

United States Army Corps of Engineers

John Day Dam Smolt and Juvenile Lamprey Condition Monitoring

Weekly Report, #24-7

Report Period: 5/11 – 5/17, 2024

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SECTION 1. River Flow and Sampling Results

	Min	Max	Mean		
			Current	Last Week	2023
A. River Flow	177.0	247.7	221.0	160.5	396.7
B. Powerhouse	105.6	148.2	131.9	95.1	183.4
C. Spill (kcfs)	70.0	98.0	87.6	63.7	212.2
% of River Flow	39.5	39.8	39.6	39.7	53.9%
D. Water Temp (Daily Avg.)	55.0	58.1	56.6	53.2	56.1
E. % Saturation	107.1	112.0	111.3	104.3	123.6

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

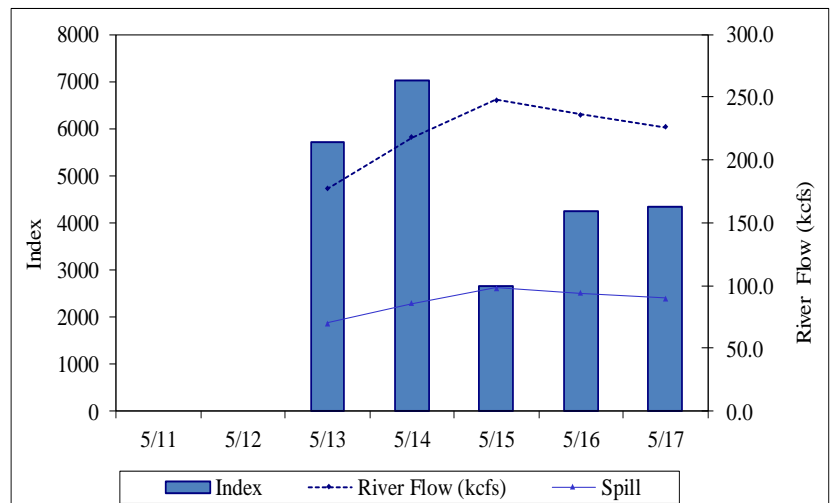
% SAMPLE COMPOSITION			This Week	Last Week
YEARLING CHINOOK	64.5%		61.8%	
SUBYEARLING CHINOOK	3.6%		0.2%	
CHINOOK FRY	0.1%		0.1%	
UNCLIPPED STEELHEAD	5.1%		3.2%	
CLIPPED STEELHEAD	15.5%		22.2%	
COHO	9.2%		12.1%	
COHO FRY	0.0%		0.0%	
SOCKEYE	2.0%		0.2%	

YEARLING CHINOOK							SUBYEARLING CHINOOK					COHO				
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
5/11																
5/12																
5/13	4.0%	94	2.1	0.0	2,240	3,725	2	0.0	0.0	70	116	11	9.1	0.0	280	466
5/14	3.3%	104	3.8	0.0	3,195	5,306	1	0.0	0.0	20	33	11	9.1	0.0	330	548
5/15	10.9%	108	2.8	0.0	1,122	1,864	3	0.0	0.0	22	37	13	7.7	0.0	146	243
5/16	6.0%	96	2.1	0.0	1,650	2,748	11	0.0	0.0	145	241	14	7.1	0.0	240	400
5/17	6.8%	102	2.9	0.0	1,510	2,523	12	0.0	0.0	180	301	23	4.3	0.0	310	518
Weekly		504	2.8	0.0	9,717	16,166	29	0.0	0.0	437	728	72	6.9	0.0	1,306	2,174
Season to date		3,445	2.4	0.0	44,487	73,528	33	0.0	0.0	542	904	322	3.4	0.0	5,784	9,649

End Date	Sample Rate	UNCLIPPED STEELHEAD					CLIPPED STEELHEAD					SOCKEYE				
		# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index	# Smpld	% Desc	% Mort	# Coll	Index
5/11																
5/12																
5/13	4.0%	5	0.0	0.0	150	249	27	3.7	0.0	700	1,164	0	0.0	0.0	0	0
5/14	3.3%	7	0.0	0.0	215	357	15	13.3	0.0	450	747	1	0.0	0.0	25	42
5/15	10.9%	10	0.0	0.0	114	189	38	10.5	0.0	179	297	1	0.0	0.0	10	17
5/16	6.0%	9	0.0	0.0	150	250	18	5.6	0.0	285	475	6	0.0	0.0	80	133
5/17	6.8%	9	0.0	0.0	110	184	23	4.3	0.0	360	602	8	0.0	0.0	120	201
Weekly		40	0.0	0.0	739	1,230	121	7.4	0.0	1,974	3,285	16	0.0	0.0	235	392
Season to date		143	6.3	0.0	2,300	3,802	701	6.6	0.0	12,954	21,630	19	0.0	0.0	309	515

TOTAL						
End Date	Sample Rate	# Smpld	% Desc	% Mort	# Coll	Index
5/11						
5/12						
5/13	4.0%	139	2.9	0.0	3,440	5,720
5/14	3.3%	139	5.0	0.0	4,235	7,033
5/15	10.9%	173	4.6	0.0	1,593	2,646
5/16	6.0%	154	2.6	0.0	2,550	4,247
5/17	6.8%	177	2.8	0.0	2,590	4,328
Weekly		782	3.6	0.0	14,408	23,975
Season to date		4,663	3.2	0.0	66,376	110,028

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.



Ammonoetes

			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	5/17	0												
Last Week	5/10	1												
AP - Ammocoetes		SAMPLE #												
This Week	5/17	0												
Last Week	5/10	0												

SECTION 3. Incidental Summary

	Bass - Largemouth	Bass - Smallmouth	Bluegill and Pumpkinseed	Bullhead	Carp	Catfish- Channel	Chiselmouth	Crappie species
This Week	0	1	1	0	0	0	0	0
Season to Date	0	2	6	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	0	0	0	26
Season to Date	0	0	0	0	1	0	0	72

	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	5	0	7	0	0
Season to Date	0	0	0	23	0	80	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 for the week and consisted of sticks, plastic, and pieces of terrestrial vegetation.

SECTION 5. Research

No Pacific Lamprey macrophthalmia or ammocoetes were sampled at the Smolt Facility during this report period.

SECTION 6. Pictures



Unclipped Coho smolt (*Oncorhynchus kisutch*), approximately 135 mm fork length, showing black spots indicating a parasitic trematode infection, sampled at the John Day Dam Smolt Facility on 16 May, 2024.



Adult female Peamouth (*Mylocheilus caurinus*), approximately 380 mm fork length, one of the largest specimens ever seen at the separator bars at the Smolt Monitoring Facility at John Day Dam, encountered on 15 May, 2024.