

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

Location	Arrays	Year	Genetic Sex		Length		LIFE-HISTORY												Total Age		GENETICS <sup>a</sup>																										
			Frequency		Percentage		Mean Length (mm)		Mean Length (mm)		Ocean (Saltwater) Age		Frequency		Percentage		Run Timing		Hardy-Weinberg Equilibrium		Genetic Diversity																										
			F	M	U	%F	%M	Mean Length (mm)	Jack Length (mm)	MJ	1	2	3	4	U	MJ	1	2	3	4	3	4	5	6	U	3	4	5	6	5th	25th	50th	75th	95th	Total Dev	Het -	Het +	H <sub>e</sub>	H <sub>d</sub>	% Poly SNPs							
Upper Salmon River	USE, USI, YFK, VC2, VCI, STL, SAWT, SAWTRP, PAHR, PAHTRP, PAHSIR, SALEFT	2012	58	20	33	5	36%	82%	75.9	76.4	-	1	48	9	-	-	2%	63%	16%	-	1	47	8	-	-	-	-	-	2%	61%	14%	-	5/15/2010	5/23/2010	6/2/2010	6/19/2010	7/8/2010	1	-	-	-	-	1	22.2%	22.3%	82.8%	
		2013	142	24	94	24	20%	80%	75.5	79.0	-	15	82	41	-	4	-	11%	59%	30%	-	15	79	38	-	-	-	4	11%	57%	28%	-	5/13/2011	6/6/2011	6/24/2011	6/30/2011	7/17/2011	4	-	-	-	-	4	22.0%	22.8%	89.4%	
		2014	140	49	89	2	36%	64%	77.6	78.0	-	3	76	53	1	7	-	2%	57%	40%	1%	3	69	52	1	7	2	-	2%	52%	39%	1%	5/18/2012	5/25/2012	6/9/2012	6/21/2012	7/10/2012	2	-	-	-	-	2	22.7%	22.8%	92.8%	
		2013	384	107	275	2	28%	72%	70.3	77.9	-	105	165	103	-	11	-	28%	44%	28%	-	102	157	95	-	-	-	11	27%	42%	25%	-	5/14/2013	5/28/2013	6/11/2013	6/25/2013	7/5/2013	6	-	-	-	-	6	22.4%	23.0%	97.2%	
		2012	131	16	271	-	38%	62%	78.4	78.4	-	53	328	33	-	20	-	13%	73%	8%	-	53	309	32	-	-	-	20	13%	75%	8%	-	5/12/2014	5/21/2014	6/9/2014	6/19/2014	7/3/2014	1	-	-	-	-	1	22.5%	22.6%	86.1%	
		2015	249	84	165	-	34%	66%	74.3	75.3	-	12	195	33	-	9	-	5%	81%	14%	-	11	183	31	-	-	-	9	5%	76%	13%	-	5/4/2015	5/14/2015	5/26/2015	6/10/2015	7/24/2015	1	-	-	-	-	1	22.5%	22.6%	92.2%	
		2010	30	11	16	3	41%	59%	76.6	77.4	-	-	1	24	5	-	-	3%	70%	17%	-	1	23	5	-	-	-	-	3%	77%	17%	-	5/15/2010	5/23/2010	6/2/2010	6/19/2010	7/12/2010	-	-	-	-	-	-	21.9%	21.7%	78.9%	
		2011	80	13	45	22	22%	78%	77.7	81.3	-	7	41	30	-	2	-	9%	53%	38%	-	7	39	29	-	-	-	2	9%	50%	37%	-	5/12/2011	6/6/2011	6/24/2011	6/29/2011	7/12/2011	2	-	-	-	-	2	21.9%	22.2%	86.1%	
		2012	58	28	27	-	45%	55%	78.5	79.7	-	1	29	24	1	3	-	-	37%	44%	2%	-	1	26	22	1	3	-	2%	47%	40%	2%	5/19/2012	5/26/2012	6/5/2012	6/17/2012	7/10/2012	1	-	-	-	-	1	22.5%	22.6%	86.1%	
		2014	69	25	44	-	36%	64%	74.2	75.7	-	5	57	6	-	1	-	7%	84%	9%	-	5	57	6	-	-	-	1	7%	84%	9%	-	5/9/2014	5/21/2014	6/5/2014	6/17/2014	6/30/2014	-	-	-	-	-	-	22.8%	22.2%	83.3%	
2015	40	11	29	-	28%	72%	74.7	75.4	-	2	30	7	-	1	-	5%	77%	16%	-	-	1	30	7	-	-	-	-	100%	100%	-	-	-	-	-	-	-	-	-	-	22.8%	22.2%	83.3%					
Sawtooth Hatchery Weir	STL, SAWT, SAWTRP	2011	44	7	36	1	16%	84%	71.9	75.5	-	6	29	7	-	2	-	14%	69%	17%	-	6	28	5	-	-	-	2	14%	67%	12%	-	5/18/2011	6/16/2011	6/28/2011	7/8/2011	7/22/2011	1	-	-	-	-	1	21.8%	22.2%	81.7%	
		2012	44	10	33	1	23%	77%	76.5	78.4	-	1	26	15	-	2	-	2%	62%	36%	-	1	24	16	-	-	-	2	2%	57%	38%	-	5/20/2012	5/25/2012	6/12/2012	6/27/2012	7/10/2012	1	-	-	-	-	1	22.7%	22.8%	85.6%	
		2013	46	31	34	1	24%	76%	67.8	77.2	-	17	19	10	-	-	-	37%	41%	22%	-	17	19	9	-	-	-	37%	41%	20%	-	5/17/2013	5/31/2013	6/11/2013	6/25/2013	7/8/2013	-	-	-	-	-	-	22.9%	22.0%	85.6%		
		2014	79	24	55	-	30%	70%	71.2	76.1	-	15	58	3	-	3	-	20%	76%	4%	-	15	55	3	-	-	-	3	20%	72%	4%	-	5/12/2014	5/21/2014	6/9/2014	6/18/2014	7/4/2014	-	-	-	-	-	-	22.6%	22.4%	82.2%	
		2015	34	8	26	-	24%	76%	70.8	72.0	-	2	29	2	-	1	-	6%	88%	6%	-	2	29	1	-	-	-	1	6%	88%	3%	-	5/5/2015	5/18/2015	5/25/2015	6/18/2015	7/24/2015	-	-	-	-	-	-	22.6%	22.4%	82.2%	
		2013	42	10	32	-	24%	76%	69.9	74.0	-	7	22	12	-	1	-	17%	54%	29%	-	6	23	11	-	-	-	1	15%	56%	27%	-	5/10/2013	5/27/2013	6/7/2013	6/19/2013	6/28/2013	-	-	-	-	-	-	22.1%	22.7%	83.9%	
		2014	23	7	16	-	30%	70%	73.9	76.1	-	2	15	6	-	-	-	9%	65%	26%	-	2	13	7	-	-	-	-	-	9%	57%	30%	-	5/7/2014	5/15/2014	5/23/2014	6/12/2014	7/4/2014	-	-	-	-	-	-	22.1%	22.7%	83.9%
		2015	9	5	4	-	56%	44%	69.1	71.9	-	-	1	7	-	-	-	11%	78%	11%	-	1	7	1	-	-	-	-	11%	78%	11%	-	4/28/2015	5/8/2015	5/14/2015	5/22/2015	6/6/2015	-	-	-	-	-	-	22.1%	22.4%	81.1%	
		2010	12	5	5	-	50%	50%	72.5	72.5	-	-	1	1	-	-	-	25%	50%	25%	-	-	1	1	-	-	-	-	-	25%	50%	25%	-	5/15/2010	5/19/2010	6/3/2010	6/19/2010	6/19/2010	-	-	-	-	-	-	22.1%	22.4%	81.1%
		2012	18	8	10	-	44%	56%	75.3	76.8	-	1	9	7	-	1	-	6%	53%	41%	-	1	9	7	-	-	-	-	1	6%	53%	41%	-	5/18/2012	5/22/2012	5/26/2012	6/3/2012	7/7/2012	-	-	-	-	-	-	21.9%	22.4%	81.1%
2013	36	19	36	-	33%	67%	76.5	78.0	-	15	10	7	-	4	-	47%	37%	22%	-	15	15	6	-	-	-	-	4	47%	19%	-	5/7/2013	5/21/2013	5/29/2013	6/27/2013	7/2/2013	-	-	-	-	-	-	21.9%	22.4%	81.1%			
2014	34	9	25	-	26%	74%	70.1	72.0	-	2	7	5	-	-	-	7%	93%	3%	-	2	25	5	-	-	-	-	5	8%	86%	-	5/12/2014	5/16/2014	5/20/2014	6/10/2014	6/25/2014	-	-	-	-	-	-	22.1%	22.7%	83.9%			
2015	9	5	4	-	56%	44%	75.7	76.3	-	-	6	2	-	-	-	75%	25%	-	-	5	2	-	-	-	-	-	1	63%	25%	-	4/28/2015	5/1/2015	5/18/2015	5/27/2015	6/12/2015	-	-	-	-	-	-	22.1%	22.7%	83.9%			
Pahsimeroi River	PAHR, PAHTRP, PAHSIR	2010	6	2	4	-	33%	67%	85.0	85.0	-	3	3	-	-	-	50%	50%	-	-	3	2	-	-	-	-	-	50%	33%	-	-	5/20/2010	5/14/2010	6/29/2010	7/3/2010	7/8/2010	-	-	-	-	-	-	22.1%	22.4%	81.1%		
		2011	4	2	2	-	50%	50%	80.3	74.5	-	1	1	-	-	-	25%	50%	25%	-	-	1	1	-	-	-	-	25%	50%	25%	-	5/15/2011	5/19/2011	6/3/2011	6/19/2011	6/19/2011	-	-	-	-	-	-	22.1%	22.4%	81.1%		
		2014	34	18	16	-	53%	47%	76.2	77.7	-	2	17	3	-	2	-	6%	84%	9%	-	2	26	3	-	-	-	2	6%	81%	9%	-	5/20/2014	6/6/2014	6/16/2014	6/18/2014	7/2/2014	-	-	-	-	-	-	23.7%	22.7%	77.2%	
		2015	24	8	16	-	33%	67%	74.8	77.6	-	3	13	5	-	3	-	14%	62%	24%	-	3	12	4	-	-	-	3	14%	57%	19%	-	5/15/2015	5/20/2015	6/4/2015	7/22/2015	8/5/2015	-	-	-	-	-	-	23.7%	22.7%	77.2%	
		2010	7	2	4	1	33%	67%	70.1	74.0	-	1	6	-	-	-	-	14%	86%	-	-	1	5	-	-	-	-	-	14%	71%	-	-	5/4/2010	5/12/2010	5/25/2010	6/19/2010	7/18/2010	-	-	-	-	-	-	22.8%	22.2%	82.8%	
		2012	11	9	2	-	82%	18%	76.6	76.6	-	6	5	-	-	-	-	55%	45%	-	-	5	4	-	-	-	-	-	-	45%	36%	-	5/18/2012	5/18/2012	5/20/2012	5/24/2012	6/2/2012	2	-	-	-	-	-	22.8%	22.2%	82.8%	
		2013	72	18	54	-	25%	75%	76.0	72.3	-	19	46	4	-	3	-	28%	67%	6%	-	19	44	4	-	-	-	3	28%	64%	6%	-	5/7/2013	5/14/2013	5/22/2013	6/6/2013	6/28/2013	2	-	-	-	-	2	22.9%	23.0%	86.7%	

