

# Vaki Riverwatcher 03/1/2010 - 12/12/2011

		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	516	60			3978	5656
	S	2	0	0	34	117	8	143	725	29	3	2	1	1064		0	0	0	9	8	311	368	886	79	17			1678	
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	172	86			1189	1731
	S	0	0	0	86	109	0	99	132	3	2	0	0	431		0	0	0	2	3	121	119	249	24	24			542	
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	7	12			80	110
	S	0	0	0	8	6	0	12	19	0	2	0	0	47		0	0	0	0	0	19	4	8	-1	0			30	
<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	695	158			5247	7497
	S	2	0	0	128	232	8	254	876	32	7	2	1	1542		0	0	0	11	11	451	491	1143	102	41			2250	
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	1	2			390	1090
	S	0	0	0	0	0	0	3	13	4	24	18	9	71		38	527	40	36	12	7	13	24	3	0			700	
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	11	6			686	1008
	S	0	0	0	0	0	0	1	12	0	22	36	66	137		7	239	16	14	2	3	3	27	9	2			322	
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	0			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	0			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	0	0			9	12
	S	1	0	1	0	2	0	0	1	0	0	0	3	8		0	0	0	0	0	0	0	3	0	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	0			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	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	3	0			1361	2802
	S	131	202	15	16	6	0	9	9	0	3	4	11	406		258	30	781	220	107	44	0	1	0	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	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	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	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	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	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			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	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			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			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	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			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	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	-7	0			-815	-657
	S	55	57	0	6	0	0	21	14	9	17	65	245	489		184	-15	-3	3	-6	-4	-1	1	-1	0			158	
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	-2	0			-1	0
	S	0	0	0	0	0	0	2	0	0	0	0	0	2		1	0	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	100			99	99
	S	100	83	100	100	100	13	99	100	100	91	91	99	90		97	100	100	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	Unspawed 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
11/14/2011	23	1	13	0
11/21/2011	22	2	17	0
11/28/2011	2	0	2	0
12/05/2011	8	1	5	0
12/12/2011	3	1	2	0
<b>Totals:</b>	433	100	220	8

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

Survey Week	Marked Carcass Total	Marked Carcass Recoveries	Dead on Capture	Female Carcass Total	Unspawed 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
11/14/2011	77	32	15	41	1
11/21/2011	69	46	29	31	0
11/28/2011	23	30	11	14	0
12/05/2011	20	31	13	13	0
12/12/2011	8	15	2	4	0
<b>Totals:</b>	538	250	154	187	5

## Redd Survey

Survey Week	Englebright Reach*	Timbuctoo Reach	Parks Bar Reach	Dry Creek Reach	DPD Reach	Hallwood Reach	Marysville Reach	Totals
9/12/2011	0							0
9/19/2011	0	7	1	0	2	0	0	10
9/26/2011	8							8
10/3/2011	13							13
10/10/2011	18							18
10/17/2011	7	79	44	10	24	6	0	170
10/24/2011	14							14
10/31/2011	16							16
11/7/2011	3							3
11/14/2011	3	56	32	17	22	22	3	155
11/21/2011	2							2
11/28/2011	3							3
12/05/2011	0							0
12/12/2011	0							0
Totals	87	142	77	27	48	28	3	412

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