

Vaki Riverwatcher
2009-2010 (10/01/09 – 11/30/09)

		O	N	D	J	F	M	A	M	J	J	A	S	Total Passage	
Chinook salmon	N	881	243											1124	1204
	S	78	2											80	
Ad-clipped Chinook salmon	N	112	32											144	164
	S	17	3											20	
Ad-undetermined Chinook salmon	N	-5	2											-3	0
	S	3	0											3	
Total Chinook salmon	N	988	277											1265	1368
	S	98	5											103	
Steelhead	N	13	3											16	40
	S	23	1											24	
Unknown salmonid	N	2	0											2	2
	S	0	0											0	
Sacramento pikeminnow	N	1	4											5	4
	S	-1	0											-1	
Sacramento sucker	N	0	0											0	2
	S	2	0											2	
Hardhead	N	0	0											0	0
	S	0	0											0	
Unidentified (TL<35cm)	N	1	-3											-2	0
	S	-3	5											2	
Unidentified (TL≥35cm)	N	3	0											3	5
	S	4	-2											2	
Functional operation (%)	N	80	87											84	92
	S	100	100											100	

Operational Status Comments:

Scanner disconnects on north ladder reduced operation time.

Escapement Survey

2009-2010 (09/08/09 – 11/13/09)

SURVEY PERIOD	T(i)		RATIO E(i) / R(i)	E(i)		R(i)		RECAPTURES OF FISH MARKED IN SURVEY PERIOD														
	NUMBER TAGGED	NUMBER CHOPPED		TOTAL EXAMINED	Sum of Rows RECOVERED	1	2	3	4	5	6	7	8	9	10	11	12					
PASTE SCHAEFER 1 HERE								PASTE FINAL SCHAEFER MATRIX HERE														
8-Sep	2	0	0					0														
15-Sep	2	2	4	4	4	1		0														
22-Sep	9	5	3.75	15	15	4		0	1													
29-Sep	39	65	5.944444444	107	107	18		0	0	3												
6-Oct	69	149	7.28125	233	233	32		0	0	0	15											
13-Oct	65	177	6.023255814	259	259	43		0	0	0	0	17										
21-Oct	43	338	10.16666667	366	366	36		0	0	0	1	9	16									
27-Oct	33	185	6.514285714	228	228	35		0	0	0	0	0	2	8								
3-Nov	22	142	5.371428571	188	188	35		0	0	0	1	2	6	4	12							
10-Nov	19	68	9.7	97	97	10		0	0	0	0	0	0	1	2	7						
				0		0																
				0		0																
Totals	303	1131		1497	1497	214	R(i) Total															
						107	C(i) Total															
			C(i) RECOVERED Sum of Columns			0	1	3	17	28	24	13	14	7	0	0	0					
			T(i) / C(i) Ratio			0.00	2.00	3.00	2.29	2.46	2.71	3.31	2.36	3.14	0.00	0.00	0.00					

Matrix of Population Estimates												
Survey Period	1	2	3	4	5	6	7	8	9	10	11	12
1	-	-	-	-	-	-	-	-	-	-	-	-
2	4	0	0	0	0	0	0	0	0	0	0	0
3	15	8	0	0	0	0	0	0	0	0	0	0
4	107	0	54	0	0	0	0	0	0	0	0	0
5	233	0	0	251	0	0	0	0	0	0	0	0
6	259	0	0	0	252	0	0	0	0	0	0	0
7	366	0	0	23	225	441	0	0	0	0	0	0
8	228	0	0	0	0	35	172	0	0	0	0	0
9	188	0	0	12	26	87	71	152	0	0	0	0
10	97	0	0	0	0	0	32	46	213	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
Totals	1497	8	54	286	504	563	276	198	213	0	0	0

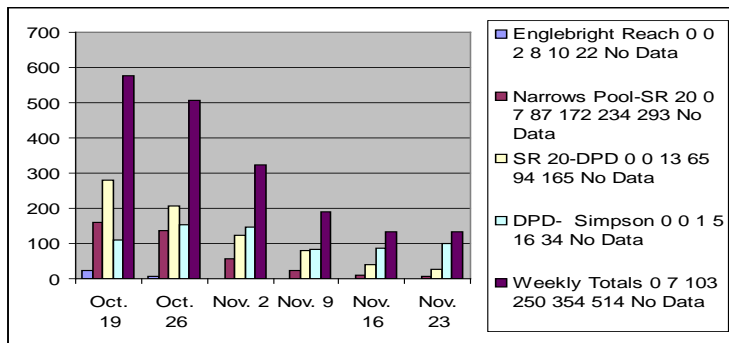
SCHAEFER ESTIMATE CALCULATIONS:		
Total Population from Matrix =		3598
# Tagged from period 2 to last =		-301
SCHAEFER ESTIMATE IS:		3,297

Redd Survey

2009-2010 (09/02/09 – 11/25/09)

Week	Englebright Reach	Narrows Pool-SR 20	SR 20-DPD	DPD- Simpson	Weekly Totals
Aug. 30	0	0	0	0	0
Sep. 7	0	7	0	0	7
Sep. 14	2	87	13	1	103
Sep. 21	8	172	65	5	250
Sep. 28	10	234	94	16	354
Oct. 5	22	293	165	34	514
Oct. 12*	No Data	No Data	No Data	No Data	No Data
Oct. 19	24	161	281	110	576
Oct. 26	8	138	208	154	508
Nov. 2	0	56	123	146	325
Nov. 9	1	24	80	85	190
Nov. 16	0	9	39	87	135
Nov. 23	0	8	26	101	135
Total					3097

*The redd survey for the week of October 12th was canceled due to high winds (gusts to 45 mph) and poor visibility.



Acoustic Survey

2009-2010 (05/21/09 – 11/06/09)

Comments:

The last roving survey commenced on November 6, 2009. No further surveys are planned for this year. Data reduction and analysis are in progress. Report to follow March 2010.