Pacific States Marine Fisheries Commission

John Day Dam Condition Monitoring Weekly Report, #22-14

Report Period: 7/2 – 7/8, 2022 Project Leader: Rick Martinson

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SECTION 1. River Flow and Sampling Results

				Mean	
	Min	Max	Current	Last Week	2021
A. River Flow	242.4	284.3	261.3	372.2	172.0
B. Powerhouse	156.9	185.7	169.7	211.0	111.5
C. Spill (kcfs)	84.1	97.4	90.6	160.2	59.5
% of River Flow	34.3	35.2	34.7	42.8	34.5
D. Water Temp *	62.7	65.3	63.8	62.1	69.8
E. % Saturation *	111.4	114.6	113.2	118.6	105.3

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

DAHO.	OREGON · A	ASK	
CIFIC	STATES M		
		9	
SHERIL	ES COMN	ISSID	
WASHING	GTON • CALIF	ORNIA	
% SAMPLE	This	Last	

% SAMPLE	This	Last
COMPOSITION	Week	Week
YEARLING CHINOOK	1.6%	0.8%
SUBYEARLING CHINOOK	98.4%	98.8%
CHINOOK FRY	0.0%	0.0%
UNCLIPPED STEELHEAD	0.0%	0.0%
CLIPPED STEELHEAD	0.0%	0.0%
СОНО	0.0%	0.0%
COHO FRY	0.0%	0.0%
COCKEVE	0.00/	0.40/

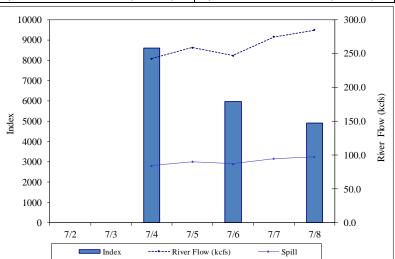
	YEARLING CHINOOK							SUBYEA	RLING C	HINOOK		СОНО				
End	Sample	#	%	%	#		#	%	%	#		#	%	%	#	
Date	Rate	Smpld	Desc	Mort	Coll	Index	Smpld	Desc	Mort	Coll	Index	Smpld	Desc	Mort	Coll	Index
7/2																
7/3																
7/4	1.8%	0	0.0	0.0	0	0	100	2.0	0.0	5,600	8,602	0	0.0	0.0	0	0
7/5																
7/6	3.0%	5	0.0	0.0	100	155	111	1.8	0.0	3,750	5,797	0	0.0	0.0	0	0
7/7																
7/8	3.2%	0	0.0	0.0	0	0	102	1.0	0.0	3,225	4,917	0	0.0	0.0	0	0
Weekly		5	0.0	0.0	100	155	313	1.6	0.0	12,575	19,315	0	0.0	0.0	0	0
Season to	date	4,671	2.3	0.1	47,704	114,579	2,498	1.4	0.1	71,100	130,923	482	1.9	0.2	5,750	13,608

			UN	CLIPPED		STEEL	HEAD		CLIPPEL)				SOCKEY	E	
End	Sample	#	%	%	#		#	%	%	#		#	%	%	#	
Date	Rate	Smpld	Desc	Mort	Coll	Index	Smpld	Desc	Mort	Coll	Index	Smpld	Desc	Mort	Coll	Index
7/2																
7/3																
7/4	1.8%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
7/5																
7/6	3.0%	0	0.0	0.0	0	0	0	0.0	0.0	0	0	0	0.0	0.0	0	0
7/7																
7/8	3.2%	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	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	Sample	#	%	%	#	
Date	Rate	Smpld	Desc	Mort	Coll	Index
7/2						
7/3						
7/4	1.8%	100	2.0	0.0	5,600	8,602
7/5						
7/6	3.0%	116	1.7	0.0	3,850	5,952
7/7						
7/8	3.2%	102	1.0	0.0	3,225	4,917
Weekly	•	318	1.6	0.0	12,675	19,470
Season to	date	10,248	2.6	0.1	165,169	359,219

Notes: Condition percentages are calculated from sample numbers.

Subyearling chinook and coho include fry.



Pacific Lamprey

Western Brook

	Ma	acrophthaln	าia	1	Ammocoetes	3	1	Ammocoetes	;
End	#	%	#	#	%	#	#	%	#
Date	Smpld	Mort	Coll	Smpld	Mort	Coll	Smpld	Mort	Coll
7/2									
7/3									
7/4	0	0.0	0	0	0.0	0	0	0	0
7/5									
7/6	0	0.0	0	0	0.0	0	0	0	0
7/7									
7/8	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

		Year	ling	Subyearling		Unclipped		Clipped		Co	ho	Sockeye	
		Chin	ook	Chir	ook	Steel	head	Steell	head				
		This	Last	This	Last	This	Last	This	Last	This	Last	This	Last
		Week	Week	Week	Week	Week	Week	Week	Week	Week	Week	Week	Week
	SAMPLE#	5	4	313	490	0	0	0	0	0	0	0	2
DESCALING	3-19%			3.5%	1.8%								
	>20%			0.6%	0.2%								
	Pred. Desc.		25.0%	1.0%	1.0%								
INJURY	BODY			0.6%	0.4%								
	EYE												
	HEAD												
	OPERC.			0.6%									
	FIN	20.0%		1.9%	1.6%								
	POPEYE												
OTHER	PINK FIN												
CONDITIONS	Fin Discolor.												
	FIN HEM.			1.6%	0.6%								
DISEASE	Columnaris												
	FUNGUS												
	BKD			0.3%	0.2%								
	PARASITES				0.4%								
	DEFORMITY			1.3%	1.8%								
	EYE HEM.				0.4%								
PREDATION	BIRD			1.6%	1.2%								
	FISH		25.0%	1.9%	1.0%								
	LAMPREY												
	OTHER												

end dates 7/8 7/1

					INJURY	Y			DISEASE a	and OTHER	CONDITIONS		PREDA	ATION
MP- Macrophthalmia	End Date	SAMPLE#	BODY	EYE	HEAD	FIN	POPEYE	FIN HEM	Columnaris	FUNGUS	DEFORMITY	EYE HEM.	BIRD	FISH
This Week	7/8	0												
Last Week	7/1	0												
AP - Ammocoetes		SAMPLE#												
This Week	7/8	0												
Last Week	7/1	0												

SECTION 3. Incidental Summary

This Week	Bass Largemouth	Bass Smallmouth	Bluegill and Pumpkinseed 0	Bullhead 0	Carp 0	Catfish, Channel	Chiselmouth 0	Crappie species 0
Season to Date	1	19	11	1	2	1	0	6
	Dace - Longnose	Dace - Speckled	Chinook Jack	Kokanee	Lamprey Adult	Northern Pikeminnow	Peamouth	Perch Yellow
This Week	Longnose 0	0	0	0	0	0	0	1 1 1
Season to Date	0	0	1	0	1	0	0	360
	Redside		Sculpin	Stickleback	Sucker		Shad	Sturgeon
	Shiner	Sand Roller	species	3 spine	species	Shad Adult	Juvenile	White
This Week	0	0	1	0	0	0	0	0
Season to Date	0	0	9	6	1	0	0	0
Ī								
		Trout	Trout		Whitefish	Siberian	Chum	Banded
	Trout Bull	Cutthroat	Rainbow	Walleye	Mountain	Prawn	Salmon	Killifish
This Week	0	0	0	1	0	1	0	0
Season to Date	0	0	0	30	6	119	0	5

SECTION 4. Facility Operations

Condition Monitoring at John Day Dam was reduced to 3 days per week (M, W, F) until river water temperatures reach 70 deg. F. 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 (98.4% composition). Debris at the separator bars and in the sample holding tank was moderate to low for 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*) with a facial deformity, approximately 102 mm fork length, sampled at the John Day Dam Smolt Facility on 23 June, 2022.



Detail of deformity from specimen above.