

## Information on the 2009 Fraser River Recreational Fishery

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### Background

Discussion about the 2009 Fraser River mainstem Creel Survey took place at a meeting in Richmond on Sept. 21<sup>st</sup> 2009 between DFO (D. Sneddon, D. Adams and J. Tadey) and recreational community representatives (T. Bird, H. Kingwell, B. Otway & F. Kwak). The Creel Survey study design was discussed and questions about the 2009 data/analysis were asked. Some of these questions could not be answered at the time of the meeting. Bill Otway was asked to provide written questions and he did shortly thereafter in 2 emails dated Sept. 24<sup>th</sup> and Oct. 09<sup>th</sup>; this is my attempt to address the questions raised.

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Question 1: Can DFO provide the angler count broken down as follows – Hope to the Agazzis/Rosedale Bridge, A/R Bridge to Mission and Mission to Alex Fraser Bridge for the overflight that occurred on the Labour Day long weekend?

Question 2: Can DFO provide the angler count breakdown in the three weeks leading up to the fishing closure above the A/R Bridge, in the area from Hope to the A/R Bridge and from the A/R Bridge to Mission by flight?

Additional clarification was provided in the subsequent emails:

- The upstream boundary used in the Creel Survey study design is the confluence of the Coquihalla River with the Fraser River;
- Angler count breakdown would be provided by angler fishing method as well (e.g. bar or bottom bouncing techniques); and
- Angler counts would also be stratified by day-type (i.e. weekday or weekend/holiday).

Answer: Table 1a shows all the instantaneous rod counts (e.g. overflights) conducted on the Fraser River mainstem during the conduct of the Fraser River Mainstem Recreational Fishery Assessment (i.e. May 01<sup>st</sup> to Oct. 15<sup>th</sup>, 2009). The counts are stratified by date, day-type, river section, and fishing method. Additionally, Tables 1b and 1c are provided that show only the weekday and weekend IRC's, respectively.

**Table 1a.** Instantaneous rod counts by date, day-type, river section and fishing method in the 2009 Fraser River mainstem recreational fishery.

Date	Day Type	Section 2: Mouth of Coquihalla to Agassiz-Rosdale Bridge			Section 1: Agassiz-Rosdale Bridge to Mission Bridge			Section 1A: Mission Bridge to Port Mann Bridge			Section 1B: Port Mann Bridge to Alex Fraser Bridge			All Sections: Mouth of Coquihalla to Alex Fraser Bridge		
		Method		Total	Method		Total	Method		Total	Method		Total	Method		Total
		Bar	Bottom Bounce		Bar	Bottom Bounce		Bar	Bottom Bounce		Bar	Bottom Bounce		Bar	Bottom Bounce	
8-May-09	Weekday	0	0	0	0	0	0	-	-	-	-	-	-	0	0	0
10-May-09	Weekend	1	0	1	9	1	10	-	-	-	-	-	-	10	1	11
14-May-09	Weekday	0	0	0	0	0	0	-	-	-	-	-	-	0	0	0
16-May-09	Weekend	0	1	1	2	1	3	-	-	-	-	-	-	2	2	4
22-May-09	Weekday	0	0	0	1	0	1	-	-	-	-	-	-	1	0	1
24-May-09	Weekend	6	0	6	12	4	16	-	-	-	-	-	-	18	4	22
27-May-09	Weekday	0	0	0	0	0	0	-	-	-	-	-	-	0	0	0
30-May-09	Weekend	0	0	0	1	2	3	-	-	-	-	-	-	1	2	3
1-Jun-09	Weekday	0	0	0	0	0	0	-	-	-	-	-	-	0	0	0
6-Jun-09	Weekend	0	1	1	1	4	5	-	-	-	-	-	-	1	5	6
13-Jun-09	Weekend	3	0	3	4	0	4	-	-	-	-	-	-	7	0	7
19-Jun-09	Weekday	6	12	18	0	0	0	-	-	-	-	-	-	6	12	18
20-Jun-09	Weekend	4	56	60	10	41	51	-	-	-	-	-	-	14	97	111
25-Jun-09	Weekday	3	21	24	0	9	9	-	-	-	-	-	-	3	30	33
28-Jun-09	Weekend	8	105	113	54	74	128	-	-	-	-	-	-	62	179	241
29-Jun-09	Weekday	6	37	43	33	23	56	-	-	-	-	-	-	39	60	99
4-Jul-09	Weekend	17	143	160	120	158	278	-	-	-	-	-	-	137	301	438
9-Jul-09	Weekday	7	72	79	55	50	105	-	-	-	-	-	-	62	122	184
12-Jul-09	Weekend	16	147	163	98	111	209	-	-	-	-	-	-	114	258	372
16-Jul-09	Weekday	5	53	58	36	42	78	-	-	-	-	-	-	41	95	136
18-Jul-09	Weekend	0	155	155	105	179	284	-	-	-	-	-	-	105	334	439
20-Jul-09	Weekday	1	47	48	44	49	94	-	-	-	-	-	-	45	96	142
26-Jul-09	Weekend	10	194	204	113	129	242	-	-	-	-	-	-	123	323	446
31-Jul-09	Weekday	8	60	68	71	70	141	-	-	-	-	-	-	79	130	209
3-Aug-09	Weekend	6	164	170	102	141	243	-	-	-	-	-	-	108	305	413
6-Aug-09	Weekday	1	102	103	35	153	188	-	-	-	-	-	-	36	255	291
9-Aug-09	Weekend	1	199	200	56	199	255	-	-	-	-	-	-	57	398	455
11-Aug-09	Weekday	0	140	140	18	102	120	-	-	-	-	-	-	18	242	260
12-Aug-09	Weekday	19	108	127	98	76	174	-	-	-	-	-	-	117	184	301
13-Aug-09	Weekday	14	73	87	46	53	99	-	-	-	-	-	-	60	126	186
15-Aug-09	Weekend	9	137	146	166	75	241	-	-	-	-	-	-	175	212	387
17-Aug-09	Weekday	0	1	1	110	79	189	-	-	-	-	-	-	110	80	190
21-Aug-09	Weekday	-	-	-	68	126	194	-	-	-	-	-	-	68	126	194
23-Aug-09	Weekend	6 *	6 *	12 *	145	139	284	15	8	23	-	-	-	166	153	319
27-Aug-09	Weekday	-	-	-	101	179	280	-	-	-	-	-	-	101	179	280
29-Aug-09	Weekend	-	-	-	109	213	322	-	-	-	-	-	-	109	213	322
3-Sep-09	Weekday	-	-	-	65	151	216	-	-	-	-	-	-	65	151	216
7-Sep-09	Weekend	0	80	80	74	529	603	0	210	210	0	82	82	74	901	975
11-Sep-09	Weekday	1	38	39	36	255	301	5	38	50	0	15	15	42	346	405
13-Sep-09	Weekend	4	54	72	50	428	515	0	154	161	0	18	18	54	654	766
17-Sep-09	Weekday	0	20	20	15	229	254	1	46	48	0	47	47	16	342	369
19-Sep-09	Weekend	0	38	38	17	435	473	2	107	111	0	51	51	19	631	673
23-Sep-09	Weekday	2	6	13	41	125	227	4	24	32	0	8	10	47	163	282
27-Sep-09	Weekend	0	26	30	20	195	291	15	40	110	0	10	13	35	271	444
2-Oct-09	Weekday	0	3	4	8	64	87	2	2	8	1	3	4	11	72	103
3-Oct-09	Weekend	4	6	10	19	64	146	3	19	51	0	0	2	26	89	209
11-Oct-09	Weekend	2	2	4	20	40	91	16	14	54	10	8	24	48	64	173

"-" = not surveyed



salmon fishing regulation change



statutory holiday

\* Coquihalla mouth upstream of Fraser-Hope Hwy1 Bridge

**Table 1b.** Instantaneous rod counts by date, river section and fishing method in the 2009 Fraser River mainstem recreational fishery for **weekdays** only.

Date	Day Type	Section 2: Mouth of Coquihalla to Agassiz-Rosdale Bridge			Section 1: Agassiz-Rosdale Bridge to Mission Bridge			Section 1A: Mission Bridge to Port Mann Bridge			Section 1B: Port Mann Bridge to Alex Fraser Bridge			All Sections: Mouth of Coquihalla to Alex Fraser Bridge		
		Method		Total	Method		Total	Method		Total	Method		Total	Method		Total
		Bar	Bottom Bounce		Bar	Bottom Bounce		Bar	Bottom Bounce		Bar	Bottom Bounce		Bar	Bottom Bounce	
8-May-09	Weekday	0	0	0	0	0	0	-	-	-	-	-	-	0	0	0
14-May-09	Weekday	0	0	0	0	0	0	-	-	-	-	-	-	0	0	0
22-May-09	Weekday	0	0	0	1	0	1	-	-	-	-	-	-	1	0	1
27-May-09	Weekday	0	0	0	0	0	0	-	-	-	-	-	-	0	0	0
1-Jun-09	Weekday	0	0	0	0	0	0	-	-	-	-	-	-	0	0	0
19-Jun-09	Weekday	6	12	18	0	0	0	-	-	-	-	-	-	6	12	18
25-Jun-09	Weekday	3	21	24	0	9	9	-	-	-	-	-	-	3	30	33
29-Jun-09	Weekday	6	37	43	33	23	56	-	-	-	-	-	-	39	60	99
9-Jul-09	Weekday	7	72	79	55	50	105	-	-	-	-	-	-	62	122	184
16-Jul-09	Weekday	5	53	58	36	42	78	-	-	-	-	-	-	41	95	136
20-Jul-09	Weekday	1	47	48	44	49	94	-	-	-	-	-	-	45	96	142
31-Jul-09	Weekday	8	60	68	71	70	141	-	-	-	-	-	-	79	130	209
6-Aug-09	Weekday	1	102	103	35	153	188	-	-	-	-	-	-	36	255	291
11-Aug-09	Weekday	0	140	140	18	102	120	-	-	-	-	-	-	18	242	260
12-Aug-09	Weekday	19	108	127	98	76	174	-	-	-	-	-	-	117	184	301
13-Aug-09	Weekday	14	73	87	46	53	99	-	-	-	-	-	-	60	126	186
17-Aug-09	Weekday	0	1	1	110	79	189	-	-	-	-	-	-	110	80	190
21-Aug-09	Weekday	-	-	-	68	126	194	-	-	-	-	-	-	68	126	194
27-Aug-09	Weekday	-	-	-	101	179	280	-	-	-	-	-	-	101	179	280
3-Sep-09	Weekday	-	-	-	65	151	216	-	-	-	-	-	-	65	151	216
11-Sep-09	Weekday	1	38	39	36	255	301	5	38	50	0	15	15	42	346	405
17-Sep-09	Weekday	0	20	20	15	229	254	1	46	48	0	47	47	16	342	369
23-Sep-09	Weekday	2	6	13	41	125	227	4	24	32	0	8	10	47	163	282
2-Oct-09	Weekday	0	3	4	8	64	87	2	2	8	1	3	4	11	72	103

"-" = not surveyed



salmon fishing regulation change



statutory holiday

**Table 1c.** Instantaneous rod counts by date, river section and fishing method in the 2009 Fraser River mainstem recreational fishery for **weekend** days only.

Date	Day Type	Section 2: Mouth of Coquihalla to Agassiz-Rosdale Bridge			Section 1: Agassiz-Rosdale Bridge to Mission Bridge			Section 1A: Mission Bridge to Port Mann Bridge			Section 1B: Port Mann Bridge to Alex Fraser Bridge			All Sections: Mouth of Coquihalla to Alex Fraser Bridge		
		Method		Total	Method		Total	Method		Total	Method		Total	Method		Total
		Bar	Bottom Bounce		Bar	Bottom Bounce		Bar	Bottom Bounce		Bar	Bottom Bounce		Bar	Bottom Bounce	
10-May-09	Weekend	1	0	1	9	1	10	-	-	-	-	-	-	10	1	11
16-May-09	Weekend	0	1	1	2	1	3	-	-	-	-	-	-	2	2	4
24-May-09	Weekend	6	0	6	12	4	16	-	-	-	-	-	-	18	4	22
30-May-09	Weekend	0	0	0	1	2	3	-	-	-	-	-	-	1	2	3
6-Jun-09	Weekend	0	1	1	1	4	5	-	-	-	-	-	-	1	5	6
13-Jun-09	Weekend	3	0	3	4	0	4	-	-	-	-	-	-	7	0	7
20-Jun-09	Weekend	4	56	60	10	41	51	-	-	-	-	-	-	14	97	111
28-Jun-09	Weekend	8	105	113	54	74	128	-	-	-	-	-	-	62	179	241
4-Jul-09	Weekend	17	143	160	120	158	278	-	-	-	-	-	-	137	301	438
12-Jul-09	Weekend	16	147	163	98	111	209	-	-	-	-	-	-	114	258	372
18-Jul-09	Weekend	0	155	155	105	179	284	-	-	-	-	-	-	105	334	439
26-Jul-09	Weekend	10	194	204	113	129	242	-	-	-	-	-	-	123	323	446
3-Aug-09	Weekend	6	164	170	102	141	243	-	-	-	-	-	-	108	305	413
9-Aug-09	Weekend	1	199	200	56	199	255	-	-	-	-	-	-	57	398	455
15-Aug-09	Weekend	9	137	146	166	75	241	-	-	-	-	-	-	175	212	387
23-Aug-09	Weekend	6 *	6 *	12 *	145	139	284	15	8	23	0	0	0	166	153	319
29-Aug-09	Weekend	-	-	-	109	213	322	-	-	-	-	-	-	109	213	322
7-Sep-09	Weekend	0	80	80	74	529	603	0	210	210	0	82	82	74	901	975
13-Sep-09	Weekend	4	54	72	50	428	515	0	154	161	0	18	18	54	654	766
19-Sep-09	Weekend	0	38	38	17	435	473	2	107	111	0	51	51	19	631	673
27-Sep-09	Weekend	0	26	30	20	195	291	15	40	110	0	10	13	35	271	444
3-Oct-09	Weekend	4	6	10	19	64	146	3	19	51	0	0	2	26	89	209
11-Oct-09	Weekend	2	2	4	20	40	91	16	14	54	10	8	24	48	64	173

"-" = not surveyed



salmon fishing regulation change



statutory holiday

\* Coquihalla mouth upstream of Fraser-Hope Hwy1 Bridge

Question 3: Can DFO provide the CPUE for the various species during this same period (i.e. 3 weeks leading up to the fishing closure above A/R Bridge) broken down as upstream of the A/R Bridge and downstream of the A/R Bridge?

Additional clarification:

- DFO Fraser Creel defines:
  - Catch = Harvest + Release;
  - Harvest as a kept/retained fish;
  - Release as a fish released with *intent* after being caught;
  - CPUE = catch per unit effort;
  - HPUE = harvest per unit effort;
  - RPUE = release per unit effort;
  - CPUE = HPUE + RPUE;
- CPUE can be provided for each analysis period (e.g. July 16<sup>th</sup> to July 31<sup>st</sup>) by day-type (i.e. weekday and weekend/holiday) and river section;
- Information below is provided for two study design sections:
  - Section 2: Coquihalla confluence to Agassiz-Rosedale Bridge; and,
  - Section 1: Agassiz-Rosedale Bridge to Mission Bridge.

Answer: I was able to provide the CPUE (Table 2) in its component parts as well (HPUE and RPUE in Table 3 and Table 4, respectively) by analysis period and river section for the month and a half leading up to the river closure above Agassiz-Rosedale Bridge.

Table 2a. CPUE in the 2009 Fraser River mainstem recreational fishery, July 1<sup>st</sup> to July 15<sup>th</sup>

	Weekday		Weekend		Average	
	Section 2	Section1	Section 2	Section1	Section 2	Section1
Chinook Adult	0.0377	0.0137	0.0184	0.0099	0.0280	0.0118
Chinook Jack	0.0010	0.0018	0.0026	0.0008	0.0018	0.0013
Coho Adult	0	0	0	0	0	0
Coho Jack	0	0	0	0	0	0
Sockeye	0.0595	0.0077	0.0402	0.0074	0.0499	0.0076
Pink	0	0	0	0	0	0
Chum	0	0	0	0	0	0

Table 2b. CPUE in the 2009 Fraser River mainstem recreational fishery, July 16<sup>th</sup> to July 31<sup>st</sup>

	Weekday		Weekend		Average	
	Section 2	Section1	Section 2	Section1	Section 2	Section1
Chinook Adult	0.0403	0.0217	0.0459	0.0076	0.0431	0.0146
Chinook Jack	0.0060	0	0	0	0.0030	0
Coho Adult	0	0	0	0	0	0
Coho Jack	0	0	0	0	0	0
Sockeye	0.1060	0.0360	0.0622	0.0151	0.0841	0.0256
Pink	0	0	0	0	0	0
Chum	0	0	0	0	0	0

Table 2c. CPUE in the 2009 Fraser River mainstem recreational fishery, August 01<sup>st</sup> to August 16<sup>th</sup>

	Weekday		Weekend		Average	
	Section 2	Section1	Section 2	Section1	Section 2	Section1
Chinook Adult	0.0815	0.0269	0.0420	0.0181	0.0618	0.0225
Chinook Jack	0	0	0.0045	0	0.0022	0
Coho Adult	0	0	0	0	0	0
Coho Jack	0	0	0	0	0	0
Sockeye	0.2087	0.1781	0.2119	0.0853	0.2103	0.1317
Pink	0	0	0	0.0004	0	0.0002
Chum	0	0	0	0	0	0

Table 2d. CPUE in the 2009 Fraser River mainstem recreational fishery, August 17<sup>th</sup> to September 3<sup>rd</sup>

	Weekday		Weekend		Average	
	Section 2	Section1	Section 2	Section1	Section 2	Section1
Chinook Adult	-	0.0306	-	0.0234	-	0.02704
Chinook Jack	-	0.0090	-	0.0069	-	0.00794
Coho Adult	-	0.0010	-	0	-	0.00050
Coho Jack	-	0	-	0	-	0
Sockeye	-	0.0310	-	0.0324	-	0.03169
Pink	-	0.0266	-	0.0103	-	0.01849
Chum	-	0	-	0	-	0

CPUE = Catch per unit effort  
Unit Effort = Angler hour  
"-" not surveyed

Section 2 = Mouth of Coquihalla downstream to Agassiz-Rosedale Bridge  
Section 1 = Agassiz-Rosedale Bridge downstream to Mission Bridge

Table 3a. **HPUE** in the 2009 Fraser River mainstem recreational fishery, **July 1<sup>st</sup> to July 15<sup>th</sup>**

	Weekday		Weekend		Average	
	Section 2	Section1	Section 2	Section1	Section 2	Section1
Chinook Adult	0.0377	0.0137	0.0184	0.0099	0.0280	0.0118
Chinook Jack	0.0010	0.0018	0.0026	0.0008	0.0018	0.0013
Coho Adult	0	0	0	0	0	0
Coho Jack	0	0	0	0	0	0
Sockeye	0	0	0	0	0	0
Pink	0	0	0	0	0	0
Chum	0	0	0	0	0	0

Table 3b. **HPUE** in the 2009 Fraser River mainstem recreational fishery, **July 16<sup>th</sup> to July 31<sup>st</sup>**

	Weekday		Weekend		Average	
	Section 2	Section1	Section 2	Section1	Section 2	Section1
Chinook Adult	0.0403	0.0217	0.0459	0.0076	0.0431	0.0146
Chinook Jack	0.0060	0	0	0	0.0030	0
Coho Adult	0	0	0	0	0	0
Coho Jack	0	0	0	0	0	0
Sockeye	0	0	0	0	0	0
Pink	0	0	0	0	0	0
Chum	0	0	0	0	0	0

Table 3c. **HPUE** in the 2009 Fraser River mainstem recreational fishery, **August 01<sup>st</sup> to August 16<sup>th</sup>**

	Weekday		Weekend		Average	
	Section 2	Section1	Section 2	Section1	Section 2	Section1
Chinook Adult	0.0802	0.0269	0.0420	0.0177	0.0611	0.0223
Chinook Jack	0	0	0.0045	0	0.0022	0
Coho Adult	0	0	0	0	0	0
Coho Jack	0	0	0	0	0	0
Sockeye	0	0	0	0	0	0
Pink	0	0	0	0	0	0
Chum	0	0	0	0	0	0

Table 3d. **HPUE** in the 2009 Fraser River mainstem recreational fishery, **August 17<sup>th</sup> to September 3<sup>rd</sup>**

	Weekday		Weekend		Average	
	Section 2	Section1	Section 2	Section1	Section 2	Section1
Chinook Adult	-	0.0300	-	0.0228	-	0.02637
Chinook Jack	-	0.0077	-	0.0069	-	0.00728
Coho Adult	-	0	-	0	-	0
Coho Jack	-	0	-	0	-	0
Sockeye	-	0	-	0	-	0
Pink	-	0.0150	-	0.0062	-	0.01060
Chum	-	0	-	0	-	0

**HPUE** = Harvest per unit effort  
Unit Effort = Angler hour  
"-" not surveyed

Section 2 = Mouth of Coquihalla downstream to Agassiz-Rosedale Bridge  
Section 1 = Agassiz-Rosedale Bridge downstream to Mission Bridge

Table 4a. **RPUE** in the 2009 Fraser River mainstem recreational fishery, **July 1<sup>st</sup> to July 15<sup>th</sup>**

	Weekday		Weekend		Average	
	Section 2	Section1	Section 2	Section1	Section 2	Section1
Chinook Adult	0	0	0	0	0	0
Chinook Jack	0	0	0	0	0	0
Coho Adult	0	0	0	0	0	0
Coho Jack	0	0	0	0	0	0
Sockeye	0.0595	0.0077	0.0402	0.0074	0.0499	0.0076
Pink	0	0	0	0	0	0
Chum	0	0	0	0	0	0

Table 4b. **RPUE** in the 2009 Fraser River mainstem recreational fishery, **July 16<sup>th</sup> to July 31<sup>st</sup>**

	Weekday		Weekend		Average	
	Section 2	Section1	Section 2	Section1	Section 2	Section1
Chinook Adult	0	0	0	0	0	0
Chinook Jack	0	0	0	0	0	0
Coho Adult	0	0	0	0	0	0
Coho Jack	0	0	0	0	0	0
Sockeye	0.1060	0.0360	0.0622	0.0151	0.0841	0.0256
Pink	0	0	0	0	0	0
Chum	0	0	0	0	0	0

Table 4c. **RPUE** in the 2009 Fraser River mainstem recreational fishery, **August 01<sup>st</sup> to August 16<sup>th</sup>**

	Weekday		Weekend		Average	
	Section 2	Section1	Section 2	Section1	Section 2	Section1
Chinook Adult	0.0014	0	0	0.0004	0.0007	0.0002
Chinook Jack	0	0	0	0	0	0
Coho Adult	0	0	0	0	0	0
Coho Jack	0	0	0	0	0	0
Sockeye	0.2087	0.1781	0.2119	0.0853	0.2103	0.1317
Pink	0	0	0	0.0004	0	0.0002
Chum	0	0	0	0	0	0

Table 4d. **RPUE** in the 2009 Fraser River mainstem recreational fishery, **August 17<sup>th</sup> to September 3<sup>rd</sup>**

	Weekday		Weekend		Average	
	Section 2	Section1	Section 2	Section1	Section 2	Section1
Chinook Adult	-	0.0007	-	0.0007	-	0.00068
Chinook Jack	-	0.0013	-	0	-	0.00067
Coho Adult	-	0.0010	-	0	-	0.00050
Coho Jack	-	0	-	0	-	0
Sockeye	-	0.0310	-	0.0324	-	0.03169
Pink	-	0.0117	-	0.0041	-	0.00790
Chum	-	0	-	0	-	0

**RPUE** = Release per unit effort  
Unit Effort = Angler hour  
"-" not surveyed

Section 2 = Mouth of Coquihalla downstream to Agassiz-Rosedale Bridge  
Section 1 = Agassiz-Rosedale Bridge downstream to Mission Bridge



Question 4: Can DFO provide a figure for the number of anglers checked each week at Island 22 who had been fishing upstream of the Agassiz-Rosedale Bridge over the sockeye time frame prior to the closure?

Answer: There were 28 interviews conducted at Island 22 where the angler indicated the primary angling site was upstream of Agassiz-Rosedale Bridge (Section 2; Table 5). The interview dates, by fishing site, target species and angling method for these 28 interviews are presented in Table 6.

**Table 5.** Count of angler interviews by angling site section and interview site.

Angling Site	Section	Interview Site						Total
		Brownsville	Derby Reach	Duncan Bar	Island 22	Pegleg	Landstrom	
Landstrom	2	-	-	-	2	-	1122	1124
Spring Bar	2	-	-	-	6	-	-	6
Herring Island	2	-	-	-	8	-	-	8
Spaghetti	2	-	-	-	12	-	-	12
Ferry Island	1	-	-	-	1	-	-	1
Gill	1	-	-	-	8	-	-	8
Jespersen	1	-	-	-	245	-	-	245
Pegleg	1	-	-	-	448	992	-	1440
Harrison Bar	1	-	-	-	9	-	-	9
Mouth of Harrison	1	-	-	-	214	-	-	214
Minto Channel	1	-	-	-	76	-	-	76
Calamity	1	-	-	-	162	-	-	162
Mountain Bar	1	-	-	-	213	-	-	213
Island 22	1	-	-	-	4	-	-	4
Englebrich	1	-	-	-	64	-	-	64
Queens	1	-	-	-	158	-	-	158
Wellington	1	-	-	-	696	-	-	696
Grassy	1	-	-	-	1311	-	-	1311
Gilligans	1	-	-	-	72	-	-	72
Hendersons	1	-	-	-	7	-	-	7
Bowmans	1	-	-	-	82	-	-	82
Mouth of Vedder	1	-	-	-	139	-	-	139
Duncan Bar	1A	-	-	91	3	-	-	94
Derby Reach	1A	-	14	-	-	-	-	14
Brownsville	1B	791	-	-	-	-	-	791
Totals		791	14	91	3940	992	1122	6950

Section 2 = Coquihalla confluence downstream to Agassiz-Rosedale Bridge

Section 1 = Agassiz Rosedale Bridge downstream to Mission Bridge

Section 1A = Mission Bridge downstream to Port Mann Bridge

Section 1B = Port Mann Bridge downstream to Alex Fraser Bridge

**Table 6.** Angler interviews conducted at Island 22 for anglers fishing upstream of Agassiz-Rosedale Bridge in 2009.

Date	Day-type	Interview Site	Time	Angling Site	Target Species	Angling Method
20-Jun-09	Weekend	Island 22	18:51	Landstrom	Chinook	Bar
20-Jun-09	Weekend	Island 22	18:51	Landstrom	Chinook	Bar
27-Jun-09	Weekend	Island 22	13:47	Spaghetti	Chinook	Bar
28-Jun-09	Weekend	Island 22	15:46	Herrling Island	Chinook	B Bouncing
28-Jun-09	Weekend	Island 22	15:46	Herrling Island	Chinook	B Bouncing
28-Jun-09	Weekend	Island 22	15:46	Herrling Island	Chinook	B Bouncing
10-Jul-09	Weekday	Island 22	20:35	Spaghetti	Chinook	Bar & B Bouncing
10-Jul-09	Weekday	Island 22	20:35	Spaghetti	Chinook	Bar & B Bouncing
10-Jul-09	Weekday	Island 22	20:35	Spaghetti	Chinook	Bar & B Bouncing
25-Jul-09	Weekend	Island 22	16:55	Spaghetti	Chinook	Bar & B Bouncing
25-Jul-09	Weekend	Island 22	16:55	Spaghetti	Chinook	Bar & B Bouncing
31-Jul-09	Weekday	Island 22	15:09	Spaghetti	Chinook	B Bouncing
31-Jul-09	Weekday	Island 22	16:04	Spaghetti	Chinook	B Bouncing
31-Jul-09	Weekday	Island 22	16:10	Spaghetti	Chinook	Bar
1-Aug-09	Weekend	Island 22	13:50	Spring Bar	Chinook	Bar
1-Aug-09	Weekend	Island 22	13:50	Spring Bar	Chinook	Bar
1-Aug-09	Weekend	Island 22	13:50	Spring Bar	Chinook	Bar
1-Aug-09	Weekend	Island 22	19:30	Herrling Island	Chinook	Bar
1-Aug-09	Weekend	Island 22	19:30	Herrling Island	Chinook	B Bouncing
10-Aug-09	Weekday	Island 22	15:44	Spaghetti	Chinook	Bar
14-Aug-09	Weekday	Island 22	16:10	Spring bar	Chinook	B Bouncing
14-Aug-09	Weekday	Island 22	16:10	Spring bar	Chinook	B Bouncing
14-Aug-09	Weekday	Island 22	16:10	Spring bar	Chinook	B Bouncing
15-Aug-09	Weekend	Island 22	18:48	Herrling Island	Chinook	B Bouncing
15-Aug-09	Weekend	Island 22	18:48	Herrling Island	Chinook	B Bouncing
15-Aug-09	Weekend	Island 22	18:48	Herrling Island	Chinook	B Bouncing
4-Sep-09	Weekday	Island 22	17:39	Spaghetti	Chinook	B Bouncing
4-Sep-09	Weekday	Island 22	17:39	Spaghetti	Chinook	B Bouncing

**Question 5:** Can DFO provide a comparison of the CPUE for sockeye reported at Island 22 vs the CPUE for sockeye taken at Grassy Bar by the participants in the Sockeye Release Survival Study, during the period of the 3 week study?

**Answer:** Data provided by J.O. Thompson for the Sockeye Catch & Release Study was for the week Monday Aug. 10<sup>th</sup> to Friday Aug. 14<sup>th</sup>, 2009 (Table 7). DFO's interview results for the same time period are also included in Table 6 (note: Creel Surveyors only worked at Island 22 on Monday Aug. 10<sup>th</sup>, Tuesday Aug. 11<sup>th</sup> & Friday Aug. 14<sup>th</sup> during that week).

Island 22 interview data from anglers that indicated they were part of the Sockeye C&R Study were excluded from this analysis of DFO data. Additionally, Island 22 interview data from anglers that indicated they were fishing outside of the "area surrounding" Grassy Bar were also excluded (e.g. Spaghetti); there were 30 of these interviews excluded.

**Table 7.** Angler effort, catch and CPUE comparison for sockeye salmon caught at and around Grassy Bar.

Date	Day-type	Sockeye C&R Study - Grassy Bar				DFO Creel Survey - Grassy Bar <sup>1</sup> & surrounding area <sup>2</sup>			
		No. of Anglers	Angler Hours	Sockeye Landed	CPUE	No. of Anglers	Angler Hours	Sockeye Landed	CPUE
10-Aug-09	Weekday	12	66	25	0.3788	58	299	54	0.1809
11-Aug-09	Weekday	9	53	26	0.4906	39	226	38	0.1681
12-Aug-09	Weekday	17	101	35	0.3465	<sup>-3</sup>	<sup>-3</sup>	<sup>-3</sup>	<sup>-3</sup>
13-Aug-09	Weekday	19	85	17	0.2000	<sup>-3</sup>	<sup>-3</sup>	<sup>-3</sup>	<sup>-3</sup>
14-Aug-09	Weekday	35	123	21	0.1707	52	266	5	0.0188
Totals		92	428	124	0.2897	149	790	97	0.1228

<sup>1</sup> excluding the interviews of anglers that declared themselves part of the Sockeye C&R Study at Grassy Bar.

<sup>2</sup> includes anglers that, when interviewed at Island 22, indicated they fished between Mouth of Vedder & Gill (all in Section 1).

<sup>3</sup> DFO Creel surveyors work every weekend & holiday; days off for the DFO Creel surveyors occur during weekdays.

**Question 6:** How does DFO use the counts conducted on the adjacent bars to our creel interview sites?

**Answer:** I am quite sure you are referring to the “hourly rod counts” our surveyors conduct while working at the top of every hour. Below is an excerpt from a document I have provided in the past titled “*Fraser River Recreational Fishery Estimates: a general overview on how they are generated.*” I can provide this document again most gladly.

**Hourly rod counts:** For at least one fishing “area” on the river (e.g. Island 22 down to Grassy Bar, Pegleg, Landstrom, Pattullo), a creel surveyor will perform hourly rod counts (one might also refer to these as hourly angler counts but we count the rods not the people). Basically, the surveyor will count the number of rods that are actively fishing, in the fishing area, at the top of every hour. These rod counts are generally performed in areas with strong angling effort. What this provides is a “picture” or “profile”, of the angling effort throughout the day: when the effort rises, when it’s highest, and when it falls. The hourly rod counts are conducted every day the surveyors are working.

These hourly rod counts are then averaged for each hour to estimate an Average Hourly Rod Count (Table 2; column 2).

**Table 2. Average hourly rod counts for analysis period**

Time	Average Hourly Rod Count	Percentage of Daily Rod Count
6 AM	29.3	8.7%
7 AM	36.3	10.8%
8 AM	38.3	11.4%
9 AM	37.0	11.0%
10 AM	31.3	<b>9.3%</b>
11 AM	29.0	<b>8.6%</b>
12 AM	25.2	7.5%
1 PM	22.7	6.7%
2 PM	21.8	6.5%
3 PM	13.7	4.1%
4 PM	13.7	4.1%
5 PM	12.3	3.7%
6 PM	10.0	3.0%
7 PM	9.0	2.7%
8 PM	7.0	2.1%
<b>Daily Total</b>	<b>336.7</b>	<b>100%</b>

(Day-type = Weekend; Analysis Period = Sep.01 to Sep.15)

Average hourly rod counts are calculated for each day-type (i.e. weekend or weekday) for every analysis period.

***Proportion of the daily rod count total occurring each hour.*** One can sum the “Average Hourly Rod Counts” to come up with a daily rod count total (e.g. 336.7 in Table 2. above), and then the “Percentage of the Daily Rod Count” occurring at each hour can be estimated (Table 2; columns 3).

What these estimates are used for will hopefully become more evident in the following sections below, however, it should be pointed out here that another way of expressing the benefits of the hourly rod count “picture” or “profile” is to say that we now have a way to estimate the proportion of the daily angler effort that occurs at any given hour.

**Question 7:** As for the salmon closed area and time, is there any data on how many people still fished the (closed) area and the number of salmon encounters they had?

**Answer:** We conducted two overflights of this area during the “closed to fishing for salmon” period. The two flights occurred on Aug.17<sup>th</sup> and Aug.23<sup>rd</sup>. Only one angler was seen fishing at Croft bar on the Aug.17<sup>th</sup> flight. The angler was deemed to be bottom bouncing. Twelve anglers were seen at the mouth of the Coquihalla River on the Aug.23<sup>rd</sup> flight however, the mouth of the Coquihalla was upstream of the upper limit (Hope-Fraser Hwy 1 Bridge) of the fishing closure.

Fraser Stock Assessment has no information/data on any salmon encounters this one angler had or any encounters other anglers had if fishing in the closed area during the closed time period.

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Question 8: Can DFO confirm that the current Creel Survey does not allow one to differentiate between interviews from guided anglers and non-guided anglers?

Answer: Currently our creel surveyors do not ask that question when interviewing the anglers but it is a question that could be easily added if required. So although our Survey has the capability to differentiate between guided and non-guided anglers, we currently do not exercise this capability. The usefulness of this interview data would have to be fleshed-out before adding it to the suite of questions we presently ask.