2013 OUT-MIGRATION REPORT, FAUNTLEROY CREEK

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SUMMARY

This year, 141 coho smolts survived their time in Fauntleroy Creek to reach saltwater habitat in Fauntleroy Cove. The number of release smolts recorded leaving Fauntleroy Park was lower than last year and the number recorded reaching the fish ladder was higher. This finding suggests that many smolts began their migration from mid creek, either as release fish above 45th Ave. SW or as home-hatch smolts (or a combination) below that point. A total of 1,647 fry from last fall's record 247 spawners washed prematurely into the lower trap and most were sent on their way.

Year	Monitoring Period	Live Smolts Upper	Live Smolts Lower	Smolts to Salt	Smolt Size Range	Dead Smolts Upper	Dead Smolts Lower	Live Fry Lower	Dead Fry Lower	# Eggs to Schools*	Released Fry
2013	3/15 - 5/31			141	not measured	12		1,647	100	2,800	1,987
2012	3/17 – 6/7	145	85	157	90 mm-105 mm	0	2	924	56	3,100	2,615
2011	3/25 - 5/30	147	36	36	not measured	0	0	few	0	2,900	2,027
2010	4/1 - 5/22		24	24	110 mm-140 mm		0	81	2	2,500	2,298
2009	4/1 - 5/31		18	18	97 mm-110 mm		1	1	0		1,936
2008	4/2 - 5/31		17	17	100 mm-135 mm		0	85	0		1,790
2007	4/7 - 5/19		24	24	115 mm-128 mm		0	20	0		2,276
2006	4/9 - 5/18		22	22	105 mm-155 mm		1	121	0		2,033
2005	3/16 - 5/27		10	10	100 mm-135 mm		0	34	3		1,138
2004	3/3 - 6/10		11	11	97 mm-123 mm		0	569	3		1,534
2003	4/2 - 6/16		37	37	(different method)		0	637	84		1,254

*Does not include eggs left by spawners

METHODOLOGY

The two traps are similar: a wooden box fitted with netting and anchored below a weir such that all water flows through, softly trapping everything headed downstream. One is located as the creek flows out of Fauntleroy Park (where all fry are released) and the other is just upstream of the fish ladder (about a half block before the creek empties into the cove). Early in the monitoring period, we had to reposition the upper trap because of storm damage, making it visible to visitors to Fenton Glen. After finding dead fish there suggested tampering, we taped off the area and posted a "study in progress" sign. We checked the traps daily, transported smolts from the upper trap downstream to ensure their safety (with state permission), and released all live smolts to continue their journey. We measured total body length on a sample.

OBSERVATIONS AND COMMENTS

The somewhat lower number of smolts this year when compared to last will likely turn out to be a normal fluctuation, not a loss of smolts from either trap. We know of no adverse event that would have caused it.

Even with occasional flooding of the traps, they seemed to function well and allowed us to capture a large enough number of smolt to have confidence in our final numbers.

RELATED EDUCATION

We were able to show most students coming for salmon releases one or two smolts in an aerated bucket, demonstrating growth over one year in the creek. As the smolt count increased, we emailed periodic reports to participating Salmon in the Schools teachers in a poster format for them to share with their students as they saw fit.

Attachment:
Daily record of all data

Date	Smolt					To Salt	Fry			Comment
	Upper		Lower							
			Live		Dead		Live		Dead	
	No.	Sum	No.	Sum			No.	Sum		
10-Mar		0		0		**0**		1125		
11-Mar		0		0		**0**		1160		
12-Mar		0		0		**0**		1235		
13-Mar		0		0		**0**	35	1270		
14-Mar		0		0		**0**	30	1300		
15-Mar		0		0		**0**	10	1310		
16-Mar		0		0		**0**	30	1340		
17-Mar		0		0		**0**	25	1365		
18-Mar		0		0		**0**	20	1385		
19-Mar		0		0		**0**	10	1395		
20-Mar		0		0		**0**		1395		Trap overflowed
21-Mar		0		0		**0**	1	1396		
22-Mar		0	1	1		**1**	1	1397		
23-Mar		0		1		**1**		1397		
24-Mar		0		1		**1**	4	1401		
25-Mar		0		1		**1**	6	1407		
26-Mar		0		1		**1**	10	1417		
27-Mar		0		1		**1**	6	1423		
28-Mar		0	1	2		**2**	7	1430		
29-Mar		0	1	3		**3**	12	1442		
30-Mar		0		3		**3**	9	1451		Fenton Glen trap in - started transfer
31-Mar		0	1	4		**4**	3	1454		
1-Apr	3	3	0	4		**7**	3	1457		
2-Apr	3	6	0	4		**10**	3	1460		2 got away in upper
3-Apr	1	7	3	7		**14**	6	1466		
4-Apr	0	7	8	15		**22**	6	1472		
5-Apr	8	15	1	16		**31**	6	1478		
6-Apr	2	17	0	16		**33**	2	1480		
7-Apr	0	17	0	16		**33**	0	1480		upper trap collapsed - lower overflowed
8-Apr	0	17	0	16		**33**	0	1480		
9-Apr	4	21	1	17		**38**	2	1482		
10-Apr	6	27	4	21		**48**	0	1482		
11-Apr	0	27	0	21		**48**	0	1482		
12-Apr	0	27	0	21		**48**	4	1486		
13-Apr	2	29	0	21		**50**	4	1490		
14-Apr	0	29	0	21		**50**	0	1490		
15-Apr	1	30	0	21		**51**	3	1493		
16-Apr	14	44	2	23		**67**	3	1496		
17-Apr	7	51	1	24		**75**	8	1504		
18-Apr	3	54	0	24		**78**	16	1520		

19-Apr	0	54	3	27		**81**	0	1520		
20-Apr	1	55	0	27		**82**	0	1520		
21-Apr	0	55	3	30		**85**	7	1527		
22-Apr	0	55	0	30		**85**	1	1528		
23-Apr	2	57	3	33		**90**	0	1528		
24-Apr	0	57	1	34		**91**	5	1533		
25-Apr	0	57	2	36		**93**	8	1541		
26-Apr	1	58	3	39		**97**	16	1557		
27-Apr	1	59	1	40		**99**	5	1562		
28-Apr	1	60	0	40		**100**	7	1569		
29-Apr	0	60	0	40		**100**	2	1571		
30-Apr	0	60	0	40		**100**	6	1577		
1-May	1	61	4	44		**105**	6	1583		
2-May	1	62	4	48		**110**	4	1587		
3-May	0	62	6	54		**116**	4	1591		
4-May	0	62	2	56		**118**	12	1603		
5-May	0	62	1	57		**119**	2	1605		
6-May	0	62	1	58		**120**	4	1609		
7-May	1	63	3	61		**124**	4	1613		
8-May	0	63	1	62		**125**	6	1619		
9-May	0	63	0	62		**125**	4	1623		
10-May	0	63	2	64		**127**	4	1627		
11-May	0	63	0	64		**127**	5	1632		
12-May	1	64	0	64		**128**	6	1638		5 large fry or small smolt - returned upstream
13-May	0	64	1	65		**129**	3	1641		
14-May	0	64	2	67		**131**	6	1647		
15-May	1	65	1	68		**133**	4	1651		
16-May	0	65	1	69		**134**	12	1663		
17-May	0	65	2	71		**136**	7	1670		
18-May	0	65	0	71		**136**	6	1676		
19-May	0	65	0	71		**136**	15	1691		
20-May	0	65	0	71		**136**	12	1703		
21-May	0	65	3	74	4	**139**	10	1713		Heavy rain
22-May	0	65	2	76		**141**	9	1722		
23-May	0	65	0	76		**141**	8	1730		
24-May	0	65	0	76		**141**	10	1740		
25-May	0	65	0	76		**141**	2	1742		
26-May	0	65	0	76		**141**	5	1747		
27-May	0	65	0	76		**141**	10	1757		
28-May	0	65	0	76		**141**	10	1767		
29-May	0	65	0	76		**141**	2	1769		
30-May	0	65	0	76		**141**	8	1777		
31-May	0	65	0	76		**141**	3	1178		