

2011 FRASER RIVER SOCKEYE ESCAPEMENT **Inseason Update**

This document provides inseason updates from operational Sockeye salmon escapement estimation field studies in the Fraser River, including fence counts, mark-recapture studies, DIDSON projects, visual surveys, and physical (water temperature, level) and fish condition sampling. These updates are intended to provide general information regarding project activities, run timing and relative abundance, and should not be interpreted as escapement estimates. The background information on the website provides the escapement estimation plan and the anticipated release schedule for escapement estimates.

LATE RUN

Cultus Lake

The counting fence at Sweltzer Creek was fish-tight and operational as of July 21st. Counting operations at the fence ended on November 13th; a total of 7,183 Sockeye passed through the fence and 253 Sockeye have been retained for broodstock (Table 1). Carcass recovery surveys are ongoing to determine sex ratio and success of spawn; a total of 463 carcasses have been recovered to date. This is the final update for this project.

Lower Fraser Roving

Cyclic visual surveys began on August 15th. Ground surveys conducted during the current reporting period include Cultus Lake (see above) and Widgeon Slough.

The fourth survey of Widgeon Slough was conducted on November 16th; the final survey will be conducted this week. Sockeye are reported to be past peak of spawn. The water temperature during the current reporting period at Widgeon Slough is 7.5°C. This is the final update for this project.

Harrison River

Tagging on the Harrison River ended on November 19th; a total of 21,608 tags were applied. Carcass recovery is ongoing to determine sex ratio and success of spawn; a total 19,284 carcasses have been recovered to date. Crew reports Sockeye are nearing the end of peak of spawn. The water temperature during the current reporting period at the Harrison River is 8.5°C. This is the final update from this project.

This is the final update for the 2011 season.

Table 1. Daily fence counts of sockeye salmon through Sweltzer Creek, 1999-2011.

Date	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	
													Lake	Brood
21-Jul	-	-	-	-	0	-	-	-	-	-	0	-	0	0
22-Jul	-	-	-	-	0	-	-	-	-	-	0	-	0	0
23-Jul	-	-	-	-	0	-	-	-	-	-	0	-	0	0
24-Jul	-	-	-	-	0	-	-	-	-	-	0	-	0	0
25-Jul	-	-	-	-	0	-	-	-	-	-	0	-	0	0
26-Jul	-	-	-	-	0	-	-	-	-	-	0	-	0	0
27-Jul	-	-	-	-	0	-	-	-	0	-	0	-	0	0
28-Jul	-	-	-	-	0	-	0	-	0	0	0	1	0	0
29-Jul	-	-	-	-	0	-	0	-	0	2	0	0	0	0
30-Jul	-	-	-	-	0	-	0	-	0	1	0	2	0	0
31-Jul	-	-	-	-	0	-	0	1	0	0	0	4	0	0
01-Aug	-	-	-	0	0	-	0	1	0	0	0	1	0	0
02-Aug	-	-	-	0	0	-	0	0	0	0	0	4	0	0
03-Aug	-	-	-	2	0	0	0	3	0	0	0	5	0	0
04-Aug	-	-	-	8	0	0	0	9	0	0	0	0	0	0
05-Aug	-	-	-	23	1	0	0	8	0	2	0	21	1	0
06-Aug	-	-	-	17	2	0	0	14	0	7	0	18	1	0
07-Aug	-	-	-	9	0	0	0	5	0	2	0	9	2	0
08-Aug	-	-	-	10	0	0	0	5	0	1	0	18	7	0
09-Aug	-	-	-	71	0	0	0	13	0	2	0	11	3	0
10-Aug	-	-	-	19	0	0	0	10	2	2	0	15	5	0
11-Aug	-	-	-	55	3	0	0	15	0	6	0	5	2	0
12-Aug	-	-	-	24	1	0	0	1	2	1	1	34	0	0
13-Aug	-	-	-	22	2	0	0	10	4	6	2	51	3	0
14-Aug	-	-	-	27	4	0	0	15	2	1	0	30	5	0
15-Aug	-	-	-	40	4	0	0	28	3	6	0	8	5	0
16-Aug	-	-	5	30	7	0	0	22	0	7	1	7	1	0
17-Aug	-	-	4	16	7	0	0	31	1	2	1	25	5	0
18-Aug	-	-	3	20	0	0	1	86	1	7	0	7	3	4
19-Aug	-	28	20	29	4	0	3	70	1	6	0	35	2	0
20-Aug	-	32	17	32	5	0	0	48	4	0	0	33	2	0
21-Aug	-	6	23	46	7	0	1	42	4	28	0	47	1	0
22-Aug	-	18	12	23	10	0	1	41	2	15	2	52	1	3
23-Aug	-	10	14	19	2	1	1	46	4	12	0	54	0	11
24-Aug	-	4	9	30	10	0	2	27	15	18	1	63	1	6
25-Aug	-	77	33	11	13	1	1	100	8	5	3	33	1	2
26-Aug	-	14	12	12	9	0	4	97	1	1	0	35	9	0
27-Aug	1	3	16	25	15	4	2	59	7	1	3	27	6	0
28-Aug	5	28	15	5	13	5	2	34	4	8	1	41	4	1
29-Aug	128	23	34	1	2	4	1	28	0	16	3	30	0	8
30-Aug	115	13	21	6	10	3	3	32	3	48	14	17	0	4
31-Aug	96	14	19	8	9	3	3	28	13	14	0	20	0	2
01-Sep	114	30	13	9	6	1	3	54	3	17	5	29	4	0
02-Sep	46	18	26	10	10	4	8	107	4	20	8	16	2	0
03-Sep	63	14	14	16	6	1	8	111	7	1	6	54	9	0
04-Sep	167	38	9	9	6	1	5	72	3	2	15	72	2	0
05-Sep	135	24	1	7	5	2	0	64	5	25	22	33	8	0
06-Sep	142	16	26	22	4	2	5	58	2	5	0	39	1	4
07-Sep	175	20	8	35	2	2	6	74	0	13	8	31	10	0
08-Sep	152	12	1	28	22	2	14	30	10	8	7	41	0	10
09-Sep	220	65	11	19	7	1	0	53	12	0	0	45	0	16
10-Sep	53	38	22	43	5	0	8	70	17	0	6	61	25	0
11-Sep	28	48	41	67	7	2	1	53	7	1	46	53	24	0
12-Sep	151	25	12	21	1	1	12	48	5	6	100	34	53	2
13-Sep	229	43	15	6	1	0	0	58	25	4	126	28	81	33
14-Sep	151	23	22	16	14	0	0	33	19	3	151	78	185	21
15-Sep	140	149	8	3	23	0	0	21	27	7	31	94	183	20
16-Sep	79	47	11	10	0	0	0	41	63	0	74	92	236	0
17-Sep	89	17	7	34	10	0	0	28	55	0	26	69	142	0
18-Sep	46	28	4	62	6	0	0	65	21	0	33	113	221	0
19-Sep	55	32	2	13	69	2	1	11	15	0	32	34	151	2

Continued

Table 1. Daily fence counts of sockeye salmon through Sweltzer Creek, 1999-2011 continued.

Date	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	
													Lake	Brood
20-Sep	172	20	1	70	83	0	0	45	19	0	29	546	57	2
21-Sep	226	2	4	48	56	2	0	103	27	2	27	190	64	25
22-Sep	210	3	7	43	107	0	0	5	25	0	17	134	184	0
23-Sep	163	0	11	118	35	0	3	203	17	0	5	103	451	0
24-Sep	204	0	12	177	4	0	2	350	30	1	20	154	272	0
25-Sep	446	19	6	482	3	0	4	257	1	0	15	226	318	0
26-Sep	302	5	2	378	6	0	8	102	0	2	12	430	271	5
27-Sep	225	3	1	137	14	1	0	76	2	2	2	939	1,144	38
28-Sep	122	18	0	117	6	0	0	55	10	1	9	719	724	6
29-Sep	42	5	1	113	20	0	16	36	14	1	13	1347	548	0
30-Sep	218	20	1	109	2	0	31	31	6	0	5	653	262	0
01-Oct	84	1	0	53	1	0	23	19	32	0	1	423	200	0
02-Oct	30	13	1	37	10	1	27	14	19	0	2	523	57	0
03-Oct	42	20	4	37	8	0	0	6	11	4	2	328	128	0
04-Oct	78	13	1	93	5	0	0	0	12	1	3	216	124	4
05-Oct	77	1	0	58	9	0	0	2	2	1	2	102	131	10
06-Oct	248	2	0	22	5	1	2	1	4	0	1	78	47	0
07-Oct	171	7	0	22	11	0	1	0	6	0	1	39	25	0
08-Oct	2,681	9	1	18	89	0	1	4	12	0	1	36	22	0
09-Oct	1,015	8	0	12	158	1	0	1	2	2	5	22	6	0
10-Oct	164	1	0	7	8	0	0	5	2	1	4	56	79	0
11-Oct	100	0	1	17	6	1	2	0	0	0	0	254	42	13
12-Oct	336	4	6	1	6	0	0	0	1	0	1	206	210	1
13-Oct	593	0	9	6	47	0	0	3	0	0	0	154	69	0
14-Oct	26	0	14	9	48	0	0	4	1	0	5	76	52	0
15-Oct	43	2	5	2	13	0	0	10	1	0	0	50	23	0
16-Oct	40	1	0	0	4	0	0	2	1	0	14	76	20	0
17-Oct	125	0	3	8	93	0	0	7	1	1	14	35	21	0
18-Oct	73	5	3	6	36	1	5	8	1	0	78	18	10	0
19-Oct	70	15	2	6	112	0	2	2	0	1	36	29	16	0
20-Oct	16	14	1	4	128	0	0	2	1	0	28	22	21	0
21-Oct	21	16	5	7	62	1	1	5	1	0	1	15	20	0
22-Oct	11	1	2	12	13	0	0	0	2	0	47	20	15	0
23-Oct	19	2	1	4	11	0	0	4	0	0	40	13	21	0
24-Oct	27	2	9	2	25	0	0	1	2	0	48	15	22	0
25-Oct	7	3	1	6	11	0	0	2	0	0	7	18	21	0
26-Oct	24	0	5	1	24	0	0	1	1	0	22	41	12	0
27-Oct	19	0	1	1	38	0	0	6	1	0	21	66	4	0
28-Oct	32	0	3	6	21	0	0	10	0	0	18	25	8	0
29-Oct	194	0	3	23	11	0	1	9	0	0	16	6	11	0
30-Oct	447	0	4	15	4	0	0	10	0	0	9	13	11	0
31-Oct	374	0	4	3	10	0	0	6	0	0	10	15	10	0
01-Nov	56	2	2	3	9	0	0	7	0	0	2	53	2	0
02-Nov	24	0	2	7	6	1	0	8	0	1	9	43	2	0
03-Nov	17	0	2	0	15	0	0	24	1	0	8	44	4	0
04-Nov	74	14	3	16	7	0	0	42	0	0	6	14	3	0
05-Nov	24	1	1	15	7	0	0	17	0	0	5	52	1	0
06-Nov	14	1	3	132	6	0	0	11	0	0	0	27	1	0
07-Nov	18	4	0	314	2	0	0	7	0	0	4	71	3	0
08-Nov	7	7	1	130	2	0	1	5	0	0	1	29	0	0
09-Nov	8	1	1	75	8	0	0	2	0	0	3	14	2	0
10-Nov	0	0	1	39	13	0	1	1	0	0	3	9	1	0
11-Nov	16	0	1	31	12	0	0	3	0	0	9	12	0	0
12-Nov	40	0	1	78	15	0	0	1	0	0	2	2	4	0
13-Nov	0	0	1	276	22	0	0	2	0	0	3	27	0	0
14-Nov	0	0	1	116	2	0	0	2	0	0	2	7		
15-Nov	0	0	1	44	3	0	0	0	0	0	2	12		
16-Nov	3	0	2	50	11	0	0	0	0	0	1	4		
17-Nov	-	1	2	18	11	0	0	2	0	0	0	0		
18-Nov	-	0	2	9	15	0	0	0	0	0	0	1		
19-Nov	-	0	0	72	7	0	0	0	0	0	0	1		

continued

Table 1. Daily fence counts of sockeye salmon through Sweltzer Creek, 1999-2011 continued.

Date	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	
													Lake	Brood
20-Nov	-	0	1	15	11	0	0	0	0	0	2	0		
21-Nov	-	0	0	42	9	0	0	0	0	0	2	0		
22-Nov	-	0	1	18	2	0	0	0	0	0	2	0		
23-Nov	-	1	1	5	2	0	0	0	0	0	1	0		
24-Nov	-	2	0	7	7	0	0	0	0	-	0	0		
25-Nov	-	0	0	2	3	0	0	0	0	-	1	0		
26-Nov	-	0	0	1	2	0	0	0	0	-	2	0		
27-Nov	-	0	0	3	10	0	0	0	0	-	0	0		
28-Nov	-	0	0	0	1	0	0	0	0	-	0	0		
29-Nov	-	0	0	2	1	0	0	0	-	-	0	-		
30-Nov	-	1	0	0	3	0	0	0	-	-	0	-		
01-Dec	-	0	0	0	3	0	0	0	-	-	2	-		
02-Dec	-	0	0	1	1	0	0	0	-	-	1	-		
03-Dec	-	0	0	0	2	0	-	0	-	-	0	-		
04-Dec	-	-	0	0	0	0	-	0	-	-	0	-		
05-Dec	-	-	0	0	0	0	-	0	-	-	-	-		
06-Dec	-	-	0	0	1	-	-	0	-	-	-	-		
07-Dec	-	-	0	0	0	-	-	0	-	-	-	-		
08-Dec	-	-	0	0	0	-	-	0	-	-	-	-		
09-Dec	-	-	0	0	1	-	-	0	-	-	-	-		
10-Dec	-	-	0	0	0	-	-	0	-	-	-	-		
11-Dec	-	-	-	0	0	-	-	0	-	-	-	-		
12-Dec	-	-	-	0	0	-	-	0	-	-	-	-		
13-Dec	-	-	-	1	0	-	-	0	-	-	-	-		
14-Dec	-	-	-	0	0	-	-	-	-	-	-	-		
15-Dec	-	-	-	0	0	-	-	-	-	-	-	-		
16-Dec	-	-	-	-	-	-	-	-	-	-	-	-		
Total	12,398	1,227	675	4,882	1,939	52	227	3,521	649	360	1,392	10,632	7,183	253