Appendix A. Summary of life-history diversity and genetic information for steelhead adults PIT tagged at Lower Granite Dam and later detected at Snake River Instream PIT Tag Detection Systems (IPTDS; Table 2) by location and year, SY2010-2015.

	STEELHEAD		LIFE-HISTORY																																						GENETICS[b]					
				Genetic Sex						Length[a]				Ocean (Saltwater) Age									Total Age													Run Timing					Hardy-Weinberg Equilibrium			Genetic Diversity		
				Frequency			Percentage			Frequency		Percentage		Frequency					Percentage				Frequency							Percentage																
Location	Arrays	Year	Total Det'ns	F	M	U	%F	%M	Mean Length (cm FL)	A-Run	B-Run	A-Run	B-Run	1	2	3	Kelt	U	1	2	3	Kelt	3	4	5	6	7	8	U	3	4	5	6	7	8	5th	25th	50th	75th	95th	Total Dev	Het -	Het +	H_o	H_e	% Poly SNPs
Upper Salmon River	USE, USI, YFK, VC1, VC2, STL, SAWT PAHH, PAHTRP, SALEFT	2010	31	14	17	-	45%	55%	63.5	31	-	100%	-	20	8	-	-	3	71%	29%	-	-	-	18	7	2	-	-	-	-	64%	25%	7%	-	-	8/30/2009	9/9/2009	9/20/2009	10/2/2009	10/6/2009	1	-	1	30.8%	29.5%	98.4%
		2011	38	18	19	1	49%	51%	63.9	36	2	95%	5%	18	20	-	-	-	47%	53%	-	-	-	17	17	-	-	-	-	-	45%	45%	-	-	-	7/23/2010	9/5/2010	9/13/2010	9/25/2010	10/24/2010	-	-	-	30.6%	30.3%	97.3%
		2012	45	27	17	1	61%	39%	62.6	45	-	100%	-	21	23	1	-	-	47%	51%	2%	-	1	20	17	1	-	-	-	2%	44%	38%	2%	-	-	7/29/2011	8/24/2011	9/5/2011	9/24/2011	10/25/2011	1	1	-	29.8%	30.3%	98.9%
		2013	105	66	38	1	63%	37%	66.2	100	5	95%	5%	35	61	1	2	6	35%	62%	1%	2%	6	29	35	7	-	-	-	6%	29%	35%	7%	-	-	9/4/2012	9/15/2012	9/25/2012	10/5/2012	11/2/2012	1	1	-	30.3%	30.8%	100.0%
		2014	96	55	41	-	57%	43%	61.8	94	2	98%	2%	62	28	-	2	4	67%	30%	-	2%	15	35	26	4	2	-	-	16%	38%	28%	4%	2%	-	9/24/2013	10/4/2013	10/9/2013	10/13/2013	11/1/2013	1	-	1	31.3%	31.0%	100.0%
		2015	109	71	36	2	66%	34%	64.8	104	5	95%	5%	38	64	-	1	6	37%	62%	-	1%	5	39	41	4	1	-	-	5%	38%	40%	4%	1%	-	8/30/2014	9/11/2014	9/23/2014	9/30/2014	10/15/2014	1	1	-	30.5%	30.8%	99.5%
Sawtooth Hatchery Weir	STL, SAWT	2010	12	5	7	-	42%	58%	65.5	12	-	100%	-	7	5	-	-	-	58%	42%	-	-	-	6	5	1	-	-	-	-	50%	42%	8%	-	-	9/6/2009	9/11/2009	9/20/2009	9/29/2009	10/5/2009						
		2011	7	6	1	-	86%	14%	64.6	7	-	100%	-	3	4	-	-	-	43%	57%	-	-	-	4	2	-	-	-	-	-	57%	29%	-	-	-	8/23/2010	9/4/2010	9/12/2010	9/25/2010	10/23/2010						
		2012	9	6	3	-	67%	33%	63.0	9	-	100%	-	4	5	-	-	-	44%	56%	-	-	-	4	4	-	-	-	-	-	44%	44%	-	-	-	8/16/2011	8/24/2011	9/5/2011	9/14/2011	10/29/2011						
		2013	6	3	3	-	50%	50%	63.7	6	-	100%	-	3	3	-	-	-	50%	50%	-	-	-	3	3	-	-	-	-	-	50%	50%	-	-	-	9/14/2012	9/15/2012	9/18/2012	10/6/2012	10/22/2012						
		2014	8	3	5	-	38%	63%	64.9	8	-	100%	-	5	3	-	-	-	63%	38%	-	-	2	3	3	-	-	-	-	25%	38%	38%	-	-	-	9/24/2013	10/6/2013	10/9/2013	10/12/2013	10/27/2013						
		2015	5	4	1	-	80%	20%	70.2	5	-	100%	-	-	5	-	-	-	-	100%	-	-	-	1	4	-	-	-	-	-	20%	80%	-	-	-	9/5/2014	9/8/2014	9/11/2014	9/23/2014	9/25/2014						
Upper Salmon River mainstem	YFK, VC1, VC2, STL, SAWT	2010	31	14	17	-	45%	55%	63.5	31	-	100%	-	20	8	-	-	3	71%	29%	-	-	-	18	7	2	-	-	-	-	64%	25%	7%	-	-	8/30/2009	9/9/2009	9/20/2009	10/2/2009	10/6/2009	1	-	1	30.8%	29.5%	98.4%
		2011	30	14	15	1	48%	52%	64.6	28	2	93%	7%	14	16	-	-	-	47%	53%	-	-	-	14	13	-	-	-	-	-	47%	43%	-	-	-	8/23/2010	9/5/2010	9/13/2010	9/23/2010	10/23/2010	1	1	-	30.2%	29.6%	96.8%
		2012	34	18	16	-	53%	47%	64.1	34	-	100%	-	12	21	1	-	-	35%	62%	3%	-	-	11	17	-	-	-	-	-	32%	50%	-	-	-	7/29/2011	8/20/2011	9/5/2011	9/24/2011	10/14/2011	2	2	-	28.9%	29.4%	95.1%
		2013	28	14	14	-	50%	50%	67.2	27	1	96%	4%	11	16	-	-	1	41%	59%	-	-	1	11	10	2	-	-	-	4%	41%	37%	7%	-	-	9/3/2012	9/14/2012	9/18/2012	10/5/2012	11/3/2012	1	1	-	28.9%	29.0%	96.8%
		2014	18	8	10	-	44%	56%	64.5	18	-	100%	-	11	6	-	1	-	61%	33%	-	6%	3	5	7	1	1	-	-	17%	28%	39%	6%	6%	-	9/24/2013	10/2/2013	10/6/2013	10/12/2013	10/27/2013						
		2015	32	21	11	-	66%	34%	66.0	32	-	100%	-	9	23	-	-	-	28%	72%	-	-	3	9	16	1	-	-	-	9%	28%	50%	3%	-	-	9/5/2014	9/9/2014	9/17/2014	9/28/2014	10/15/2014	1	1	-	30.3%	29.7%	97.8%
Valley Creek	VC1, VC2	2010	19	9	10	-	47%	53%	62.2	19	-	100%	-	13	3	-	-	3	81%	19%	-	-	-	12	2	1	-	-	-	-	75%	13%	6%	-	-	8/25/2009	9/8/2009	9/17/2009	10/2/2009	10/27/2009						
		2011	23	8	14	1	36%	64%	64.7	21	2	91%	9%	11	12	-	-	-	48%	52%	-	-	-	10	11	-	-	-	-	-	43%	48%	-	-	-	8/23/2010	9/5/2010	9/14/2010	9/23/2010	10/14/2010	-	-	-	30.5%	29.4%	94.6%
		2012	20	10	10	-	50%	50%	64.4	20	-	100%	-	7	12	1	-	-	35%	60%	5%	-	-	6	11	-	-	-	-	-	30%	55%	-	-	-	7/28/2011	8/18/2011	9/5/2011	9/22/2011	10/13/2011	-	-	-	28.9%	28.6%	91.4%
		2013	18	9	9	-	50%	50%	67.1	18	-	100%	-	7	10	-	-	1	41%	59%	-	-	1	7	6	-	-	-	-	6%	41%	35%	-	-	-	9/1/2012	9/11/2012	9/16/2012	10/5/2012	11/3/2012						
		2014	6	1	5	-	17%	83%	63.8	6	-	100%	-	4	2	-	-	-	67%	33%	-	-	1	2	2	-	-	-	-	17%	33%	33%	-	-	-	9/25/2013	10/1/2013	10/2/2013	10/3/2013	10/5/2013						
		2015	19	12	7	-	63%	37%	66.7	19	-	100%	-	5	14	-	-	-	26%	74%	-	-	3	6	8	-	-	-	-	16%	32%	42%	-	-	-	8/30/2014	9/9/2014	9/14/2014	9/28/2014	11/8/2014						
Yankee Fork Salmon River	YFK, YANKFRK	2012	5	2	3	-	40%	60%	65.0	5	-	100%	-	1	4	-	-	-	20%	80%	-	-	-	1	2	-	-	-	-	-	20%	40%	-	-	-	8/25/2011	8/31/2011	9/9/2011	9/29/2011	9/29/2011						
		2013	4	2	2	-	50%	50%	73.0	3	1	75%	25%	1	3	-	-	-	25%	75%	-	-	-	1	1	2	-	-	-	-	25%	25%	50%	-	-	9/8/2012	9/8/2012	9/15/2012	10/2/2012	11/13/2012						
		2014	4	4	-	-	100%	0%	64.8	4	-	100%	-	2	1	-	1	-	50%	25%	-	25%	-	-	2	1	1	-	-	-	-	50%	25%	25%	-	9/28/2013	9/28/2013	10/10/2013	10/14/2013	10/14/2013						
		2015	8	5	3	-	63%	38%	61.8	8	-	100%	-	4	4	-	-	-	50%	50%	-	-	-	2	4	1	-	-	-	-	25%	50%	13%	-	-	9/8/2014	9/10/2014	9/26/2014	10/1/2014	10/6/2014						
East Fork Salmon River	SALEFT	2013	4	3	1	-	75%	25%	72.5	3	1	75%	25%	-	3	-	-	1	-	100%	-	-	-	-	1	1	-	-	-	-	-	33%	33%	-	-	9/13/2012	9/13/2012	9/15/2012	9/29/2012	10/7/2012						
		2015	5	4	1	-	80%	20%	67.2	5	-	100%	-	2	2	-	-	1	50%	50%	-	-	-	1	3	-	-	-	-	-	25%	75%	-	-	-	9/3/2014	9/14/2014	9/21/2014	9/25/2014	10/8/2014						
Pahsimeroi River	PAHH, PAHTRP	2011	8	4	4	-	50%	50%	61.3	8	-	100%	-	4	4	-	-	-	50%	50%	-	-	-	3	4	-	-	-	-	-	38%	50%	-	-	-	7/23/2010	8/8/2010	9/13/2010	10/10/2010	10/24/2010						
		2012	11	9	1	1	90%	10%	58.0	11	-	100%	-	9	2	-	-	-	82%	18%	-	-	1	9	-	1	-	-	-	9%	82%	-	9%	-	-	7/26/2011	8/31/2011	9/3/2011	10/2/2011	11/1/2011						
		2013	6	4	2	-	67%	33%	60.5	6	-	100%	-	2	3	-	-	1	40%	60%	-	-	-	1	2	1	-	-	-	-	20%	40%	20%	-	-	9/4/2012	9/21/2012	10/2/2012	10/30/2012	11/4/2012						
		2014	18	13	5	-	72%	28%	60.2	17	1	94%	6%	9	5	-	1	3	60%	33%	-	7%	1	6	5	1	1	-	-	7%	40%	33%	7%	7%	-	9/24/2013	10/5/2013	10/11/2013	10/15/2013	11/19/2013						
		2015	11	9	1	1	90%	10%	61.0	11	-	100%	-	2	5	-	-	4	29%	71%	-	-	-	5	-	-	-	-	-	-	71%	-	-	-	-	8/15/2014	9/2/2014	9/20/2014	9/23/2014	10/7/2014						
Lemhi River	LLR, KEN, AGC, LRW, HYC, WPC, WIMPYC, BHC, LLS, BTC, HEC, CAC, HAYDNC	2010	44	22	21	1	51%	49%	61.6	44	-	100%	-	30	11	-	-	3	73%	27%	-	-	2	22	15	1	-	-	-	5%	54%	37%	2%	-	-	8/27/2009	9/9/2009	9/22/2009	10/6/2009	11/1/2009	2	2	-	31.8%	32.3%	99.5%
		2011	33	20	13	-	61%	39%	64.7	33	-	100%	-	5	25	1	-	2	16%	81%	3%	-	-	13	15	1	-	-	-	-	42%	48%	3%	-	-	8/23/2010	9/5/2010	9/16/2010	10/3/2010	11/4/2010	-	-	-	31.0%	31.6%	99.5%
		2012	36	26	10	-	72%	28%	61.6	36	-	100%	-	17	18	-	-	1	49%	51%	-	-	2	11	17	5	-	-	-	6%	31%	49%	14%	-	-	8/6/2011	9/1/2011	9/8/2011	9/25/2011	10/14/2011	2	2	-	32.1%	32.3%	98.9%
		2013	51	33	18	-	65%	35%	64.0	51	-	100%	-	21	28	-	1	1	42%	56%	-	2%	3	26	12	3	-	-	-	6%	52%	24%	6%	-	-	9/1/2012	9/14/2012	9/27/2012	10/5/2012	11/13/2012	3	3	-	31.3%	31.5%	100.0%
		2014	33	22	11	-	67%	33%	61.8	33	-	100%	-	18	15	-	-	-	55%	45%	-	-	6	12	8	3	-	-	-	18%	36%	24%	9%	-	-	9/27/2013	10/6/2013	10/11/2013	10/15/2013	3/21/2014	1	1	-	31.0%	31.4%	98.9%
		2015	31	20	11	-	65%	35%	63.5	30	1	97%	3%	12	19	-	-	-	39%	61%	-	-	2	10	15	1	-	-	-	6%	32%	48%	3%	-	-	9/2/2014	9/18/2014	9/29/2014	10/4/2014	11/7/2014	1	1	-	30.7%	31.8%	98.9%
Carmen Creek	CRC, CARMEC	2014	8	5	3	-	63%	38%	64.5	7	1	88%	13%	3	2	-	-	3	60%	40%	-	-	-	4	1	-	-	-	-	-	80%	20%	-	-	-	9/25/2013	9/29/2013	10/8/2013	10/11/2013	3/20/2014						
Big Creek	TAY, BIG2C	2010	39	28	11	-	72%	28%	68.6	37	2	95%	5%	18	18	1	-	2	49%	49%	3%	-	-	1	15	13	3	-	-	-	3%	41%	35%	8%	-	9/6/2009	9/12/2009	9/15/2009	9/21/2009	10/5/2009	1	1	-	28.5%	28.5%	93.5%
		2011	56	37	17	2	69%	31%	74.0	41	15	73%	27%	7	49	-	-	-	13%	88%	-	-	-	1	16	31	5	-	-	-	2%	29%	55%	9%	-	9/1/2010	9/10/2010	9/15/2010	9/27/2010	10/18/2010	1	1	-	28.7%	28.8%	94.1%
		2012	26	16	8	2	67%	33%	70.9	23	3	88%	12%	5	19	1	1	-	19%	73%	4%	4%	-	-	8	10	6	-	-	-	-	31%	38%	23%	-	9/5/2011	9/13/2011	9/17/2011	9/29/2011	10/23/2011	4	4	-	28.7%	29.0%	89.2%
		2013	55	34	20	1	63%	37%	71.8	34	21	62%	38%	19	35	-	-	1	35%	65%	-	-	-	3	20	19	2	-	-	-	6%	37%	35%	4%	-	9/4/2012	9/18/2012	9/25/2012	10/3/2012	10/22/2012	1	1	-	28.5%	29.0%	94.6%
		2014	25	17	8	-	68%	32%	67.8	23	2	92%	8%	12	12	-	1	-	48%	48%	-	4%	-	4	9	7	-	-	-	-	16%	36%	28%	-	-	9/26/2013	10/1/2013	10/5/2013	10/12/2013	10/19/2013	3	2	1	29.0%	28.4%	89.7%
		2015	43	32	11	-	74%	26%	70.5	36	7	84%	16%	7	20	-	-	16	26%	74%	-	-	-	2	12	7	-	-	-	-	7%	44%	26%	-	-	8/31/2014	9/14/2014	9/21/2014	9/30/2014	10/12/2014	1	1	-	28.7%	28.8%	95.1%
South Fork Salmon River	SFG, JOHNSC, ZEN, LAKEC, KRS, STR, ESS	2010	156	99	52	5	66%	34%	72.7	113	43	72%	28%	57	91	4	-	4	38%	60%	3%	-	-	5	42	64	23	1	-	-	3%	28%	42%	15%	1%	9/7/2009	9/14/2009	9/21/2009	10/3/2009	10/19/2009	3	3	-	29.3%	29.5%	98.4%
		2011	283	207	69	7	75%	25%	79.2	99	184	35%	65%	2	272	7	1	1	1%	96%	2%	0%	-	2	55	154	27	-	-	-	1%	20%	55%	10%	-	9/5/2010	9/14/2010	9/21/2010	9/29/2010	10/15/2010	7	6	1	29.2%	29.7%	100.0%
		2012	134	97	37	-	72%	28%	76.3	74	60	55%	45%	8	110	10	4	2	6%	83%	8%	3%	-	-	30	71	17	2	-	-	-	23%	54%	13%	2%	9/3/2011	9/15/2011	9/23/2011	10/1/2011	10/21/2011	2	2	-	29.0%	29.5%	96.8%
		2013	109	84	25	-	77%	23%	78.1	38	71	35%	65%	11	92	2	3	1	10%	85%	2%	3%	-	2	20	40	13	1	-	-	2%	19%	37%	12%	1%	9/10/2012	9/16/2012	9/26/2012	10/3/2012	10/20/2012	2	1	1	30.1%	29.7%	98.9%
		2014	94	59	35	-	63%	37%	76.0	43	51	46%	54%	18	55	15	2	4	20%	61%	17%	2%	1	7	28	35	3	-	-	1%	8%	31%	39%	3%	-	9/25/2013	9/30/2013	10/7/2013	10/14/2013	11/4/2013	2	2	-	29.2%	29.5%	93.0%
		2015	174	129	44	1	75%	25%	77.4	85	89	49%	51%	6	158	10	-	-	3%	91%	6%	-	-	6	85	51	2	1	-	-	3%	49%	29%	1%	1%	9/12/2014	9/23/2014	9/28/2014	10/4/2014	10/21/2014	3	3	-	29.3%	29.6%	98.9%
South Fork Salmon River mainstem	KRS, STR, ESS, SALRSF, KNOXB	2010	114	68	42	4	62%	38%	73.3	79	35	69%	31%	42	65	4	-	3	38%	59%	4%	-	-	4	35	44	15	1	-	-	4%	32%	40%	14%	1%	9/7/2009	9/15/2009	9/21/2009	10/5/2009	10/19/2009	3	3	-	29.1%	29.4%	97.8%
		2011	215	156	54	5	74%	26%	79.4	66	149	31%	69%	2	205	7	-	1	1%	96%	3%	-	-	-	46	116	18	-	-	-	-	21%	54%	8%	-	9/5/2010	9/14/2010	9/21/2010	9/29/2010	10/16/2010	3	3	-	29.5%	29.8%	98.9%
		2012	101	70	31	-	69%	31%	76.7	51	50	50%	50%	7	83	8	2	1	7%	83%	8%	2%	-	-	24	54	12	2	-	-	-	24%	54%	12%	2%	9/4/2011	9/16/2011	9/24/2011	10/2/2011	10/17/2011	1	1	-	29.0%	29.4%	94.6%
		2013	98	71	27	-	72%	28%	78.4	34	64	35%	65%	10	85	1	1	1	10%	88%	1%	1%	-	1	19	38	9	1	-	-	1%	20%	39%	9%	1%	9/9/2012	9/15/2012	9/25/2012	10/3/2012	10/20/2012	3	1	2	30.3%	29.7%	98.4%
		2014	75	47	28	-	63%	37%	76.9	30	45	40%	60%	12	44	13	2	4	17%	62%	18%	3%	-	5	23	30	3	-	-	-	7%	32%	42%	4%	-	9/25/2013	9/30/2013	10/8/2013	10/14/2013	11/4/2013	1	1	-	29.3%	29.5%	91.4%
		2015	134	95	38	1	71%	29%	77.8	62	72	46%	54%	5	119	10	-	-	4%	89%	7%	-	-	6	66	39	2	-	-	-	4%	49%	29%	1%	-	9/13/2014	9/23/2014	9/29/2014	10/4/2014	10/21/2014	3	3	-	29.2%	29.5%	96.8%
Secesh River	ZEN	2010	18	13	4	1	76%	24%	71.1	14	4	78%	22%	6	12	-	-	-	33%	67%	-	-	-	-	2	8	6	-	-	-	-	11%	44%	33%	-	9/6/2009	9/10/2009	9/15/2009	9/25/2009	10/8/2009						
		2011	39	27	10	2	73%	27%	78.2	20	19	51%	49%	-	38	-	1	-	-	97%	-	3%	-	2	3	21	7	-	-	-	5%	8%	54%	18%	-	9/5/2010	9/14/2010	9/21/2010	9/25/2010	11/1/2010	2	2	-	27.7%	28.5%	94.1%
		2012	18	15	3	-	83%	17%	74.9	13	5	72%	28%	-	16	-	1	1	-	94%	-	6%	-	-	1	11	2	-	-	-	-	6%	65%	12%	-	9/1/2011	9/11/2011	9/19/2011	9/24/2011	10/8/2011						
		2013	6	6	-	-	100%	0%	77.2	2	4	33%	67%	-	6	-	-	-	-	100%	-	-	-	-	1	1	2	-	-	-	-	17%	17%	33%	-	9/16/2012	9/20/2012	9/27/2012	9/30/2012	10/1/2012						
		2014	14	8	6	-	57%	43%	73.4	9	5	64%	36%	4	8	2	-	-	29%	57%	14%	-	-	1	2	5	-	-	-	-	7%	14%	36%	-	-	9/24/2013	9/30/2013	10/5/2013	10/12/2013	11/1/2013						
		2015	23	20	3	-	87%	13%	77.1	13	10	57%	43%	-	23	-	-	-	-	100%	-	-	-	-	8	10	-	1	-	-	-	35%	43%	-	4%	9/17/2014	9/22/2014	9/27/2014	10/6/2014	10/15/2014	1	-	1	29.0%	28.7%	90.8%
Rapid River	RAPH, RPDTRP	2010	7	6	1	-	86%	14%	68.4	7	-	100%	-	4	3	-	-	-	57%	43%	-	-	1	1	1	3	-	-	-	14%	14%	14%	43%	-	-	9/10/2009	9/15/2009	9/21/2009	10/1/2009	10/11/2009						
		2011	4	4	-	-	100%	0%	76.8	3	1	75%	25%	-	4	-	-	-	-	100%	-	-	-	-	3	1	-	-	-	-	-	75%	25%	-	-	9/13/2010	9/13/2010	9/21/2010	9/21/2010	4/2/2011						
		2012	2	2	-	-	100%	0%	66.5	2	-	100%	-	1	1	-	-	-	50%	50%	-	-	-	1	-	-	-	-	-	-	50%	-	-	-	-	9/12/2011	9/12/2011	9/12/2011	9/17/2011	9/17/2011						
		2013	3	1	2	-	33%	67%	69.3	2	1	67%	33%	2	1	-	-	-	67%	33%	-	-	-	-	1	1	-	-	-	-	-	33%	33%	-	-	9/24/2012	9/24/2012	9/30/2012	11/8/2012	11/8/2012						
		2014	2	1	1	-	50%	50%	75.5	1	1	50%	50%	-	1	-	-	1	-	100%	-	-	-	-	-	1	-	-	-	-	-	-	100%	-	-	10/11/2013	10/11/2013	10/11/2013	3/11/2014	3/11/2014						
		2015	4	3	1	-	75%	25%	67.8	4	-	100%	-	1	2	-	-	1	33%	67%	-	-	-	1	1	-	-	-	-	-	33%	33%	-	-	-	9/17/2014	9/17/2014	9/28/2014	9/29/2014	9/30/2014						
Fish Creek	FISTRP	2010	8	2	5	1	29%	71%	74.4	5	3	63%	38%	2	6	-	-	-	25%	75%	-	-	-	1	5	1	1	-	-	-	13%	63%	13%	13%	-	9/21/2009	10/8/2009	10/14/2009	10/24/2009	4/19/2010						
		2011	5	4	1	-	80%	20%	77.4	2	3	40%	60%	-	5	-	-	-	-	100%	-	-	-	-	-	4	-	-	-	-	-	-	80%	-	-	10/9/2010	10/14/2010	10/31/2010	11/10/2010	5/3/2011						
		2012	8	5	3	-	63%	38%	75.9	4	4	50%	50%	1	5	1	-	1	14%	71%	14%	-	-	-	4	1	-	-	-	-	-	57%	14%	-	-	9/13/2011	9/16/2011	10/3/2011	10/17/2011	3/29/2012						
		2013	10	8	2	-	80%	20%	78.1	4	6	40%	60%	1	7	-	-	2	13%	88%	-	-	-	1	1	2	-	-	-	-	13%	13%	25%	-	-	10/6/2012	10/21/2012	10/21/2012	11/18/2012	4/23/2013						
		2014	11	4	7	-	36%	64%	71.6	7	4	64%	36%	3	4	-	-	4	43%	57%	-	-	-	2	3	1	-	-	-	-	29%	43%	14%	-	-	9/23/2013	10/12/2013	10/21/2013	11/3/2013	4/30/2014						
		2015	37	30	6	1	83%	17%	75.7	23	14	62%	38%	-	27	-	-	10	-	100%	-	-	-	3	17	4	-	-	-	-	11%	63%	15%	-	-	9/20/2014	9/28/2014	10/9/2014	10/20/2014	4/7/2015	-	-	-	27.3%	27.1%	88.6%
Lolo Creek	LC1, LC2	2012	65	36	26	3	58%	42%	76.8	30	35	46%	54%	4	51	5	-	5	7%	85%	8%	-	-	3	37	10	2	-	-	-	5%	62%	17%	3%	-	9/12/2011	9/22/2011	9/30/2011	10/14/2011	3/25/2012	1	1	-	27.9%	27.8%	94.1%
		2013	45	33	12	-	73%	27%	77.5	21	24	47%	53%	3	41	1	-	-	7%	91%	2%	-	-	5	23	11	-	-	-	-	11%	51%	24%	-	-	9/14/2012	9/26/2012	9/30/2012	10/21/2012	11/6/2012	1	1	-	28.0%	27.6%	91.9%
		2014	34	20	14	-	59%	41%	72.9	21	13	62%	38%	11	16	3	3	1	33%	48%	9%	9%	3	4	14	4	2	-	-	9%	12%	42%	12%	6%	-	9/25/2013	10/4/2013	10/10/2013	10/23/2013	4/7/2014	1	-	1	27.7%	27.5%	93.0%
		2015	52	34	17	1	67%	33%	76.9	21	31	40%	60%	4	43	2	-	3	8%	88%	4%	-	-	4	31	10	1	-	-	-	8%	63%	20%	2%	-	9/20/2014	9/27/2014	10/5/2014	10/17/2014	3/31/2015	-	-	-	27.9%	27.9%	94.6%
South Fork Clearwater	SC1, SC2, CLWRSF, CROOKR, CROTRP, RRT	2012	114	75	39	-	66%	34%	77.7	58	56	51%	49%	4	98	10	-	2	4%	88%	9%	-	-	7	56	28	6	1	-	-	6%	50%	25%	5%	1%	9/1/2011	9/22/2011	10/4/2011	10/17/2011	3/29/2012	2	1	1	28.0%	28.1%	95.7%
		2013	86	47	36	3	57%	43%	79.1	30	56	35%	65%	2	76	5	-	3	2%	92%	6%	-	-	17	29	18	1	-	-	-	20%	35%	22%	1%	-	9/15/2012	9/27/2012	10/9/2012	11/1/2012	3/15/2013	5	5	-	27.6%	27.7%	96.2%
		2014	58	31	27	-	53%	47%	73.8	33	25	57%	43%	13	34	7	-	4	24%	63%	13%	-	-	13	26	9	2	-	-	-	24%	48%	17%	4%	-	9/27/2013	10/9/2013	10/16/2013	11/4/2013	3/31/2014	1	1	-	27.4%	27.8%	94.6%
		2015	74	52	21	1	71%	29%	78.0	29	45	39%	61%	4	67	3	-	-	5%	91%	4%	-	1	13	39	11	4	-	-	1%	18%	53%	15%	5%	-	9/14/2014	9/28/2014	10/3/2014	10/13/2014	11/5/2014	1	-	1	27.9%	28.0%	95.7%
Clear Creek	CLC, KOOS	2013	1	1	-	-	100%	0%	75.0	1	-	100%	-	-	1	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9/27/2012	9/27/2012	9/27/2012	9/27/2012	9/27/2012						
		2015	17	13	4	-	76%	24%	76.3	8	9	47%	53%	-	8	-	-	9	-	100%	-	-	-	2	2	3	-	-	-	-	25%	25%	38%	-	-	8/14/2014	9/27/2014	10/3/2014	10/9/2014	10/20/2014						
Lapwai Creek	LAP, SWT, WEB, MIS	2010	57	25	31	1	45%	55%	62.7	56	1	98%	2%	40	15	1	1	-	70%	26%	2%	2%	8	32	8	3	-	-	-	14%	56%	14%	5%	-	-	9/6/2009	9/15/2009	10/3/2009	10/18/2009	3/28/2010	2	2	-	30.3%	30.7%	98.9%
		2011	24	17	5	2	77%	23%	66.1	24	-	100%	-	8	16	-	-	-	33%	67%	-	-	-	11	12	-	-	-	-	-	46%	50%	-	-	-	7/16/2010	9/11/2010	9/19/2010	10/5/2010	3/25/2011	1	1	-	30.7%	30.2%	98.9%
		2012	19	11	8	-	58%	42%	65.0	19	-	100%	-	9	8	-	-	2	53%	47%	-	-	-	10	6	-	-	-	-	-	59%	35%	-	-	-	7/20/2011	8/22/2011	9/21/2011	10/29/2011	4/3/2012						
		2013	47	32	14	1	70%	30%	67.4	46	1	98%	2%	13	31	-	1	2	29%	69%	-	2%	2	17	20	1	1	-	-	4%	38%	44%	2%	2%	-	9/11/2012	9/17/2012	10/4/2012	10/27/2012	4/10/2013	-	-	-	29.6%	29.8%	96.2%
		2014	42	18	24	-	43%	57%	60.2	42	-	100%	-	26	13	-	-	3	67%	33%	-	-	8	18	10	-	-	-	-	21%	46%	26%	-	-	-	9/25/2013	10/7/2013	10/12/2013	10/27/2013	3/27/2014	-	-	-	30.7%	30.4%	98.4%
		2015	51	29	22	-	57%	43%	62.5	51	-	100%	-	27	20	-	3	1	54%	40%	-	6%	8	25	11	-	-	-	-	16%	50%	22%	-	-	-	9/4/2014	9/21/2014	10/2/2014	10/17/2014	3/26/2015	1	1	-	30.6%	30.9%	100.0%
Potlatch River	JUL, HLM, POTREF, POTRWF, KHS, LBEARC, BIGBEC	2010	66	28	36	2	44%	56%	66.0	65	1	98%	2%	40	24	-	1	1	62%	37%	-	2%	1	37	23	2	-	-	-	2%	57%	35%	3%	-	-	9/6/2009	9/14/2009	9/29/2009	10/15/2009	11/13/2009	-	-	-	29.3%	29.9%	99.5%
		2011	28	16	12	-	57%	43%	69.4	24	4	86%	14%	11	14	1	-	2	42%	54%	4%	-	2	8	16	-	-	-	-	8%	31%	62%	-	-	-	8/31/2010	9/10/2010	9/26/2010	10/11/2010	10/27/2010	-	-	-	29.8%	30.2%	95.1%
		2012	61	38	22	1	63%	37%	68.5	57	4	93%	7%	18	42	-	-	1	30%	70%	-	-	2	19	36	1	-	-	-	3%	32%	60%	2%	-	-	8/17/2011	9/2/2011	9/13/2011	9/28/2011	11/20/2011	1	1	-	30.4%	30.5%	98.4%
		2013	40	27	12	1	69%	31%	71.6	34	6	85%	15%	6	32	-	-	2	16%	84%	-	-	1	8	24	2	-	-	-	3%	21%	63%	5%	-	-	9/14/2012	10/1/2012	10/11/2012	11/4/2012	3/18/2013	1	1	-	30.0%	30.0%	97.8%
		2014	43	18	25	-	42%	58%	62.2	42	1	98%	2%	24	12	-	-	7	67%	33%	-	-	1	19	13	2	-	-	-	3%	53%	36%	6%	-	-	9/24/2013	10/5/2013	10/11/2013	10/28/2013	3/24/2014	1	-	1	31.0%	30.6%	97.8%
		2015	15	7	7	1	50%	50%	65.8	14	1	93%	7%	5	8	-	-	2	38%	62%	-	-	1	4	7	1	-	-	-	8%	31%	54%	8%	-	-	8/21/2014	9/18/2014	10/1/2014	10/29/2014	4/1/2015						
Potlatch above HLM	HLM, POTREF, POTRWF	2010	12	6	6	-	50%	50%	68.2	12	-	100%	-	5	7	-	-	-	42%	58%	-	-	-	5	7	-	-	-	-	-	42%	58%	-	-	-	9/8/2009	9/8/2009	9/29/2009	10/10/2009	10/26/2009						
		2011	6	2	4	-	33%	67%	67.3	5	1	83%	17%	3	2	-	-	1	60%	40%	-	-	1	1	3	-	-	-	-	20%	20%	60%	-	-	-	9/2/2010	9/9/2010	9/13/2010	10/10/2010	10/14/2010						
		2012	4	1	3	-	25%	75%	64.5	4	-	100%	-	2	2	-	-	-	50%	50%	-	-	-	2	1	1	-	-	-	-	50%	25%	25%	-	-	8/23/2011	8/23/2011	9/28/2011	10/1/2011	10/8/2011						
		2013	18	11	6	1	65%	35%	71.6	15	3	83%	17%	3	14	-	-	1	18%	82%	-	-	-	1	14	1	-	-	-	-	6%	82%	6%	-	-	9/5/2012	10/3/2012	10/17/2012	11/9/2012	4/9/2013						
		2014	24	9	15	-	38%	63%	62.3	23	1	96%	4%	15	7	-	-	2	68%	32%	-	-	-	11	9	1	-	-	-	-	50%	41%	5%	-	-	9/26/2013	10/7/2013	10/14/2013	11/7/2013	3/31/2014	1	1	-	30.6%	30.1%	95.7%
		2015	9	5	4	-	56%	44%	68.2	8	1	89%	11%	2	7	-	-	-	22%	78%	-	-	-	2	6	1	-	-	-	-	22%	67%	11%	-	-	9/9/2014	9/18/2014	9/25/2014	10/4/2014	11/3/2014						

a) A-run < 78 cm FL; B-run ≥ 78 cm FL
b) Groups with < 20 individuals were excluded from genetic analysis

Appendix A. continued

STEELHEAD			LIFE-HISTORY																																						GENETICS[b]					
				Genetic Sex					Length[a]					Ocean (Saltwater) Age									Total Age													Run Timing					Hardy-Weinberg Equilibrium			Genetic Diversity		
				Frequency			Percentage			Frequency		Percentage		Frequency					Percentage				Frequency							Percentage																
Location	Arrays	Year	Total Det'ns	F	M	U	%F	%M	Mean Length (mm FL)	A-Run	B-Run	A-Run	B-Run	1	2	3	Kelt	U	1	2	3	Kelt	3	4	5	6	7	8	U	3	4	5	6	7	8	5th	25th	50th	75th	95th	Total Dev	Het -	Het +	H_o	H_e	% Poly SNPs
Potlatch above KHS	KHS, LBEARC, BIGBEC	2010	23	8	14	1	36%	64%	67.0	23	-	100%	-	13	9	-	-	1	59%	41%	-	-	-	15	6	1	-	-	-	-	68%	27%	5%	-	-	9/6/2009	9/12/2009	10/4/2009	10/19/2009	11/13/2009	-	-	-	29.7%	29.7%	94.6%
		2011	10	6	4	-	60%	40%	71.2	8	2	80%	20%	4	4	1	-	1	44%	44%	11%	-	-	4	5	-	-	-	-	-	44%	56%	-	-	-	8/31/2010	9/23/2010	10/1/2010	10/11/2010	11/2/2010						
		2012	21	14	7	-	67%	33%	72.2	17	4	81%	19%	3	18	-	-	-	14%	86%	-	-	-	3	16	-	-	-	-	-	14%	76%	-	-	-	8/17/2011	9/5/2011	9/18/2011	10/6/2011	3/28/2012	-	-	-	30.1%	29.3%	94.6%
		2013	19	13	6	-	68%	32%	71.2	16	3	84%	16%	3	15	-	-	1	17%	83%	-	-	1	6	9	-	-	-	-	6%	33%	50%	-	-	-	9/14/2012	9/22/2012	10/8/2012	10/25/2012	4/11/2013						
		2014	19	9	10	-	47%	53%	61.9	19	-	100%	-	9	5	-	-	5	64%	36%	-	-	1	8	4	1	-	-	-	7%	57%	29%	7%	-	-	9/23/2013	10/1/2013	10/8/2013	10/13/2013	3/24/2014						
		2015	6	2	3	1	40%	60%	62.2	6	-	100%	-	3	1	-	-	2	75%	25%	-	-	1	2	1	-	-	-	-	25%	50%	25%	-	-	-	8/21/2014	9/27/2014	10/2/2014	11/7/2014	4/1/2015						
Imnaha River	IR1, IR2, HORS3C, CMP, BSC, LSHEEF, IR3, CZY, IMNAHW, FREEZC, GUMBTC, MAHOGC	2010	14	8	6	-	57%	43%	62.4	14	-	100%	-	9	4	1	-	-	64%	29%	7%	-	-	5	6	1	1	-	-	-	36%	43%	7%	7%	-	8/31/2009	9/10/2009	9/22/2009	10/13/2009	10/22/2009						
		2011	320	183	129	8	59%	41%	64.5	315	5	98%	2%	125	188	-	3	4	40%	59%	-	1%	1	90	148	43	2	-	-	0%	28%	47%	14%	1%	-	8/13/2010	9/11/2010	9/23/2010	10/11/2010	4/10/2011	7	7	-	29.7%	30.0%	100.0%
		2012	288	190	95	3	67%	33%	64.4	287	1	100%	0%	98	182	-	4	4	35%	64%	-	1%	-	47	157	60	3	-	-	-	17%	55%	21%	1%	-	8/11/2011	9/1/2011	9/16/2011	10/6/2011	4/4/2012	5	5	-	29.4%	29.8%	100.0%
		2013	210	132	74	4	64%	36%	63.5	207	3	99%	1%	100	99	-	3	8	50%	49%	-	1%	4	45	80	38	2	-	-	2%	22%	40%	19%	1%	-	9/11/2012	9/17/2012	9/28/2012	10/25/2012	4/18/2013	2	2	-	29.8%	29.8%	100.0%
		2014	290	168	121	1	58%	42%	61.0	288	2	99%	1%	185	96	-	1	8	66%	34%	-	0%	10	103	129	10	1	-	-	4%	37%	46%	4%	0%	-	9/25/2013	10/6/2013	10/13/2013	10/23/2013	4/16/2014	5	3	2	30.0%	30.0%	100.0%
		2015	203	123	79	1	61%	39%	62.1	202	1	100%	0%	98	94	-	5	6	50%	48%	-	3%	2	61	79	20	-	-	-	1%	31%	40%	10%	-	-	8/21/2014	9/18/2014	9/29/2014	10/12/2014	3/23/2015	1	-	1	29.6%	29.8%	100.0%
Cow Creek	COC	2011	14	10	3	1	77%	23%	64.1	14	-	100%	-	7	7	-	-	-	50%	50%	-	-	-	5	8	1	-	-	-	-	36%	57%	7%	-	-	9/3/2010	9/25/2010	10/9/2010	10/12/2010	5/1/2011						
		2012	12	11	1	-	92%	8%	63.8	12	-	100%	-	2	10	-	-	-	17%	83%	-	-	-	2	7	2	-	-	-	-	17%	58%	17%	-	-	8/5/2011	9/12/2011	10/3/2011	10/29/2011	4/2/2012						
		2013	7	3	4	-	43%	57%	57.9	7	-	100%	-	5	-	-	-	2	100%	-	-	-	-	2	-	1	-	-	-	-	40%	-	20%	-	-	9/10/2012	9/30/2012	3/8/2013	4/17/2013	4/18/2013						
		2014	33	19	14	-	58%	42%	56.4	33	-	100%	-	27	6	-	-	-	82%	18%	-	-	1	13	10	1	-	-	-	3%	39%	30%	3%	-	-	9/24/2013	10/9/2013	10/14/2013	10/25/2013	5/6/2014	1	1	-	30.1%	29.1%	94.6%
		2015	10	9	-	1	100%	0%	64.2	10	-	100%	-	2	7	-	1	-	20%	70%	-	10%	-	1	4	4	1	-	-	-	10%	40%	40%	10%	-	9/7/2014	9/20/2014	9/30/2014	10/3/2014	10/18/2014						
Big Sheep Creek	BSC	2011	74	42	30	2	58%	42%	64.1	73	1	99%	1%	29	44	-	-	1	40%	60%	-	-	-	18	34	14	1	-	-	-	25%	47%	19%	1%	-	7/27/2010	9/7/2010	9/21/2010	10/13/2010	4/10/2011	1	1	-	30.1%	29.7%	97.3%
		2012	89	57	31	1	65%	35%	64.5	89	-	100%	-	24	63	-	2	-	27%	71%	-	2%	-	13	47	23	1	-	-	-	15%	53%	26%	1%	-	8/11/2011	9/3/2011	9/13/2011	10/2/2011	10/28/2011	2	2	-	29.6%	29.5%	97.8%
		2013	50	35	14	1	71%	29%	64.7	49	1	98%	2%	18	32	-	-	-	36%	64%	-	-	3	2	24	11	-	-	-	6%	4%	48%	22%	-	-	9/9/2012	9/16/2012	9/24/2012	10/9/2012	11/2/2012	1	-	1	30.2%	29.7%	96.8%
		2014	65	34	30	1	53%	47%	60.8	64	1	98%	2%	40	23	-	-	2	63%	37%	-	-	2	18	34	4	1	-	-	3%	29%	54%	6%	2%	-	9/24/2013	10/3/2013	10/14/2013	11/2/2013	4/10/2014	2	1	1	29.9%	29.8%	96.8%
		2015	43	23	20	-	53%	47%	61.5	43	-	100%	-	20	20	-	3	-	47%	47%	-	7%	-	13	15	7	-	-	-	-	30%	35%	16%	-	-	8/30/2014	9/17/2014	9/25/2014	10/6/2014	10/21/2014	-	-	-	29.5%	29.4%	95.1%
Grande Ronde River upper mainstem	UGR, GRANDW, CATHEW, CATHEC, GRAND2, GRNTRP	2010	12	7	5	-	58%	42%	64.3	12	-	100%	-	8	4	-	-	-	67%	33%	-	-	1	4	5	-	-	-	-	8%	33%	42%	-	-	-	8/24/2009	9/8/2009	9/21/2009	10/26/2009	3/21/2010						
		2011	13	7	6	-	54%	46%	58.9	13	-	100%	-	12	1	-	-	-	92%	8%	-	-	1	6	6	-	-	-	-	8%	46%	46%	-	-	-	7/22/2010	10/2/2010	10/9/2010	10/26/2010	4/1/2011						
		2012	27	20	6	1	77%	23%	63.5	27	-	100%	-	12	15	-	-	-	44%	56%	-	-	-	8	16	1	1	-	-	-	30%	59%	4%	4%	-	7/31/2011	8/21/2011	9/6/2011	10/5/2011	10/23/2011	-	-	-	31.0%	30.0%	97.8%
		2013	160	116	43	1	73%	27%	64.9	160	-	100%	-	60	88	-	9	3	38%	56%	-	6%	3	43	73	16	6	1	-	2%	27%	46%	10%	4%	1%	9/8/2012	9/18/2012	9/29/2012	10/13/2012	4/4/2013	2	1	1	30.5%	30.6%	99.5%
		2014	139	65	73	1	47%	53%	60.5	139	-	100%	-	94	37	-	2	6	71%	28%	-	2%	8	52	57	2	2	-	-	6%	39%	43%	2%	2%	-	9/27/2013	10/9/2013	10/13/2013	10/24/2013	3/21/2014	3	2	1	30.7%	30.8%	99.5%
		2015	178	128	49	1	72%	28%	65.2	175	3	98%	2%	50	122	-	1	5	29%	71%	-	1%	-	54	92	15	-	-	-	-	31%	53%	9%	-	-	8/18/2014	9/18/2014	10/1/2014	10/12/2014	3/25/2015	3	3	-	30.3%	30.7%	100.0%
Lookingglass Creek	LOOH, LOOKGC	2010	7	3	3	1	50%	50%	64.0	7	-	100%	-	5	2	-	-	-	71%	29%	-	-	-	2	5	-	-	-	-	-	29%	71%	-	-	-	8/25/2009	9/10/2009	10/22/2009	10/24/2009	11/15/2009						
		2011	11	8	2	1	80%	20%	69.7	10	1	91%	9%	-	11	-	-	-	-	100%	-	-	-	-	6	5	-	-	-	-	-	55%	45%	-	-	8/2/2010	9/5/2010	9/10/2010	10/15/2010	4/11/2011						
		2012	11	5	6	-	45%	55%	64.8	10	1	91%	9%	5	5	-	-	1	50%	50%	-	-	-	1	5	3	-	-	-	-	10%	50%	30%	-	-	8/25/2011	9/11/2011	9/20/2011	4/27/2012	5/11/2012						
		2013	14	9	5	-	64%	36%	67.1	14	-	100%	-	2	6	-	1	5	22%	67%	-	11%	-	1	3	3	1	-	-	-	11%	33%	33%	11%	-	9/2/2012	9/14/2012	9/26/2012	10/21/2012	3/11/2013						
		2014	15	8	7	-	53%	47%	61.4	15	-	100%	-	8	4	-	-	3	67%	33%	-	-	-	4	6	2	-	-	-	-	33%	50%	17%	-	-	9/24/2013	10/9/2013	10/14/2013	3/12/2014	4/29/2014						
		2015	8	6	2	-	75%	25%	66.3	8	-	100%	-	2	3	-	-	3	40%	60%	-	-	1	-	1	2	-	-	-	20%	-	20%	40%	-	-	7/7/2014	9/4/2014	9/18/2014	9/25/2014	10/13/2014						
Wallowa River	WR1, WALH, LOSTIW, BCANF, MINAMR, WALLOR	2010	6	1	5	-	17%	83%	64.5	5	1	83%	17%	4	2	-	-	-	67%	33%	-	-	-	1	3	-	-	-	-	-	17%	50%	-	-	-	9/17/2009	9/25/2009	9/30/2009	10/6/2009	10/22/2009						
		2011	18	11	7	-	61%	39%	66.6	18	-	100%	-	5	12	-	1	-	28%	67%	-	6%	1	5	6	3	-	-	-	6%	28%	33%	17%	-	-	8/8/2010	9/18/2010	10/5/2010	10/24/2010	4/4/2011						
		2012	14	4	9	1	31%	69%	65.5	14	-	100%	-	5	8	-	1	-	36%	57%	-	7%	-	2	7	2	-	-	-	-	14%	50%	14%	-	-	8/7/2011	8/17/2011	9/23/2011	11/16/2011	3/24/2012						
		2013	20	9	11	-	45%	55%	65.0	19	1	95%	5%	5	5	-	-	10	50%	50%	-	-	-	2	3	3	-	-	-	-	20%	30%	30%	-	-	7/22/2012	9/16/2012	10/3/2012	10/23/2012	4/5/2013	-	-	-	30.8%	30.5%	97.8%
		2014	63	32	31	-	51%	49%	63.3	62	1	98%	2%	34	21	-	3	5	59%	36%	-	5%	2	22	20	5	1	-	-	3%	38%	34%	9%	2%	-	9/25/2013	10/7/2013	10/13/2013	10/23/2013	4/3/2014	2	2	-	30.6%	30.7%	99.5%
		2015	82	56	24	2	70%	30%	65.4	81	1	99%	1%	25	51	-	1	5	32%	66%	-	1%	3	23	35	7	-	-	-	4%	30%	45%	9%	-	-	9/1/2014	9/18/2014	9/30/2014	10/15/2014	3/30/2015	2	2	-	30.7%	31.1%	99.5%
Joseph Creek	JOC, JOSEPC	2011	165	107	54	4	66%	34%	65.4	163	2	99%	1%	62	95	-	5	3	38%	59%	-	3%	1	55	86	4	4	-	-	1%	34%	53%	2%	2%	-	8/13/2010	9/13/2010	9/28/2010	10/18/2010	3/31/2011	3	3	-	29.7%	30.3%	100.0%
		2012	194	118	74	2	61%	39%	62.1	194	-	100%	-	109	77	-	1	7	58%	41%	-	1%	2	81	81	15	-	-	-	1%	43%	43%	8%	-	-	8/5/2011	8/24/2011	9/12/2011	10/11/2011	4/5/2012	2	2	-	29.7%	29.9%	99.5%
		2013	236	160	74	2	68%	32%	66.7	231	5	98%	2%	71	145	-	10	10	31%	64%	-	4%	3	50	115	22	3	-	-	1%	22%	51%	10%	1%	-	9/7/2012	9/20/2012	10/6/2012	10/25/2012	4/11/2013	2	2	-	29.5%	29.9%	100.0%
		2014	239	106	133	-	44%	56%	59.8	238	1	100%	0%	177	49	-	2	11	78%	21%	-	1%	19	116	62	8	2	-	-	8%	51%	27%	4%	1%	-	9/26/2013	10/8/2013	10/12/2013	10/22/2013	3/24/2014	2	2	-	29.7%	30.0%	99.5%
		2015	257	159	94	4	63%	37%	64.0	253	4	98%	2%	100	149	1	3	4	40%	59%	0%	1%	4	60	141	16	1	-	-	2%	24%	56%	6%	0%	-	8/15/2014	9/16/2014	9/28/2014	10/13/2014	4/1/2015	4	3	1	30.1%	30.2%	98.9%
Asotin Creek	ACM, GEORGC, ASOTIC, ACB, AFC, CCA, CHARLC	2010	81	30	41	10	42%	58%	62.0	81	-	100%	-	59	20	-	-	2	75%	25%	-	-	4	43	22	5	-	-	-	5%	54%	28%	6%	-	-	9/7/2009	9/13/2009	10/2/2009	10/28/2009	3/23/2010	3	3	-	30.7%	30.9%	99.5%
		2011	90	64	24	2	73%	27%	67.2	87	3	97%	3%	19	65	2	1	3	22%	75%	2%	1%	1	19	46	9	-	-	-	1%	22%	53%	10%	-	-	7/19/2010	9/10/2010	9/25/2010	10/18/2010	4/5/2011	3	2	1	30.4%	30.7%	100.0%
		2012	105	68	36	1	65%	35%	65.4	103	2	98%	2%	29	75	1	-	-	28%	71%	1%	-	8	20	53	14	1	-	-	8%	19%	50%	13%	1%	-	7/31/2011	8/28/2011	9/11/2011	10/6/2011	3/20/2012	1	1	-	30.5%	30.5%	99.5%
		2013	104	65	36	3	64%	36%	68.0	103	1	99%	1%	25	74	-	-	5	25%	75%	-	-	7	53	19	7	-	-	-	7%	54%	19%	7%	-	-	9/3/2012	9/14/2012	9/28/2012	10/20/2012	4/5/2013	4	3	1	30.4%	30.8%	100.0%
		2014	97	49	48	-	51%	49%	59.0	96	1	99%	1%	70	15	-	-	12	82%	18%	-	-	5	45	22	2	-	-	-	6%	53%	26%	2%	-	-	9/24/2013	10/4/2013	10/12/2013	3/12/2014	4/10/2014	1	1	-	31.0%	30.9%	100.0%
		2015	89	55	34	-	62%	38%	63.9	87	2	98%	2%	32	51	-	1	5	38%	61%	-	1%	6	20	44	3	-	-	-	7%	24%	52%	4%	-	-	8/8/2014	9/15/2014	9/27/2014	10/8/2014	4/2/2015	3	3	-	30.9%	31.0%	100.0%
Almota Creek	ALMOTC	2011	4	3	1	-	75%	25%	62.3	4	-	100%	-	4	-	-	-	-	100%	-	-	-	1	3	-	-	-	-	-	25%	75%	-	-	-	-	9/5/2010	9/5/2010	9/18/2010	10/13/2010	10/17/2010						
		2014	1	-	1	-	0%	100%	53.0	1	-	100%	-	1	-	-	-	-	100%	-	-	-	-	1	-	-	-	-	-	-	100%	-	-	-	-	10/19/2013	10/19/2013	10/19/2013	10/19/2013	10/19/2013						
Alpowa Creek	ALPOWC	2010	12	4	7	1	36%	64%	59.4	12	-	100%	-	12	-	-	-	-	100%	-	-	-	-	12	-	-	-	-	-	-	100%	-	-	-	-	9/7/2009	9/8/2009	9/18/2009	9/30/2009	11/8/2009						
		2011	5	4	1	-	80%	20%	71.0	4	1	80%	20%	1	4	-	-	-	20%	80%	-	-	-	2	1	-	-	-	-	-	40%	20%	-	-	-	8/7/2010	9/21/2010	10/7/2010	10/9/2010	4/13/2011						
		2012	9	3	6	-	33%	67%	58.8	9	-	100%	-	8	1	-	-	-	89%	11%	-	-	2	6	-	1	-	-	-	22%	67%	-	11%	-	-	8/7/2011	8/15/2011	9/9/2011	10/10/2011	4/22/2012						
		2013	14	8	6	-	57%	43%	63.7	14	-	100%	-	4	5	-	-	5	44%	56%	-	-	1	4	1	-	-	-	-	11%	44%	11%	-	-	-	9/11/2012	9/16/2012	10/7/2012	11/1/2012	4/8/2013						
		2014	23	8	15	-	35%	65%	59.7	22	1	96%	4%	15	2	-	-	6	88%	12%	-	-	4	10	1	-	-	-	-	24%	59%	6%	-	-	-	9/26/2013	10/8/2013	10/16/2013	3/12/2014	3/28/2014	-	-	-	31.0%	30.6%	97.3%
		2015	14	9	5	-	64%	36%	62.3	12	2	86%	14%	7	6	-	-	1	54%	46%	-	-	-	8	4	1	-	-	-	-	62%	31%	8%	-	-	7/7/2014	8/30/2014	9/13/2014	9/30/2014	3/19/2015						
Tucannon River	LTR, MTR, UTR, TUCR, PATAHC, TUCH, TFH	2010	84	46	37	1	55%	45%	61.5	84	-	100%	-	63	21	-	-	-	75%	25%	-	-	3	55	20	3	-	-	-	4%	65%	24%	4%	-	-	9/6/2009	9/14/2009	10/1/2009	10/16/2009	3/31/2010	1	1	-	31.2%	31.1%	99.5%
		2011	42	30	9	3	77%	23%	67.0	42	-	100%	-	10	31	-	-	1	24%	76%	-	-	2	13	22	2	-	-	-	5%	32%	54%	5%	-	-	9/6/2010	9/23/2010	10/2/2010	10/24/2010	3/31/2011	2	2	-	29.3%	30.4%	100.0%
		2012	87	57	30	-	66%	34%	64.6	86	1	99%	1%	31	54	-	-	2	36%	64%	-	-	8	25	41	8	-	-	-	9%	29%	48%	9%	-	-	7/23/2011	9/3/2011	10/3/2011	10/28/2011	3/31/2012	4	4	-	29.9%	30.7%	100.0%
		2013	52	34	18	-	65%	35%	65.3	51	1	98%	2%	21	24	-	-	7	47%	53%	-	-	6	22	10	2	1	-	-	13%	49%	22%	4%	2%	-	9/11/2012	9/22/2012	10/4/2012	10/20/2012	4/4/2013	-	-	-	30.5%	30.6%	98.9%
		2014	55	28	26	1	52%	48%	58.5	55	-	100%	-	46	6	-	1	2	87%	11%	-	2%	5	34	10	1	-	-	-	9%	64%	19%	2%	-	-	9/26/2013	10/14/2013	11/18/2013	3/24/2014	4/8/2014	-	-	-	30.3%	30.8%	100.0%
		2015	53	34	17	2	67%	33%	61.5	53	-	100%	-	25	23	-	1	4	51%	47%	-	2%	4	24	12	3	-	-	-	8%	49%	24%	6%	-	-	9/17/2014	9/29/2014	10/3/2014	10/21/2014	3/25/2015	1	1	-	31.4%	31.4%	98.9%
Tucannon Hatchery Weir	TUCH, TFH	2011	2	1	1	-	50%	50%	71.5	2	-	100%	-	-	2	-	-	-	-	100%	-	-	-	-	2	-	-	-	-	-	-	100%	-	-	-	9/22/2010	9/22/2010	9/22/2010	9/25/2010	9/25/2010						
		2012	10	6	4	-	60%	40%	66.1	10	-	100%	-	1	8	-	-	1	11%	89%	-	-	1	1	6	1	-	-	-	11%	11%	67%	11%	-	-	7/18/2011	8/22/2011	10/3/2011	10/27/2011	3/31/2012						
		2013	2	2	-	-	100%	0%	61.5	2	-	100%	-	-	1	-	-	1	-	100%	-	-	-	-	1	-	-	-	-	-	-	100%	-	-	-	9/11/2012	9/11/2012	9/11/2012	10/19/2012	10/19/2012						
		2014	11	5	6	-	45%	55%	55.5	11	-	100%	-	10	-	-	-	1	100%	-	-	-	2	6	1	-	-	-	-	20%	60%	10%	-	-	-	9/27/2013	10/20/2013	11/19/2013	3/26/2014	4/3/2014						
		2015	6	3	3	-	50%	50%	60.2	6	-	100%	-	3	2	-	-	1	60%	40%	-	-	-	2	3	-	-	-	-	-	40%	60%	-	-	-	9/29/2014	9/30/2014	10/3/2014	10/22/2014	4/6/2015						
Penawawa Creek	PENAWC	2013	2	1	1	-	50%	50%	65.5	2	-	100%	-	2	-	-	-	-	100%	-	-	-	2	-	-	-	-	-	-	100%	-	-	-	-	-	9/23/2012	9/23/2012	9/23/2012	10/7/2012	10/7/2012						
		2014	4	-	4	-	0%	100%	58.5	4	-	100%	-	3	-	-	-	1	100%	-	-	-	-	1	-	-	-	-	-	-	33%	-	-	-	-	3/19/2014	3/19/2014	3/19/2014	3/31/2014	4/1/2014						
		2015	12	7	5	-	58%	42%	61.5	12	-	100%	-	4	2	-	-	6	67%	33%	-	-	2	2	2	-	-	-	-	33%	33%	33%	-	-	-	9/6/2014	9/14/2014	10/1/2014	10/8/2014	11/9/2014						
Tenmile Creek	TENMC2	2011	2	1	-	1	100%	0%	64.0	2	-	100%	-	1	1	-	-	-	50%	50%	-	-	-	-	2	-	-	-	-	-	-	100%	-	-	-	10/7/2010	10/7/2010	10/7/2010	4/3/2011	4/3/2011						
		2012	4	1	3	-	25%	75%	62.5	4	-	100%	-	2	2	-	-	-	50%	50%	-	-	1	3	-	-	-	-	-	25%	75%	-	-	-	-	7/25/2011	7/25/2011	9/15/2011	9/17/2011	10/2/2011						
		2014	3	2	1	-	67%	33%	54.7	3	-	100%	-	2	-	-	-	1	100%	-	-	-	1	-	-	-	-	-	-	50%	-	-	-	-	-	10/3/2013	10/3/2013	10/4/2013	10/24/2013	10/24/2013						
		2015	2	2	-	-	100%	0%	57.0	2	-	100%	-	-	-	-	-	2					-	-	-	-	-	-								9/9/2014	9/9/2014	9/9/2014	9/18/2014	9/18/2014						

a) A-run < 78 cm FL; B-run ≥ 78 cm FL

b) Groups with < 20 individuals were excluded from genetic analysis