

United States Army Corps of Engineers

John Day Dam Smolt and Juvenile Lamprey Condition Monitoring

Weekly Report, #24-6

Report Period: 5/4 – 5/10, 2024

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SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2023
A. River Flow	145.7	172.3	160.5	156.1	335.5
B. Powerhouse	86.1	102.8	95.1	92.5	131.2
C. Spill (kcfs)	57.5	68.7	63.7	62.2	203.1
% of River Flow	39.4	40.2	39.7	39.9	60.6%
D. Water Temp (Daily Avg.)	52.8	53.7	53.2	52.9	54.5
E. % Saturation	103.2	105.4	104.3	108.0	119.8

Note: Data is for the sample period only (0700 - 1300 hrs).

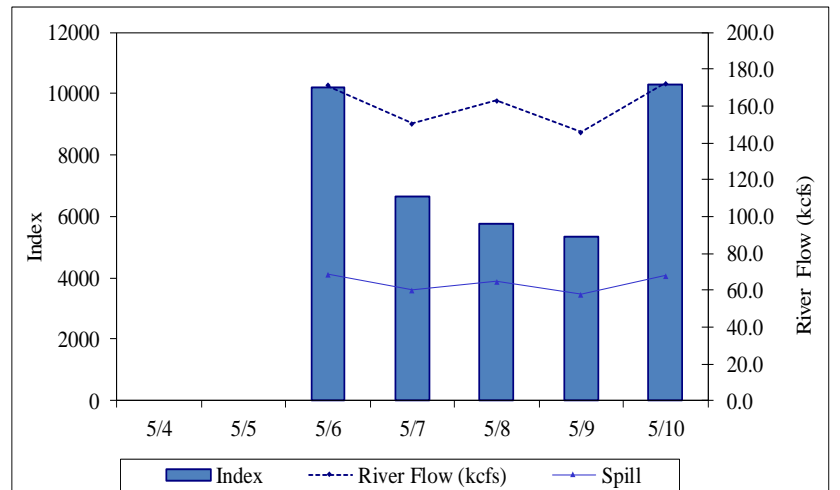
% SAMPLE COMPOSITION			This Week	Last Week
YEARLING CHINOOK	61.8%	62.6%		
SUBYEARLING CHINOOK	0.2%	0.1%		
CHINOOK FRY	0.1%	0.0%		
UNCLIPPED STEELHEAD	3.2%	1.7%		
CLIPPED STEELHEAD	22.2%	25.0%		
COHO	12.1%	10.5%		
COHO FRY	0.0%	0.0%		
SOCKEYE	0.2%	0.0%		

YEARLING CHINOOK							SUBYEARLING CHINOOK					COHO				
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
5/4																
5/5																
5/6	3.0%	99	3.0	0.0	3,150	5,295	0	0.0	0.0	0	0	31	6.5	0.0	925	1,555
5/7	3.5%	102	4.9	0.0	3,060	5,118	2	0.0	0.0	75	125	12	8.3	0.0	280	468
5/8	4.9%	100	1.0	0.0	2,000	3,340	0	0.0	0.0	0	0	27	3.7	0.0	570	952
5/9	5.0%	104	6.7	0.0	2,080	3,469	1	0.0	0.0	20	33	19	5.3	0.0	380	634
5/10	2.6%	94	1.1	0.0	3,710	6,160	0	0.0	0.0	0	0	9	0.0	0.0	270	448
Weekly		499	3.4	0.0	14,000	23,382	3	0.0	0.0	95	159	98	5.1	0.0	2,425	4,057
Season to date		2,941	2.3	0.0	34,770	57,362	4	0.0	0.0	105	176	250	2.4	0.0	4,478	7,475

End Date	Sample Rate	UNCLIPPED					STEELHEAD					CLIPPED					SOCKEYE				
		# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
5/4																					
5/5																					
5/6	3.0%	3	1.0	0.0	100	168	49	0.0	0.0	1,900	3,194	0	0.0	0.0	0	0	0	0.0	0.0	0	0
5/7	3.5%	1	0.0	0.0	25	42	20	0.0	0.0	525	878	0	0.0	0.0	0	0	0	0.0	0.0	0	0
5/8	4.9%	7	0.0	0.0	140	234	34	11.8	0.0	710	1,186	1	0.0	0.0	20	33	1	0.0	0.0	20	33
5/9	5.0%	3	0.0	0.0	60	100	33	6.1	0.0	660	1,101	0	0.0	0.0	0	0	0	0.0	0.0	0	0
5/10	2.6%	12	0.0	0.0	510	847	43	2.3	0.0	1,670	2,773	1	0.0	0.0	50	83	1	0.0	0.0	50	83
Weekly		26	3.8	0.0	835	1,391	179	3.9	0.0	5,465	9,131	2	0.0	0.0	70	116	2	0.0	0.0	70	116
Season to date		103	8.7	0.0	1,561	2,572	580	6.4	0.0	10,980	18,345	3	0.0	0.0	74	123	3	0.0	0.0	74	123

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
5/4						
5/5						
5/6	3.0%	182	3.3	0.0	6,075	10,211
5/7	3.5%	137	4.4	0.0	3,965	6,632
5/8	4.9%	169	3.6	0.0	3,440	5,744
5/9	5.0%	160	6.3	0.0	3,200	5,337
5/10	2.6%	159	1.3	0.0	6,210	10,312
Weekly		807	3.7	0.0	22,890	38,236
Season to date		3,881	3.1	0.0	51,968	86,053

Notes: Condition percentages are calculated using sample numbers.
Subyearling Chinook and Coho include fry. All river flow, powerhouse, spill and index estimates are for the sample period only.



Western Brook

Ammocoetes

End Date	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll	# Smpld	% Mort	# Coll
5/4									
5/5									
5/6	1	0.0	25	0	0.0	0	0	0	0
5/7	0	0.0	0	0	0.0	0	0	0	0
5/8	0	0.0	0	0	0.0	0	0	0	0
5/9	0	0.0	0	0	0.0	0	0	0	0
5/10	0	0.0	0	0	0.0	0	0	0	0
Weekly	1	0.0	25	0	0.0	0	0	0	0
Season to date	4	0.0	33	0	0.0	0	0	0	0

		Yearling Chinook		Subyearling Chinook		Unclipped Steelhead		Clipped Steelhead		Coho		Sockeye	
		This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week	This Week	Last Week
SAMPLE #		499	518	1	1	26	14	179	207	98	87	2	0
DESCALING	3-19%	2.2%	3.1%			3.8%		2.8%	1.9%	1.0%	1.1%		
	>20%	0.6%	0.4%						0.5%				
	Pred. Desc.	2.8%	2.1%			3.8%	7.1%	3.9%	6.8%	5.1%			
INJURY	BODY	0.2%	0.2%					0.6%	0.5%				
	EYE	0.2%	0.6%			3.8%			1.0%				
	HEAD												
	OPERC.		1.2%			7.7%		0.6%	1.0%				
	FIN	1.2%	1.4%					0.6%	1.0%				
	POPEYE		0.2%						0.5%				
OTHER CONDITIONS	PINK FIN												
	Fin Discolor. FIN HEM.	0.2%											
DISEASE	Columnaris												
	FUNGUS	0.6%	0.6%					1.1%	1.9%	1.0%			
	BKD	1.6%	1.4%					0.6%					
	PARASITES		0.4%			7.7%				1.0%			
	DEFORMITY	0.4%	0.8%			7.7%			0.5%				
	EYE HEM.	1.0%	0.4%				7.1%		1.0%				
PREDATION	BIRD	1.2%	1.2%			3.8%	7.1%	3.4%	5.8%	4.1%			
	FISH	1.6%	1.9%					1.7%	1.9%	2.0%			
	LAMPREY												
	OTHER												
end dates		5/10	5/3										

[illegible]

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	5	0	0	0	0	1

	Dace - Longnose	Dace - Speckled	Chinook Jack	Kokanee	Lamprey Adult	Northern Pikeminnow	Peamouth	Perch Yellow
This Week	0	0	0	0	1	0	0	8
Season to Date	0	0	0	0	1	0	0	46

	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	3	0	0	0	0	0

	Trout Bull	Trout Cutthroat	Trout Rainbow	Walleye	Whitefish Mountain	Siberian Prawn	Chum Salmon	Banded Killifish
This Week	0	0	0	3	0	0	0	0
Season to Date	0	0	0	18	0	73	0	1

SECTION 4. Facility Operations

Condition Monitoring at John Day Dam is scheduled to sample Monday through Friday until 15 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. All river flow, powerhouse, spill, and index estimates are based on the sample period only. Debris at the separator bars was low to moderate for the week and consisted of sticks, plastic, and pieces of terrestrial vegetation.

SECTION 5. Research

One Pacific Lamprey macrophthalmia genetic fin clip was collected at the Smolt Facility for the Columbia River Intertribal Fish Commission during this report period.

SECTION 6. Pictures



Hatchery origin Yearling Spring Chinook smolt (*Oncorhynchus tshawytscha*), approximately 145 mm fork length, showing a curved spinal deformity, sampled at the John Day Dam Smolt Facility on 8 May, 2024.



Hatchery origin Steelhead smolt (*Oncorhynchus mykiss*), approximately 220 mm fork length, showing a fungal infection on the caudal fin, sampled at the John Day Dam Smolt Facility on 9 May, 2024.