

### Bulkley River Fish Fence 1999



Funded by: Fisheries and Oceans Canada Coordinated by: Nadina Community Futures

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Watershed Library

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1999

### 1.0 Executive Summary

This year's operation of the fence ran very smoothly with both good returns of Coho and favourable weather conditions. In all, a total of 1073 coho were processed, the vast majority of which entered the live trap box, although greater efforts were made this year with regards to seining.

In comparison to previous years, this was an exceptional year. The total of 1073 means that if the cumulative total was taken for coho numbers in the previous three years, and doubled, it would still be below this year's count.

The fence was in operation for a period of 9 weeks, every day, 24 hours per day between the dates of August 31, and November 2. Although Coho were processed throughout the duration of the project, it was a relatively earlier run than usual, and it is thought that a number of coho could have entered the system before the fence was installed.

The fence continues to be in a relatively poor state of repair, although there was no improvements required on the sill. It is anticipated that this will be the last year of operation of the existing structure.

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### 2.0 Background Information

### 2.1 The Fence

The Upper Bulkley Coho Assessment Fence is located 6 km upstream from the Morice and Upper Bulkley River Confluence. The fence is constructed of aluminum and consists of 20 panels, and an 'I' beam, stretching across the river at right-angles. There is a wooden sill (no part of which was replaced this year) running the breadth of the river and the fence can be lowered or raised by a series of pulleys and cables. As with the previous two years, the aluminum walkway was not installed as all cleaning of the fence was undertaken on the upstream side of the fence.

The supporting 'A' frame on the far side of the river continues to move and some minor adjustment was required to fit the panels in place. The chain link fencing and barbed wire worked well again, and no vandalism occurred to the fence, live trap box or the supporting structure. The trap box, probably due to the side panels being removed at the end of last year, had shifted away from the side and required being jacked back into place.

The trap box worked well this year although on a number of occasions fish were able to back out. A plywood sheet was placed at an angle across the trap box entrance which reduced such occurrences. At least one steelhead was observed swimming downstream the length of the trap and exiting though the entrance.

The fence was installed slightly earlier than in previous years. The first day the trap was fully operational and fishing was on August 31, 1999. It remained in operation without being laid flat, or being breached, for 62 full days, before being dismantled on November 2; a period of 9 weeks.

### 2.2 Safety

As with previous years, great attention was paid towards safety in the operation of the fence. This year, however, a number of improvements were made to enhance both the smooth running and safety aspects of operation. A swift water rescue company visited the site and provided safety and emergency rescue techniques to the staff (both permanent and casual) as well as recommendations to the operating procedures.

Improvements that were subsequently made to the site included handles to the inside of the trap box around the entrance and a safety-line running across the width of the river approximately 10 feet upstream of the fence. During higher water and night, the workers could then hook themselves onto this safety line. Where the cables fed into the winch hut, a series of 2x4's were placed so that in the event of a cables snapping the 'snaking' of the taught cable would be contained and injury minimized.

Also for this year dry suits and glow sticks were purchased to aid night work during higher flows. The glow sticks worked extremely well, and were not just used from a safety aspect but were also able to shed enough light to help workers identify and clear debris off the fence. More casual staff were employed at night when the leaf load

increased to provide the day staff with sufficient rest. This arrangement worked well and not once during the 9 week period was the fence in danger of being breached and letting coho through undetected.

Due to fears of recent years that the fence wasn't performing to its full potential and that it was acting as a barrier to fish rather than guiding them into the live fish trap, more effort was directed towards seining. Although more sets were made this year, the trap itself worked effectively. There were one or two occasions when coho were viewed rolling below the fence in the evening, and had not entered the trap by the next morning, but, generally, the trap worked well. 910 were caught by using the live trap box and 163 were caught by seining. This constitutes a 85% to 15% split.

### 2.3 River Conditions

Figure 1 shows water temperature. Ice build-up started at the end of October and the fence was removed on November 2. After this date warm weather again dominated, and the freeze up of the creeks did not occur until mid November.

For the first time in several years, the fence operated for the full term without it being breached, or having to be lain flat. This is in part due to extra help recruited for night work during heavy leaf load, but also due in part to weather conditions. The river was higher than usual at the very start (as can be seen in Figure 2) of the project compared to other years; this year for example there was no need to place boards across the breadth of the fence to channel more water into the trap. As can be seen in the diagram, the October rains did not occur and water levels went down throughout the duration of the project, rather than up. Leaf build up was used to direct some flow into the trap later on to encourage fish to enter the trap.

There was certainly no significant rainfall events causing water peaks as witnessed two years ago. There was some snowfall in the mountains in early-mid October which resulted in some higher flows in mid-late October, but nothing out of the ordinary.

Figure 1. Water Temperature

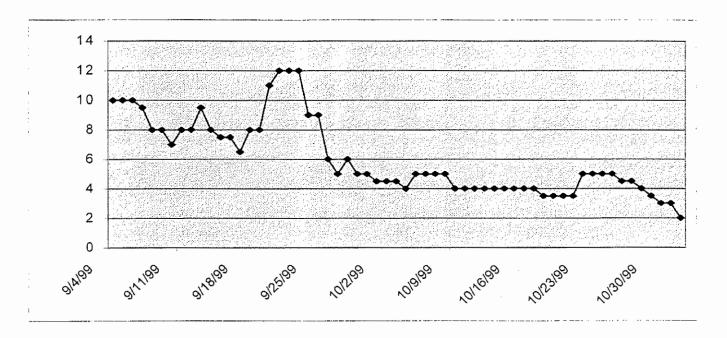
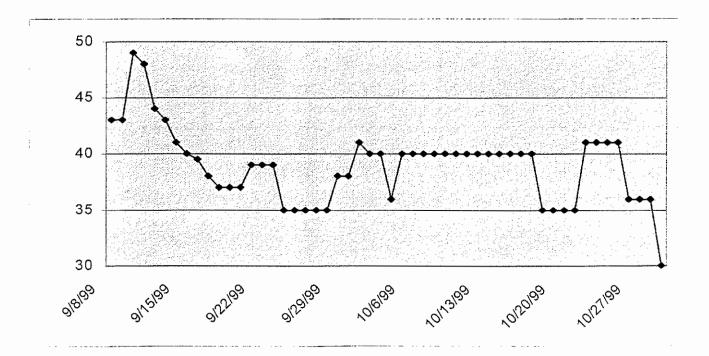


Figure 2. Water Level (cm's, at fence)



### 3.0 Methodology

The majority of fish were processed from the live trap box, rather than through seining. The trap was monitored at a minimum of two times per day, and often up to four and fives times during a 24 hour period. Fish were caught in the trap using a soft mesh net so that stress and damage to the fish were kept to an absolute minimum.

The various measurements, samples and identifying marks were then taken. The most efficient method of collecting the data was to use three people in the process. In periods where there were higher numbers of fish in the trap it was necessary to employ four workers: one to catch the fish, two to hold the fish and take samples, and one to record the data. When scale samples were not recorded each fish would be handled (whilst being held in a large water container for the most part) for between 45 and 90 seconds. Taking scale samples added on another 45 seconds to a minute.

Scale samples were taken throughout the project period although there was a greater rate of scale sampling in the first 3 weeks in order to ensure that at least 125 coho were sampled. In the latter part, one scale book was filled every week so that samples were taken from a broad range of the run.

Length measurements of the coho were based on the post orbital hypeural length (from the back of the eye to the caudal peduncle) using a soft roll tape measure. Note that steelhead measurements were fork length: from the tip of the nose to the centre of the fork on the tail. All weights were estimates.

If coho were to be transported to Toboggan Creek Hatchery for enhancement purposes they were taken to the upstream end of the live trap box which was partitioned off from the main area of the trap. The hatchery was then informed and would often be collected on the same day, or the next day.

Methods of collecting data on seined fish were exactly the same, although time spent handling was reduced due the number of people available (usually 6-7) to help. After the data was collected the coho (and steelhead) would be put in transfer bags (supplied by DFO) and transferred to the upstream side of the fence. All seining was done in the 60 metres immediately below the fence, seining the river-right two-thirds of the flow; pulling the coho towards a gravel beach on opposite side of the river from the trap entrance. The most effective method of seining (in terms of speed in getting the net set) was by using a small rowing boat situated below the fence, and unloading the net from the bow of the boat.

All data collected was frequently (about once a week) transferred on to a computer at the office of Nadina Community Futures.

### 4.0 Results and Discussion

### 4.1 Coho Run

The 1999 run of Coho for the Upper Bulkley system was by far the largest run in recent years. During the 9 weeks of operation the number of coho processed – both going through the live trap box and capture by seining – totaled 1,073. This represents a substantial increase over previous year as can be seen in Figure 3.

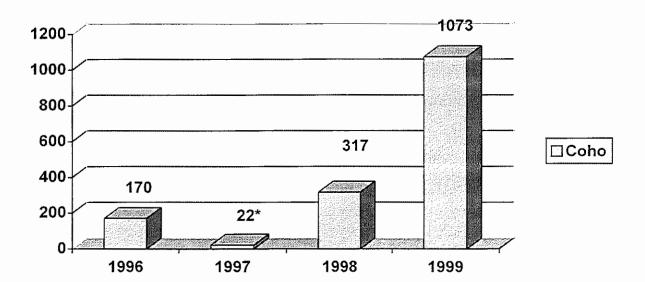


Figure 3: By Year Comparison of Coho.

\*Note that in 1997 this was an uncompleted count. The fence was laid flat after 6 weeks of operation due to extremely high water

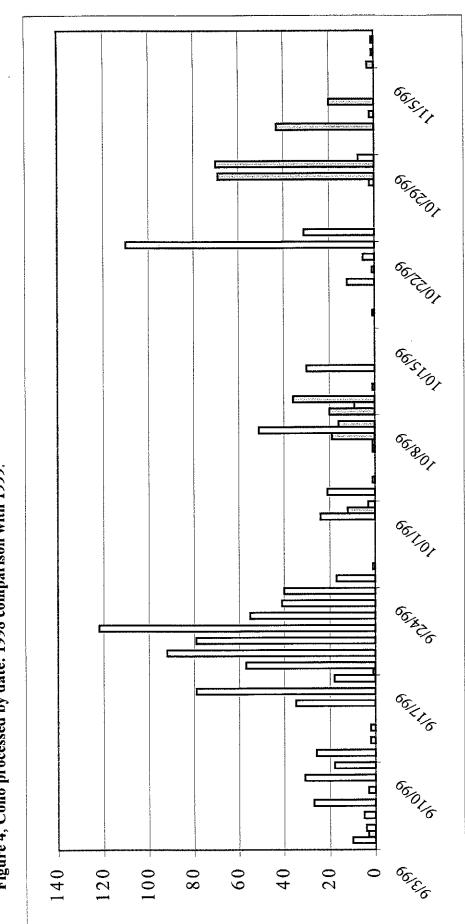
The run itself was earlier than in most other years. It is not uncommon to wait several weeks into September for a run to come into the trap, but this year fish entered from the start. The fence was installed several days earlier than usual (it started fishing on August 30), and by September 15<sup>th</sup>, in just over two weeks of operation, 243 coho had been processed. This can be compared with only 22 coho in the first 6 weeks of operation two years previously.

This year the number of coho transported to the Toboggan Creek Hatchery for enhancement purposes totaled 170. All 170 fish were not used for enhancement purposes as the females were slow to ripen, and many of these fish were returned to the system prior to egg retrieval.

Figure 4, Coho processed by date: 1998 comparison with 1999.

] 1999

1998

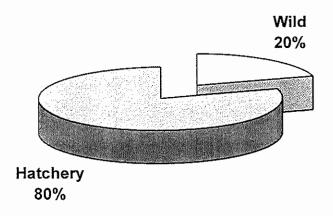


### 4.2 Hatchery and Unmarked Stock

Although total numbers were up for returning coho, the percentage of wild coho compared to hatchery stock decreased from last year. Of the 1066 coho sampled (7 coho were caught at the end of the project were not identified as to whether they were wild or hatchery stock), 20.2% were wild, and 79.8% were of hatchery origin. This is shown in the table (and Figure 5) below, along with the male/female split:

	TOTAL	
· ·	#	%
Wild	215	20.2
Hatchery	851	79.8
F	EMALES	
	#	%
Wild	106	18.2
Hatchery	478	81.8
	MALES	
	#	%
Wild	109	22.6
Hatchery	373	77.4
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Figure 5, Split Between Hatchery and Wild Returning Coho Stocks

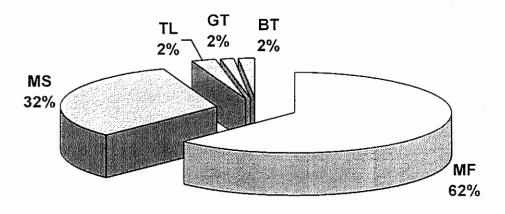


### 4.3 Dorsal Fin Tagging

Of the 1073 Coho processed at the fence, 128 (or 11.9%) of them had been tagged and tailed punched, nearly all of which were dorsal fin tagged at Moricetown. The tags were either put on as they went through the Moricetown Fishway (MF) or though seining (MS), again at Moricetown. Three coho were identified as having a tail punch with no sign of a tag.

Figure 6 below shows the breakdown of the tags. For full analysis of tag numbers please see Appendix 1.

Figure 6 Tagged Coho



MF Moricetown Fishway

MS Moricetown Seine

TL Tag Loss

GT Green Tag (no #)

BT Blue Tag

1066 coho were examined for marks. Numbers of coho captured by mark type are shown in the table below:

Mark Type	Number of Coho
Right Ventral	10
Left Ventral	11
Adipose/Left Ventral	2
Right Maxillary	30
Adipose/Right Maxillary	2
Left Maxillary	5
Adipose/CWT	791

The left maxillary clipped adults were returns from 1995 brood Upper Bulkley River coho reared at the Richfield Creek Public Involvement Program hatchery. A total of 1100

coho were left maxillary clipped and released into the Upper Bulkley system in the late spring of 1996.

The right maxillary clipped coho were 1996 brood coho reared at the Richfield Creek PIP hatchery. A total of 6,941 coho fry were right maxillary clipped and released into the Upper Bulkley system in late spring of 1997.

There were no adipose/right maxillary or adipose/left ventral clipping programs. Those fish may have naturally missing adipose fins or fins could be missing as a result of injury.

A final seine was made on October 28 to capture coho to retrieve milt and eggs for a school project. Seven coho were retrieved (4 males, 3 female) by DFO staff but were not closely examined for fins clipped, weight or length.

### 4.4 Health

A total of 990 scale samples were taken, from 198 coho. It should be noted that in Appendix 1 under the column 'scales samples' when the numbers are, for example, 6-46; it was because the individual scales were placed on 6, 16, 26, 36, and 46. When the numbers are 6-10, then they were placed on the numbers 6, 7, 8, 9, and 10. Each system is clearly laid out on the scale book itself.

Of the 1073 processed, a total of 50 Coho had clearly identified health problems – representing 4.7% of those handled. Of these 50, the most frequent problem was that from parasites, of which 42 suffered. Other problems included scale loss, damaged jaws, gill net scars, fungus, damage to maxillary and eyes, and scarring.

The average weight of the coho was 6.8 lbs (all estimated weights) and the average length (post orbital hypeural length from the back of the eye to the caudal peduncle) was 52cm.

### 4.5 Other Species

Not including the whitefish, of which several hundred were caught either through seining or with the live trap box, a total of 1188 fish were processed. The table below shows the various catch of each species:

	Coho	Steelhead	Sockeye	Chinook	BT/Dolly *	Nor'n Squawfish
Male	486	29	7	2	-	
Female	587	51	7		17	2
Total	1073	80	14	2	17	2

Of the 80 steelhead processed, 6 were tagged. For individual tag numbers please see Appendix I.

At least one northern ling cod (or burbot) was washed down onto the fence (and was released below).

### 4.6 Dead Pitch

This year all the spawned-out and dead fish washed up on the fence were identified and recorded. For a full record of all the fish carcasses collected (and thrown over) the fence please see Appendix II. Making up the list included 65 coho, 34 chinook, 17 pink and 1 steelhead. There were also 7 Dolly Varden/bull trout, and one northern squawfish.

### Appendices

Appendix ! Upper Bulkley River Fish Fence 1999

Scale To Book & # Hatchery	Н									c Punch)	SB# 57208	10-20	01-0,01		No. 1-5	-	No. 11-15			No. 21-25	No. 26-30			30,0	No. 31-35	No. 36-40		No. 41-45	46-50	SB# 57209	1-41		2-42	3-43	4-44	5-45	6-46	7-47	8-48	9-49	10-50	SB#57210
Comments										(Start Operc			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Foot Loodh	Biol	Fork Length	Parasites						Net marks				Fork Length					Parasites										
Dorsal Fin Tag				Org 2072 MS			Blu 20538 MF								***************************************																					Blu 20507 MS					Blu 20113 MF	
Mark Type	Ad	Ad	Ad	₩ <sub>O</sub>	Ad	Ad	UM RV	Ad	Ad	ΡY		2	2	200	¥	M	ΡĄ	MO	OM	Ad	M O	MO	MO	Ad	Pq.	Ad		Ad	S C		MO	Ad	M	Ad	Ad	Ad	UM RV	Ad	Ad	Ad	Ad	
Length*	50	42	39	40.5	49	35.5	52	42.2	41.1	50	1	8 8	20	Jack	37	41	36	Jack	58	47	. 49	35	39	35	41	48	28	58	53		41	53	44	41	37	45	52	37	37	52	43	
M/F	Σ	Σ	Σ	Σ	Σ	Σ	ч	Σ	W	ч		-	-	Σ	2	L.	Σ	Σ	z	×	۲,	×	<b>2</b>	Σ	×.	Σ	Ľ	Σ	Σ		Z	æ	ч	Z	F	2	L	Σ	×	Ь	2	
Species	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho		coup	COUC	4-Sep Chinook	Coho	Steelhead	Coho	Chinook	Steelhead	Coho	Coho	Coho	5-Sep Coho	Coho	Coho	Coho	6-Sep Steelhead	6-Sep Coha	Coho		Coho	Caho	Caho	6-Sep Coho	Coho	Coho	Coho	Coho	Coho	Cotto	6-Seo Coho	
Date	Ġ.	3-Ѕер Соћо	3-Sep	3-Sep Coho	3-Ѕер	3-Ѕер	3-Sep	3-Sep Coho	3-Sep	3-Sep		4-Sep Cono	4-Sep Cono	4-Sep	4-8-0	4-Sep	4-Sep	4-Sep	4-Sep	5-Sep	5-Sep	5-Sep	5-Sep	5-Sep	6-Sep Coho	6-Sep Coho	6-Sep	6-Sep	e-Sep		6-Sep Coho	6-Sep Coho	6-Sep	deS-9	6-Sep	6-Sep Coho	6-Sap	6-Sep	6-Sep	6-Sep	6-Seo	

Sharles		*	- Ahe		STEEL		Hatellely
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					Jaundice		
ouo	Σ	38	<u>8</u>	***************************************	(liver?)	5-45	
oho	Σ	44	Ad			6-46	
Coho	Σ	39	OM			7-47	
otio	Σ	39	Ad			8-48	
oho	Σ	42	Ad			9-49	
6-Sep Coho	Σ	52	Ad			10-50	
						SB# 57211	
6-Sep Coho	Ł	48	Ad			1-41	
oho	Σ	43	Ađ			2-42	
oho	Σ	38.5	Ad			3-43	
Coho	Σ	41	Ad			4-44	
oho	Σ	38	Ad			5-45	
Coho	Σ	35.5	ΜĢ			9-46	
No'n Squa		45	ΜΩ		Fork Length		
Coho	ı	47	Ad				Hatch
Coho	Σ	43	Ad			8-48	
oho	×	37.5	Ad			9-49	
oho	Σ	46	WO			10-50	Hatch
	1	9	:			SB#57212	1
ouo	-	48	Ya.			1-4	насп
000	2	9	2				
ouo	-	45	UM KV			74-7	
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, ,	2	5	8	Bl. 2183 ME			
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oho	2	38	W)			5-45	Hatch
oho	Ŀ	48	MO			6-46	Hatch
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oho	Σ	9	ΨŅ			3-43	Hatch
oho	Σ	34	W <sub>C</sub>	,	***************************************	4-44	Hatch
ono	Σ	48	Ad			5-45	
Caho	Σ	36	Ad				
cho	Σ	44	Ad				
oho	Σ	47	Ad			6-46	
	6-Sep Coho		F	Sh	Sh	Sheep   Shee	Street   S

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То	насспегу				Hatch									Hatch	Halch	Hatch	Hatch			Hatch	Hatch	Halch		Halch			Hatch	Hatch			Hatch			Hatch	Halch			Hatch
	7-47	8-48	9-49		10-50		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	58#5/214 1-41	2-42			3-43		4-44	5-45	6-46	7-47			8-48	9-49	10-50	SB# 57215	1-41	2-42	,	3-43	4-44	5-45		6-46			7-47	8-48		9-49	10-50
	Comments			Parasites			***************************************				Fork Length		Scale Loss				Scarred																			Damage Head & Tail		
ui-	lag	Blu 21238 MF																																		Blu 21009 MF		Blu 20478 MF
Mark	1ype	Ad	βĄ	UM	Ν'n	ΡV		UM RV	Ad	Ą	Ν'n	Ad	Ad	Ad	MΩ	Ad	S.	OM	Ad	Ad	Ad	ΜN		MΩ	UM RV	Ad	\$	¥5	ΡĄ	Αd	Ad	¥5	Ad	Ad	MO	Ad	Ad	MN
Length*	cm.s	44	46	38	46	34	69	48	45	41.5	47	25	45	20	46	52	44	29	36	45	52	46		45	43	32	23	6	43	43	48	75	51	51	35	48	49	46
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,	Species	Caho	Coho	Coho	Coho	Coho	9-Sep Steelhead	9-Sep Coho	9-Sep Coha	Coho	9-Sep Bull Trout	9-Sep Coho	Coho	9-Sep Coho	9-Sep Coho	9-Sep Coho	9-Sep Coho	9-Sep Steelhead	Сайо	Coho	9-Sep Coho	9-Ѕер Соно		9-Sep Coho	9-Sep Coho	9-Sep Coho	Coho	Caho	Coho	Caho	Coho	Sleelhead	Coho	Caho	Coho	Caho	10-Sep Coho	Coho
	Date	8-Sep Caho	8-Sep	8-Sep	9-Sep	9-Sep	9-Sep	9-Sep	9-Sep	9-Sep Coho	9-Sep	9-Sep	9-Sep	9-Sep	9-Sep	9-Sep	9-Sep	9-Sep	9-Sep	9-Sep	9-Sep	9-Sep		9-Sep	9-Sep	9-Sep	10-Sep Coho	10-Sep Coho	10-Sep Coho	10-Sep Caho	10-Sep Coho	10-Sep	10-Sep	10-Sep Caho	10-Sep Coho	10-Sep	10-Sep	10-Sep Coho

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ojeC	Spacios	3/10	Length*	Mark	Dorsal Fin	Comments	Scale Book & #	To
	choole		9	1364	Fig.			
			:				SB#57216	:
10-Sep	Coho	۷	20	Ad	Blu 21787 MF		1-41	Hatch
10-Sep	Coho	2	35	₽.			2-42	
10-Sep	Coho	ı.	£ 5	Α.			3-43	Hatch
des-nt	2000	- :	47	₽.			4-44	Halci
30-Sep	Cono	æ	41	Ad				
10-Sep	Cotho	ч	48	Ad	Blu 21740 MF		5-45	Hatch
10-Sep	Coho	Ŀ	52	Ad			9-46	Hatch
10-Sep	Coho	Ŀ	50	γq			7-47	Hatch
10-Sep	Coho	×	38	Š			8-48	Hatch
10. Seo	Coho	ц	40	Ā	RI+ 20975 MF		67-6	Hatch
10-Sep	Coho	2	48	Ą			10-50	
10-Sep Coho	Coho	F	64	MO				
ç	1	L	3	3			SB#57217	100
ouo das o	Cons	. :	44	2 2			14-1	Jak
10-Sep Cond	cana	¥ L	23	2			24-2	1000
10-Sep	Steelheed	L L	£ 88	₹ ₹			24-5	Late
11-Sep Cobo	Coho	- 4	N/A	<u> </u>				Halch
11-Sep	Coho	2	43	PA		Parasites		
12-Sep	Coho	F	44	M			4-44	Hatch
12-Sep Coho	Coho	L	40	M			5-45	Hatch
14-Sep	Coho	ь	20	Ad		Parasites	6-46	
14-Sep Cano	Coho	F	48	Ad			7-47	
14-Sep	Coho	Σ	39	Ą				
14-Sep	Cano	١-	52	PF.			8-48	Hatch
14-Sep	Coho	<b>3</b>	44	₽			9-49	
dac-+-	COTO	M.	40	2 3			20-06	
4-Sep wrilles	Willeasin	V/A	5	M T		FOR LEGIUM		
14-Sep	Cono	æ	33	¥		rarasites		
14-Sep Coho	Coho	×	54	Ad	Blu 20782 MF		SB#57218 1-41	
14-Sep	Coho	Σ	43	PA			2-42	
14-Sep	Coho	Σ	40	Ψ'n			3-43	Hatch
14-Sep	Coho	F	51	Ad	Tag toss TP		4-44	
14-Sep	Sleemead	F	73	UM				
14-Sep Coho	Coho	Σ	40	Ad				
14-Sep	Coho	Σ	47	Ad				
14-Sep	Coho	F	20	Ad			5-45	
14-Sep	Coho	Ł	45	Ad		Parasites		
14-Sep	Coho	F	54	Ν̈́			6-46	Hatch
14-Sep	Coho	×	36	₹			7-47	Halch
14-Sep Coho	Coho	×	41	3			8-48	Hatch
14-Sep (	Coho	Ŀ	47	PG			9-49	
14-Sep Coho	Coho	4	42	Ad				
14-Sep	Coho	ž	43	3		Parasiles	10-50	Hatch

Appendix | Upper Bulkley River Fish Fence 1999

To Hatchery	Haich						Hatch			Hatch			Halch		Hatch									Hatch	Hatch	Hatch				1	ria(C)			Hatch	1	Hatch	Hatch				Hatch		
Scale Book &#</td><td>SB# 57219</td><td></td><td>2-42</td><td></td><td>3-43</td><td>4-44</td><td>5-45</td><td></td><td>6-46</td><td>7-47</td><td>8-48</td><td></td><td>9-49</td><td>10-50</td><td>1-41</td><td>2-42</td><td>3-43</td><td>4-44</td><td>5-45</td><td></td><td>6-46</td><td></td><td>7-47</td><td>7-48</td><td>9-49</td><td>10-50</td><td>SB# 57221</td><td>1-41</td><td></td><td>2-45</td><td>3-43</td><td>4-44</td><td>242</td><td>5-40</td><td>1-4/</td><td>8-48</td><td>9-49</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Comments</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>T</td><td>Parasites</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Fungus</td><td></td><td></td><td>Half Tail</td><td>Scar on righ</td><td></td><td></td><td></td><td></td><td>Parasites</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Dorsal Fin Tag</td><td></td><td></td><td></td><td>Blu 20818 MF</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Bkt 21529 MF</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Blu 21944 MF</td><td>Bto 20938 MF</td></tr><tr><td>Mark Type</td><td>ΔA</td><td>8</td><td>Ad</td><td>Ad</td><td>Ad</td><td>Ad</td><td>Š</td><td>Ad</td><td>Ad</td><td>Вф</td><td>Ađ</td><td>Ad</td><td>Ad</td><td>P</td><td>Ad</td><td>Ad</td><td>Ad</td><td>Ad</td><td>Ad</td><td>MO</td><td>Ad</td><td>Ad</td><td>Ad</td><td>MΩ</td><td>٩d</td><td>MΩ</td><td></td><td>Ad</td><td>Ad</td><td>Ad</td><td>Σ.</td><td>Ad .</td><td>Na.</td><td>MO</td><td>Ad .</td><td>yq.</td><td>Ad</td><td>Ad</td><td>Ad</td><td>Ad</td><td>Ad</td><td>Ad</td><td>Ą</td></tr><tr><td>Length* cm's</td><td>65</td><td>14</td><td>52</td><td>94</td><td>47</td><td>49</td><td>23</td><td>40</td><td>55</td><td>46</td><td>45</td><td>47</td><td>49</td><td>45</td><td>50</td><td>52</td><td>25</td><td>52</td><td>48</td><td>33</td><td>48</td><td>41</td><td>49</td><td>52</td><td>22</td><td>63</td><td>i</td><td>51</td><td>53</td><td>25</td><td>£ .</td><td>44/</td><td>7 5</td><td>3 :</td><td>4/</td><td>45</td><td>20</td><td>35</td><td>26</td><td>52</td><td>49</td><td>45</td><td>23</td></tr><tr><td>MIF</td><td>174</td><td>2</td><td>٤</td><td> ᄔ</td><td>F</td><td>4</td><td>14.</td><td>Z</td><td>ц.</td><td>Ľ.</td><td>ъ</td><td>4</td><td>u.</td><td>ш</td><td>Σ</td><td><u>.</u></td><td>Σ</td><td>Σ</td><td>u</td><td>Σ</td><td>F</td><td>V</td><td>Ŀ</td><td>Ŀ</td><td>ш</td><td>u</td><td></td><td><u>.</u></td><td>اخا</td><td></td><td>-  </td><td>٤ ا</td><td>- :</td><td>2 .</td><td><u>                                     </u></td><td>Σ:</td><td>Σ</td><td>Σ</td><td>ш</td><td>4</td><td>Σ</td><td>1L</td><td> ш.</td></tr><tr><td>Species</td><td>Coho</td><td>Coho</td><td>Caho</td><td>Coho</td><td>Coho</td><td>Cofro</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td></td><td>Coho</td><td>Coho</td><td>Coho</td><td>Cono.</td><td>202</td><td>Corro</td><td>000</td><td>Cono</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td><td>Coho</td></tr><tr><td>Date</td><td>14.Sen</td><td>14-Sep</td><td>14-Sep Caho</td><td>14-Sep</td><td>14-Sep Coho</td><td>14-Sep Coho</td><td>14-Sep Coho</td><td>14-Sep Coho</td><td>14-Sep Caho</td><td>14-Sep Coho</td><td>14-SepCoho</td><td>14-Sep</td><td>14-Sep Coho</td><td>14-Sep Coho</td><td>15-Sen Coho</td><td>15-Sep</td><td>15-Sep Coha</td><td>15-Sep Coho</td><td>15-Sep</td><td>15-Sep Coho</td><td>15-Sep</td><td>15-Sep Caho</td><td>15-Sep Coho</td><td>15-Sep Coho</td><td>15-Sep</td><td>15-Sep Coho</td><td>!</td><td>15-Sep Coho</td><td>15-Sep</td><td>15-Sep Coho</td><td>des-ci</td><td>15-Sep Cono</td><td>-0-0 -0-1</td><td>des-ci</td><td>15-Sep Coho</td><td>15-Sep</td><td>15-Sep Coho</td><td>15-Sep</td><td>15-Sep</td><td>15-Sep</td><td>15-Sep</td><td>15-Sep Coho</td><td>15-SepiCoho</td></tr></tbody></table>																																											

Date	Spaciae	A/N	s.m.	Tvpa	Tag.	Comments	Book & #	Hatchery
15-Sen	Whitefish	Y.V	38					
4 6 6 6	Whitehall	× ×	38					
dac-c	wellealsh	¥.	00	2				
15-Sep	Whitefish	ΑŅ	38	ΨΩ				
15-Sep	Whitefish	ΥN	38	₽				
15-Sep	Whitefish	N/A	38	ΜO				
15-Sep	Whitefish	A/N	38	ΜO				
5-Sep	Whitefish	ΝΆ	38	ΜΩ				
15-Sep	Whitefish	N/A	38	Σ				-
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15-Sep Coho	Coho	ш	53	W	Blu 21328 MF		10.50	
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ouo das-c	2000	-	94	2				
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15-Sep	Coho	ъ	22	Ð				
15-Sap (	Coho	ட	48	MΩ			2-42	
15-Sep	Coho	W	40	ΜΩ			3-43	Hatch
15-Sep	Coho	Z	25	ΜO				Hatch
15-Sep	Coho	×	38	Ad				
5-Sep	Coho	Σ	41	Ad				
15-Sep	Coho	Σ	35	Ad				
15-Sep Coha	Coho	Ŧ	49	Ad	Blu 21558 MF			
2	140		40	1	Div. 94049 MC			
13-Sep Corio	2000	L M	şę	200	INI CHELZ DIG			
700	200	Ē	ş	2				
15-Sep	Conc	٠	45	Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma				
15-Sep	Coho	-	44	æ		Parasiles		
15-Sep	Coho	æ	39	Ρ				
15-Sep	Coho	×	40	3			4-44	Hatch
15-Sep	Caho	M	44	XI S			5-45	Hatch
15-Sep	Caho	Ł	22	ΡĄ				
15.Sen Cobo	0440	-	4					
	2	Ē	\$	Ą				

Appendix 1 Upper Bulkley River Fish Fence 1999

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To Hatchery															-																					Hatch				Hatch				
Scale Book & #															,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,																					6-46								
Comments																																					MoE							
Dorsal Fin Tag					Blu 21544 MF			Bl. 20973 MF			Org 3060 MS											Blu 21837 MF															Whi 21708			Blu 21147 MF		Wht 3080 MS		
Mark	¥	Ad	Αd	Win	Ad	Ad	Ad	Ad	¥5	₽Ą	₽¥	Ą	N.S	Ą	Pg	Μ	Ad	UM RV	§ :	2	5	Ad	Ad	MΩ	Ad	Pd .	Ad	<u> </u>	Αd	Ad	Ad	P.	ΣĎ.	2	N N	ΜĎ	ΨŊ	Ad	Ad	NO.	Ad	Ad	PQ S	!
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Species	Coho	Caho	Coho	Coho	Coho	Caho	Coho	odo	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Соно	Coho	16-Sept Cond		Coho	Coha	Steethead	Coho	Coho	Sho	Sleethead	Coho	Coho	Coho	Coho	Cono	Cond	Steelhead	Coho	Steelhead	Coho	Coho	Coho	Coho	Coha	17-Sep Coho	
Date	유	15-Sep	15-Sep	15-Sep Caho	15-Sep Coho	15-Sep	15-Sep Coho	15. San Coho	15-Sep Coho	15-Sep Coho	15-Sep Coho	15-Sep	15-Sep Coho	15-Sep	15-Sep	15-Sep	15-Sep Coho	15-Sep	16-Sep	16-Sept Cond	2	16-Sep Coho	16-Sep (	16-Sep	16-Sep	16-Sep	16-Sep	16-Sep	16-Sep	16-Sep Coho	16-Sep	16-Sep Coho	Jo-vep	16 Sep Graph	16-San	16-Sep	16-Sep	16-Sep	16-Sep	16-Sep Coho	17-Sep Coho	17-Seo Coho	17-Sep	

	20000	1	cm2	Туре	Tag	Comments	Book & #	Hatchery
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	4	:		3	01. 00700 645		ŗ	
17-Sep Coho	olo olo	E	5 05	Ad	DIA 20103 INI			
17-Sep	17-Sep Coho	F	52	WS				
17-Sep Cobo	Coho	ц	50	Ad	Blu 22418 MF			
17-Sep	Sockeye	- -	54	3	27.77	Fork Lenath		
17-Sep	Coho	4		Ad		2		
17-Seo	Coho	ц.		Ad	Blu 21231 MF.			
17-Sep	Coho	×		Ad				
17-Sep	Coho	ц.		Ad				
17-Sep Coho	Coho	4		Ad				
17-Sep	Coho	4		Ad				
17-Sep	Coho	_		γq				
17-Sep Coho	Coho	2		P				
17-Sep	17-Sep Coho	¥		γq				
17-Sep	Caho	Σ		Σ				Hatch
17-Sep	17-Sep Coho	F		γq				
17-Sep	17-Sep Coho	F		γq		Parasites		
17-Sep	17-Sep Coho	M		Αd		Seine		Halch
17-Sep	17-Sep Coho	Σ	1	<b>₹</b>		Seine		Hatch
17-Sep	Coho	F		Š		Seine		
17-Sep	Coho	ů.		Š		Seine		
17-Sep	Coho	F		<b>3</b> 5		Seine		
17-Sep	Соћо	Σ		Ρ¥		Seine		Hatch
17-Sep	17-Sep Coho	Σ		∌	Blu 20622 MF	Seine		Hatch
17-Sep	Coho	F		ΜŊ		Seine		
17-Sep Caho	Caho	ц		Ad	Blu 21965 MF	Seine		
17-Sep	17-Sep Coho	ц.		WΩ		Seine		
17-Sep Coho	Coho	4		Αd		Seine		
17-Sep Coho	Coho	Σ		Ą	Blu 20897 MF	Seine		Hatch
17-Sep Coho	Coho	u.		OM LV		Seine		
17-Sep Coho	Coho	Σ		MU	Blu 22042 MF	Seine		Hatch
17-Sep Coho	Coho	L.		UM RM	UM RM BIL 21735 MF	Seine		
17-Sep	17-Sep Caho	ъ		ΡV		Seine		
17-Sep	Steelhead	F	79	Μn		Seine		
17-Sep	17-Sep Coho	M		ΡV		Seine		
17-Sep	Coho	F		₽₩		Seine		
17-Sep	17-Sep Coho	Ŧ		Ad		Seine		
17-Sap	Coho	F		Ad		Seine		
17-Sep	Coho	F		₽∀		Seine		
17-Sep	Steelhead	Σ		Wn		Seine		
17. San Coho								

Appendix | Upper Bulkley River Fish Fence 1999

To			Hatch		Hatch																																				1-1-1-1	Hatch		Hatch					
Scale Book & #																																				0,0	0-40				9	9-49		10-50	200				
Comments	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Parasites					Fork Length																		,																
Dorsal Fin Tag	_	Org 2052 MS							Org 2142 MS																	L	Blu 21480 MF																Wh! 8233 MS	Bli 21291 MS	0111 C 21 7 PW				Blu 20820 MF
Mark	PA	Ad	Ad	PAP C	¥.	UM	##n	Ad	Win	Pγ	PΥ	ΜΠ	MU	Ad LV		¥ .	AG	Σ	Αd	Ad	Ad	₽¥	Αd	Ad	PΥ	1	γq	Σ.	Ψ	Ad	Pg .	P 7	9	ş :	Ad	Yd.	Sin 7	7	E T	# T	2	S.	Ad	M	T	2 7	PQ ?	Ad	Ad
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Species	Coho	Coho	Coho	Steelhead	Coho	Whitefish	Steelhead	Coho	Caho	Coho	Coho	Whitefish	17-Sep Whitefish	Coho	17-Sep Buil Trout	Steethead	Cono	Whitefish	Coho	Coho	Coho	сцо	Coho	Cotto	Coho	j	Coho	Whitefish	Steelhead	Coho	Coho	Cono	Cond	Whiterish	Caho	Cano	COLIC	2000	Deallead	Corlo	2000	Cons	Coho	Coho	2100	Cono	Cono	Coho	Caha
Date	17-Sep Caho	17-Sep	17-Sep	17-Sep	17-Sep Coho	17-Sep.	17-Sep	17-Sep	17-Sep Caho	17-Sep Caho	17-Sep Coho	17-Sep	17-Sep	17-Sep Coho	17-Sep	17-Sep	17-Sep Cono	17-Sep	17-Sep	17-Sep	17-Sep	17-Sep	18-Sep (	18-Sep	18-Sep Coho	0	18-Sep Coho	18-Sep	18-Sep	18-Sep	18-Sep	18-Sep	dac-o:	18-Sep	18-Sep	18.589	0-0-0	oco deco	0-0-0	19 500	de 0.00	18-Sep Coho	18-Sep Caho	18-Sep Coho	2 0	16-Sep Cono	18-Sep Cono	18-5ep	18-Sep Caho

Date	Species	Min	s'm's	Type	Tan	Comments	Rook & #	Hatchen
18-Sep	Sleehead	u.		¥ E	A.			
18-Sen	Steathead	N		N	***************************************			-
18. Con	opo C	u		M				
S.S.	18-Sep Coho	. u		¥ Z				
18-Sen	Steathead	. ₹		M				
8-Sep	18-Sep Coho	L		Ad				
18-Sep	Coho	Σ		Ad				
8-Sep	Coho	L		PA				
8-Sep	18-Sep Coho	4		Ad				
18-Sep	Coho	L		Ą			The state of the s	
8-Sep	18-Sep Coho	₹		ΡĄ				
18-Sep Coho	Coho	L.		₽				
18-Sep Coho	Coho	ч		Ad				
18-Sep Coho	Coho	ഥ		Ad				
18. Sep Cobo	Ocho	ц		. Ika	Blu 21907 ME			
8-Sep	18-Sep Coho	. -		P				
0 0 0	9	2		***	TAX BEST C. JO			
dac-o	2	<b>E</b>		2	JAN OCOLY DIO		00023000	
18-Sap	Coho	×	43	¥			38#5/223 1-41	Hatch
18-Sep	Coho	ч		Ad				
18-Sep	Coho	×		æ				
18-Sep	Coha	Ł		Ad				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
18-Sep	Coho	ıĿ		Σ				
8-Sep	Coho	L		Ad				
18-Sep	Coho	4		Μn				
18-Sep	Coho	4		ΨO				
18-Sep	Coho	M		Ad				
18-Sep	Coho	Σ		Ad				
8-Sep	Coho	14.		Ą				
8-Sep	18-Sep Coho	Σ		Αd	Whi 3113 MS			
18-Sep	Coho	Σ	41	¥			2-42	Halch
18-Sep Coho	Coho	Σ		ΡĄ				
18-Sep Coho	Cotho	Σ		ΡV				
18-Sep Coho	Coho	Σ		Pd				
8-Sep	18-Sep Caho	Σ		₹				Hatch
8-Sep	18-Sep Coho	ш		Ą	8lu 21757 MF			
18-Sep Coho	Caho	Σ		Αd				
8-Sep	18-Sep Caho	Σ		Αď				
18-Sep	Coho	Μ		Ad				
18-Sep Coho	Coho	۱4.		Ad				
8-Sep	18-Sep Sleethead	LE.		¥5				
8-Sep	18-Sep Coho	Σ		¥5				Hatch
18-Sep	Coho	×		₽₽				
8-Sep	18-Sep Coho	L		Ad				
18-Sep	Coho	ц		ΡĄ				
8-Sep	18-Sep Coho	Ŀ4.		Ad				
18-Sep	Coho	ii.		Ad				
0-7-R	18-Sep Coho	Σ		Ad				

Appendix I Upper Bulkley River Fish Fence 1999

To	natchery										Hatch				Hatch								Lloboh	Haten	Hatch	Hatch																							
Scale														***************************************						***************************************																													
Commonle	COMMISSION				Parasites																																												
Dorsal Fin	50													Blu 21536 MF					Rts 20411 NAF															Wht 3150 MS		Blu 22484 MF													
Mark	Ad	Pg	Ad	PA	Ad	Ad	PΥ	ΡY	Ad	Ad	MO	Ad	Ad	Σ	S	Ad	Αd	Ad	Ę.	200		2	Min i	i i	Win .	Μn	Ad	Ad	Σ	Ad	MO:	Ad	PV	Ad	NM	Ad	M	<u> </u>	Ad	Ad	Ad	Ad	MA	Ad LM	Ad	Ad	MN	MIN	Ad
Length*	\$ E																																																
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200000	Coho	Coho	Coho	Coho	Coho	Coho	Caho	Coho	Caho	Coho	Coho	Coho	Coho	Coho	Caho	Coho	Coho	Coho	040	2000	0,000	Cono	Cond	Cona	Coho	Coho	Coho	Соно	Sleelhead	Coho	Coho	Coho	Coho	Coho	9-Sep Whitefish	Coho	Stealbash	Coho	Coho	Coho	Coho	Coho	19-Sep Whitefish	Coho	Coho	Coho	19-Sep Whitefish	Whitefish	19-Sep Coho
	18-Sen	18-Sep(	18-Sep	18-Sep	18-Sep	18-Sep	18-Sep	18-Sep	18-Sep	18-Sep	18-Sep	18-Sep	18-Sep	18-Sep Coho	18-Sep Caho	18-Sep	18-Sep	18-Sep	18 Sep Cobo	1 September 1	000	18-Sep Cono	10-Sep Cond	dec-sel	18-Sep	18-Sep	18-Sep	18-Sep	19-Sep	19-Sep	19-Sep	19-Sep	19-Sep Coho	19-Sep Coho	19-Sep	19-Seo Coho	10.00	19-Sep	19-Sep Coho	19-Sep	19-Sep	19.Sep	19-Sep	19-Sep Coho	19-Sep Coho	19-Sep Coho	19-Sep	19-Sep	19-Sep

ĺ			1 1		200000000000000000000000000000000000000			
Date	Species	M/F	CITI'S	Type	Tag	Comments	Book & #	Hatchery
19-Sep Coho	Coho	Σ		UM RV			$\vdash$	
19-Sep Coho	Caho	L		NO	Blu 20333 MF			
19-Sep	Coho	Σ		Ad				
19-Sep Coho	Coho	×		Ad				
19-Sep	Steelhead	ц		SE C				
9-Ѕер	19-Sep Coho	Σ		Ad		Parasites		
9-Sep	Coho	Σ		P		***************************************		
19-Sep Coho	Coho	Σ		Ad	Blu 21904 MF			
19-Sep Coho	Coho	Σ	43	MO			3-43	Hatch
19-Sep Caho	Caho	ц	N/A	Ad				
19-Sep Caho	Coho	¥	38	NA			4-44	Hatch
19-Sep	Coho	4.	N/A	Ad				
9-Sep	19-Sep Whitefish		N/A	MIN.				
19-Sep	Coho	٤	N/A	Ad				
19-Sep	Coho	\$	N/A	. PY				
19-Sep Coho	Coho	ч.	N/A	Ad				
19-Sep	Coho	L.	ΝΆ	Ad				
19-Sep Coho	Coho	Σ	N/A	. Ad			i	
9-Sep	Caho	2	ν. Z	Ad	Wht 3052 MS			
9-Sep	19-Sep Whitefish	-	N/A	Win				
19-Sep Coho	Coho	Ŀ	N/A	Ad			- The second sec	
19-Sep Coho	Coho	1.	N/A	Ad				
19-Sep Coho	Coho	Σ	N/A	Ad				
9-Ѕер	19-Sep Steethead	LĻ.	N/A	UM				
19-Sep Coho	Coho	ı.	N/A	Ad				
19-Sep	Coho	u.	N/A	Ad				
19-Sep Coho	Coho	Σ	N/A	Ad				
19-Sep Coho	Coho	ட	N/A	MO				
19-Sep Coho	Coho	ш	N/A	Ad				
19-Sep Coho	Coho	Ŀ	ΥN	Ad				
19-Sep	Coho	Σ	Ϋ́	<u>≅</u>				Halch
19-Sep Coho	Cons	Σ	N/A	Ad				
19-Sep Coho	Coho	ı.	A/A	Ad UM RM				
19 Seol	Coho	u.	N/A	Ad				
19-Sep	Coho	Σ	N/A	Ad				
19-Sep(	Coho	Σ	N/A	Ad				
19-Sep	Coho	tL.	N/A	Win				
9-Sep	Whitefish	N/A	N/A	WS.				
9-Sep	19-Sep Coho	L	ΝΆ	WS				
19-Sep	Coho	ı.	N/A	Ad				
19-Sep	Coho	li.	V/Ν	Ad				
19-Sep Coho	Coho	u.	N/A	NA CM				
19-Sep	Coho	Μ	N/A	Ad				
9-Sep	19-Sep Steelhead	Σ	N/A	NO				
9-Sep	19-Sep Whitefish		N/A	M				

Appendix I Upper Bulkley River Fish Fence 1999

19-Sep Coho 19-Sep Whitelish 19-Sep Whitelish 19-Sep Whitelish 19-Sep Coho 19-	T M M M T K N M M M T M M M M M M M M M M M M M M M	N N N N N N N N N N N N N N N N N N N	<del></del>	Blv 20691 MF	Lower jaw damage damage Parasiles		
	T M M M T N M M M M M M M M M M M M M M	N N N N N N N N N N N N N N N N N N N			damage		
	M M A N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N			Parasites		
	M F M N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	<del></del>	Blu 20691 MF	Parasites	-3	
	M F M NIA M F M	NIA	<del></del>	Blu 20691 MF	Parasites		
	T N N N N N N N N N N N N N N N N N N N	NIA	<del></del>	Blu 20691 MF	Parasites		
	M F M F F F F F F F F F F F F F F F F F	NIA	<del></del>	Blu 20691 MF	Parasites		
	MAN A MA	NIA	<del></del>	Blu 20691 MF	Parasites		
	M F M F F	NIA		Blu 20691 MF	Parasites		
	M T M T M T	NIA		Blu 20691 MF	Parasites		
	T W T W	NIA		Blu 20691 MF	Parasites		
	N/A F F	NIA		Blu 20691 MF	Parasiles		
	\$ u ∑ u	NIA		Blu 20691 MF	Parasites		
	т <u>Б</u> т	A N N N N N N N N N N N N N N N N N N N		Blu 20691 MF	Parasites	And the same of th	
	Σu	N N N N N N N N N N N N N N N N N N N		Blu 20691 MF	Parasites		
	F	AN AN AN A	<del>                                      </del>				
		ANA ANA	PA P				
	Ŀ	N/A N/A	PA PA PA				
	Σ	N/A	Ad Ad	The second second section is a second section to the section to the second section to the sect			
	Ŧ	M/A	Ad	wide With the line of the last care of the line of the			
	F	CIAL	PA PA				
	L	W/A	ΡĄ				
	٤	N/A					
	Σ	N/A	Ad LM		Parasites		
	Σ	N/A	Ad				
	Σ	N/A	Ad				
	4	N/A	Ad				
	N/A	A/A	ž				
Ш	u	N/A		Blu 20906 MF			
	ΑN	N/A	MO				
-Sep Coho	Ŀ	A/N	PA				
19-Sep Coho	Σ	V/V	PA				
19-Sep Coho	Σ	N/A	ΨĎ				
20-Sep Coho	Σ		MO				
20-Sep Whitefish			ΜĐ				
20-Sep Coho	Ŀ		ΜŌ				
20-Sep Steethead	F		MU				
20-Sep Coho	F		ΜO				
20-Sep Coha	ž		Ad				
20-Sep Steelhead	ı		ΜĐ				
20-Sep Coho	ч		Ad				
20-Sep Caha	Σ		Ad				
20-Sep Coho	ŭ.		Ad				
0,000	Ь		_	OL. 24727 ME			
20-Septomo	٠ :		7	BIU 21/3/ MF			
20-Sep Cono	2		Ag.				
olon des no	- :		2				
20-Sep Steelhead	Σ:		ω O		,,	and street or the street of th	The state of the s

Date	Species	<b>3</b> /15	cm's	Tvne	Tag	Comments	Book & #	Hatchery
20-Sep (	Coho	F		Ad	and the second s			
ou-Sep Coho	Coho	Σ		Ad	8h, 21122 ME			
20-Sep Coho	Coho	<u>_</u>		PA	Wht 3044 MS			
20-Sep	Coho	ч		MN				
20-Sep Coho	Coho	Σ		Ad	Wht 8374 MS			
20-Sep Coho	Coho	F		Ad		The same of the sa		
20-Sep Coho	Coho	W		Ad				
20-Sep	Coho	M		Ad				
20-Sep Coho	Coho	Σ		Ad				and the second second second
20-Sep Coho	Coho	ш	62	MO	Green No # TP	Fork Length		
20-Sep Coho	Coho	Σ		PA		Damaged Max & Eve		
20-Sep	Coho	×		Ad				
20-Sep	Coho	L		Ad				
20-Sep Coho	Coho	4		MA				
20-Sep	Coho	Ŀ		Ad				
20-Sep	Coho	Σ		Ad				
20-Sep	Coho	u		¥5				
20-Sep	Coho	Σ		Αd				
20-Sep	Coho	u		Ad				-
20-SepiCoho	Coho	Σ		M	Blu 21934 MF			
20-Sep	Coho	Ŀ		Ad				
20-Sep	Coho	L		ΨΩ				
20-Sep	Coho	M		UM RM				
20-Sep	Coho	F		Ad				
20-Sep Coho	Coho	F		MO				
20-Sep Coho	Coho	4		Ad				
20-Sep Coho	Coho	F		UM RM/LM				
20-Sep Coho	Coho	ч		Ad	Blu 22394 MF			
20-Sep Coho	Coho	ı		Ad				
20-Sep	Coho	æ		Ad				
20-Sep	Coho	4		Ad				
20-Sep Coho	Coho	¥		UM RM		Parasites		
20-Sep	Coho	4		Ad				
20-Sep Coho	Caho	Ł		Ad				
20-Sep Caho	Coho	Ŀ		Ad				
20-Sep Coho	Coho	ž		Ad				
20-Sep Coho	Coho	٦		Ad	- Andrews - Andr			
20-Sep Coho	Coho	×		Ad				
20-Sep Coho	Coho	٤		UM RM				
20-Sep Coho	Coho	F		Ad				
0								
70-Sep	20-Sep Coho			Ad				

Appendix I

Upper Bulkley River Fish Fence 1999

	To Hatchery													•																												
	Scale Book & #							•																																		
<u>:</u>	Camments																																									
. [	Dorsal Fin Tag	Blu 21827 MF		Blu 20285 MF				Blu 20419 MF			Wht 8116 MS										Whit BOB5 MS	Blu 20573 MF			Blu 20528 MF			Tag Loss TP														
	Mark Type	Ad	Ad	Ad	MO	UM RM	Ad	W.	PΨ	M.	Ą	PMO	Ad	N	Ad	Ad	Ad	Ad	PA	UM RM	Ad	PΑ	Ad LM	UM RM	PY	Ad	Ad	Ad	MQ.	2	Ad	PA	PA	NO.	UM	NA N	NA O	Win I	<b>X</b>	W C	WS.	E S
na indida	Length* cm's								-					470	4																			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	MF	Σ	Σ	Σ	Σ	F	Ь	Σ	ŀ	Σ	ц		Σ	V/V	2	u	Z	F	Σ	F	M	Σ	F	æ	Σ	F	M	Σ	Z	_	~		Ŀ	N/A	N/A	N/A	N/A	N/A	- 1		N/A	
vibuaddu	Species	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	20-Sep Steelhead	Coho	Steelhead	20-Sep Coho	Northern	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Caho	Coho	Caho	Coho	Coho	20-Sep Coho	Coho	Coho	20-Sep Whitefish	Whitefish	20-Sep Whitefish	20-Sep Whitefish	20-Sep Whitefish	20-Sep Whitelish	20-Sep Whitefish	Whitetish	Whitensh
	Date	20-Sep	20-Sep Coho	20-Sep	20-Sep Coho	20-Sep Coho	20-Sep Coho	20-Sep Coho	20-Sep	20-Sep	20-Sep	20-Sep	20-Sep	00000	20-Sep Cobo	20-Sep Coho	20-Sep	20-Sep	20-Sep Coho	20-Ѕер Соно	20-Sep Coho	20-Sep Coho	20-Sep	20-Sep Coho	20-Sep Coho	20-Sep	20-Sep Coho	20-Sep	20-Sep	20. Sap	20-Sep	20-Sep	20-Sep	20-Sep	20-Sep	20-Sep	20-Sep	20-Sep	20-Sep	20-Sep	20-Sep	70-Sep

Upper Bulkley River Fish Fence 1999 Appendix (

1	30000	2	cm.	902	90	Comments	300K	
20-Sep	Whitefish	Ϋ́N	¥N.	Z S				
20-Sep	Whitefish	N/A	N/A	ΜΩ				
20-Sep	Whitefish	Y/A	N/A	M				
20-Sep	20-Sep Whitefish	N/A	N/A	MIN				
20-Sep	20-Sep Whitefish	N/A	W/A	W5				
20-Sep	20-Sep Whitefish	N/A	N/A	MO				
20-Sep	Coho	ı	N/A	Ad				
20-Sep Coho	Coho	L	N/A	Ad				
20-Sep Coho	Coho	Σ	N/A	Mu				
20-Sep Coho	Coho	Σ	N/A	Ad				
20-Sep	Coho	Σ	N/A	Ad				
20-Sep	20-Sep Coho	۱	N/A	Ad		Parasites		
20-Sep Coho	Coho	<b>L</b>	ΝΆ	Ad				
20-Sep	Coho	u	N/A	Ad	- Company of the Comp			
20-Sep	20-Sep Coho	Z	N/A	Ad				
20-Sep	Coho	Σ	N/A	Ad				
20-Sep	20-SepiCoho	Σ	N/A	Ad				
20-Sep Coho	Coho	L	N/A	MS				
20-Sep	20-Sep Steelhead	Ŀ	N/A	MA				
20-Sep Coho	Coho	Σ	N/A	Ad				
20-Sep Coho	Coho	L.	ΑN	Ad		Parasiles		
20-Seo Coho	Coho	u	A/A	MD				
20-Sen Coho	Coho	. .	N/A	PA				
20.Sep Coho	Coho	2	¥/N	Ad				A COLUMN TO A COLU
20. Seo Coho	Coho	u	N/A	MI				
Sec Coho	Coho	. 2	N/A	Ad				- Parties
20-Sep Coho	Coho	L	N/A	Ad				
20-Sep Coho	Coho	. 4	N/A	Ad				
20.Sen	20.San Staethead	- 2	N/A	W				
Section of	Opposite Control		N/A	70				
Son Sen Coho	2002	-	S S S	2				
200	2 1	-	VIII	2 2				
des-07	Cono		¥ 4	DY Y				
ZU-Sep	Cano	ا ا	Y/N	2				
20-Sep	Caho	-	N/A	δ				
20-Seo Coho	Coho	ù.	N/A	EIM RM	Btu 21821 MF			
20-Sep	Coho		N/A	Ad				
20-Sep Steelh	Steelhead	L	N/A	Μ				
20-Sep	Coho	L	N/A	Ad				
20-Sep	Coho	Σ	N/A	Ad				
20-Sep Coho	Coho	u	N/A	Ad				
20-Sen	Coho	L	N/A	Ad				
20.Sen	20-Sep Coho	. 4	N/A	M		Parasites		
20-Sen Coho	Cobo	. 2	N/A	M				
20-Sep Coho	Coho	<u> </u>	N/A	Ad				
20-Sen Coho	Coho	Σ	N/A	Ad				
20-Sep	Coho	Σ	VX VX	Ad				
20-Sept	Coho	L	NA	Ad	- Contraction of the Contraction			
20-Sen	Cobo	. ≥	N.N	Ad				
Olog day of	2	E		2				
		u		7				

opendix 1 Gover Bulkley River Fish Fence

		<b>,</b>				·																				_															_					
	To Hatchery														2000								-																							
	Scale Book & #												5.45										İ						6-46														7.47			
1999	Соттепт											-								Parasites						-				Parasites																
Upper Bulkley River Fish Fence	Dorsal Fin Tag		Org 2155 MS	Blu 21258 MF	Blu 21036 MF							- Constant																					-						Blu 21829 MF				Rh. 21463 MF			
Ikley Rive	Mark Type	ΜŊ	Ad	MO	Ψ'n	Ad	Ad	ΡY	UM RM	¥ S	Pd.	2 2	2 2	Ad	Ad	Ad	Ad	Ad	Ad	Ad	P	Ag	Ad	Ad	UM RM		Ad EV	PA	MO	Ad	Ad	Ad	Ad	Ad	Ad .	2	2	PA	Ad	UM RM	Ad	Ad	184	Ad	Ad	Ad
Upper Bu	Length* cm's	N/A	NIA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	X 2	<u> </u>	Y.X	NA	N/A	N/A	N/A	A/A	NA	N/A	NA	Y.Y	K/N	N/A	A/V	N/A	N/A	50	N/A	N/A	N/A	V/A	N/A	V/V	X X	C S	A/A	N/A	N/A	N/A	N/A	5	N/A	N/A	N/A
	M/F	Σ	×	۲.	Σ	Σ	L	ч	Œ	Σ	<u>.  </u>	- 1	_		Σ	Ŧ	M	F	æ	æ	<b>LL.</b>	۲.	Σ ι	<u>.</u>	4		u	. 4	×	Ŧ	F	<u>.</u>	Σ	-	٠.	٤ 2	Ξ.	Σ	щ	ш	F	Σ	ш	Ŀ	≅	N
Appendix I	Species	Steethead	Coho	Coho	Coho	Caho	Coho	Coho	Caho	Steelhead	Coho	S S S	Copie	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Cono	0 000	Coho	Caho	Caho	Coho	Coho	Coho	Cono	Cono	Cono	2000	Cono	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho
	Date	21-Sep	21-Sep	21-Sep Coho	21-Sep Coho	21-Sep	21-Sep	21-Sep	21-Sep	21-Sep	21-Sep	dec-17	21-San	21-Sep	21-Sep	21-Sep Coho	21-Sep	21-Sep	21-Sep	21-Sep	21-Sep	21-Sep	21-Sep	21-Sep	21-Sep	2000	21-San	21-Sep	21-Sep	21-Sep	21-Sep	21-Sep	21-Sep	71-Sap	21-Sep	2Sep	di 2	des-17	21-Sep	21-Sep	21-Sep	21-Sep Coho	21.Sea Coho	21-Sep Coho	21-Sep	21-Sep Coho

Date	Species	¥.	cm;	Type	Tag	Comments	Book & #	Hatchery
21-Sep	Coho	u.	N/A	Ad				
21-Sep	Coho	LL.	43	S	-		8-48	
21-Sep	Coho	L	N/A	Ad				
21-Sep	Coho	ш	ΝΆ	Ρď				
21-Sep	Steelhead	×	N/A	Ψ'n				
21-Sep	21-Sep Coho	Σ	ΝA	Αd				
21-Sep	Caho	Σ	N/A	M				
21-Sep	Coho	Σ	N/A	ME		Parasites		
		:						
23-Sep	21-Sep Coho	æ	¥.	Ad	Wht 8028 MS			
21-Sep	Coho	ш.	N/A	Ad				
Sep-22	Соно	ı.		Ad				
Sep-22	Coho	Ŀ		Ad				
Sep-22	Coho	Σ		Ad				
Sep-22	Coho	Ŀ		Αd	Blu 22061 MF	parasites		
Sep-22	Coho	Ŀ		Ad		parasites		
Sep-22	Coho	4		Ą				
Seo-22	Coho	Σ		Ad				
Sec-22	Coho	L		M	Btd 22236 MF			
200.00	Copo	. u		IWI	BL. 22028 ME			
Sch-zz	2000	-		NO.	DIA SZOZZ NIO			
77-dac	Cono	-		2				
29p-72	Cono	Σ		Ad				
Sep-22	whitefish			Σ				
Sep-22	Coho	ш		5				
Sep-22	Coho	<b>1</b> .		Ad				
Sep-22	Coho	Σ		Αd				
Sep-22	Steelhead	1		M				
Sep-22	Steelhead	ш		MΩ				
Sep-22	Coho	14		Ad				
Sep-22	Caho	u.		MA C				
Sep-22	Coho	u.		Ad				
Sep-22	Coho	Ŀ		Ad				
Sep-22	Coho	Σ		Ad				
Sep-22	Steelhead	ц.		T I				
Sep-22	Coho	×		Ad				
Sep-22	Coho	u		Ad				
		-			White 3051			
Sen-22	Speathead	V		L EBA	MS TP			
Sen-22	Steelbead	2		W				
0000	Ctoolbook	-		III				
22 400	Steel lead	- 6		N N	0000000000	744	and the second	
77-dac	Cleantean	- :		M	DI OWNESSEDS	Mor		
26p-77	Cono	Ξ		MS .	BIU ZUBS4 MF			
Sep-22	Coho	ц.		Ad				
Sep-22	Coho	×		UM RM				
Sep-22	Steelhead	u.		Μ'n	brown23063	MoE		
Sep-22	Steelhead	u.		MN				
Sep-22	Coho	Σ		UM RV				
Sep-22	Coho	Ŀ		Ad				
Sep-22	Coho	Σ		Ad				
Con 22								
22.000	Whatersh			¥5				

Appendix I Upper Bulkley River Fish Fence 1999

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Appendix I Upper Bulkley River Fish Fence 1999

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Sep-23 Coho	-	M		Ad	Tag Loss TP			
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Sep-23 Coho		ı		₽				
Sep-23 Coho	_	4		UM RM				
Sep-23 Steel	Steelhead	æ		MΩ				- Anna Carles and Anna Carles
Sep-23 Coho		z		PΥ	Blu 21217 MF			
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Sep-24 Coho		11.		MO		Seine		
Sep-24 Coho		Σ		AW IV		Seine		
Sep-24 Colto		Σ		UM LV	Blu 21807 MF	Seine		
Sep-24 Steelhead	head	4		ΩM		Seine		
Sep-24 Steelhead	head	Σ		ΜO	bm21089 MS	Moe Seine		
Sep-24 Steelhead	head	4		ΜO	brn23021 MS	Moe Seine		
Sep-25 whitefish	fish							
Sep-25 whitefish	fish							
Sep-25 whitefish	fish							***************************************
Sep-25 whitefish	lsh i							
Sep-25 whilefish	fish							

Appendix 1 Upper Bulkley River Fish Fence 1999

Scale To Comments Book & # Hatchery				***************************************																			-				Hatch	Halch	Hatch	Hatch	Hatch	Hatch	Hatch	Hatch	Halch	Halch	Laten	SB#57224	1-41		2-42 Halch	Hatch	3-43 Halch		4-44 Hatch		-		
				-											Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	Seine	aulac	Seine											
Tag																													Blu 21658 MF																				
Mark											Ad																M	Ad	Ad	ΨĎ	UM RM	Z .	Ad	PG .	S.	Ad	NY Y	Ad	Ad	AT WO	W)	UM RM	PA	Ad	SW)	UM RM		OM	Ad
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Species	whitefish	whitefish	whitefish	whitefish	whitefish	whitefish	whilefish	whitefish	whilefish	whitefish	Coho	no fish	no fish	no fish	whitefish	whitefish	Sep-29 whitefish	whitefish	Sep-29 whitefish	whitefish	whitefish	whitefish	whitefish	whitefish	Sep-29 whitefish	whitefish	Coho	Coho	Coho	Coho	Coho	Coho	Coho	Coho	ouo	Cono	Carlo	cono	Saho	Coho	Coho	Soho	Coho	Catro	Scho	Coho		Coho	Coho
Date	25	Sep-25 v	Sep-25 v	Sep-25 v	Sep-25 v	Sep-25 v	Sep-25N	Sep-25 v	Sep-25 v	Sep-25 v	Sep-25 (	Sep-26 n	Sep-27 n	Sep-28 n	Sep-29 v	Sep-29 v	Sep-29 v	Sep-29 v	Sep-29 v	Sep-29 v	Sep-29 v	Sep-29 v	Sep-29 v	Sep-29 v	Sep-291	Sep-29 v	Sep-29 (	Sep-29 (	Sep-29 (	Sep-29 (	Sep-29 Coho	Sep-29 (	Sep-29 (	Sep-29	Sep-29 Cono	Sep-29 C	Sab-cac	Sep-29 Cono	Sep-29 Coho	Sep-29 (	Sep-29 (	Sep-29 Coho	Sep-29 (	Sep-29 (	Sep-29 Coho	Sep-29 Coho		Sep-29 (	Sep-29 (

Sep-30 C Sep-30 C Sep-30 C Oct-01 C	Coho	u						
Sep-30 C				<b>∑</b>				Hatch
Sep-30 C	Coho	L	51cm	Ad	Pur 9113 MS		8-48	
Oct-01 C	Coho	×		Ad			10-50	Halch
0,150	Coho	Ŀ		Wn	wht8473 MS			
21210	Coho	F		Ad				
	sockeye	Σ		S				
Oct-01 C	Coho	F		Ad				
Oct-01[C	Coho	F		Ad				
Oct-01 C	Coho	W		Ad				Hatch
Oct-01C	Coho	u.		M		parasites		
Oct-01 C	Coho	Σ		Ad	Blu 21975 MF			Halch
Oct-01 C	Coho	Σ	And the second second second	Ad				Hatch
Oct-01 C	Coho	Ŀ		Σ				Hatch
Oct-01 C	Coho	4		Ad				
Oct-01 C	Coho	Σ		UM RM				Hatch
Oct-01/C	Caho	4		Ad				
Oct-01 C	Coho	Ŀ		Ad				
Oct-010	Coho	Σ		Ad				Hatch
Oct-01 C	Coho	Σ		M	Whi8332 MS			Hatch
Oct-01 C	Coha	u.		UM RM				Hatch
Oct-01C	Coho	Ŀ		Ad				Hatch
Oct-01 C	Coho	æ		Ad				Hatch
Oct-01 C	Coho	L.		Ad				- American
Oct-011C	Coho	Ŀ.		Ad		parasites		
Oct-01C	Coho	4		UM RM				
Oct-02	Coho	ĭĿ		Ad				
Oct-02 w	whitefish			M				
Oct-02 w	whilefish			WO				
	Brought back to hatchery	ok to hat	chery					
Oct-04								
Oct-05 Coho	ouo	u.		Ad				
Oct-06 C	Coho	Ľ.	53cm	Ad	Whi8269 MS		SB#57225 1-41	Hatch
Oct-06 C	Coho	ш	53cm	Ad			2-42	Hatch
Oct-06	Coho	Ŀ	49.5cm	Ad	Pur9130 MS		3-43	Hatch
Oct-06 C	Coho	L	46cm	Ad			4-44	Halch
Oct-06 C	Coho	Ŀ		Ad		parasiles		
Oct-06 C	Coho	Ŀ	51cm	Ad			5-45	Halch
Oct-06 C	Coho	Σ	48.5cm	Ad			9-49	Halch
Oct-06 C	Coho	Σ		MO		1st seine		Hatch
Oct-06 C	Coho	Ŀ		Ad		Seina		Hatch
Oct-06	Coho	Ŀ		Ad	grey 8272 MS	Seine		Hatch
Oct-06	Coho	Σ		Ad		Seine		Hatch
Oct-06 C	Caho	ı.		Ad	Blu 6499 MS	Seine		Hatch
Oct-06 C	Coho	F		UM		Seine		Hatch
Oct-06 C	Coho	Σ		Ad		Seine		Hatch
Oct-06	Coho	Ŀ		ΜΩ		Seine		Hatch
Oct-06 C	Coho	Ŀ		Ad		Seine		Hatch
Oct-06	Coho	٢		Ad		Seine		Hatch
Oct-06	Coho	×		Ad		Seine		Hatch
Oct-06 Coho	oho	i.		Ad		Seine	7-47	Hatch

Appendix I

Upper Bulkley River Fish Fence 1999

	Ad Ad RM Ad RM Ad		Seine		Hatch
	Ad				
	Ad		Sema		Hatch
	Ad RM Ad NM OM Ad Ad	Blu 6265 MS	Seine		Hatch
	Ad		Seine		Hatch
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	Ad Ad Ad Ad		Seine		Hatch
	Ad Ad		Seine	8-48	Hatch
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	Ad		Seine	9-49	Halch
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Σ	Ad		Seine		Hatch
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_			Seine		
	Ad	Blu 6358 MS	Seine		Halch
			Seine		
			Seine		
L.	Ad		2nd seine		Hatch
Σ	PA		Seine		Hatch
æ	Ν'n		Seine		Hatch
2	Wn n		Seine		Hatch
L	PΥ		Seine		Hatch
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<u>L</u>	ΜΩ		Seine		Hatch
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Upper Bulkley River Fish Fence 1999 Appendix I

00	Species	M/F	Length- cm's	Mark Type	Dorsal Fin Tag	Comments	Scale Book & #	To Hatchery
CCI-DD	Caho	Ŧ		Ad				
Oct-08	Coho	¥		ΜŌ				
Oct-08	Caho	F		Ad				
							SB# 57226 1-	
Ocl-11		Σ	59cm	Σ			41	
	Coho	ا	57cm	Ą			2-42	
	copo	-	59cm	Ad			3-43	
11-130		-	45cm	Ad:			4-44	
Oct-11		- -	50cm	8			5-45	
Oct-11	Coho	×	54cm	Σ O			6-46	
Oct-11	Coho	٤	50cm	Σ			7-47	
Oct-11		٦	53cm	Αď	22181 MF		8-48	
Oct-11		ı.	53cm	Ad			6-46	
Oct-11	Coho	×	39cm	Ą			10-50	-
Oct-11		¥		Ad	Pur 9243 MS			
Oct-11		Σ		Ad				
Oct-11	Coho	Ŀ		MO				
Oct-11	Coho	Ŀ		Ad		parasites		
Oct-11	Coho	Σ		Ad	Btu 01485			***************************************
Oct-11	Coho	Σ		Σ				
Oct-11	Coho	Ŀ		Ad				
Oct-11	Coho	Σ		Ad				
Oct-11	Coho	ı		Ad	A.A. (P.) (A. 1 a.A.) (B. 1 a.A.)			
	Coho	Σ		Ψ'n				-
Oct-11	Coho	Σ		Ad				
Oct-11	Coho	F		Ad	Btu 21335 MF			
	Coho	F		UM RM				
			-					
Oct-11		٤		NA C				
Oct-11	Coho	ц		<b>₩</b>				
	Coho	×		ΡĄ				
	Conso	Σ.		Ad				
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3		_		2				The Section of Security of the Section of the Secti
Oct-18 Cobo	5	Σ	50cm	Ad 8M			SB# 57227	
Oct-18	Coho	Σ	42cm	Ad			2-42	
Oct-18	Coho	F	52cm	Ad	***********		3-43	
Oct-18	Coho	×	46cm	UM RM			4-44	
Oct-18	Coho	u	54cm	Ad			5-45	
Oct-18	Coho	×	56cm	MΩ			9-46	and the spiritual of the sample and
Oct-18		u	48cm	Ad			7-47	
Oct-18	Coho	×		Ad	604BB MS			
Oct-18		L.	57cm	Ad			8-48	
Oct-18	Coho	Σ		Ad			-	
	Caho	ч		Ad		parasites		
Oct-18 Coho	Coho	Σ	54cm	MΩ			9-49	
Oct-19	Coho	Ŀ	54cm	Ad	A Company of Committee of Commi		10-50	

Appendix I Upper Bulkley River Fish Fence 1999

Date	Species	M/F	Lengin-	Type	Tag	Comments	Book & #	Hatchery
Oct-20	Coho	Z		MO				+
Oct-20	Coho	u.		Ad				
Oct-20	Coho	F		Ad				
Oct-20	Coho	ч.		Ad				
)ct-20	Oct-20 Coho	Ŀ		Ad				
Oct-21	Coho	Z		Ad				
Oct-21	Coho	Σ		Ad				
5	Coho	Σ		Pg .				
Oct-21	Coho	Σ		Ad	Org 5012 MS			
ct-21	Oct-21 Coho	Σ		MU.				
Oct-21	Coho	_		Ad		parasites		
Oct-21	Coho	4		Ad	Blu 121952 MF			
Oct-21	Coho	_		Ad				
0ct-21	Caho	2		PA .				
5-21	Coho	u.,		PA				
Oct-21	Coho	Σ		Αď				
Oct-21	Coho	4		WΩ				
ct-21	Coho	ш		A MO				
Oct-21	Coho	Ŧ		A				
Oct-21	Coho	u.		Ad				
Oct-21	Coho	25		Ad				
100	ode C	2		1				
001.01	0400	u		٩٩				
1000	2000	. 4		٧٩				
10.10	200	, M		٨				
Oct-21	Coho	L		PA P				
Oct-21	Coho	. 2		Ad				
cl-21	Coho	u		71 WIT				
100	o Po			٨٨				
200	2 2 2			3				
7-12	Collo	<b>E</b> :		2				
CCI-27	Cono	Σ		P4				
Oct-21	Coho	ш		5	Org 5057 MS			
2-5	Cono	_		Ad				
Oct-21	Caho	Ŀ		UM RM				
ct-2	Oct-21 Coho	ъ		ΣĎ				
ct-2:	Coho	F		ΨĎ				
Oct-21	Coho	ч		Ad				
Oct-21	Caho	Ŀ		Ad				
Oct-21	Coho	4		MO				
Oct-21	Coho	4		Ad				
Oct-21	Coho	Σ		MΩ				L
Oct-21	Coho	Σ		Ad				
Oct-21	Coho	Σ		Ad				
Oct-21	Coho	Σ		NM IV				
Oct-21	Coho	Σ		Ad	White the state of			
Oct-21	Coho	Σ		Ad				
Oct-21	Coho	4		Ad				
Oct-21	Coho	ч		Ad		parasites		
Oct-21	Coho	. 2		Ad				
1	Oct-21 Coho	u						
3				AG	_		_	_

Date Species	ies	M/F	Length*	Mark Type	Dorsal Fin Tag	Comments	Scale Book & #	To Hatchery
1		Σ		PA				-
Oct-21 Coho		Z		Ad				
Oct-21 Coho		4		ΡĄ				
Oct-21 Coho		u.		Ad				
	١	ш.		Ad				
Oct-21 Coho	Ĺ	Σ		Š				
Oct-21 Coho		Σ		PΑ				
Oct-21 Coho	١	Σ		MN				
Oct-21 Coho		L		ΡĄ				
Oct-21 Coho	١	Ŀ		UM RM				
Oct-21 Coho		L		Ad		Seine		
Oct-21 Coho		ш		MO		Seine		
Oct-21 whitefish	fish					Seine		
Oct-21 Coho		u		Ad		Seine		
Oct-21 Coho		Σ		Ad		Seine		
Oct-21 Coho		Z		Ad	grey 8343 MS	Seine		
Oct-21 Coho		u.		Wn n		Seine		
Oct-21 Coho		Σ		Ad		Seine		
Oct-21 Coho		Z		Ad		Seine		
Oct-21 Coho	_	≊		Ψ'n		Seine		
Oct-21 Coho		L.		Ad		Seine		
Oct-21 Coho		Σ		Ad		Seine		
Oct-21 Coho		Σ		Ad		Seine		
Oct-21 Coho		Σ		Αd		Seine		
Oct-21 Coho		Σ		Ad		Seine		
Oct-21 Coho	0	ᄕ		Ad		Seine		
Oct-21 Coho		ш		Ad		Seine		
Oct-21 Coho		≊		Ad		Seine		-
Oct-21 Coho		Σ		Ad		Seine		
Ocl-21 Coho		ı		Ad		Seine		
Oct-21 Coho		Σ		S		Seine		
Oct-21 Coho		ا د		Ad		Seine		
Oct-21 Coho		Σ.		Yd.		Seine		
Oct-21 Coho		Σ.		Pe		Seine		
Oct-21 Coho		Σ				Seine		
		- :			1	Seine		
Oct-21 Coho		2		8	BIN 22240 MF	Seine		
Oct-21 Cono		2		P P P	DIU ZZUSE WF	Seine		
Oct 24 Coho		2		3		Coino		
Oct-21 Coho	Ţ	2		70		Spine		
Oct-21 Coho	Ţ,	Ļ		4		pa	Spine	
Oct-21 Coho	Ţ	. _		Ad		Seine		
Oct-21 Coho				PR		Seine		
Oct-21 Coho	ļ	L		₽		parasites Seine	eui	
Oct-21 sockeye	eye	Σ				Seine		
Oct-21 sockeye	вуе	¥		PΥ		Seine		
Oct-21 sockeye	eye	u		Ad	8lu 6738 MS	Seine		
Oct-21 sockeye	еуе	Σ		Ad	Pur 9167 MS	Seine		
Oct-21 sockeye	eye	Σ		MO	Blu 6192 MS	Seine		
Oct-21 sockeye	eye	Σ		Ad		rip in jaw Seine	sine	

Appendix I

Upper Buikley River Fish Fence 1999

Date	Species	M/F	Length- cm's	Type	Dorsal Fin	Comments	Scale Book & #	Hatchery
Oct-21		L		₩ O		Seine		-
Oct-21	sockeye	Σ		Ad		Seine		
Oct-21		ш		PY		Seine		
Oct-21	sockeye	F		Ad		Seine		
Oct-21	sockeye	F		Ad	Blu 01108	Seine		
Oct-21	dolly/bt	Σ		Ađ		Seine		
Oct-21	dolly/bt	Σ		ΡV		Seine		
Oct-21	Coho	Ľ		Ad	Blu 20365 MS			
Oct-21	Coho	Σ		Ad		Seine		
Oct-21	Caho	Σ		Ad	6420 MS	Seine		
Oct-21	Coho	L.		Ad		Seine		
Oct-21	Coho	ட		Ad		Seine		
Oct-21	Coho	F		MO		Seine		
Oct-21	Coho	Σ		Ad		fungus seine		
Oct-21	Coho	Σ		UM RM	밂	Seine		
Oct-21	Coho	Σ		Ad	Pur 9194 MS	Seine		
Oct-21	Caho	Ŀ		Αd		eyeball problem Seine	lem Seine	
Oct-21	Caho	Σ		Ad		Seine		
Oct-21	Coho	u.		<b>≅</b>	Pur 9235 MS	Seine		
Oct-21	Coho	14.		PΨ		Seine		
Oct-21	Coho	Σ		<b>\$</b>	Pur 9250 MS	Seine		
Oct-21	Coho	۲,		Ad		Seine		
Oct-21	Coho	×		Αd		Seine		
Oct-21	Coho	×		₩)		Seine		
Oct-21	Coho	Ŀ		Ad	Blu 21331 MF	Seine		
Oct-21		Σ		ΡV		Seine		
Oct-21	steelhead	4		Ad		Seine		
Oct-21	Coho	F		PΥ		Seine		
Oct-22	Coho	Σ		Ad			***************************************	
Oct-22	Coho	Σ		Ad	BIU 21092 MF			
Oct-22	Coho	₽		WΩ				
Oct-22	Coho	u		ΡP				
Oct-22	steelhead	Σ						
Oct-22	Coho	Σ		UM RM			İ	
Oc1-22	Coho	Ŀ		Ad				
Oct-22	Coho	F		Ad	Blu 21381			
Oct-22	Coho	W		MO				
Oct-22		ч		PΑ				
Oct-22	Coho	ı		Ad				
Oct-22	sleelhead	Σ		พก				
Oct-22	Coho	ட		Pγ				
Oct-22	Coho	F		MO				
Oct-22	Соно	Σ		Αd				
Oct-22	Coha	Σ		Ad				
Oct-22	Coho	Σ		Αd	Blu 22449 MF			
Oct-22	Coho	Ŀ		Ad				
Oct-22	Coho	Σ		Mn				
Oct-22	Coho	Σ		Ad		parasiles		
Oct-22	Coho	æ		Ad				
Oct-22	Coho	Z		Ad				

Upper Bulkley River Fish Fence 1999 Appendix I

			rengar	No Cal	DOISAI FIR		2000	2
Date Species	cies	M/F	cm;s	Type	Tag	Comments	Book & #	Hatchery
Oct-22 Coho		F		Ad LV				
Oct-22 Caho		Σ		Ad	Blu 21116 MF			
Oct-22 Coho	_	Σ		Å				
Oct-22 Coho		ш		Ad	Whi 3030 MS			
Oct-22 Coho		Z		Αd				
Oct-22 Coho	_	Ž		Ad				
Oct-22 Coho		Σ		Ad				
Oct-22 Coho		Ł		Αď				
Oct-22 Coho	ļ	Σ		5				
Oct-22 Coho	_	4		PY				
Oct 23 no fish	ş,							
Oct-24 no fish	- L							
Oct-25 no fish	ş,							
Oct-26 Coho		L		Μ'n				
Oct-26 Coho		ı.		M				
Oct-27 no fish	rg Lg							
28-Oct Coho		Σ				Mill/egss Se	Seine	
28-Oct Coho		Σ				MilVegss Se	Seine	
28-Oct Coho	0	M					Seine	
28-Oct Coho	•	M				will/egss Se	Seine	
28-Oct Coho	0	F					Seine	
28-Oct Coho		ш.				Mill/legss Se	Seine	
28-Oct Coho	٠	F				MilVegss Se	Seine	
28-Oct steelhead	head	×				Seine		
28-Oct dolly/bt	/bt					Seine		
28-Oct dolly/bl	JQ.					Seine		
28-Oct dolly/bl	lg/					Seine		
28-Oct Whitefish	efish	×75				Seine		
Oct-29 no fish	l ys							
Oct-30 Ino fish	tls.							
400 000 100	4							

Nov-01 Pulled Fence

Left Ventral Clip Right Ventral Clip Left Max Clip Right Max Clip Urimarked Terms: RV LV LM L UM F

\*Length: For Coho For Steehead

Post Orbital Hypeural Length from back of eye to Caudal Peduncla "Fork Length"; Nose Fork Length; from tip of nose to 'v' of fork on tail.

## Appendix II Dead Pitch

Date Species			Su mar	
2-Sep Chinoak	٦		Adipose Absent	
2-Sep Chinook			Adipose Absent	
3-Sep Pink	2	NA		
3-Sep Pink		N/A		
4-Sep Chinook			Pil/M	
4-Sep Chinook			Wild	
4-Sep Chinook			Wild	
4-Sep Chinoak	П		Mild	
4-Sep Chinaok	×o ¥o		Mild	
4-Sep Chinook			Wild	Right Operculum Punch
5-Sep Chinook	K M		PIM	
5-Sep Chinook			Adipose Absent	
5-Sep Chinook			Wild	
5-Sep Chinook			Adipose Absent	
5-Sep Chinook			Adipose Absent	
6-Sep Chinook			Pily	
6-Sep Chinook	ok M		Wild	
6-Sep Chinook			Adipose Absent	Left Operculum Punch
6-Sep Pink	Σ		Witd	
6-Sep Pink			Wild	
6-Sep Chinook	W yo		Mild	
7-Sep Chinaak			Wild	
7-SepChinook	ok M	_	Adipose Absent	Righi Operculum Punch
7-Sep Chinook	_		Adipose Absent	Right Operculum Punch
7-Sep Chinook			Wild	
7-Sep Chinook	∑ č		Adipose Absent	
7-Sep Chinook	ok M		PliM	
10-Sep Chinook			Wild	Right Operculum Punch
10-SepiChino			Wild	
10-Sep Chinook	ok Ma		Wild	
10-Sep Pink	_		Wild	
10-Sep Northern	S		Wild	
10-Sep Chinook			Adipose Absent	332678E
11-SepPink			PliM	
11-Sep Chinook			Mild	
11-Sep Chinook	W		Wild	
12-SepiChinook			Wild	
12-Sep Pink	L		Mild	
13-Sep Chinook	¥ ĕ		Mid	
13-Sep Pink			PilM	
13-Sep Chinook	곳 노		Wild	
15-Sep Pink	<u>"</u>		Wild	
15-Sep Pink	Σ		Wild	
15-Sep Pink	Σ		Wild	
15-SepiChinook			PijM	
15-Sep Pink			Mid	
15-Sep Chinook	× ×		PIW	
15-Sep Coho	2		Mild	Left Operculum Punch
17-Sep 2Wht/Fish	<del></del>			
			_	

## Appendix II Dead Pitch

Date Species	Xex.	Marks	Comments
18-Sep Pink	_ 2	DIM	
30 Sep Collo	ž u	D DKA	
20 Con Dint		A STATE	
SO-COP LINK	_	NAME OF THE PARTY	
יייייייייייייייייייייייייייייייייייייי		DIIAA	
21-Sep White ish			
21-Sep Coho		Adipose Absent	
21-Sep Coho	Ŀ	Adipose Absent	
23-Sep Pink	<u>u</u>	Wild	
23-Sep Wht/Fish		Wild	
24-Sep Coho	L	Adipose Absent	50%Spawned
30-Sep Coho	L.	Adipose Absent	
3-Oct Coho	L	Adipose Absent	
3-Oct Coho	L	Adipose Absent	
3-Oct Coho	Σ	Adipose Absent	L-Op/Lmax
3-Oct Coho	L	Adipose Absent	
5-Oct Coho	L.	Adipose Absent	
5-Oct Bt/Dv			
8-Oct Bt/Dv			
8-Oct BI/Dv			
12. Oct Coho	u	Adiaces About	
12-Oct Coho		Mason psoding	Action Description
0000 00-21		DIIAA	Leit Operculuit Punch
13-Oct Coho	Σ	Adipose Absent	Left Operculum Punch
16-Oct BVDv			
18-Oct Coha	×	Adipose Absent	Left Operculum Punch
18-Oct Coho	للد	Adipose Absent	Left Operculum Punch
18-Oct Coho	W	Adipose Absent	Left Operculum Punch
18-Oct Coho	M	Adipose Absent	Left Operculum Punch
18-Oct Coho	ш	Adipose Absent	Left Operculum Punch
18-Oct Coho	Ŀ	Adipose Absent	Left Opercutum Punch
19-Oci Coho	ч	Adipose Absent	Left Operculum Punch
19-Oct Coho	M	Adipose Absent	Left Operculum Punch
19-Oct Coho	Ŀ	Adipose Absent	Left Operculum Punch
20-Oct Coho	M	Adipose Absent	
20-Oct Coho	4	Wild	Left Operculum Punch
20-Oct Coho	L.	Adipose Absent	Left Operculum Punch
20-Oct Coho	u_	Adipose Absent	Left Operculum Punch
20-Oct Coho	Σ	PilM	Left Operculum Punch
22-Oct Coho	<u>u</u>	R/M	
22-Octi Coho	Z	R/M	
22-Oct Coho	u.	Adipose Absent	Left Operculum Punch
22-Oct Coho	≥	Adipose Absent	Left Operculum Punch
22-Oct Coho	LL.	Adipose Absent	Left Operculum Punch
22-Oct Coho	Ŀ	Adipose Absent	Left Operculum Punch
22-Oct Coho	Σ	Adipose Absent	Left Opercutum Punch
22-Oct Coho	L	Adipose Absent	Left Operculum PunchBlue Tao 22418 M/F
22-Oct Coho	Ŀ	Adipose Absent	Left Operculum Punch
23-OctiCoho	_ ≥	Adipose Absent	
23-Oct Coho	Σ	Adipose Absent	Blue Tag 20086 M/F
23 Oct Coho	2	Adinos Absorb	ACCOR ROLL OF THE
217017077	2	ACIDORE AUXOUR	

Appendix II Dead Pitch

Date	Species	Sex	Marks	Comments
23-Oct Coho	Coho	F	Adipose Absent	Left Operculum Punch
23-Oct Coho	Coho	4	Adipose Absent	Left Operculum Punch
23-Oct Coho	Coho	F	Adipose Absent	Left Operculum PunchBlue Tag 22394 M/F
23-Oct Coho	Soho	F	Adipose Absent	Left Operculum Punch
23-Oct Coho	Soho	М	Adipose Absent	Left Operculum Punch Tag # 3080 M/S
23-Oct Coho	Coho	ł	Adipose Absent	Left Operculum Punch
23-Oct Coho	Coho	J.	Adipose Absent	Left Operculum Punch
23-Oct Coho	Soho	ı	Wild	Left Operculum Punch
24-Oct Coho	Sono	L	Adipose Absent	Left Operculum Punch
24-Oct Coho	Soho	M	Adipose Absent	Left Operculum Punch
24-Oct Coho	ouo	F	Adipose Absent	Left Operculum Punch
24-Oct Coho	Soho	Σ	Wild	Left Operculum Punch
24-Oct Coho	Soho	1	Adipose Absent	Left Operculum Punch
24-Oct Coho	Soho	L	Adipose Absent	Left Operculum Punch
26-Oct BI/Dv	3t/Dv			
26-Oct BVDv	3VDv			
26-Oct Bt/Dv	3t/Dv			
26-Oci Coho	coho	F	Adipose Absent	Left Operculum Punch
26-Oct Coho	Coho	F	Adipose Absent	Left Operculum Punch
26-Oct Coho	Coho	**	Adipose Absent	Left Operculum Punch
26-Oct Coho	Coho	ı.	Adipose Absent	Left Operculum Punch
1-Nov Coho	Coho	M	Adipose Absent	Left Operculum Punch
1-Nov Coho	Coho	M	Wild	Left Operculum Punch
1-Nov Coho	Soho	F	Adipose Absent	Left Operculum Punch
1-Nov Coho	oho	F	Adipose Absent	Left Operculum Punch
1-Nov Coho	Soho	¥	Adiposa Absent	Left Operculum Punch
1-Nov STH	STH	L.	Wild	
2-NoviCoho	Г	u	Adipose Absent	I all Decrees diver Diversity