

**Meighan Creek Coho Smolt Enumeration
2001-2006**



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**For
Pacific Salmon Foundation
&
Squamish River Watershed Recovery
Technical Committee**

1.0 Introduction:

In 2001 a need to assess coho smolt productivity from Meighan Creek was identified by Department of Fisheries & Oceans Canada (DFO). The objective was to track changes to Meighan Creek productivity as urban development proceeded. At the time (2001) Meighan remained a largely unimpacted drainage. A diversion fence and trap box were constructed at what is known locally as Leskie Crossing. The trap site was approximately 400m downstream of Government Road at a trail bridge crossing on Harris Slough. In 2006 a new trap was designed and moved approximately 50m upstream of Government Road.

Historic counts on Meighan from 1973-75 (Argue & Armstrong, 1977) are also presented for comparison purposes.

2.0 Methods:

In 1973-75 a standard fence and trap box was constructed just downstream of Government Road to capture and coded wire tag coho smolts. The trap was run from April 19- May 23 in 1973, April 9-June 4 in 1974, and April 9-June 15 in 1975 (Appendix 1 and Argue & Armstrong, 1977).

In 2001 a standard fence and trap box was constructed at the Leskie's crossing site (approximately 400m downstream from the original site described in Argue & Armstrong). The trap was installed and checked daily by a combination of Streamkeeper volunteers, DFO staff and InStream Fisheries Research staff. The trap was operated each spring until 2005 at the Leskie Crossing site from mid-April until early June. In 2006 a new trap was designed and constructed that was more versatile to different sites and more easily deployed utilizing Pacific Salmon Foundation funds. The trap site was relocated 50m upstream of Government Road due to frequent back watering from the Squamish River at the Leskies crossing site. The issue of back watering of Harris Slough made trapping efficiency sporadic during the critical smolt migration month of May in 2004 and 2005 as water levels frequently exceeded the trap height.



Figure 1. New trap installed 50m upstream of Government Road on Meighan Creek in Spring 2006

Bio-sampling

The trap was checked daily and fish were identified for species and life stage. Bio-sampling of coho smolts occurred in 2001 and in 2006. Sampling was not done during 2002-2005 as operation of the traps was largely done on a volunteer basis.

3.0 Results

1973 to 1975

In 1973 a total of 8,440 coho smolts were captured (Figure 2). This year was a pilot year during the Argue & Armstrong study to assess whether enough coho could be captured at various small streams in the lower Squamish for coded wire tagging. This may explain why in 1973 they only fished Meighan from April 19 to May 23 (no explanation is given for the early stop date, and reasonable numbers of fish were still being captured). The 1973 season appeared to be the most consistent of the three years with steady flows i.e. no backwatering or low flow that suspended trap operation (Appendix 1).

In 1974 the trap was fished from April 9 to June 4. A total of 6,233 coho were captured (Figure 2). Trapping days were lost due to flood and trapping was suspended early (June 4th) when reasonable numbers of coho were still being captured (Appendix 1).

Spring flows in 1975 are described as extremely low making operation of the Meighan trap difficult. According to Argue and Armstrong the trap only functioned on 12 days during the trapping period of April 9 to June 15. The total number of coho smolts captured was 2,787 (Figure 2).

2001 to 2006

In 2001 the trap was installed at Leskie Crossing. Trapping commenced on April 11th and continued until June 14th. A total of 9,431 coho smolts were captured during this time period (Figure 2). Only one day of trapping was lost in 2001 due to backwatering overtopping the trap, this occurred on May 31st (Appendix 1). Average length and weight of coho smolts in 2001 was 95mm and 9.0g respectively (Table 1)

In 2002 the highest migration of coho smolts in the years assessed was recorded. A total of 11,568 smolts were counted between April 18th and June 10th (Figure 2). The trap was removed a few days prior to June 15th due to backwatering from the Squamish River making the trap inoperable. In 2002 a total of 5 days (May 29-31 and June 6-7) were lost to backwatering. As the observed peak of coho migration in south western British Columbia normally occurs in the first half of May (Melville & McCubbing 2005, McCubbing 2001a & 2001b), the assessment of coho migration was likely not compromised to a large degree by the lost trapping days (Appendix 1).

The 2003 coho migration was counted at 7,342 smolts leaving Meighan (Figure 2). The trap was installed and operating on April 15th and continued operation until June 4th when it was again removed because of Squamish River backwatering. In 2003 a total of 5 trapping days were lost. The first on May 11th was due to vandalism. The other four (May 25-26, and May 29-30) were again due to backwatering (Appendix 2).

In 2004 migration dropped dramatically to a total of 1,743 smolts (Figure 2). The trap was operated from April 3rd to June 4th, backwatering again being the reason for removal prior to June 15th. The lower count than the two previous years can partly be attributed to more days being lost to backwatering in 2004, a total of 13 days (May 2-3, May 18-24, and May 26-29). It is very difficult to assess how many fish would have bypassed the trap during these periods of time as catch can vary quite dramatically day to day, as demonstrated in years where the trap has fished every day (Appendix 1).

The 2005 capture of coho smolts was the lowest to date 1,074 (Figure 2). The trap was only able to operate from April 8th until May 12th when continuous high-water in the Squamish River backwatered the trap. The trap was removed May 30th when it was decided that a reliable assessment of migration would not be achieved (Appendix 1).

In 2006 the trap site was moved upstream of Government Road (Figure 1) in order to assess the coho smolt migration without the problem of the trap being inundated by the Squamish River. The new trap was installed and operating on April 9th and continued to operate until June 19th. Trapping was continued for a few days past June 15th (normal take-out date) due to catch of smolts not yet approaching zero. Total coho smolt catch for 2006 was 4,147. Length and weight of coho smolts in 2006 was 98g and 10.8g respectively (Table 1).

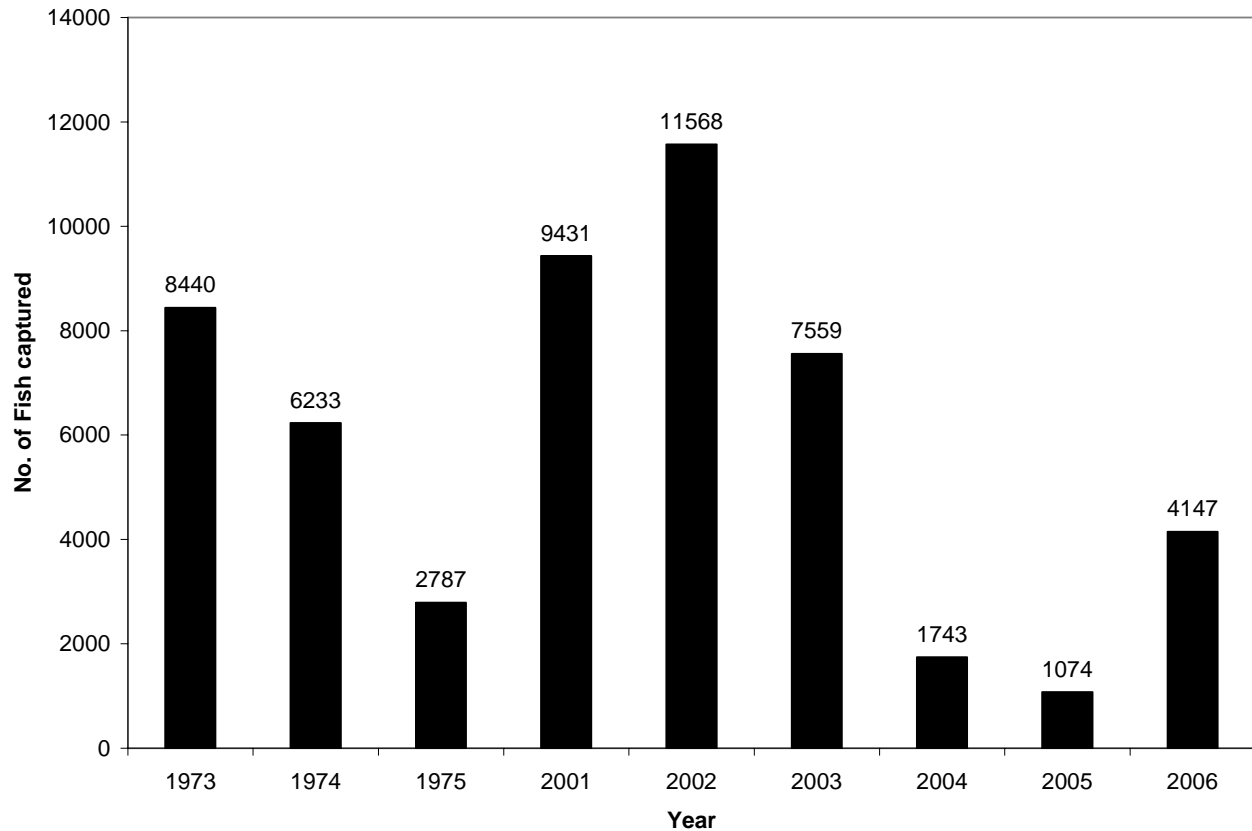


Figure 2. Numbers of coho smolts captured at Meighan counting fences 1973 to 1975 and 2001 to 2006.

Note: 1975, 2004 & 2005 had numerous trapping days lost due to low flows and backwatering, please see Appendix 1 & 2.

Table 1. Summary of length & weight data from fish captured at the Meighan counting fence 2001 and 2006

Species		Length (mm)	Weight (g)
2001 Coho Smolts	N	1075	82
	Range	70-141	4.1-17.5
	Mean	95	9.0
	SD	9.5	2.8
2006 Coho Smolts	N	399	246
	Range	73-137	4.6-27.7
	Mean	98	10.8
	SD	11.7	3.7

Migration Timing

Peak migration timing of coho smolts appears to have varied little over the years of record, and has occurred between the 1st and 15th of May in 1973-74, 2001-2003 and 2006. The years 1975, 2004 and 2005 when numerous days during observed peak migration were lost due to low water (1975) and backwatering (2004 & 2005) were not included when assessing peak migration as the data are skewed by lost trapping days when an unknown number of fish bypassed the trap, (in the case of backwatering) or the peak was later than normal as observed in 1975 when low flows indicated a hold back of migration and the peak did not occur until the end of May (Figure 3).

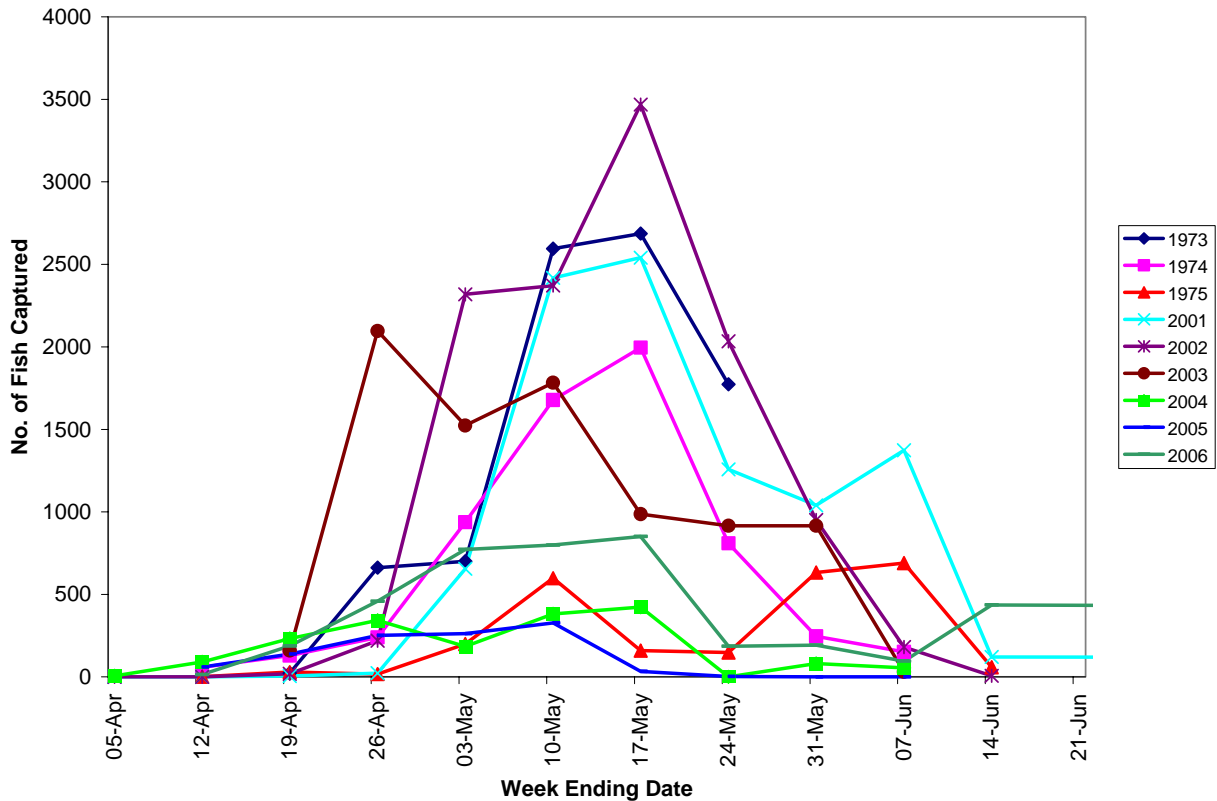


Figure 3. Migration timing of coho smolts from Meighan Creek 1973-75 and 2001-2006.

4.0 Discussion & Recommendations

The Meighan watershed appears to be a productive habitat within the Squamish drainage for coho. The range of 2,787 smolts to 11,568 smolts (mean 7,670) in the years assessed prior to spring 2004 when development began in the watershed indicates healthy recruitment. The low end of this range (2,787) may have been the result of a drought in the spring of 1975 (Argue and Armstrong, 1977). A precipitous drop in numbers was observed in 2004 and can in part be explained by lost trapping days due to backwatering at the trap site. If we drop those years from the record a decline in numbers is still observed in 2006, when only 4,147 smolts were captured (no trapping days lost). This represents 55% of the mean coho migration in 1973-75 and 2001-2003. An argument that the trap being moved upstream could account for the lower number of fish being caught can be made, although the number of fish captured in 2006 is still 57% of the mean catch 1973 and 1974 (7,337) when the trap was located just downstream of the 2006 site. As well in 1973 and 1974 trapping was not conducted into mid-June with the likely hood that more fish than assessed left the system in those years.

An information gap when assessing the ability of the Meighan watershed to produce coho juveniles is the unknown adult recruitment that produced the smolts. This is a key piece when assessing the affects of reduced migration out of habitat that is perceived to have lost productivity.

If future urban impacts to small tributaries in the Squamish Watershed are to be assessed with confidence it is recommended that coho be used as a “canary in the coal mine”. Assessment would include adult smolt recruitment on more than one tributary in the lower watershed for a minimum of two coho life cycles (6 years).

REFERENCES:

- Argue, A.W. and R.W. Armstrong, 1977. Coho smolt coded-wire tagging and enumeration (1971 to 1973 broods) on three small tributaries in the Squamish River system. Data Record Series PAC/D-77-11. Field Operations Directorate, Pacific Region.
- McCubbing, D.J.F. 2001a. A Report on the assessment of the 2001 smolt output from the Waukwaas River, North Vancouver Island, using rotary traps. North Vancouver Island Salmon Enhancement Society (NWISEA) MWALP Contract Report.
- McCubbing, D.J.F. 2001b. Adult Steelhead Trout and Salmonid Smolt Migration at the Keogh River during Spring 2001. NWISEA MWALP Contract Report.
- Melville, C. C, and D.J.F McCubbing, 2005. Assessment of the 2004 Juvenile Salmon Migration in the Cheakamus River using Rotary Traps. DRAFT Prepared for BC Hydro.

APPENDIX 1.**Catch data from Meighan Creek 1973-75 and 2001-06.****1973**

<u>Date</u>	<u>COS</u>	<u>SH/RB</u>	<u>CT</u>	<u>STB</u>	<u>Comments</u>
19-Apr-73	22			2	
20-Apr-73	60	1		4	
21-Apr-73	136			5	
22-Apr-73	53				
23-Apr-73	78			2	
24-Apr-73	101			3	
25-Apr-73	132				
26-Apr-73	102			1	
27-Apr-73	103				
28-Apr-73					
29-Apr-73	167			5	Catch accumulated for two days
30-Apr-73	190			5	
01-May-73	134			3	
02-May-73	59			3	
03-May-73	47				
04-May-73	438			10	
05-May-73	535			17	
06-May-73	424	2		10	
07-May-73	675	6		14	
08-May-73	215			10	
09-May-73	175	2		5	
10-May-73	133			11	
11-May-73	77	1		1	
12-May-73	195			2	
13-May-73					
14-May-73	578			10	Catch accumulated for two days
15-May-73	444	1		10	
16-May-73	858	1		7	
17-May-73	535	2		4	
18-May-73	319			1	
19-May-73	574				
20-May-73					
21-May-73	642			2	Catch accumulated for two days
22-May-73	176				
23-May-73	63				
Total	8440	16	0	147	

1974

<u>Date</u>	<u>COS</u>	<u>SH/RB</u>	<u>CT</u>	<u>STB</u>	<u>Comments</u>
09-Apr-74	4				Trap undermined-possible fish leak
10-Apr-74	21				Trap undermined-possible fish leak
11-Apr-74	10			2	Water stable-much debris
12-Apr-74	23				
13-Apr-74	9			1	
14-Apr-74	5				
15-Apr-74	10				
16-Apr-74	50				
17-Apr-74	26				
18-Apr-74	1				
19-Apr-74	28			1	
20-Apr-74	7				
21-Apr-74	15				
22-Apr-74	1				
23-Apr-74	6				
24-Apr-74	104				
25-Apr-74	27		1		
26-Apr-74	79		2	1	
27-Apr-74	56				
28-Apr-74	10				
29-Apr-74	89				
30-Apr-74	110		1		
01-May-74	138		1	1	
02-May-74	72			1	
03-May-74	462	1	2		
04-May-74	247				
05-May-74	409		2	1	
06-May-74	393				
07-May-74	278	2	9		
08-May-74	113		1		
09-May-74	19				
10-May-74	218			2	
11-May-74	337				
12-May-74	273	1		2	
13-May-74	473	1			
14-May-74	243	1	3	1	
15-May-74	204			1	
16-May-74	205			2	
17-May-74	261		1		
18-May-74	183				
19-May-74	102				
20-May-74	42	1	1		
21-May-74	56				
22-May-74	47			1	
23-May-74	118	1	5	3	
24-May-74	262		6	6	Raining-water rising
25-May-74	136				Washout on left side of fence
26-May-74					Heavy rain-fence washed out, trap repaired at 16:30
27-May-74		1	1	15	Water dropping
28-May-74	89			12	Trap undermined possible fish leak
29-May-74	1				Very little debris, water low
30-May-74	20				Water low and stable.
31-May-74	0		1		
01-Jun-74	8		1		
02-Jun-74	5				
03-Jun-74	77		1		
04-Jun-74	61		2		
Total	6243	9	41	53	0

1975

Date	COS	SH/RB	CT	STB	Comments
09-Apr-75	1				
10-Apr-75					No water flow
11-Apr-75					No water flow
12-Apr-75					No water flow
13-Apr-75					No water flow
14-Apr-75	5		1		Water flow increasing
15-Apr-75	5				
16-Apr-75	14				
17-Apr-75	2				
18-Apr-75	3				
19-Apr-75					
20-Apr-75					
21-Apr-75	3				
22-Apr-75					Trap box plugged fish could retreat
23-Apr-75	14				
24-Apr-75					Trap ok no fish
25-Apr-75					Trap ok no fish
26-Apr-75					Trap ok no fish
27-Apr-75					
28-Apr-75	136				
29-Apr-75	13				
30-Apr-75					
01-May-75					
02-May-75	4				
03-May-75	46				
04-May-75	56	1			
05-May-75	42				
06-May-75	12				
07-May-75	112				
08-May-75	106				
09-May-75	270				
10-May-75					Trap ok no fish
11-May-75	76				
12-May-75	30				
13-May-75	22				
14-May-75					very low flow
15-May-75	30				
16-May-75					No flow through trap
17-May-75	2				
18-May-75	40				
19-May-75					No flow
20-May-75	40				
21-May-75	22				
22-May-75					No flow
23-May-75	45				
24-May-75					No flow
25-May-75					No flow
26-May-75					No flow
27-May-75	20				
28-May-75					very little flow
29-May-75	236		1		Flow increasing
30-May-75	223				
31-May-75	149	1	2		
01-Jun-75	5		1		
02-Jun-75	5				
03-Jun-75	101				
04-Jun-75	537				smolts observed upstream
05-Jun-75	47				
06-Jun-75	84				
07-Jun-75	71				
08-Jun-75	99				
09-Jun-75					
10-Jun-75	52				
11-Jun-75					Water too high fish can retreat
12-Jun-75					Water too high fish can retreat
13-Jun-75					
14-Jun-75	7				
15-Jun-75					Trap removed
Total	2787	2	5	0	

2001

DATE	COS	SHS/RB	CT	STB
11-Apr-01	0		0	
12-Apr-01	0		0	
13-Apr-01	0		0	
14-Apr-01	0		0	
15-Apr-01	0		0	
16-Apr-01	0		0	
17-Apr-01	5		0	
18-Apr-01	0		0	
19-Apr-01	0		0	
20-Apr-01	0		0	
21-Apr-01	0		0	
22-Apr-01	0		0	
23-Apr-01	0		0	
24-Apr-01	0		0	
25-Apr-01	6		0	
26-Apr-01	16		11	
27-Apr-01	14		1	
28-Apr-01	30		2	
29-Apr-01	52		12	
30-Apr-01	102		7	
1-May-01	213		7	
2-May-01	162		0	
3-May-01	82		0	
4-May-01	329		0	
5-May-01	894		31	
6-May-01	313		12	
7-May-01	232		2	
8-May-01	89		5	
9-May-01	275		2	
10-May-01	286		0	
11-May-01	363		1	
12-May-01	372		0	
13-May-01	321		4	
14-May-01	193		2	
15-May-01	657		4	
16-May-01	298		9	
17-May-01	336		0	
18-May-01	71		1	
19-May-01	103		4	
20-May-01	272		2	
21-May-01	214		0	
22-May-01	437		11	
23-May-01	117		3	
24-May-01	43		8	
25-May-01	353		11	
26-May-01	37		4	
27-May-01	8		2	
28-May-01	163		1	
29-May-01	429		14	
30-May-01	50		2	
31-May-01	0		0	
1-Jun-01	24		1	
2-Jun-01	1062		24	
3-Jun-01	76		3	
4-Jun-01	49		1	
5-Jun-01	41		0	
6-Jun-01	60		4	
7-Jun-01	61		3	
8-Jun-01	18		1	
9-Jun-01	6		0	
10-Jun-01	42		6	
11-Jun-01	38		5	
12-Jun-01	7		0	
13-Jun-01	3		0	
14-Jun-01	7		1	
15-Jun-01				
Total:	9431	0	173	0

2002

Date	COS	SH/RB	CT	STB	Comments
18-Apr-02	0	0	0	0	
19-Apr-02	18	0	0	30	
20-Apr-02	10	0	0	10	
21-Apr-02	7	0	0	6	
22-Apr-02	5	0	0	4	
23-Apr-02	32	0	0	12	
24-Apr-02	32	0	0	9	
25-Apr-02	72	0	0	2	
26-Apr-02	61	0	0	2	
27-Apr-02	89	0	0	2	
28-Apr-02	339	0	0	3	
29-Apr-02	254	0	2	0	
30-Apr-02	273	0	2	6	
1-May-02	425	0	0	5	
2-May-02	22	0	0	1	
3-May-02	917	0	0	0	
4-May-02	186	0	0	0	
5-May-02	92	0	0	0	
6-May-02	760	2	3	4	
7-May-02	297	0	0	5	
8-May-02	215	0	0	0	
9-May-02	380	0	0	2	
10-May-02	441	0	0	6	
11-May-02	552	1	3	4	
12-May-02	611	1	6	3	
13-May-02	426	0	6	2	
14-May-02	750	0	0	2	
15-May-02	115	0	0	0	
16-May-02	132	0	2	4	
17-May-02	882	0	3	6	
18-May-02	197	0	2	11	
19-May-02	106	0	2	2	
20-May-02	500	0	2	4	
21-May-02	499	0	2	3	
22-May-02	310	0	2	7	
23-May-02	190	0	0	0	
24-May-02	232	1	2	6	
25-May-02	67	0	3	7	
26-May-02	133	0	3	10	
27-May-02	113	0	0	0	
28-May-02	638	0	0	0	
29-May-02					Squamish backed up trap not fishing and fish able to escape until Jun 1.
30-May-02					
31-May-02					
1-Jun-02	66	0	0	0	
2-Jun-02	5	0	0	0	
3-Jun-02	34	0	0	0	
4-Jun-02	70	1	0	0	
5-Jun-02	6				
6-Jun-02					Trap backed up and fish escaping.
7-Jun-02					Trap backed up and fish escaping.
8-Jun-02	5				
9-Jun-02	2				
10-Jun-02					Trap backwatered from Squamish and removed.
Total:	11568	6	45	180	

2003

Date	COS	SH/RB	CT	STB	Comments
15-Apr-03	6	0	1	1	
16-Apr-03	21	4	1	1	
17-Apr-03	20	2	1	0	
18-Apr-03	38	3	0	0	
19-Apr-03	75	3	4	0	
20-Apr-03	38	3	4	0	
21-Apr-03	136	7	1	0	
22-Apr-03	540	2	5	7	
23-Apr-03	244	0	1	1	
24-Apr-03	44	1	0	0	
25-Apr-03	566	2	1	0	
26-Apr-03	529	2	0	1	
27-Apr-03	267	1	0	2	
28-Apr-03	253	2	0	1	
29-Apr-03	275	0	1	4	
30-Apr-03	206	0	0	2	
1-May-03	163	1	0	5	
2-May-03	187	0	0	3	
3-May-03	172	0	0	0	
4-May-03	176	0	0	4	
5-May-03	237	0	0	0	
6-May-03	302	0	0	0	
7-May-03	324	1	2	1	
8-May-03	189	0	0	5	
9-May-03	233	0	0	0	
10-May-03	322	1	0	0	
11-May-03	217	0	0	0	
12-May-03	111	2	0	1	
13-May-03	168	1	0	1	
14-May-03	175	4	0	2	
15-May-03	97	0	1	7	
16-May-03					Trap was not checked therefore May 17 catch is two days.
17-May-03	219	0	0	1	
18-May-03	193	1	0	1	
19-May-03	140	0	0	0	
20-May-03	141			1	
21-May-03	79	1			
22-May-03	102	1	1	1	
23-May-03	172		1	1	
24-May-03	89			15	
25-May-03					Backwatered from Squamish on May 25 and 26
26-May-03					
27-May-03	27			7	
28-May-03	35			47	
29-May-03					Backwatered from Squamish May29 and 30
30-May-03					
31-May-03	0	0	0	0	
1-Jun-03	1	1	0	5	
2-Jun-03	0	0	0	3	
3-Jun-03	22	0	0	0	
4-Jun-03	8	0	0	0	
5-Jun-06					
Total	7559	46	25	131	

2004

Date	COS	SH/RB	CT	STB	Comments
3-Apr-04	2	1			
4-Apr-04	2				
5-Apr-04	3				
6-Apr-04	6				
7-Apr-04	7				
8-Apr-04	6				
9-Apr-04	12				
10-Apr-04	11				
11-Apr-04	27				
12-Apr-04	22				
13-Apr-04	7				
14-Apr-04	34				
15-Apr-04	30				
16-Apr-04	32				
17-Apr-04	58				
18-Apr-04	57				
19-Apr-04	14				
20-Apr-04	53				
21-Apr-04	63				
22-Apr-04	42				
23-Apr-04	37				
24-Apr-04	42				
25-Apr-04	81				
26-Apr-04	25				
27-Apr-04	21				
28-Apr-04	43				
29-Apr-04	64				
30-Apr-04	56				
1-May-04	1				
2-May-04					Trap overtopped, Closed again on May 3, but still too deep for trap box
3-May-04					
4-May-04	25				
5-May-04	44				
6-May-04	50				
7-May-04	86				
8-May-04	43				
9-May-04	60				
10-May-04	73				
11-May-04	40				
12-May-04	92				
13-May-04	50	1			
14-May-04	60				
15-May-04	43				
16-May-04	106				
17-May-04	32				
18-May-04					Trap vandalized and then highwater until May 24
19-May-04					
20-May-04					
21-May-04					
22-May-04					
23-May-04					
24-May-04					
25-May-04	46				
26-May-04					Highwater until May 29
27-May-04					
28-May-04					
29-May-04					
30-May-04	11				
31-May-04	24				
1-Jun-04	5				
2-Jun-04	17				
3-Jun-04	33				
4-Jun-04					Trap removed
Total	1798	2	0	0	

2005

<u>Date</u>	<u>COS</u>	<u>SH/RB</u>	<u>CT</u>	<u>STB</u>	<u>Comments</u>
8-Apr-05	4				
9-Apr-05	2				
10-Apr-05	2				
11-Apr-05	1				
12-Apr-05	51				
13-Apr-05	108				
14-Apr-05	10				
15-Apr-05	7				
16-Apr-05	3				
17-Apr-05	0				
18-Apr-05	10				
19-Apr-05					
20-Apr-05	8	2		7	
21-Apr-05	0				
22-Apr-05	13	1		5	
23-Apr-05	34				
24-Apr-05	38	1		4	
25-Apr-05	48				
26-Apr-05	110				
27-Apr-05	98		1		
28-Apr-05	46				
29-Apr-05	32				
30-Apr-05	21			9	
1-May-05	32			3	
2-May-05	12				
3-May-05	21				
4-May-05	90			10	
5-May-05	39				
6-May-05	59			8	
7-May-05	42				
8-May-05	70			7	
9-May-05	12				
10-May-05	15				
11-May-05	10				
12-May-05	14				
13-May-05					Backwatered May 13 to 15
14-May-05					
15-May-05					
16-May-05	9				
17-May-05					Backwatered until trapping suspended May 30th
18-May-05	3			4	
19-May-05					
20-May-05					
21-May-05					
22-May-05					
23-May-05					
24-May-05					
25-May-05					
26-May-05					
27-May-05					
28-May-05					
29-May-05					
30-May-05					
Total:	1074	4	1	57	

2006

Date	COS	SH/RB	CT	STB	Comments
9-Apr-06	1				
10-Apr-06	2				
11-Apr-06	5			1	
12-Apr-06	6				
13-Apr-06	0				
14-Apr-06	1				
15-Apr-06	1				
16-Apr-06	12			1	
17-Apr-06	109				
18-Apr-06	46			1	
19-Apr-06	18				
20-Apr-06	22				
21-Apr-06	76				
22-Apr-06	90				
23-Apr-06	46				
24-Apr-06	75				
25-Apr-06	87		1		
26-Apr-06	62				
27-Apr-06	94				
28-Apr-06	95				
29-Apr-06	148				
30-Apr-06	205				
1-May-06	74		1		
2-May-06	98		1		
3-May-06	59				
4-May-06	161				
5-May-06	58				
6-May-06	40				
7-May-06	135				
8-May-06	94				
9-May-06	159				
10-May-06	152				
11-May-06	546		3		
12-May-06	95				
13-May-06	59				
14-May-06	40				
15-May-06	25		1		cutthroat was smolt
16-May-06	37		2		
17-May-06	49		1		
18-May-06	21				
19-May-06	32				
20-May-06	34				
21-May-06	30				
22-May-06					Trap not checked
23-May-06	23			1	
24-May-06	46				
25-May-06	28				
26-May-06	44			1	
27-May-06					Trap not checked
28-May-06	57				
29-May-06	22	2			
30-May-06	30				
31-May-06	12				
1-Jun-06	1				
2-Jun-06	23			1	
3-Jun-06	37				
4-Jun-06	5			2	
5-Jun-06	7				
6-Jun-06					Trap not checked
7-Jun-06	23			1	
8-Jun-06	9		3		
9-Jun-06	89	1	5	2	
10-Jun-06	37				
11-Jun-06	153			2	
12-Jun-06	29				
13-Jun-06	49				
14-Jun-06	70			1	
15-Jun-06	125			3	
16-Jun-06	6			1	
17-Jun-06					Trap not checked
18-Jun-06	11				
19-Jun-06	12			2	
Total	4147	3	18	20	