

# Vaki Riverwatcher 03/1/2010 - 11/7/2011

		M	A	M	J	J	A	S	O	N	D	J	F	subtotal	total YTD	M	A	M	J	J	A	S	O	N	D	J	F	subtotal	total YTD
O.tshawytscha	N	6	8	53	856	77	93	208	951	143	97	18	16	2526	3590	0	0	0	7	17	259	929	2190	225				3627	5235
	S	2	0	0	34	117	8	143	725	29	3	2	1	1064		0	0	0	9	8	311	368	886	26				1608	
Ad-clip	N	7	1	150	1383	58	49	180	142	43	43	5	4	2065	2496	4	0	0	5	20	97	276	529	32				963	1462
	S	0	0	0	86	109	0	99	132	3	2	0	0	431		0	0	0	2	3	121	119	249	5				499	
Ad-undet.	N	0	0	3	53	11	4	13	29	0	-11	5	1	108	155	0	0	0	0	0	10	15	36	4				65	96
	S	0	0	0	8	6	0	12	19	0	2	0	0	47		0	0	0	0	0	19	4	8	0				31	
<b>Total</b>	N	13	9	206	2292	146	146	401	1122	186	129	28	21	4699	6241	4	0	0	12	37	366	1220	2755	261				4655	6793
	S	2	0	0	128	232	8	254	876	32	7	2	1	1542		0	0	0	11	11	451	491	1143	31				2138	
O.mykiss	N	22	15	7	7	15	6	10	26	2	10	70	54	244	315	28	230	45	13	21	4	19	27	0				387	1084
	S	0	0	0	0	0	0	3	13	4	24	18	9	71		38	527	40	36	12	7	13	24	0				697	
Ad-clip	N	4	40	4	2	2	2	10	17	17	36	31	81	246	383	82	129	93	63	66	64	77	95	1				670	981
	S	0	0	0	0	0	0	1	12	0	22	36	66	137		7	239	16	14	2	3	3	27	0				311	
Ad-undet.	N	1	1	1	3	2	0	3	6	3	135	80	44	279	390	66	6	0	10	3	5	7	4	1				102	192
	S	4	0	0	1	0	0	0	3	3	102	-24	22	111		75	7	3	3	1	0	0	0	1				90	
Unk. salmonid	N	0	0	0	0	0	-1	0	2	29	2	0	0	32	40	0	0	0	0	0	0	3	6	1				10	13
	S	1	0	1	0	2	0	0	1	0	0	0	3	8		0	0	0	0	0	0	0	3	0				3	
S. pikeminnow	N	26	116	85	43	10	15	11	1	0	0	2	6	315	348	30	125	86	126	11	29	15	6	2				430	667
	S	0	6	4	16	4	0	0	1	1	0	0	1	33		4	73	81	60	11	7	0	1	0				237	
S. sucker	N	187	212	48	45	43	16	29	14	1	0	8	83	686	1092	340	508	201	27	42	114	71	55	0				1358	2799
	S	131	202	15	16	6	0	9	9	0	3	4	11	406		258	30	781	220	107	44	0	1	0				1441	
Hardhead	N	0	7	18	10	2	3	0	1	0	0	1	1	43	43	0	3	8	7	4	5	3	1	0				31	54
	S	0	0	0	0	0	0	0	0	0	0	0	0	0		1	1	7	10	4	0	0	0	0				23	
A. Shad	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	29	-2	0	0	0				96	104
	S	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	5	3	0	0	0	0				8	
O.gorbuscha	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0				3	3
	S	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0				0	
L. mouth bass	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0				9	9
	S	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0				0	
Striped bass	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				0	1
	S	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	1	0	0	0	0				1	
Lamprey	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				0	1
	S	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	1	0	0	0	0	0				1	
Unident. (TL<35cm)	N	-20	-14	-3	-7	3	-2	5	-3	8	-67	72	-2	-30	459	31	-345	-322	-159	-6	0	-4	-3	0				-808	-649
	S	55	57	0	6	0	0	21	14	9	17	65	245	489		184	-15	-3	3	-6	-4	-1	1	0				159	
Unident. (TL≥35cm)	N	0	0	0	4	0	0	-1	1	0	0	0	0	4	6	-1	-2	0	0	0	1	1	2	0				1	2
	S	0	0	0	0	0	0	2	0	0	0	0	0	2		1	0	0	0	0	0	0	0	0				1	
Mean % Op.	N	100	99	100	100	100	100	100	100	100	100	100	100	100	95	98	100	100	87	100	100	100	100	100				98	99
	S	100	83	100	100	100	13	99	100	100	100	91	91	99		90	97	100	100	100	100	100	100	100	100				

### Biological Sampling (Narrows Pool to DPD)

Survey Week	Fresh Carcasses Observed	Ad-clips Observed	Female Carcasses Observed	Unspawned Females Observed
9/19/2011	0	0	0	0
9/26/2011	4	2	4	3
10/3/2011	45	18	25	2
10/10/2011	125	38	63	2
10/17/2011	73	17	26	1
10/24/2011	64	15	26	0
10/31/2011	33	3	17	0
11/7/2011	31	2	20	0
<b>Totals:</b>	375	95	181	8

### Modified CJS Mark-Recapture (DPD to Simpson Lane Bridge)

Survey Week	Marked Carcass Total	Marked Carcass Recoveries	Dead on Capture	Female Carcass Total	Unspawned Total
9/19/2011	1	0	0	1	0
9/26/2011	3	0	1	0	0
10/3/2011	5	0	2	4	2
10/10/2011	30	2	3	7	1
10/17/2011	84	4	15	16	0
10/24/2011	92	21	14	20	1
10/31/2011	69	35	19	22	0
11/7/2011	57	34	30	14	0
<b>Totals:</b>	341	96	84	84	4

### Redd Survey

Survey Week	Englebright Reach*	Timbuctoo Reach	Parks Bar Reach	Dry Creek Reach	DPD Reach	Hallwood Reach	Marysville Reach
9/12/2011	0						
9/19/2011	0	7	1	0	2	0	0
9/26/2011	8						
10/3/2011	13						
10/10/2011	18						
10/17/2011	7	79	44	10	24	6	0
10/24/2011	14						
10/31/2011	16						
11/7/2011	3						

\*USACE EDR redd survey methods specify a weekly sampling frequency. All other reaches surveyed every third week of Sep, Oct, Nov and Dec.