

Vaki Riverwatcher
2009-2010 (10/01/09 – 9/8/10)

		O	N	D	J	F	M	A	M	J	J	A	S	Total Passage (YTD)	
Chinook salmon	N	881	246	108	38	6	6	8	53	856	77	93	63	2435	2700
	S	78	3	1	6	0	2	0	0	34	117	8	16	265	
Ad-clipped Chinook salmon	N	112	32	13	6	3	7	1	150	1383	58	49	70	1884	2110
	S	17	3	1	4	0	0	0	0	86	109	0	6	226	
Ad-undetermined Chinook salmon	N	-5	2	3	2	0	0	0	3	53	11	4	3	76	96
	S	3	0	0	3	0	0	0	0	8	6	0	0	20	
Total Chinook salmon	N	988	280	124	46	9	13	9	206	2292	146	146	136	4259	4748
	S	98	6	2	13	0	2	0	0	128	232	8	22	489	
O.mykiss	N	13	3	6	2	11	22	15	7	7	15	6	5	112	139
	S	23	1	1	2	0	0	0	0	0	0	0	0	27	
Ad-clipped O.mykiss	N					6	4	40	4	2	2	2	2	62	62
	S					0	0	0	0	0	0	0	0	0	
Ad-undetermined O.mykiss	N					1	1	1	1	3	2	0	0	9	14
	S					0	4	0	0	1	0	0	0	5	
Unknown salmonid	N	2	0	0	3	0	0	0	0	0	0	-1	0	4	9
	S	0	0	0	0	1	1	0	1	0	2	0	0	5	
Sacramento pikeminnow	N	1	4	0	0	0	26	116	85	43	10	15	4	304	334
	S	-1	0	0	1	0	0	6	4	16	4	0	0	30	
Sacramento sucker	N	0	0	1	2	13	187	212	48	45	43	16	15	582	965
	S	2	0	0	0	5	131	202	15	16	6	0	6	383	
Hardhead	N	0	0	0	0	0	0	7	18	10	2	3	0	40	40
	S	0	0	0	0	0	0	0	0	0	0	0	0	0	
Unidentified fish(TL<35cm)	N	1	-3	1	3	0	-20	-14	-3	-7	3	-2	3	-38	104
	S	-3	5	2	8	6	55	57	0	6	0	0	6	142	
Unidentified fish(TL≥35cm)	N	3	0	0	0	0	0	0	0	4	0	0	-1	6	8
	S	4	-2	0	0	0	0	0	0	0	0	0	0	2	
Mean % Operation	N	80	87	50	11	71	100	99	100	100	100	100	100	83	81
	S	100	100	75	30	45	100	83	100	100	100	100	13	100	

Operational Status Comments:

The South system's computer malfunctioned on August 4th and would not reconnect. The new Vaki system arrived mid-August. Monitoring resumed August 31st.

Acoustic Telemetry

Spring-run

- 66 Chinook captured and genetically sampled by hook and line from May 18 through June 15.
- 30 phenotypic spring-run Chinook salmon were acoustically tagged downstream of DPD from May 19 through June 11.
- 22 have been successfully detected during mobile tracking efforts.
- 5 spring-run Chinook are currently being tracked in the DPD plunge pool.
- Tagged fish are currently being detected as far downstream as RM8 (just upstream of the RST site).
- Others have been tracked making their way above DPD.
- The last time fish were tracked in the Narrows pool was Aug 10th.

Fall-run

- 21 Chinook captured and genetically sampled by hook and line from August 23 through September 10.
- 2 captures have been acoustically tagged (on August 23 and September 10, respectively).
- 1 fall-run Chinook has been detected during mobile tracking efforts near RM8.

Substrate/Cover Survey

Substrate

- The 5000 cfs contours have been mapped for substrate composition from the Narrows pool to the mouth.
- A few unmapped areas remain that were either associated with deep water, or inaccessible backwater areas. The deep water areas will be mapped in conjunction with the deep water redd survey in October.
- Unmapped areas in the Englebright Reach will be completed during redd surveys this week.

Cover

- Cover mapping has been completed from the mouth to the train trestle bridge (approximately one mile).
- Cover mapping will continue this month when possible. A more concerted effort to complete cover mapping will occur in October.

Redd Survey

- Redd reconnaissance surveys detected spawning activity in the Englebright Reach last week (but no redds).
- Extensive area redd surveys began this week.

Escapement Survey

- Escapement surveys will commence this week.
- Pre-spawn mortalities have been reported by PSMFC staff, CDFG wardens and members of the angling public. We have been collecting heads from ad-clipped morts and will continue to monitor this development during weekly surveys.