

# 2019 OUT-MIGRATION REPORT, FAUNTLEROY CREEK

## Volunteer monitors Dennis Hinton and Pete Draughon with Steev Ward

### SUMMARY

Monitors documented 22 coho smolts that survived their year in Fauntleroy Creek to migrate out to nearshore habitat in Fauntleroy Cove in central Puget Sound. Unlike last year when more than two-thirds came out of Fauntleroy Park, only 4 did this year, prompting concern about a possible blockage in the park. Smolt size was comparable to prior years. Monitors also found 23 live release fry in the upper trap and 5 fry in the lower.

Year	Monitoring Period	Live Smolts Upper	Live Smolts Lower	Dead Smolts	Smolts to Salt	Smolt Size (mm)	Live Fry Upper	Live Fry Lower	Dead Fry	Eggs to Schools*	Released Fry
2019	3/15 - 5/26	4	18	0	22		23	5	0	2,400	1,900
2018	3/10 - 5/31	26	19	0	45		98	4	0	2,400	1,955
2017	3/15 - 5/28	18	14	1	32		237		0	2,400	1,806
2016	3/10 - 5/27	14	5	1	19		60	0	20	2,900	1,795
2015	3/27 - 5/31	2	33	0	35		100		20	2,700	1,700
2014	3/15 - 5/31	8	11	0	19		84	0	1	3,450	2,409
2013	3/15 - 5/31	65	76	12	141			534	0	2,800	1,987
2012	3/17 - 6/7	145	85	2	230**	90 -105		924	56	3,100	2,615
2011	3/25 - 5/30	147	36	0	183**	---		a few	0	2,900	2,027
2010	4/1 - 5/22		24	0	24	110 - 140		81	2	2,500	2,298
2009	4/1 - 5/31		18	1	18	97 -110		1	0		1,936
2008	4/2 - 5/31		17	0	17	100 -135		85	0		1,790
2007	4/7 - 5/19		24	0	24	115 -128		20	0		2,276
2006	4/9 - 5/18		22	1	22	105 -155		121	0		2,033
2005	3/16 - 5/27		10	0	10	100 -135		34	3		1,138
2004	3/3 - 6/10		11	0	11	97 -123		569	3		1,534
2003	4/2 - 6/16		37	0	37			637	84		1,254

\*Does not include eggs left by spawners

\*\*Corrected 2018

### METHODOLOGY

The two traps are similar: a wooden frame fitted with netting and anchored below a weir so all water flowed through, softly trapping everything headed downstream. Netting over each trap protected fish from birds and raccoons. One trap was positioned as the creek flows out of Fauntleroy Park and the other was positioned due upstream of the fish ladder, about a half block before the creek empties into the cove. All smolts were likely from Salmon in the Schools releases in the park as we had no evidence of natural spawning by the four spawners documented in fall 2017. We did observe home hatch from the 18 spawners documented in fall 2018 - fry that could leave as smolts next spring.

Monitors checked each trap daily, sometimes twice. As in past years, we had state permission to transport smolts from the upper trap to below the trap in the lower creek to ensure their safety. We released all smolts to continue their out migration and released fry downstream of where they were trapped. To avoid trauma, we did not handle the smolts to get exact measurements.

### COMMENTS

The first entrapment was March 20, validating installing the traps when we did. The last was April 28, nearly a month earlier than last year (May 23). Many fewer fry washed into the upper trap compared with last year; as they were last year, major spring rains were scant, possibly zeroing out precipitation difference as a cause. With relatively mild rains, clogging of traps by debris was a minor occurrence. The trapping of a 1 1/2" crawfish with eggs attached was unusual but they have been known to live in the upper creek, in water quality that is good to fair.

**Attachments:** Daily data

## 2019 SMOLT AND FRY COUNTS

Date	Smolt						To Salt	Fry		Comment
	Upper		Lower		Dead			Upper	Lower	
			Live		Upper	Lower				
	No.	Sum	No.	Sum	0	0				
15-Mar	0	0	0	0	0	0	0	0	Traps installed	
16-Mar	0	0	0	0	0	0	0	0		
17-Mar	0	0	0	0	0	0	0	0		
18-Mar	0	0	0	0	0	0	0	0		
19-Mar	0	0	0	0	0	0	0	0		
20-Mar	1	1	1	1	0	0	2	0	0	
21-Mar	0	1	0	1	0	0	2	0	0	
22-Mar	0	1	0	1	0	0	2	0	0	
23-Mar	0	1	0	1	0	0	2	0	0	0
24-Mar	0	1	0	1	0	0	2	0	0	
25-Mar	0	1	0	1	0	0	2	0	0	
26-Mar	0	1	0	1	0	0	2	0	0	
27-Mar	0	1	0	1	0	0	2	0	0	
28-Mar	0	1	0	1	0	0	2	0	0	
29-Mar	0	1	0	1	0	0	2	0	0	
30-Mar	0	1	1	2	0	0	3	0	0	
31-Mar	0	1	0	2	0	0	3	0	0	
1-Apr	0	1	0	2	0	0	3	0	0	
2-Apr	0	1	0	2	0	0	3	0	0	
3-Apr	0	1	0	2	0	0	3	0	0	
4-Apr	0	1	0	2	0	0	3	0	0	
5-Apr	0	1	0	2	0	0	3	0	0	Both traps overflowed during night rain
6-Apr	0	1	1	3	0	0	4	0	0	
7-Apr	0	1	4	7	0	0	8	0	0	
8-Apr	0	1	1	8	0	0	9	0	0	
9-Apr	0	1	0	8	0	0	9	0	0	
10-Apr	0	1	0	8	0	0	9	0	0	
11-Apr	0	1	1	9	0	0	10	0	0	Repaired holes in lower trap
12-Apr	0	1	1	10	0	0	11	0	0	
13-Apr	0	1	0	10	0	0	11	0	0	
14-Apr	0	1	1	11	0	0	12	0	0	Cleared flow @ fallen tree above upper trap
15-Apr	0	1	1	12	0	0	13	0	0	
16-Apr	1	2	0	12	0	0	14	0	0	
17-Apr	1	3	1	13	0	0	16	0	0	

18-Apr	0	3	1	14	0	0	17	0	0	
19-Apr	0	3	0	14	0	0	17	0	0	
20-Apr	0	3	1	15	0	0	18	0	0	
21-Apr	0	3	1	16	0	0	19	0	0	
22-Apr	0	3	0	16	0	0	19	0	0	
23-Apr	0	3	1	17	0	0	20	0	0	
24-Apr	0	3	0	17	0	0	20	0	0	
25-Apr	0	3	0	17	0	0	20	0	0	
26-Apr	1	4	0	17	0	0	21	0	0	1 crayfish with eggs in upper trap
27-Apr	0	4	0	17	0	0	21	0	0	
28-Apr	0	4	1	18	0	0	22	0	0	
29-Apr	0	4	0	18	0	0	22	0	0	
30-Apr	0	4	0	18	0	0	22	0	0	
1-May	0	4	0	18	0	0	22	0	0	
2-May	0	4	0	18	0	0	22	0	0	
3-May	0	4	0	18	0	0	22	0	0	
4-May	0	4	0	18	0	0	22	0	0	
5-May	0	4	0	18	0	0	22	0	0	
6-May	0	4	0	18	0	0	22	0	0	
7-May	0	4	0	18	0	0	22	0	0	
8-May	0	4	0	18	0	0	22	0	0	
9-May	0	4	0	18	0	0	22	0	0	
10-May	0	4	0	18	0	0	22	0	0	
11-May	0	4	0	18	0	0	22	0	0	
12-May	0	4	0	18	0	0	22	0	0	
13-May	0	4	0	18	0	0	22	0	0	
14-May	0	4	0	18	0	0	22	0	0	
15-May	0	4	0	18	0	0	22	2	0	Overflow of upper trap
16-May	0	4	0	18	0	0	22	0	0	
17-May	0	4	0	18	0	0	22	0	0	
18-May	0	4	0	18	0	0	22	0	0	
19-May	0	4	0	18	0	0	22	1	4	
20-May	0	4	0	18	0	0	22	2	1	
21-May	0	4	0	18	0	0	22	0	0	
22-May	0	4	0	18	0	0	22	0	0	
23-May	0	4	0	18	0	0	22	0	0	
24-May	0	4	0	18	0	0	22	0	0	
25-May	0	4	0	18	0	0	22	18	0	
26-May	0	4	0	18	0	0	22	0	0	Traps removed

## SMOLTS TO SALTWATER BY DATE

15-Mar	0		
16-Mar	0		
17-Mar	0		
18-Mar	0		
19-Mar	0		
20-Mar	2		
21-Mar	0		
22-Mar	0		
23-Mar	0		
24-Mar	0		
25-Mar	0		
26-Mar	0		
27-Mar	0		
28-Mar	0		
29-Mar	0		
30-Mar	1		
31-Mar	0		
1-Apr	0		
2-Apr	0		
3-Apr	0		
4-Apr	0		
5-Apr	0		
6-Apr	1		
7-Apr	4		
8-Apr	1		
9-Apr	0		
10-Apr	0		
11-Apr	1		
12-Apr	1		
13-Apr	0		
14-Apr	1		
15-Apr	1		
16-Apr	1		
17-Apr	2		
18-Apr	1		
19-Apr	0		
20-Apr	1		
21-Apr	1		
22-Apr	0		
23-Apr	1		
24-Apr	0		
25-Apr	0		
26-Apr	1		
27-Apr	0		
28-Apr	1		
29-Apr	0		
30-Apr	0		

**Last smolt counted on April 28; none in May.**