

Vaki Riverwatcher
2009-2010 (10/01/09 – 1/23/10)

		O	N	D	J	F	M	A	M	J	J	A	S	Total Passage	
Chinook salmon	N	881	246	108	16									1251	1337
	S	78	3	1	4									86	
Ad-clipped Chinook salmon	N	112	32	13	2									159	180
	S	17	3	1	0									21	
Ad-undetermined Chinook salmon	N	-5	2	3	4									4	7
	S	3	0	0	0									3	
Total Chinook salmon	N	988	280	124	22									1414	1524
	S	98	6	2	4									110	
Steelhead	N	13	3	6	5									27	53
	S	23	1	1	1									26	
Unknown salmonid	N	2	0	0	0									2	2
	S	0	0	0	0									0	
Sacramento pikeminnow	N	1	4	0	0									5	4
	S	-1	0	0	0									-1	
Sacramento sucker	N	0	0	1	2									3	5
	S	2	0	0	0									2	
Hardhead	N	0	0	0	0									0	0
	S	0	0	0	0									0	
Unidentified (TL<35cm)	N	1	-3	1	8									7	12
	S	-3	5	2	1									5	
Unidentified (TL≥35cm)	N	3	0	0	0									3	5
	S	4	-2	0	0									2	
Functional operation (%)	N	80	87	50	50									67	76
	S	100	100	75	65									85	

Operational Status Comments:

System disconnects caused by low voltage.

Escapement Survey 2009-2010 (09/08/09 – 1/14/10)

SURVEY PERIOD	NUMBER TAGGED	NUMBER CHOPPED	RATIO		E(i)		R(i)		RECAPTURES OF FISH MARKED IN SURVEY PERIOD																			
			E(i) / R(i)	TOTAL EXAMINED	TOTAL EXAMINED	Sum of Rows	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
1	2	0	0	2	0	0	2	0	PASTE FINAL SCHAEFER MATRIX HERE This row will be over written with column headers from pasted matrix, the formulas used in this template take this into account																			
2	2	2	0	6	0	0	6	0																				
3	9	4	14	14	1																							
4	39	55	32.3333333	97	3																							
5	67	150	15.4666667	232	15																							
6	64	184	15.5882353	265	17																							
7	43	336	15.5769231	405	26																							
8	33	185	17.7692308	231	13																							
9	22	142	7.66	189	25																							
10	19	68	9.7	97	10																							
11	8	59	8.44444444	76	9																							
12	15	26	9.2	46	5																							
13	5	24	8.25	33	4																							
14	0	12	7	14	2																							
15	3	8	6.5	13	2																							
16	1	10	6.5	13	2																							
17	0	2	3.000002	2.999999	0.999999																							
18	3	1	0	4	0																							
19	0	3	4	4	1																							
Totals	335	1271		1744	135.999999																							
					135.999999																							
					C(i) RECOVERED	Sum of Columns	0	1	3	17	28	26	16	16	11	7	3	1	3	0	2	0.999999	0	1	0			
					T(i) / C(i) Ratio		0.00	2.00	3.00	2.29	2.39	2.46	2.69	2.06	2.00	2.71	2.67	15.00	1.67	0.00	1.50	1.00	0.00	3.00	0.00			

SCHAEFER ESTIMATE CALCULATIONS:

Total Population from Matrix =	4306
# Tagged from period 2 to last =	333
SCHAEFER ESTIMATE IS:	3,973
Grilse ratio: 1:6	662
Total escapement estimate	4,635

Matrix of Population Estimates																			
Survey Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	291	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	532	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	634	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	36	335	613	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	131	478	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	17	36	112	81	187	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	26	40	136	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	21	23	17	34	92	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	37	25	49	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	17	0	22	22	124	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	19	0	0	12	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	22	13	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0
Totals	6	28	291	585	1006	877	608	262	206	158	71	124	33	13	20	3	4	12	0

Redd Survey
2009-2010 (09/02/09 – 1/31/10)

Week	Englebright to Deer Creek	Narrows Pool to Hwy 20	Hwy 20 to DPD	DPD to Hallwood	Weekly Totals
31-Aug	0	0	0	0	0
7-Sep	0	7	0	0	7
14-Sep	2	7	13	1	23
21-Sep	8	89	65	5	167
28-Sep	10	172	94	16	292
5-Oct	22	234	165	34	455
12-Oct*	No Data	No Data	No Data	No Data	n/a
19-Oct	24	161	281	110	576
26-Oct	8	138	208	154	508
2-Nov	0	56	174	146	376
9-Nov	1	24	80	85	190
16-Nov	0	9	39	87	135
23-Nov	0	8	26	101	135
30-Nov	0	13	11	40	64
7-Dec	1	9	9	35	54
14-Dec	0	7	8	19	34
21-Dec	0	7	4	5	16
28-Dec	0	5	6	5	16
4-Jan	2	7	2	3	14
11-Jan	1	0	4	2	7
18-Jan*	No Data	No Data	No Data	No Data	n/a
25-Jan*	No Data	No Data	No Data	No Data	n/a
Total	79	953	1189	848	3069

*Survey canceled – high winds and/or turbid water