.1	114.4
B. Powerhouse 1	80.5	122.3	109.0	115.2	73.5
C. Spill (kcf/s)	44.0	67.1	59.5	61.8	39.8
% of River Flow	34.7	35.4	35.1	34.7	34.8
D. Water Temp *	71.3	72.0	71.7	69.2	73.3
E. % Saturation *	107.4	113.1	110.3	110.8	105.1

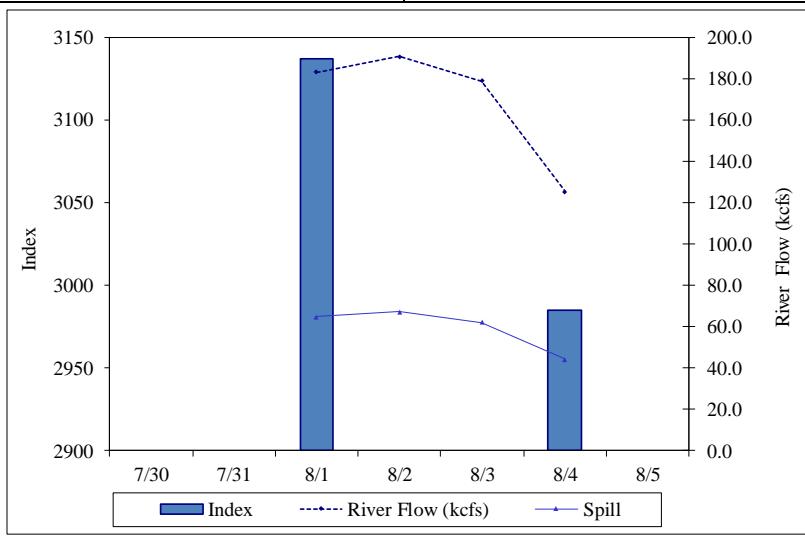
* TDG and water temp data from USGS forebay sensors.

% SAMPLE COMPOSITION	This Week	Last Week
YEARLING CHINOOK	0.0%	0.0%
SUBYEARLING CHINOOK	100.0%	100.0%
CHINOOK FRY	0.0%	0.0%
UNCLIPPED STEELHEAD	0.0%	0.0%
CLIPPED STEELHEAD	0.0%	0.0%
COHO	0.0%	0.0%
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	
7/30																	
7/31																	
8/1	5.2%	0	0.0	0.0	0	0	106	2.8	0.0	2,020	3,137	0	0.0	0.0	0	0	
8/2																	
8/3																	
8/4	5.3%	0	0.0	0.0	0	0	103	1.9	0.0	1,930	2,985	0	0.0	0.0	0	0	
8/5																	
Weekly		0	0.0	0.0	0	0	209	2.4	0.0	3,950	6,122	0	0.0	0.0	0	0	
Season to date		4,676	2.3	0.1	47,784	114,702	3,526	1.6	0.1	93,270	165,102	484	1.9	0.2	5,780	13,654	

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		
7/30																							
7/31																							
8/1	5.2%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0		
8/2																							
8/3																							
8/4	5.3%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0		
8/5																							
Weekly		0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0		
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	# Smpld	% Desc	% Mort	# Coll	Index
7/30						
7/31						
8/1	5.2%	106	2.8	0.0	2,020	3,137
8/2						
8/3						
8/4	5.3%	103	1.9	0.0	1,930	2,985
8/5						
Weekly		209	2.4	0.0	3,950	6,122
Season to date		11,283	2.6	0.1	187,449	393,567



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

Pacific Lamprey	Western Brook Lamprey
Macrophthalmia	Ammocoetes
	Ammocoetes

End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
7/30									
7/31									
8/1	0	0.0	0	0	0.0	0	0	0	0
8/2									
8/3									
8/4	0	0.0	0	1	0.0	25	0	0	0
8/5									
Weekly	0	0.0	0	1	0.0	25	0	0	0
Season to date	320	0.3	4,161	41	0.0	507	0	0	0

SECTION 2. Smolt and Lamprey Condition Monitoring Summary

	DISEASE						PREDATION			
SAMPLE #	Columnaris	FUNGUS	BKD	PARASITES	DEFORMITY	EYE HEM	BIRD	FISH	LAMPREY	OTH
209				33.5%			1.0%	3.3%		
201				24.4%			1.0%	0.5%		

SECTION 3. Incidental Summary

	Bass Largemouth	Bass Smallmouth	Bluegill and Pumpkinseed	Bullhead	Carp	Catfish, Channel	Chiselmouth	Crappie species
This Week	0	1	0	0	0	0	0	0
Season to Date	1	24	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	0
Season to Date	0	0	1	1	1	1	0	362

	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	96	0
Season to Date	0	0	9	6	1	3	97	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	0	0	0	0	0
Season to Date	0	0	0	31	6	122	0	5

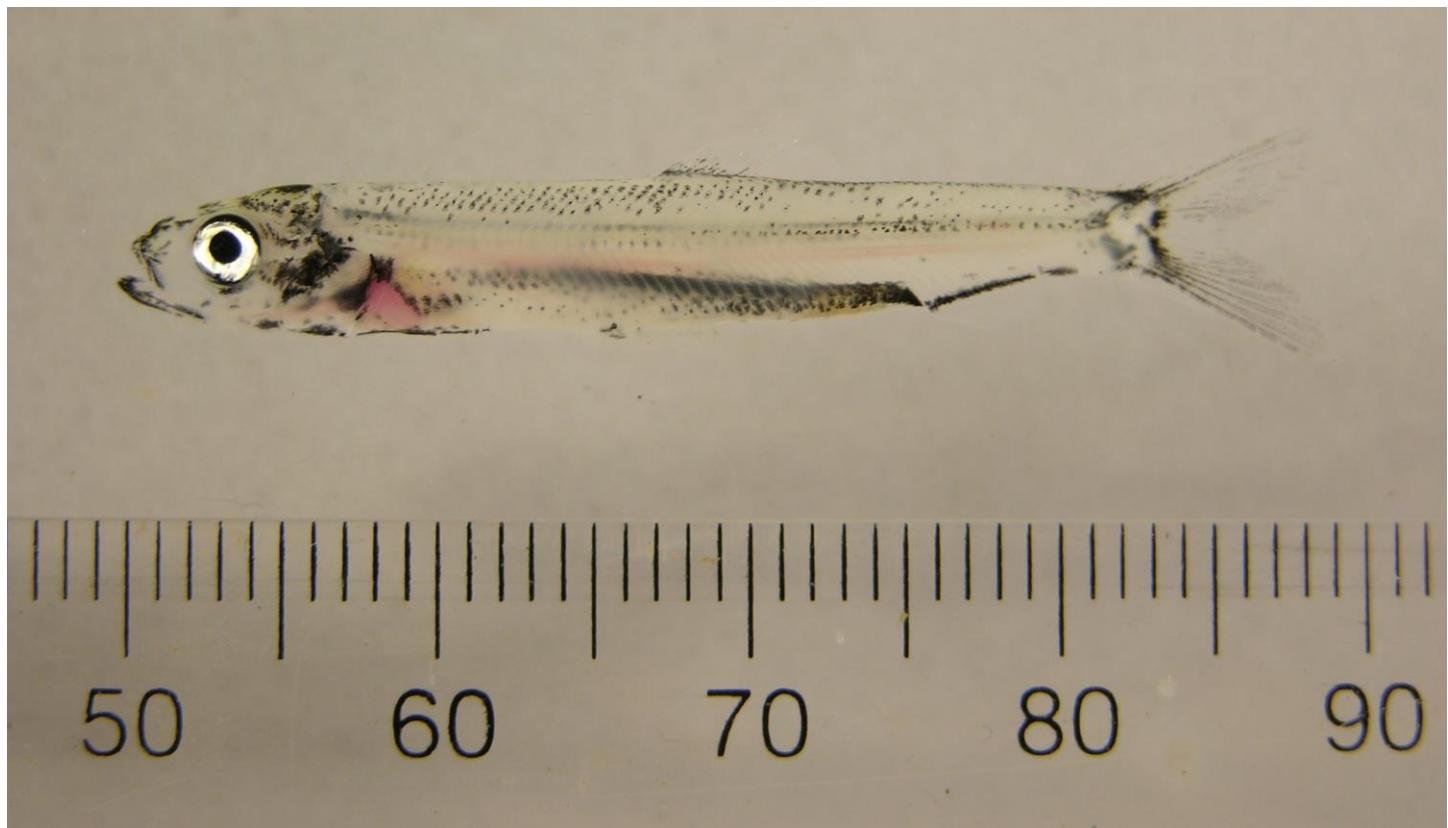
SECTION 4. Facility Operations

Condition Monitoring at John Day Dam has transitioned into the warm river water temperature sampling mode. Samples will continue to target 100 of the predominant out-migrant smolt, currently Subyearling Fall Chinook (100.0% composition), on Mondays and Thursdays until daily average river water temperatures fall below 69.5 deg. F. Samples are taken from the Juvenile Bypass System between approximately 0700 and 1300 hrs and the Collection, Index, and River flow estimates and averages are for the sample period only. Debris at the separator bars and in the sample holding tank was low for the week and consisted of a few sticks, plastic, and pieces of terrestrial and aquatic vegetation.

SECTION 5. Research

A genetic fin clip sample was collected from one Pacific Lamprey ammocoete during this report period.

SECTION 6. Pictures



Juvenile American shad (*Alosa sapidissima*), approximately 35 mm fork length, similar to one sampled at the John Day Dam Smolt Facility on 1 August, 2022.



Juvenile American shad (*Alosa sapidissima*), approximately 65 mm fork length, similar to one sampled at the John Day Dam Smolt Facility on 4 August, 2022.