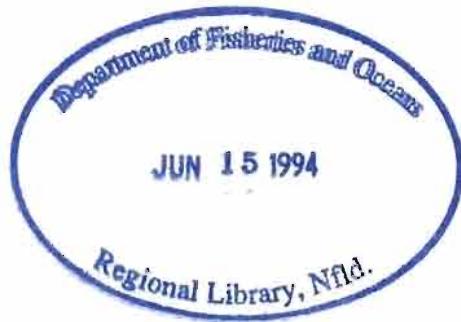


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## Summary of Adult Coho Escapement to the Lachmack River, B.C., 1990



J. Lane, J. A. Taylor, and B. O. Finnegan

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**Canadian Data Report of  
Fisheries and Aquatic Sciences 932**

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**SUMMARY OF ADULT COHO ESCAPEMENT  
TO THE LACHMACH RIVER, B.C., 1990**

**by**

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## ABSTRACT

Lane, J., J. A. Taylor, and B. O. Finnegan. 1994. Summary of Adult Coho Escapement to the Lachmack River, B. C., 1990. Can. Data Rep. Fish. Aquat. Sci. 932: 69 p.

A welded aluminium fence was used to determine coho salmon (*Oncorhynchus kisutch*) escapement to the Lachmack River, east of Prince Rupert, British Columbia, between August 11 and November 4, 1990. Total coho escapement through the fence was 971 large adults and 445 jacks. Fish were sampled for length, weight, condition, fecundity, age and the presence of fin clips. A total of 555 large adults (57.3%) and 298 jacks (67.0%) were adipose clipped, indicating the presence of coded-wire tags. The majority of coho were in an early stage of sexual maturity. Ages of large adult coho were determined from 201 of 226 scale samples. The ages of these fish ranged from 1.0 to 2.1, a majority being 2.1. Ages of jack coho were determined from 105 out of 126 scale samples. Jacks ranged in age from 1.0 to 2.1, with most aged 2.0. Mean fecundity was calculated to be 2906 eggs per female and potential egg deposition was estimated to be 1,318,340 eggs. Radio transmitters were implanted in six large adults and were tracked throughout the system. Pink (*O. gorbuscha*) and chum salmon (*O. keta*) and Dolly Varden char (*Salvelinus malma*) were also captured and counted through the fence.

## RÉSUMÉ

Lane, J., J. A. Taylor, and B. O. Finnegan. 1994. Summary of Adult Coho Escapement to the Lachmach River, B.C., 1990. Can. Data Rep. Fish. Aquat. Sci. 932: 69 p.

On utilisé une clôture en aluminium soudée pour déterminer l'échappée de saumons coho (*Oncorhynchus kisutch*) vers la rivière Lachmach, à l'est de Prince Rupert, Colombie-Britannique, entre le 11 août et le 4 novembre 1990. L'échappée totale de cohos par la clôture a été de 971 gros adultes et de 445 jacks. On a mesuré la longueur et le poids, et déterminé l'état, la fécondité, l'âge et compté le nombre de nageoires coupées. Il y avait au total 555 gros adultes (57,3 %) et 298 jacks (67,0 %) dont la nageoire adipeuse était coupée, ce qui indique la présence de micromarques. La majorité des cohos étaient à un des premiers stades de la maturité sexuelle. On a déterminé l'âge des gros adultes à partir de 201 échantillons d'écailles sur 226. Ces poissons avaient entre 1,0 et 2,1 ans, et la majorité avait 2,1 ans. On a déterminé l'âge des jacks à partir de 105 échantillons d'écailles sur 126. Ils avaient entre 1,0 et 2,1 ans, et la plupart avaient 2,0 ans. On a évalué la fécondité moyenne à 2906 oeufs par femelle et on a estimé que 1 318 340 oeufs pouvaient être pondus. Des émetteurs radio ont été implantés dans six gros adultes qu'on a suivis dans tout le réseau. On a aussi capturé du saumon rose (*O. gorbuscha*) et du saumon kéta (*O. keta*) ainsi que de la Dolly Varden (*Salvelinus malma*).

## INTRODUCTION

The Lachmach River is small coastal stream approximately 8 km in length, located 23 km east of Prince Rupert, British Columbia (Fig. 1). It drains a small ( $41.3 \text{ km}^2$ ) catchment bordered by steep mountains. The area is subject to high precipitation. Mean annual precipitation for Prince Rupert is 2907.8 mm. Clearcut logging occurred on the western slope of the catchment in the late 1970's and early 1980's. The Lachmach River supports runs of coho salmon (*Oncorhynchus kisutch*), pink salmon (*O. gorbuscha*), chum salmon (*O. keta*), steelhead trout (*O. mykiss*), sea run cutthroat trout (*O. clarkii*) and Dolly Varden char (*Salvelinus malma*).

In 1986, the Lachmach River was chosen by the Department of Fisheries and Oceans (DFO) as a representative north coast watershed, suitable for the investigation of coho salmon production. The current study on the Lachmach River system was conducted as part of the fourth year of a multi-year program to investigate productivity and life history of northern British Columbia coho stocks. To date this program has examined juvenile distribution within and smolt outmigration from the system, between 1987 and 1990. Adult coho escapement and spawning distribution has been studied since 1987. In 1989, a jack-tight adult fence became operational at the mouth of the river just below the tidal boundary.

This report documents the adult salmon escapement, determined from counting fence operations and adult coho sampling and tagging, on the Lachmach River from August 11 to November 4, 1990.

## MATERIALS AND METHODS

### FENCE OPERATIONS

A welded aluminium counting fence, described by Finnegan and Davies (1991), was installed near the mouth of the Lachmach River (Fig. 1) on August 11 and was removed November 4, 1990. The fence was capable of preventing the passage of jack and adult coho. Design modifications for the current program included installation of a number of 1.5 m x 3 m polyurethane tarpaulins and a retractable door at the entrance to the trap box. The tarpaulins were suspended along a steel cable approximately 1 m above, and allowed to hang 0.5 m below,

the trailing edge of the catwalk. It was hoped that these would deter the passage of fish over the fence during major flood events.

Fence cleaning was performed when required throughout the study period and snorkel inspections of the fence floor and submerged panels were performed periodically after high water events.

## PHYSICAL OBSERVATIONS

General weather observations and measurements were taken daily at the camp site, between 0745 hours and 1330 hours and are listed below:

1. cloud cover - % overcast (subjective measurement);
2. precipitation - ( $\pm 0.5$  mm);
3. minimum and maximum air temperature - ( $\pm 0.5^{\circ}\text{C}$ ); and
4. minimum water temperature - ( $\pm 0.5^{\circ}\text{C}$ ).

Precipitation was measured using a 127 mm (maximum capacity) rain gauge. Air temperatures were read from a minimum-maximum mercury thermometer and water temperatures were taken with a hand held alcohol thermometer.

## BIOLOGICAL SAMPLING

All fish passing through the fence were enumerated by species. The following biological information was collected from large adult and jack coho at a variable level of effort that was primarily influenced by daily escapement.

1. sex;
2. fork length ( $\pm 2$  mm);
3. weight ( $\pm 0.005$  kg);
4. scales (for age determination: maximum of 5);
5. fin clip marks; and
6. condition - subjective categories of:
  - a. silver - absence of spawning colour and characteristic morphological changes commonly associated with spawning coho;
  - b. green - some darkening of body colour but little morphological change;

- c. mature - colour and morphological characteristics of a spawning coho but eggs or sperm are not easily expelled; and
- d. ripe - similar to a mature fish, except, eggs and sperm are readily expelled with slight pressure.

During periods of accelerated fish migration through the fence, weight measurements and scale collections were performed on sub-samples of coho by selecting every 5th or 10th fish, depending on the numbers available.

Fecundity estimates were performed on a small ( $n=4$ ) sample of freshly killed female coho. Egg skeins were removed and weighed, along with two sub-samples of 100 eggs from each skein. Mean egg weight per skein was calculated and total egg number per individual was calculated as:

$$\sum_{j=2}^{n=2} \text{Skein weight}/\text{mean egg weight}$$

Mean fecundity for the entire escapement was derived from a  $\log_{10}\log_{10}$  extrapolation of fecundity vs. fork length corrected for length-frequency.

Pectoral and dorsal fins, for age determinations, were removed from fish sacrificed for fecundity estimates and from all other whole carcasses found in the Lachmack River system. Fins were placed in numbered envelopes and frozen. Heads from adipose clip fish were removed for coded-wire tag (CWT) analysis and otoliths from non-adipose clipped fish were removed and placed in numbered plastic vials in a solution of 10% glycerine and distilled water.

## TAGGING

Prior to the start of the upstream migration, arbitrary designations of early, middle and late run categories of large adult and jack coho were made. Fish within each category were subsequently tagged with a specific colour of numbered Floy Anchor tag as listed below:

1. early run - Aug 11 to September 9 - yellow;
2. middle run - September 10 to October 11 - pink; and
3. late run - October 12 to November 4 - red.

Jack coho appeared to be particularly vulnerable to the tagging procedure. These fish were not tagged after August 31, to prevent tagging mortalities. After this date, jack coho were marked with a double caudal fin

punch, to distinguish them from Floy tagged fish. All other tagged fish were marked with a single caudal fin punch.

Radio transmitters were implanted in 6 early run, large, adult coho. Each transmitter was lubricated with glycerine and inserted into the stomach cavity using a 15 mm rigid plastic tube. Radio tagged fish were monitored throughout the study period from up to 16 sites along the river, using a programmable scanning radio receiver (Lotek Engineering Ltd.).

## RESULTS AND DISCUSSION

### PHYSICAL OBSERVATIONS

Total precipitation for the period August 23 to November 9, 1990, was 1219.5 mm (Fig. 2) with a daily maximum rainfall of 86 mm on each of October 8 and October 13. Maximum precipitation for a 7 day period occurred between October 7 and October 13 and totaled 388 mm (Table 1). It should be noted that accompanying assessments of cloud cover refer only to the time of observation and do not distinguish between low cloud that might dissipate later in the day and clouds associated with a discrete weather system. Daily maximum and minimum air temperatures reflect a general decrease over the study period (Table 2; Fig. 3). Maximum air temperatures ranged from 1.5°C to 25.5°C (mean 12.7°C) and minimum air temperatures ranged from -1.5°C to 13.0°C (mean 4.8°C). Similarly, minimum daily water temperatures decreased over the study period (Fig. 4). The mean water temperature during the program was 10.6°C; minimum and maximum values were 4.5°C and 17.0°C respectively (Table 2).

### ADULT ESCAPEMENT

Total coho escapement counted through the fence was 971 large adults and 445 jacks (Table 3). The retractable door on the trap box provided a more controlled entry of fish into the trap box. This prevented mortality due to overcrowding during peak migration periods and drowning during high water events, as was experienced in the previous year. High water events rendered the fence inoperable on five occasions during the study (Table 3). On a majority of

occasions, the polyurethane tarpaulins installed along the catwalk were successful in preventing fish from passing upstream, although coho were observed jumping at the tarpaulins. Unfortunately, during the peak of flooding, fish were able to swim around the fence abutments. Our estimate of escapement does not, therefore, include coho that may have entered the system during the major freshet between October 7 and October 9, nor any coho in the river prior to fence installation. The above groups of fish may represent an additional 100 large adults and an unknown number of jacks, however, we have no empirical basis for this estimate. The male : female ratio for large adults was 1.1:1 (508:460).

The run timing of large adult and jack coho by quartile is shown in Table 4. Large adults dominated the initial period of upstream migration and had a prolonged period of migration compared to jack coho. The timing of upstream movement, for both groups, was closely associated with the initial freshets (Fig. 5). Peak fish movement tended to occur 2 to 3 hours before sunset, with little or no movement during the night. During the periods of peak migration, daily fish movement was constrained by handling time and possibly also by trap box size. Pulses of movement, therefore, appear more protracted than would have been the case in the absence of the fence.

## BIOLOGICAL SAMPLING

Data on selected biological characteristics of large adult and jack coho are presented in Tables 5 and 6. Large adults ranged in length from 350 mm - 811 mm and in weight from 0.44 kg - 6.15 kg. Equivalent ranges for jacks were 206 mm - 431 mm and 0.1 kg - 0.7 kg, respectively. The mean length and weight of large adults were 645.5 mm ( $n=948$ , S.D. = 68.29) and 3.48 kg ( $n=247$ , S.D. = 1.21), respectively (Table 7). Those of jack coho were 304.7 mm ( $n=435$ , S.D. = 29.27) and 0.38 kg ( $n=120$ , S.D. = 0.12). There were no statistically significant differences between the mean lengths and weights of males and females (one-way ANOVA -  $p \geq 0.05$  ).

Regressions of weight on length for large adults and jacks, of the general form:

$$\log_{10} \text{ weight} = b (\log_{10} \text{ length}) + a$$

are presented below:

	b	a	n	r <sub>adj</sub>
Adults	3.012	- 7.942	246	0.89
Jacks	3.412	- 8.917	121	0.90

The length-frequency distributions for large adults and jacks are illustrated in Fig. 6.

The majority of the adults passing through the fence were in an early state of sexual maturity. The level of sexual development (condition) of large adult and jack coho are presented in Tables 5 and 6. A summary of condition is provided below:

	Silver	Green	Mature	Ripe
Adults	466	379	119	1
Jacks	342	95	2	2

## FIN CLIPS

Adipose fin clips, indicating the presence of coded-wire tags, occurred on 57.3% of large adults and 67.0% of jacks (Table 3). Additional fin clips, originating from juvenile marking programs conducted in the Lachmack system, were found on 5 adipose clipped large adults. These comprised one right ventral clip, two left ventral clips and a right maxillary clip. One right ventral clip, one right maxillary clip and a right ventral/left maxillary combination clip were noted on jack coho.

## AGES

Ages for both large adults and jacks are presented in Table 8. Table 9 gives a summary by sex and age for adult and jack coho.

## FECUNDITY

Fecundity estimates for the females sampled and the mean fecundity for the 1990 escapement is given in Table 9. Regression of fecundity on fork length provides the relationship:

$$(1) \quad \log_{10} \text{fecundity} = 1.8393 (\log_{10} \text{fork length} - 1.7124)$$
$$r_{\text{adj.}} = 0.96$$

This equation gives an estimate of 2885 eggs per female, based on a mean fork length of 649 mm (Table 3). Incorporating measured fecundities from the 1989 escapement (Finnegan 1991) results in a slightly better fit to the data (Fig. 7). The regression equation is then:

$$(2) \quad \log_{10} \text{fecundity} = 1.8933 (\log_{10} \text{fork length} - 1.8612)$$
$$r_{\text{adj.}} = 0.99$$

The mean fork length for females in both years was 649 mm. From equation (2) the mean fecundity for both escapement years is, therefore, 2906 eggs per female.

The potential egg deposition in the Lachmack River system for the 1990 escapement using equation (2) and correcting for length-frequency distribution of females, was 1,318,340 eggs.

## TAGGING

Application of Floy anchor tags was performed for an instream indexing study that ran concurrently with the fence program. A total of 923 large adults and 47 jacks were tagged. These are summarized by colour and category below:

1. yellow (early) - 379 large adults, 47 jacks;
2. pink (middle) - 540 large adults; and
3. red (late) - 4 large adults.

It is anticipated that comprehensive treatment of these data will appear in a future technical report.

The movements of the 6 radio tagged large adults are presented in Table 10. One fish died within 24 hours (Frequency - 118), 4 migrated into the upper reaches of the river system and 1 remained in the mid section of the river system.

#### CODED-WIRE TAG RECOVERY

The results of CWT recoveries are summarized in Table 11. All of the 19 heads examined retained their coded-wire tags. Only 1 fish represented the small (<90 mm) smolt tag code group. Of the remainder, 14 were from the 1989 smolt year and 4 from 1990.

#### OTHER SPECIES

A daily summary of the movement of other species through the fence is presented in Table 12. Pink salmon (*Oncorhynchus gorbuscha*) were numerically dominant ( $n=1322$ ), followed by Dolly Varden char (*Salvelinus malma*) ( $n=548$ ) and chum salmon (*O. keta*) ( $n=32$ ). These species occurred in lower numbers than in 1989 (Finnegan 1991; pinks = 1478, Dolly Varden = 807 and chum = 55). Several hundred pink salmon were observed to have spawned below the fence in 1990, where as only a hundred were noted in 1989.

#### REFERENCES

- Finnegan, B.O. and D. Davies. 1991. Summary of fall 1989 adult and juvenile coho salmon sampling operations on the Lachmack River, British Columbia. Can. Data Rep. Fish. Aquat. Sci. 830: 55 p.

Table 1. Daily atmospheric measurements recorded at the Lachmack River Camp.  
August 23 to November 9, 1990.

Date	Time (hrs).	% Cloud Cover	Precipitation (mm)
Aug. 23/90	0800	0	0
Aug. 24/90	0800	10	3
Aug. 25/90	0800	0	0
Aug. 26/90	0830	0	0
Aug. 27/90	0830	25	0
Aug. 28/90	0800	100	0
Aug. 29/90	0800	100	0
Aug. 30/90	0800	100	37.5
Aug. 31/90	0800	100	22.5
Sept. 01/90	0800	100	6
Sept. 02/90	0800	100	8
Sept. 03/90	0800	100	4
Sept. 04/90	0800	100	0
Sept. 05/90	0800	100	9
Sept. 06/90	0800	75	0
Sept. 07/90	0800	50	0
Sept. 08/90	0800	100	1
Sept. 09/90	0800	100	0
Sept. 10/90	0800	50	0
Sept. 11/90	0800	100	0.5
Sept. 12/90	0800	90	0
Sept. 13/90	0800	100	0
Sept. 14/90	0800	0	0
Sept. 15/90	0800	100	0
Sept. 16/90	0800	100	7
Sept. 17/90	0800	100	0
Sept. 18/90	0800	95	14
Sept. 19/90	0800	100	4
Sept. 20/90	0800	100	0
Sept. 21/90	0800	100	7
Sept. 22/90	0800	100	0
Sept. 23/90	0800	100	4
Sept. 24/90	0800	100	10
Sept. 25/90	0800	50	16
Sept. 26/90	0800	10	0
Sept. 27/90	1300	100	0
Sept. 28/90	0800	95	28
Sept. 29/90	0800	100	8
Sept. 30/90	0800	95	8
Oct. 01/90	0800	100	16
Oct. 02/90	0800	100	21
Oct. 03/90	0800	100	2
Oct. 04/90	0800	95	0
Oct. 05/90	0800	70	0
Oct. 06/90	0800	100	7
Oct. 07/90	0800	100	62
Oct. 08/90	0800	100	86
Oct. 09/90	0800	100	52
Oct. 10/90	0800	75	19
Oct. 11/90	0800	100	3
Oct. 12/90	0800	100	80
Oct. 13/90	0800	100	86
Oct. 14/90	0800	75	12
Oct. 15/90	0800	100	7

Table 1 (cont'd)

Date	Time (hrs).	% Cloud Cover	Precipitation (mm)
Oct. 16/90	0800	100	19
Oct. 17/90	0800	100	14
Oct. 18/90	0800	100	23
Oct. 19/90	0800	100	13
Oct. 20/90	0800	100	2
Oct. 21/90	0800	100	62
Oct. 22/90	0800	100	28
Oct. 23/90	0800	100	8
Oct. 24/90	0800	100	70
Oct. 25/90	0800	100	7
Oct. 26/90	0800	75	12
Oct. 27/90	0800	100	46
Oct. 28/90	0800	90	2
Oct. 29/90	0800	90	7
Oct. 30/90	0800	100	7
Oct. 31/90	0800	95	38
Nov. 01/90	0800	95	14
Nov. 02/90	*	*	28
Nov. 03/90	*	*	46
Nov. 04/90	*	*	38
Nov. 05/90	0800	0	2
Nov. 06/90	0800	100	3
Nov. 07/90	0830	100	65
Nov. 08/90	0745	85	12
Nov. 09/90	0815	90	3

Total Precipitation: 1219.5 mm

\* Measurements not taken.

Table 2. Daily air and water temperatures (°C) taken at the Lachmack river Camp. August 23 to November 9, 1990.

Date	Maximum Air Temperature	Minimum Air Temperature	Minimum Water Temperature
Aug. 23/90	20.0	12.0	17.0
Aug. 24/90	24.5	7.0	15.0
Aug. 25/90	25.5	6.0	15.5
Aug. 26/90	24.5	5.0	14.0
Aug. 27/90	17.0	10.0	16.0
Aug. 28/90	21.0	12.0	15.5
Aug. 29/90	15.0	13.0	15.5
Aug. 30/90	17.0	12.0	15.0
Aug. 31/90	14.0	12.0	13.5
Sept. 01/90	15.0	8.0	14.0
Sept. 02/90	13.0	8.0	13.5
Sept. 03/90	21.0	8.5	14.0
Sept. 04/90	17.0	6.0	14.0
Sept. 05/90	21.0	9.0	15.0
Sept. 06/90	21.0	5.5	13.0
Sept. 07/90	14.0	6.0	13.5
Sept. 08/90	21.5	8.0	15.0
Sept. 09/90	21.0	11.0	14.5
Sept. 10/90	20.0	7.5	14.0
Sept. 11/90	20.0	7.5	14.5
Sept. 12/90	19.0	8.0	14.0
Sept. 13/90	19.0	6.5	13.0
Sept. 14/90	23.0	5.0	12.5
Sept. 15/90	19.0	5.5	14.0
Sept. 16/90	17.0	10.0	13.0
Sept. 17/90	13.0	5.0	12.5
Sept. 18/90	17.0	8.0	12.5
Sept. 19/90	13.0	8.0	12.0
Sept. 20/90	13.0	7.0	13.0
Sept. 21/90	23.0	9.0	13.0
Sept. 22/90	22.0	10.0	13.0
Sept. 23/90	18.5	12.0	14.5
Sept. 24/90	19.0	8.0	14.0
Sept. 25/90	16.0	8.0	12.5
Sept. 26/90	20.0	5.0	11.0
Sept. 27/90	23.0	4.0	13.5
Sept. 28/90	12.0	11.0	13.0
Sept. 29/90	16.5	8.0	12.0
Sept. 30/90	12.5	4.0	11.5
Oct. 01/90	10.0	3.0	11.0
Oct. 02/90	9.0	1.0	10.0
Oct. 03/90	14.0	0.0	10.0
Oct. 04/90	12.0	0.5	9.0
Oct. 05/90	9.5	-1.0	9.0

Table 2 (cont'd)

Date	Maximum Air Temperature	Minimum Air Temperature	Minimum Water Temperature
Oct. 06/90	4.0	0.0	8.5
Oct. 07/90	9.0	4.0	9.0
Oct. 08/90	10.0	6.0	9.0
Oct. 09/90	8.0	6.0	9.5
Oct. 10/90	10.0	1.5	8.5
Oct. 11/90	6.0	3.0	8.5
Oct. 12/90	6.0	4.0	8.0
Oct. 13/90	6.0	0.0	7.0
Oct. 14/90	4.0	-0.5	6.5
Oct. 15/90	6.0	0.5	6.5
Oct. 16/90	4.0	0.0	6.5
Oct. 17/90	6.0	0.0	6.0
Oct. 18/90	7.0	3.0	6.0
Oct. 19/90	8.0	2.5	6.5
Oct. 20/90	7.0	2.5	5.5
Oct. 21/90	5.5	2.0	5.5
Oct. 22/90	6.0	2.0	6.0
Oct. 23/90	8.0	3.0	6.5
Oct. 24/90	8.5	6.0	6.5
Oct. 25/90	6.0	-0.5	6.0
Oct. 26/90	5.5	-1.0	6.0
Oct. 27/90	6.0	2.5	5.5
Oct. 28/90	5.0	0.5	5.0
Oct. 29/90	6.0	0.0	4.5
Oct. 30/90	5.0	1.0	5.0
Oct. 31/90	5.0	1.0	4.5
Nov. 01/90	*	1.0	4.5
Nov. 02/90	*	*	*
Nov. 03/90	*	*	*
Nov. 04/90	7.0	2.0	*
Nov. 05/90	6.0	0.0	5.0
Nov. 06/90	1.5	-1.5	*
Nov. 07/90	5.0	1.5	*
Nov. 08/90	5.5	-1.5	*
Nov. 09/90	1.5	-1.0	*
Means	12.7	4.8	10.7

\* Measurements not taken

Table 3. Daily summary of the number of large adult and jack coho (with and without adipose clips) passing through the Lachmack River fish fence. August 11 to November 2, 1990.

Date	Number of Large Adults	Adipose Clips	Number of Jacks	Adipose Clips
Aug. 14/90	3	1	0	0
Aug. 15/90	2	1	0	0
Aug. 16/90	3	2	0	0
Aug. 17/90	0	0	0	0
Aug. 18/90	0	0	0	0
Aug. 19/90	0	0	0	0
Aug. 20/90	0	0	1	1
Aug. 21/90	0	0	0	0
Aug. 22/90	1	1	0	0
Aug. 23/90	0	0	1	1
Aug. 24/90	2	1	0	0
Aug. 25/90	0	0	0	0
Aug. 26/90	1	1	0	0
Aug. 27/90	0	0	0	0
Aug. 28/90	0	0	0	0
Aug. 29/90	27	16	8	5
Aug. 30/90	295	187	40	31
Aug. 31/90	12	7	1	1
Sept. 01/90	58	41	5	4
Sept. 02/90	0	0	0	0
Sept. 03/90	0	0	0	0
Sept. 04/90	0	0	0	0
Sept. 05/90	0	0	1	0
Sept. 06/90	1	0	0	0
Sept. 07/90	0	0	0	0
Sept. 08/90	0	0	0	0
Sept. 09/90	0	0	0	0
Sept. 10/90	4	3	7	6
Sept. 11/90	4	2	12	8
Sept. 12/90	1	0	3	2
Sept. 13/90	0	0	4	1
Sept. 14/90	0	0	3	2
Sept. 15/90	25	11	32	21
Sept. 16/90	1	1	0	0
Sept. 17/90	2	0	11	8
Sept. 18/90	225	118	111	74
Sept. 19/90	6	4	0	0
Sept. 20/90	1	1	0	0
Sept. 21/90	10	4	3	2
Sept. 22/90	0	0	0	0
Sept. 23/90	0	0	0	0
Sept. 24/90	136	79	111	76
Sept. 25/90	11	8	2	2

Table 3 (cont'd)

Date	Number of Large Adults	Adipose Clips	Number of Jacks	Adipose Clips
Sept. 26/90	0	0	0	0
Sept. 27/90	0	0	0	0
Sept. 28/90	36	19	51	31
Sept. 29/90	10	5	5	3
Sept. 30/90	2	2	4	4
Oct. 01/90	58	26	21	11
Oct. 02/90	24	11	5	3
Oct. 03/90	0	0	0	0
Oct. 04/90	5	2	2	2
Oct. 05/90	0	0	0	0
Oct. 06/90	0	0	0	0
Oct. 07/90	n/a	n/a	n/a	n/a
Oct. 08/90	n/a	n/a	n/a	n/a
Oct. 09/90	n/a	n/a	n/a	n/a
Oct. 10/90	0	0	1	0
Oct. 11/90	1	1	0	0
Oct. 12/90	n/a	n/a	n/a	n/a
Oct. 13/90	n/a	n/a	n/a	n/a
Oct. 14/90	0	0	0	0
Oct. 15/90	0	0	0	0
Oct. 16/90	0	0	0	0
Oct. 17/90	0	0	0	0
Oct. 18/90	3	0	0	0
Oct. 19/90	1	0	0	0
Oct. 20/90	0	0	0	0
Oct. 21/90	n/a	n/a	n/a	n/a
Oct. 22/90	0	0	0	0
Oct. 23/90	n/a	n/a	n/a	n/a
Oct. 24/90	n/a	n/a	n/a	n/a
Oct. 25/90	n/a	n/a	n/a	n/a
Oct. 26/90	0	0	0	0
Oct. 27/90	n/a	n/a	n/a	n/a
Oct. 28/90	0	0	0	0
Oct. 29/90	0	0	0	0
Oct. 30/90	0	0	0	0
Oct. 31/90	0	0	0	0
Nov. 01/90	0	0	0	0
Nov. 02/90	0	0	0	0
<b>Totals</b>	<b>971</b>	<b>555</b>	<b>445</b>	<b>299</b>

n/a - Refers to periods when the fence integrity was lost. No counts were possible and no estimates of coho escapement were made.

Table 4. Migration timing ( in quartiles) of large adult and jack coho passing through the Lachmack river fence. Fall 1990.

	LQ	Median	UQ
Adults	30 August	18 September	24 September
Jacks	15 September	18 September	24 September

Table 5. Daily escapement of large adult coho including biological characteristics and tagging information. (Fin Clip: AD=adipose clip, RV=right ventral clip, LV=left ventral clip, RM=right maxillary clip and LM=left maxillary clip. Con't: S=silver, G=green, M=mature and R=ripe. Other: TM=trap mort, P=punched but not tagged and E= escaped upstream. Tag Colour: Y=yellow, P=Pink and R=red.

Date		Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Aug. 14/90	526	2.0	M	530	154-3		None	S		Y
Aug. 14/90	539	1.95	M	528	154-1		None	S		Y
Aug. 14/90	578	2.55	F	529	154-2		AD	S		Y
Aug. 15/90	602	3.1	F	532	154-5		AD	S	TM	Y
Aug. 15/90	652	3.1	F	531	154-4		None	S	TM	Y
Aug. 16/90	545	1.7	M	534	154-7		AD	S		Y
Aug. 16/90	488	1.25	M	535	154-8		None	S	TM	Y
Aug. 22/90	644	3.1	M	537	154-10	AD	S		Y	
Aug. 24/90	548	2.3	F	539	155-2		AD	S		Y
Aug. 24/90	535	1.9	F	540	155-3		None	S		Y
Aug. 26/90	547	2.2	M	541	154-4		AD	S		Y
Aug. 29/90	561	2.2	M		156-5		None	S		Y
Aug. 29/90	701	4.4	M	555			None	S		Y
Aug. 29/90	575	1.35	M	549	156-2		AD	S		Y
Aug. 29/90	672	4.35	M	579	157-3		None	S		Y
Aug. 29/90	547	1.6	M	560	156-7		None	S		Y
Aug. 29/90	599	2.8	M	569			AD	S		Y
Aug. 29/90	657	4.15	F	580			None	S		Y
Aug. 29/90	627	4.2	M	573			AD	S		Y
Aug. 29/90	675	4.0	M	576	157-2		AD	S		Y
Aug. 29/90	654	3.45	F	572			None	S		Y
Aug. 29/90	642	3.65	F	577			None	S		Y
Aug. 29/90	567	2.45	F	570			AD	S		Y
Aug. 29/90	694	4.9	F	571	157-1		None	S		Y
Aug. 29/90	723	4.8	M	547	155-10	AD	S		Y	
Aug. 29/90	668	3.9	F	556	156-6		AD	S		Y
Aug. 29/90	560	2.1	F	548	156-1		None	S		Y
Aug. 29/90	578	2.55	F	550	156-3		None	S		Y
Aug. 29/90	590		F	562			AD	S		Y
Aug. 29/90	625	3.0	F	545	155-8		AD	S		Y
Aug. 29/90	628	3.15	F	546	155-9		AD	S		Y
Aug. 29/90	695		F	557			AD	S		Y
Aug. 29/90	596	2.25	F	566			AD	S		Y
Aug. 29/90	468	1.25	F	542	155-5		AD	S		Y
Aug. 29/90	513	1.9	M	578			AD	S		Y
Aug. 29/90	570	2.7	F	568	156-10	AD	S		Y	
Aug. 29/90	561	2.3	F	567			None	S		Y
Aug. 29/90	621		F	558			AD	S		Y
Aug. 30/90	644		F	826			None	S		Y

Table 5 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Aug. 30/90	692		F	831		AD	S		Y
Aug. 30/90	605		F	832		None	S		Y
Aug. 30/90	678		F	835		None	S		Y
Aug. 30/90	613		F	856		None	S		Y
Aug. 30/90	628		F	880		AD	S		Y
Aug. 30/90	593	2.58	F	862	164-1	None	S		Y
Aug. 30/90			F			None	S	E	
Aug. 30/90	609		F	877		AD	S		Y
Aug. 30/90	659	3.75	F	797	163-1	None	S		Y
Aug. 30/90	662		F	815		AD	S		Y
Aug. 30/90	642	3.4	F	812	163-4	None	S		Y
Aug. 30/90	684		F	796		None	G		Y
Aug. 30/90	661		F	798		AD	S		Y
Aug. 30/90	775		F	858		AD	S		Y
Aug. 30/90	628		F	888		None	S		Y
Aug. 30/90	589		F	827		None	S		Y
Aug. 30/90	654		F	828		AD	S		Y
Aug. 30/90	688		M	821		None	S		Y
Aug. 30/90	580		M	715		None	S		Y
Aug. 30/90	697		F	791		AD	S		Y
Aug. 30/90	697		M	865		AD	S		Y
Aug. 30/90	689	3.95	F	728	161-6	AD	S		Y
Aug. 30/90	593		F	696		AD	S		Y
Aug. 30/90	726	4.9	F	672	160-3	ADLV	S		Y
Aug. 30/90	577		F	729		None	G		Y
Aug. 30/90	682		F	676		None	S		Y
Aug. 30/90	551		F	863		AD	S		Y
Aug. 30/90	649		F	882		None	S		Y
Aug. 30/90	560		F	890		AD	S		Y
Aug. 30/90	694		F	891		AD	S		Y
Aug. 30/90	659		F	761		AD	S		Y
Aug. 30/90	641		F	726		AD	G		Y
Aug. 30/90	657		F	679		AD	S		Y
Aug. 30/90	732		M	768		None	S		Y
Aug. 30/90	482		M	847		AD	S		Y
Aug. 30/90	645		F	811		AD	G		Y
Aug. 30/90	589		F	783		AD	S		Y
Aug. 30/90	684		F	772		AD	S		Y
Aug. 30/90	484	1.4	F	785	162-9	AD	S		Y
Aug. 30/90	678		F	784		None	S		Y
Aug. 30/90	589		F	762		None	S		Y
Aug. 30/90	691	4.2	F	875	164-2	AD	S		Y
Aug. 30/90			F			AD	S	E	
Aug. 30/90	655		F	751		AD	S		Y
Aug. 30/90	682		F	782		AD	S		Y

Table 5 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Aug. 30/90	618		F	834		None	S		Y
Aug. 30/90	653		F			AD	S	E	
Aug. 30/90	701	4.65	F	621	159-1	AD	S		Y
Aug. 30/90	665		F	616		None	S		Y
Aug. 30/90	627		F	624		AD	S		Y
Aug. 30/90	668		F	627		AD	S		Y
Aug. 30/90	690		F	750		None	S		Y
Aug. 30/90	608		F	623		AD	S		Y
Aug. 30/90	520		F	620		None	G		Y
Aug. 30/90	712		F	844		AD	S		Y
Aug. 30/90	672		F	827		None	S		Y
Aug. 30/90	702		F	850		AD	S		Y
Aug. 30/90	598		F	851		None	S		Y
Aug. 30/90	657		F	893		None	S		Y
Aug. 30/90	687	4.7	F	807	163-3	AD	S		Y
Aug. 30/90	678		F	808		None	S		Y
Aug. 30/90	676		F	846		None	S		Y
Aug. 30/90	653		F	803		AD	S		Y
Aug. 30/90	537		F	652		AD	S		Y
Aug. 30/90	534		F	809		AD	G		Y
Aug. 30/90	559		F	654		AD	S		Y
Aug. 30/90	669		F	650		None	S		Y
Aug. 30/90	697		F	810		AD	G		Y
Aug. 30/90	583		F	853		AD	S		Y
Aug. 30/90	631		F	892		None	S		Y
Aug. 30/90	545		F	647		None	S		Y
Aug. 30/90	678		F	640		AD	S		Y
Aug. 30/90	702	4.85	F	732	161-8	AD	S		Y
Aug. 30/90	654	3.1	F	722	161-5	AD	S		Y
Aug. 30/90	659		F	688		AD	S		Y
Aug. 30/90			F					E	
Aug. 30/90			F					E	
Aug. 30/90	630	3.25	F	709	161-1	None	G		Y
Aug. 30/90	560		F	711		AD	S		Y
Aug. 30/90	679		M	878		None	S		Y
Aug. 30/90	516		F	708		AD	S		Y
Aug. 30/90	744		F	684		AD	S		Y
Aug. 30/90	582		F	691		AD	S		Y
Aug. 30/90	628	3.25	F	690	160-7	AD	S		Y
Aug. 30/90	471		F	693		AD	G		Y
Aug. 30/90	686		F	698		AD	S		Y
Aug. 30/90	658		F	720		AD	S		Y
Aug. 30/90	679		F	719		None	S		Y
Aug. 30/90	582		F	694		AD	S		Y
Aug. 30/90	527		F	697		AD	S		Y

Table 5 (cont'd)

Date		Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Aug. 30/90	499	1.5		F	717	161-4		None	S	Y
Aug. 30/90	711	4.6		M	894	164-4		None	S	Y
Aug. 30/90	569			M	871		AD	S		Y
Aug. 30/90	718			M	885		AD	S		Y
Aug. 30/90	609			M	881		AD	S		Y
Aug. 30/90	570			M	900		AD	S		Y
Aug. 30/90	756			M	887		AD	S		Y
Aug. 30/90	506			M	852		None	S		Y
Aug. 30/90	524			M	899		None	S		Y
Aug. 30/90				M			AD	S	E	
Aug. 30/90	670			M	879		None	S		Y
Aug. 30/90	577			M	896		None	S		Y
Aug. 30/90	617			M	895		None	S		Y
Aug. 30/90	602			M	870		AD	G		Y
Aug. 30/90	580			M	897		AD	S		Y
Aug. 30/90	667			M	889		None	S		Y
Aug. 30/90	572			M	884		AD	G		Y
Aug. 30/90	565	2.25		M	883	164-3		AD	S	Y
Aug. 30/90	711			M	886		None	S		Y
Aug. 30/90	663			F	874		AD	S		Y
Aug. 30/90	541			M	841		None	S		Y
Aug. 30/90	698			M	714		AD	S		Y
Aug. 30/90	492			M	867		None	G		Y
Aug. 30/90	493			M	820		None	G		Y
Aug. 30/90	685			M	822		AD	S		Y
Aug. 30/90	497	2.15		M	582	157-5		AD	G	Y
Aug. 30/90	623			F	786		AD	S		Y
Aug. 30/90	695	5.0		F	790	162-10	AD	S		Y
Aug. 30/90	604			M	840		None	S		Y
Aug. 30/90	595			F	733		AD	S		Y
Aug. 30/90	608			M	843		AD	S		Y
Aug. 30/90	510			F			None	S	E	
Aug. 30/90	682			F	671		AD	S		Y
Aug. 30/90	650			M	817		None	G		Y
Aug. 30/90	659			F	876		AD	S		Y
Aug. 30/90	628			F	789		None	G		Y
Aug. 30/90	722			M	842		None	S		Y
Aug. 30/90	718			M	816		None	S		Y
Aug. 30/90	651			F	755		AD	S		Y
Aug. 30/90	709			F	754		AD	S		Y
Aug. 30/90	716			F	771		AD	S		Y
Aug. 30/90	460	1.1		F			AD	G		Y
Aug. 30/90	694			F	760		AD	S		Y
Aug. 30/90	548	1.85		F	587		None	G		Y
Aug. 30/90	664			F	758		AD	S		Y

Table 5 (cont'd)

Date		Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Aug. 30/90	715			F	763			None	S	Y
Aug. 30/90	658			F	591			None	S	Y
Aug. 30/90	483			F	597			AD	G	Y
Aug. 30/90				F				AD	S	E
Aug. 30/90	637			M	823	163-6		AD	G	Y
Aug. 30/90	493			F	792			AD	G	Y
Aug. 30/90	668	3.4		F	599	158-4		None	S	Y
Aug. 30/90	465			F	687			AD	S	Y
Aug. 30/90	689			F	769			None	S	Y
Aug. 30/90	678			F				AD	S	E
Aug. 30/90	512	1.75		F	764	162-4		AD	S	Y
Aug. 30/90	755			M	756			AD	S	Y
Aug. 30/90	577			M	819			AD	S	Y
Aug. 30/90	660	3.85		M	818	163-5		None	S	Y
Aug. 30/90	655			F	738			AD	S	TM
Aug. 30/90	649			M	767			AD	S	Y
Aug. 30/90	774	5.5		M	739	161-7		AD	S	Y
Aug. 30/90	625			M	731			AD	S	Y
Aug. 30/90	563			M	765			AD	G	Y
Aug. 30/90	688			F	740			None	S	Y
Aug. 30/90	542			M	745			AD	S	Y
Aug. 30/90	615			M	727			AD	S	Y
Aug. 30/90	549			M	748			AD	S	Y
Aug. 30/90	675			F	793			None	G	Y
Aug. 30/90	669	3.85		M	836	169-9		AD	S	Y
Aug. 30/90	560			F	866			None	S	Y
Aug. 30/90	698	4.4		M	710	161-2		None	S	Y
Aug. 30/90	670			M	742			AD	S	Y
Aug. 30/90	494			M	749			AD	S	Y
Aug. 30/90	593			M	852			AD	S	Y
Aug. 30/90	652	4.05		M	752	162-2		AD	S	Y
Aug. 30/90	663			M	718			AD	S	Y
Aug. 30/90	607	2.9		M	849	163-10	AD	S		Y
Aug. 30/90	637			M	667			None	S	Y
Aug. 30/90	611			M	804			AD	S	Y
Aug. 30/90	591			M	689			AD	S	Y
Aug. 30/90	638	3.95		M	802	163-2		AD	G	Y
Aug. 30/90	617	2.75		M	608			None	S	Y
Aug. 30/90	599			M	716			AD	S	Y
Aug. 30/90	617	2.9		F	746	162-1		None	S	Y
Aug. 30/90	592			M	861			AD	S	Y
Aug. 30/90	723			M	721			None	S	Y
Aug. 30/90	736			F	735			AD	S	Y
Aug. 30/90	641			F	869			None	S	Y
Aug. 30/90	523			M	854			AD	S	Y

Table 5 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Aug. 30/90	679		M	724		None	S		Y
Aug. 30/90	622		F	736		None	S		Y
Aug. 30/90	548		M	838		AD	S		Y
Aug. 30/90	642		M	757		AD	S		Y
Aug. 30/90	722		M	860		AD	S		Y
Aug. 30/90	595		F	744		AD	S		Y
Aug. 30/90	492		M	725		AD	G		Y
Aug. 30/90	652		M	635		AD	S		Y
Aug. 30/90	682	4.4	M	759	162-3	None	S		Y
Aug. 30/90	551		M	629		None	G		Y
Aug. 30/90	648		M	678		AD	S		Y
Aug. 30/90	733	5.25	M	830	163-7	None	S		Y
Aug. 30/90	677	4.15	M	631	159-3	AD	S		Y
Aug. 30/90	616		M	632		AD	G		Y
Aug. 30/90	552		M	633		AD	G		Y
Aug. 30/90	551		M	677		AD	G		Y
Aug. 30/90	655	3.35	M	637	159-5	None	G		Y
Aug. 30/90	618	3.05	M	643	159-6	AD	G		Y
Aug. 30/90	679		M	636		AD	S		Y
Aug. 30/90	496		M	638		None	G		Y
Aug. 30/90	672		M	642		AD	S		Y
Aug. 30/90	645	3.45	M	626	159-2	None	S		Y
Aug. 30/90	612		M	622		None	S		Y
Aug. 30/90	601		M	628		None	S		Y
Aug. 30/90	554		M	641		AD	G		Y
Aug. 30/90	608		M	630		AD	G		Y
Aug. 30/90	645		M	730		None	S		Y
Aug. 30/90	644		M	851		AD	S		Y
Aug. 30/90	664		M	686		None	S		Y
Aug. 30/90	731	4.85	M	685	160-6	None	S		Y
Aug. 30/90	617		M	682		None	S		Y
Aug. 30/90	661		M	665		None	S		Y
Aug. 30/90	662		M	681		AD	S		Y
Aug. 30/90	692	4.5	M	680	160-5	AD	S		Y
Aug. 30/90	509	1.6	M	668	160-1	None	S		Y
Aug. 30/90			M					E	
Aug. 30/90	561		M	683		AD	S		Y
Aug. 30/90	446	1.15	M	653	159-8	AD	S		Y
Aug. 30/90	532		M	655		AD	G		Y
Aug. 30/90	526		M	617		AD	G		Y
Aug. 30/90	702		M			AD	M		
Aug. 30/90	472		M	598		AD	G	E	Y
Aug. 30/90			M				S	E	
Aug. 30/90	604	2.75	M	596	158-3	AD	S		Y
Aug. 30/90	691		M	813		AD	G		Y

Table 5 (cont'd)

Date		Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Aug. 30/90	692			M	706		AD	S		Y
Aug. 30/90	517			M	779		None	G		Y
Aug. 30/90	620			M	705		AD	G		Y
Aug. 30/90	641			M	806		AD	S		Y
Aug. 30/90				M					E	
Aug. 30/90	586			M	666		AD	S		Y
Aug. 30/90	627			M	646		AD	S		Y
Aug. 30/90	454			M	659		AD	G		Y
Aug. 30/90	715	4.65		M	657	159-9	AD	S		Y
Aug. 30/90	696			M	656		AD	S		Y
Aug. 30/90	661			M	663		AD	G		Y
Aug. 30/90	622			M	662		None	S		Y
Aug. 30/90	572			M	674		AD	G		Y
Aug. 30/90	635	3.15		F	605	158-6	None	S		Y
Aug. 30/90	632	3.3		F	606		AD	G		Y
Aug. 30/90	692	3.85		F	607		AD	S		Y
Aug. 30/90	588	2.6		F	601	158-5	AD	G		Y
Aug. 30/90	646			F	612		AD	S		Y
Aug. 30/90	558			F	611		AD	G		Y
Aug. 30/90	711			F	625		AD	S		Y
Aug. 30/90	574			F	613		None	S		Y
Aug. 30/90	638			F	604		None	S		Y
Aug. 30/90	665	3.85		M	648	159-7	AD	S		Y
Aug. 30/90	484			M	649		AD	S		Y
Aug. 30/90	670			M	701		AD	G		Y
Aug. 30/90	597			M	777		AD	G		Y
Aug. 30/90	665	3.85		M	590	158-1	AD	S		Y
Aug. 30/90	690			M	702		AD	S		Y
Aug. 30/90	606			F	787		AD	S		Y
Aug. 30/90	585	2.3		M	592		None	G		Y
Aug. 30/90	638			M	778		AD	S		Y
Aug. 30/90	482	1.3		M	669	160-2	AD	S		Y
Aug. 30/90	672	3.85		M	775	162-6	None	G		Y
Aug. 30/90	557			M	788		AD	S		Y
Aug. 30/90	683	3.7		M	585		None	S		Y
Aug. 30/90	729			M	703		AD	S		Y
Aug. 30/90	653			M	692		None	S		Y
Aug. 30/90	588			M				G		Y
Aug. 30/90	704			M	868		None	S		Y
Aug. 30/90	703			M	781		AD	G		Y
Aug. 30/90	708	4.5		M	695	160-8	AD	S		Y
Aug. 30/90	652	3.25		M	610		AD	G		Y
Aug. 30/90	731			M	774		None	G		Y
Aug. 30/90	554			M	799		AD	S		Y
Aug. 30/90	655	3.5		M	609	158-7	None	S		Y

Table 5 (cont'd)

Date		Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Aug.	30/90	618		M	707		None	S		Y
Aug.	30/90	558	1.9	M			AD	G	E	
Aug.	30/90	608		M	773		None	G		Y
Aug.	30/90	523	1.65	M	586	157-8	AD	G		Y
Aug.	30/90	685	3.7	M	770	162-5	AD	S		Y
Aug.	30/90	687	4.4	M	675	160-4	AD	S		Y
Aug.	30/90	700		M	645		AD	S		Y
Aug.	30/90	629		M	699		AD	S		Y
Aug.	30/90	579		M	600		None	G		Y
Aug.	30/90	642		M			None	S	E	
Aug.	30/90	732		M	673		AD	S		Y
Aug.	30/90	604		M	670		AD	S		Y
Aug.	30/90	647		M	644		AD	S		Y
Aug.	30/90	702		M	651		AD	S		Y
Aug.	30/90	689	4.55	M	700	160-9	AD	G		Y
Aug.	30/90	493	1.55	M	615	158-9	AD	G		Y
Aug.	30/90	632		M	602		AD	S		Y
Aug.	30/90	538		M	603		AD	G		Y
Aug.	30/90	652		M	800		AD	S		Y
Aug.	30/90	575		M	805		AD	S		Y
Aug.	30/90	731	5.5	M	780	162-8	None	S		Y
Aug.	30/90	605	3.2	M	618	158-10	ADRV	S		Y
Aug.	30/90	695		M	801		None	S		Y
Aug.	31/90			M	854		None	S		Y
Aug.	31/90	555		M	857		AD	G		Y
Aug.	31/90	581		M	855		None	G		Y
Aug.	31/90	658	4.25	M	853	164-5	AD	S		Y
Aug.	31/90			M			AD	S	E	
Aug.	31/90	595		M	862		None	S		Y
Aug.	31/90	690		M	861		AD	S		Y
Aug.	31/90			M			AD	S	E	
Aug.	31/90	658		M	860		AD	S		Y
Aug.	31/90	670		M	856		None	S		Y
Aug.	31/90	668		M	859		None	S		Y
Aug.	31/90	688		M	858		AD	S		Y
Sept.	01/90	610		F	902		AD	S		Y
Sept.	01/90	672	4.4	M	936	165-4	None	S		Y
Sept.	01/90	664		M	909		AD	S		Y
Sept.	01/90	666		F	873		AD	S		Y
Sept.	01/90	707		M	874		AD	S		Y
Sept.	01/90	657		F	904		None	S		Y
Sept.	01/90	643	4.15	F	872	164-9	None	S		Y
Sept.	01/90	617		M	871		None	S		Y
Sept.	01/90	715		M			AD	S	P	
Sept.	01/90	674		M	869		AD	S		Y

Table 5 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept. 01/90			M			AD	S	E	Y
Sept. 01/90	603		M	910		AD	S		Y
Sept. 01/90	570		M	921		AD	S		Y
Sept. 01/90	620		M	922		None	S		Y
Sept. 01/90	641		F	912		None	S		Y
Sept. 01/90	542		M	942		None	S		Y
Sept. 01/90	680		M	941		AD	S		Y
Sept. 01/90	661		F	919		None	S		Y
Sept. 01/90	670		F	917		AD	S		Y
Sept. 01/90	581		F	920		AD	S		Y
Sept. 01/90	592		F	905		None	S		Y
Sept. 01/90	619		F	875		AD	S		Y
Sept. 01/90	687		M	868		AD	S		Y
Sept. 01/90	660		M	906		AD	S		Y
Sept. 01/90	688		M	867		AD	S		Y
Sept. 01/90	652		F	915		AD	S		Y
Sept. 01/90	649		F	870		AD	S		Y
Sept. 01/90	671		M	903		None	S		Y
Sept. 01/90			M			AD	S	E	
Sept. 01/90	681		F	923		AD	S		Y
Sept. 01/90	701		F	933		None	S		Y
Sept. 01/90	714		F	934		AD	S		Y
Sept. 01/90	700		F	864		AD	S		Y
Sept. 01/90	660		F	925		AD	S		Y
Sept. 01/90	700		F	932		AD	S		Y
Sept. 01/90	680		F			None	S	E	Y
Sept. 01/90	661		F	940		AD	S		Y
Sept. 01/90	629		F	929		None	S		Y
Sept. 01/90	660		F	931		AD	S		Y
Sept. 01/90	628	3.4	F	907	164-10	AD	S		Y
Sept. 01/90	648	3.3	F	863	164-8	AD	S		Y
Sept. 01/90	663		F	908		AD	S		Y
Sept. 01/90	655		F	866		AD	S		Y
Sept. 01/90	724		M	930		AD	S		Y
Sept. 01/90	617		M	914		AD	S		Y
Sept. 01/90	730		M	927		AD	S		Y
Sept. 01/90	690		M	939		AD	S		Y
Sept. 01/90	552	2.3	M	926	165-3	None	S		Y
Sept. 01/90	514	1.7	M	916	165-1	None	S		Y
Sept. 01/90	720		M	918		AD	S		Y
Sept. 01/90	665		F	938		AD	S		Y
Sept. 01/90	610		F	935		AD	S		Y
Sept. 01/90	602		F	924		None	S		Y
Sept. 01/90	640		F	937		AD	S		Y
Sept. 01/90	610		M	928		AD	S	G	Y

Table 5 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept. 01/90	668		M	911		AD	S		Y
Sept. 01/90	610		M	913		AD	S		Y
Sept. 06/90	564	2.8	M	943	165-6	None	S		Y
Sept. 10/90	608	2.75	F	22	165-8	None	S		P
Sept. 10/90	661	3.7	M	21	165-9	AD	S		P
Sept. 10/90	533	1.85	M	20	165-10	AD	S		P
Sept. 10/90	659	3.15	F	24	165-7	AD	S		P
Sept. 11/90	655	3.2	F	18	166-8	AD	S		P
Sept. 11/90	665	3.1	M	17	166-9	None	S		P
Sept. 11/90	698	4.2	F	16	166-10	None	S		P
Sept. 11/90	703	4.3	F	19	166-7	AD	S		P
Sept. 12/90	726	4.9	M	15	169-3	None	G		P
Sept. 15/90	681		F	26		None	S		P
Sept. 15/90	703		F	3		AD	G		P
Sept. 15/90	566	2.2	F	6	171-7	None	S		P
Sept. 15/90	721	4.95	M	1	171-9	None	G		P
Sept. 15/90	655		F	2		AD	S		P
Sept. 15/90	625	2.7	F	12	170-6	None	S		P
Sept. 15/90	657		F	33		None	S		P
Sept. 15/90	658	3.85	F	11	171-1	AD	S		P
Sept. 15/90	715	4.45	F	8	171-4	AD	S		P
Sept. 15/90	681	3.85	F	13	170-4	None	S		P
Sept. 15/90	630	2.6	F	9	171-3	AD	S		P
Sept. 15/90	695		F	5		AD	G		P
Sept. 15/90	668	3.6	M	31	171-10	None	S		P
Sept. 15/90	534		M	27		AD	S		P
Sept. 15/90	695		F	37		AD	S		P
Sept. 15/90	694	4.15	M	7	171-5	None	S		P
Sept. 15/90	648	2.7	M	10	171-2	None	G		P
Sept. 15/90	722		M	28		None	S		P
Sept. 15/90	699	3.9	F	36	172-2	AD	G		P
Sept. 15/90	639		M	34		None	S		P
Sept. 15/90	455	1.3	M	4		AD	G		P
Sept. 15/90	581		F	30		AD	S		P
Sept. 15/90	539		F	32		None	S		P
Sept. 15/90	487		M	38		None	G		P
Sept. 15/90	672		M	35		None	S		P
Sept. 16/90	594	2.8	F		172-7	AD	S		TM
Sept. 17/90	631	2.7	F	39	172-8	None	S		P
Sept. 17/90	611	2.4	F	40	173-8	None	G		P
Sept. 18/90	545		M	60		None	G		P
Sept. 18/90	664		F	179		None	G		P
Sept. 18/90	704		F	86		AD	S		P
Sept. 18/90	684		M	72		AD	S		P

Table 5 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept. 18/90	646	3.25	F	98	175-10	AD	S		P
Sept. 18/90	668		M	63		None	G		P
Sept. 18/90	672		M	79		AD	G		P
Sept. 18/90	615		F	181		AD	G		P
Sept. 18/90	507		M	61		None	S		P
Sept. 18/90	781		M	78		None	G		P
Sept. 18/90	658		F	177		None	G		P
Sept. 18/90	668		F	176		None	G		P
Sept. 18/90	679		F	142		AD	S		P
Sept. 18/90	711		F	185		None	S		P
Sept. 18/90	559		M	64		None	G		P
Sept. 18/90	551		M	66		None	G		P
Sept. 18/90	658		F	162		None	G		P
Sept. 18/90	706		M	205		None	M		P
Sept. 18/90	666		F	100		AD	G		P
Sept. 18/90	551		F	281		None	S		P
Sept. 18/90	514		F		178-8	AD	G		TM
Sept. 18/90	599		F	285		AD	S		P
Sept. 18/90	695		F	283		None	G		P
Sept. 18/90	618		M	96		AD	G		P
Sept. 18/90	458		M	94		AD	G		P
Sept. 18/90	694		F	188		AD	S		P
Sept. 18/90	803		M	201		None	M		P
Sept. 18/90	738		M	189		None	G		P
Sept. 18/90	715		F	160		None	G		P
Sept. 18/90	638	3.05	F	93	175-9	AD	G		P
Sept. 18/90	531		M	197		AD	G		P
Sept. 18/90	603		M	202		None	G		P
Sept. 18/90	561		F	95		AD	G		P
Sept. 18/90	720		F	286		None	S		P
Sept. 18/90	671		F	248		AD	G		P
Sept. 18/90	669		F	182		None	G		P
Sept. 18/90	629		F	97		None	S		P
Sept. 18/90	575	2.4	M	116	176-6	AD	M		P
Sept. 18/90	469		M	219		AD	G		P
Sept. 18/90	485		M	129		None	G		P
Sept. 18/90	598		M	168		AD	G		P
Sept. 18/90	506	1.6	M	109	176-4	None	G		P
Sept. 18/90	721		M	167		AD	G		P
Sept. 18/90	638		M	106		AD	S		P
Sept. 18/90	509		M	156		AD	G		P
Sept. 18/90	588		M	105		None	G		P
Sept. 18/90	670		M	51		None	M		P
Sept. 18/90	685		M			AD	G	E	P
Sept. 18/90	605		M	172		AD	G		P

Table 5 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept. 18/90 675		3.85	M	170		AD	M		P
Sept. 18/90 725			F	42		AD	G		P
Sept. 18/90 694			M	216		None	M		P
Sept. 18/90 549	1.9		F	41	174-1	AD	G		P
Sept. 18/90 764	5.3		M	225		AD	M		P
Sept. 18/90 583			M	218		None			P
Sept. 18/90 762			M	207		None	M		P
Sept. 18/90 595			M	91	175-8	AD	G		P
Sept. 18/90 648			M	211		None	G		P
Sept. 18/90 689			M	239		AD	G		P
Sept. 18/90 624			M	133		AD	G		P
Sept. 18/90 635			M	244		None	M		P
Sept. 18/90 663	3.6		M	131	176-9	None	G		P
Sept. 18/90 679			M	240		AD	M		P
Sept. 18/90 509			M	138		None	G		P
Sept. 18/90 531			M	135		AD	G		P
Sept. 18/90 669			M	130		None	M		P
Sept. 18/90 684			M	114		AD	G		P
Sept. 18/90 635			M	121		None	G		P
Sept. 18/90 502			M			AD	G		P
Sept. 18/90 698			M	153		None	G		P
Sept. 18/90 609			M	43		AD	S		P
Sept. 18/90 538			M	49		None	G		P
Sept. 18/90 678			M	154		None	G		P
Sept. 18/90 586			M	112		AD	G		P
Sept. 18/90 549			M	132		AD	S		P
Sept. 18/90 679	4.1		M	50	174-5	AD	M		P
Sept. 18/90 623			M	151		None	G		P
Sept. 18/90 758			M	165		None	M		P
Sept. 18/90 676			M	191		AD	G		P
Sept. 18/90 677	4.2		M	333	179-6	None	M		P
Sept. 18/90 615			M	190		AD	G		P
Sept. 18/90 657	3.3		F	146	177-5	AD	G		P
Sept. 18/90 564			F	150		None	G		P
Sept. 18/90 698			F	113		AD	G		P
Sept. 18/90 624			F	294		None	S		P
Sept. 18/90 595			F	120		AD	G		P
Sept. 18/90 595			M	337		AD	G		P
Sept. 18/90 708			F	118		AD	M		P
Sept. 18/90 705			M	203		None	M		P
Sept. 18/90 576			M	338		AD	G		P
Sept. 18/90 644			M	339		AD	G		P
Sept. 18/90 689			M	290		AD	G		P
Sept. 18/90 680	4.25		F	152	177-6	None	G		P
Sept. 18/90 660			F	163		AD	G		P

Table 5 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept. 18/90	634		F	145		AD	S		P
Sept. 18/90	669		F	161		None	G		P
Sept. 18/90	672		F	340		AD	G		P
Sept. 18/90	539		M	139		AD	G		P
Sept. 18/90	698		F	332		AD	G		P
Sept. 18/90	741		F	171	177-9	None	G		P
Sept. 18/90	625		F	301		AD	G		P
Sept. 18/90	649	3.3	F	126	176-8	AD	S		P
Sept. 18/90	664		F	277		AD	G		P
Sept. 18/90	691	4.0	F	299	178-10	AD	G		P
Sept. 18/90	640		F	293		AD	S		P
Sept. 18/90	604		F	209		None	G		P
Sept. 18/90	602		F			None	G		P
Sept. 18/90	622		F	280		None	S		P
Sept. 18/90	665		F	238		None	S		P
Sept. 18/90	673		F	242		AD	G		P
Sept. 18/90	705		F	298		AD	G		P
Sept. 18/90	651		F	276		AD	G		P
Sept. 18/90	718		F	296		None	S		P
Sept. 18/90	618		F	236		AD	G		P
Sept. 18/90	712		F	122		AD	S		P
Sept. 18/90	624		F	245		None	G		P
Sept. 18/90	696		F	108		None	S		P
Sept. 18/90	607		F	111		AD	G		P
Sept. 18/90	615		F	291		AD	S		P
Sept. 18/90	650		F	169		None	G		P
Sept. 18/90	673		F	292		None	G		P
Sept. 18/90	693		F	336		AD	G		P
Sept. 18/90	669		F	335		None	G		P
Sept. 18/90	718		F	134		None	G		P
Sept. 18/90	652		F	137		AD	G		P
Sept. 18/90	708		M	81		None	S		P
Sept. 18/90	695		F	212		AD	G		P
Sept. 18/90	679	4.1	F	208	178-3	None	G		P
Sept. 18/90	535		M	187		None	G		P
Sept. 18/90	627	3.1	F	136	177-1	None	G		P
Sept. 18/90	525		M	180		None	G		P
Sept. 18/90	623	3.05	F	158	177-7	AD	G		P
Sept. 18/90	716		F	157		None	G		P
Sept. 18/90	678	3.7	F	220	178-4	None	G		P
Sept. 18/90	669		F	334		None	G		P
Sept. 18/90	618		F	101		None	S		P
Sept. 18/90	598		F	213		None	G		P
Sept. 18/90	677		F	128		AD	G		P
Sept. 18/90	718	5.1	M	279	178-7	None	M		P

Table 5 (cont'd)

Date		Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept. 18/90	765	6.15		M	289	178-9	None	M		P
Sept. 18/90	672			M	278		AD	S		P
Sept. 18/90	644			M	249		AD	G		P
Sept. 18/90	648			M	300		None	G		P
Sept. 18/90	642			M	295		None	G		P
Sept. 18/90	644			M	297		None	G		P
Sept. 18/90	708			M	288		None	M		P
Sept. 18/90	770			M	193		AD	M		P
Sept. 18/90	608			M	194		AD	M		P
Sept. 18/90	668			F	80		AD	S		P
Sept. 18/90	700	3.6		M	67	175-1	AD	S		P
Sept. 18/90	698			F	282		None	S		P
Sept. 18/90	569			F	127		None	G		P
Sept. 18/90	617			F	241		AD	G		P
Sept. 18/90	624			M	192		AD	G		P
Sept. 18/90	758	4.75		M	141	177-3	AD	M		P
Sept. 18/90	576			M	140		AD	G		P
Sept. 18/90	734	5.1		M	77	175-2	AD	S		P
Sept. 18/90				F			AD	G	E	
Sept. 18/90	708			F	320		None	G		P
Sept. 18/90	630			F	307		None	G		P
Sept. 18/90	694			F	325		None	G		P
Sept. 18/90	623			F	324		None	G		P
Sept. 18/90	676			F	312		AD	G		P
Sept. 18/90	633			F	313		AD	G		P
Sept. 18/90	719	5.1		F	323	179-4	None	G		P
Sept. 18/90	673	3.65		F	322	179-3	None	G		P
Sept. 18/90	698			M	99		AD	S		P
Sept. 18/90	721			F			AD	S	P	
Sept. 18/90	602			M	305		A	G		P
Sept. 18/90	717			M	304		AD	M		P
Sept. 18/90	668	3.8		F	196	178-1	None	G		P
Sept. 18/90	679			F	326		None	G		P
Sept. 18/90	619			M	329		None	G		P
Sept. 18/90	613			M	327		AD	G		P
Sept. 18/90	610			M	57		None	G		P
Sept. 18/90	620			M	85		AD	G		P
Sept. 18/90	667			F	331		AD	G		P
Sept. 18/90	574			F			None	G	P	
Sept. 18/90	721			M	53		AD	G		P
Sept. 18/90	569	2.3		M	84	175-3	None	M		P
Sept. 18/90	718			M	89		AD	G		P
Sept. 18/90	674			F	328		AD	S		P
Sept. 18/90	679			F	198		AD	G		P
Sept. 18/90	677			F	311		None	S		P

Table 5 (cont'd)

Date		Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept.	18/90	657		F	308			None	S	P
Sept.	18/90	475	1.3	M	55	174-8		AD	G	P
Sept.	18/90	656		M	54			None	G	P
Sept.	18/90	628		F	47			None	G	P
Sept.	18/90	548		F	46			None	G	P
Sept.	18/90	606		F	317			None	G	P
Sept.	18/90	615		M	52			None	G	P
Sept.	18/90	667	3.2	F	68			None	S	P
Sept.	18/90	734	4.4	M	243	178-6		AD	G	P
Sept.	18/90	350		M	246			AD	G	P
Sept.	18/90	629		M	166			None	S	P
Sept.	18/90	553		M	217			AD	G	P
Sept.	18/90	480		M	315			AD	G	P
Sept.	18/90	723		F	306			AD	M	P
Sept.	18/90	600		F	143			AD	G	P
Sept.	18/90	731		M	309			None	M	P
Sept.	18/90	592		M	230			AD	G	P
Sept.	18/90	670	3.9	F	62	174-9		AD	G	P
Sept.	18/90	708		M	148			None	M	P
Sept.	18/90	618		M	227			AD	G	P
Sept.	18/90	726		M	247			AD	G	P
Sept.	18/90	570		M	147			None	M	P
Sept.	18/90	540		M	144			AD	G	P
Sept.	18/90			M					G	E
Sept.	18/90	594	2.7	F	186	177-10		None	G	TM
Sept.	18/90	683		M	318			None	M	P
Sept.	18/90	653		M	316			AD	G	P
Sept.	18/90	596	1.4	M	103	176-2		AD	G	P
Sept.	18/90	657		F	204			None	G	P
Sept.	18/90	767		M	58			AD	G	P
Sept.	18/90			F				AD	G	E
Sept.	18/90	673		M	321			None	G	P
Sept.	18/90	638		M	90			AD	S	P
Sept.	18/90	678		F	303			AD	G	P
Sept.	18/90	658		F	45			None	S	P
Sept.	18/90	675		F	102			None	S	P
Sept.	18/90	734		M	104			AD	S	P
Sept.	18/90	661		F	206			None	G	P
Sept.	18/90	746	5.55	M	310	179-1		AD	M	P
Sept.	18/90	736		M	330			AD	M	P
Sept.	18/90	649	3.35	F	44	174-4		AD	G	P
Sept.	19/90	591	2.6	F	343	179-9		AD	S	P
Sept.	19/90	592	2.1	F	344	179-10	AD	S		P
Sept.	19/90	584	2.3	M	341	179-7		AD	G	P
Sept.	19/90	652	3.35	F	342	179-8		None	S	P

Table 5 (cont'd)

Date		Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept.	19/90	726	5.05	F	346	180-2	None	S		P
Sept.	19/90	645	3.55	F	345	180-1	AD	S		P
Sept.	20/90	702	4.25	M	347	180-3	AD	S		P
Sept.	21/90	650	2.9	F	351	180-7	None	S		P
Sept.	21/90	678	4.1	F	352	180-8	AD	G		P
Sept.	21/90	721	4.6	F	354	181-1	AD	S		P
Sept.	21/90	734	5.1	M	357	181-4	None	G		P
Sept.	21/90	703	4.25	M	355	181-2	AD	S		P
Sept.	21/90	632	3.6	F	349	180-5	AD	S		P
Sept.	21/90	707	4.45	M	353	180-9	None	G		P
Sept.	21/90	709	4.85	M	348	180-4	None	M		P
Sept.	21/90	632	3.2	F	350	180-6	None	G		P
Sept.	21/90	654	3.4	F	356	181-3	None	S		P
Sept.	24/90	811		M	409		None	M		P
Sept.	24/90	616		M	406		None	M		P
Sept.	24/90	779	5.65	M	383	181-10	AD	M		P
Sept.	24/90	728		M	411		None	M		P
Sept.	24/90	678	4.1	F	415	182-9	None	S		P
Sept.	24/90	640		F	376		AD	G		P
Sept.	24/90	671		F	414		AD	M		P
Sept.	24/90	618		M	428		AD	G		P
Sept.	24/90	727		M	426		AD	M		P
Sept.	24/90	658		F	363		AD	S		P
Sept.	24/90	699		F	380		AD	S		P
Sept.	24/90	670		F	373		AD	S		P
Sept.	24/90	584	2.45	F	374	181-8	AD	S		P
Sept.	24/90	698		F	412		AD	M		P
Sept.	24/90	720		M	430		None	G		P
Sept.	24/90	725	4.7	M	435	183-2	None	G		P
Sept.	24/90	785		M	419		None	M		P
Sept.	24/90	605		M	436	183-3	ADRM	G		P
Sept.	24/90	697		M	422		None	G		P
Sept.	24/90	687		M	466		A	M		P
Sept.	24/90	758		M	423		AD	M		P
Sept.	24/90	715	4.4	M	471	183-9	AD	G		P
Sept.	24/90	609		M	438		AD	G		P
Sept.	24/90	705		M	478		None	G		P
Sept.	24/90	664		M	452		A	G		P
Sept.	24/90	695	3.7	M		184-2	AD	M		P
Sept.	24/90	523		M	477		None	G		P
Sept.	24/90	598		M	448		AD	G		P
Sept.	24/90	731		M	449		AD	M		P
Sept.	24/90	535		M	443		Non	M		P
Sept.	24/90	669		M	371		AD	G		P
Sept.	24/90	720		M	368		AD	M		P

Table 5 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept. 24/90 700			M	369		AD	S		P
Sept. 24/90 716			M	455		AD	G		P
Sept. 24/90 730	4.6		M	453	183-6	A	M		P
Sept. 24/90 740			M	450		AD	G		P
Sept. 24/90 471			M	485		None	G		P
Sept. 24/90 570			M	467		AD	S		P
Sept. 24/90 695	3.85		M	481	183-10	AD	M		P
Sept. 24/90 660	3.75		M	403	182-7	AD	G		P
Sept. 24/90 695			M	407		None	M		P
Sept. 24/90 497			M	491		None	G		P
Sept. 24/90 699			M	440		None	M		P
Sept. 24/90 730			M	441		None	M		P
Sept. 24/90 690			M	454		None	M		P
Sept. 24/90 568			M	479		None	G		P
Sept. 24/90 744			M	483		None	M		P
Sept. 24/90 792			M	433		None	M		P
Sept. 24/90 660	3.35		M	461	183-7	AD	M		P
Sept. 24/90 717			F	427		AD	G		P
Sept. 24/90 661			M	395		AD	G		P
Sept. 24/90 700			F	387		AD	S		P
Sept. 24/90 684			F	457		AD	S		P
Sept. 24/90 634			F	432		AD	G		P
Sept. 24/90 679			M	463		AD	M		P
Sept. 24/90 739			M	460		None	M		P
Sept. 24/90 634			F	398		None	G		P
Sept. 24/90 662			F	445		AD	G		P
Sept. 24/90 658	3.6		F	444	183-5	AD	G		P
Sept. 24/90 706			F	456		AD	G		P
Sept. 24/90 652			F	384		AD	G		P
Sept. 24/90 497			M	391		None	G		P
Sept. 24/90			F			AD	M		P
Sept. 24/90 718			M	458		AD	M		P
Sept. 24/90 649			F	442		AD	G		P
Sept. 24/90 667			F	487		None	G		P
Sept. 24/90 652			F	489		None	G		P
Sept. 24/90 665			F	451		AD	G		P
Sept. 24/90 697			F	399		AD	S		P
Sept. 24/90 675			F	486		AD	M		P
Sept. 24/90 545			F	400		AD	G		P
Sept. 24/90 682			F	439		AD	S		P
Sept. 24/90 700	4.15		F	394	182-4	AD	S		P
Sept. 24/90 605			F	405		None	G		P
Sept. 24/90 676			F	490		AD	S		P
Sept. 24/90 619			F	393		None	S		P
Sept. 24/90 706			F	408		None	G		P

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Table 5 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept. 24/90 695			F	488		None	G		P
Sept. 24/90			F			None	S	E	
Sept. 24/90 689			F	418		None	S		P
Sept. 24/90 693			F	429		None	G		P
Sept. 24/90 645			F	468		AD	G		P
Sept. 24/90 660			F	476		AD	S		P
Sept. 24/90 598			F	464		AD	M		P
Sept. 24/90 646			F	493		None	G		P
Sept. 24/90 715			F	480		None	G		P
Sept. 24/90 601			F	474		None	G		P
Sept. 24/90 615			F	469		A	G		P
Sept. 24/90 677			F	437		AD	M		P
Sept. 24/90 649	2.95		F	424	183-1	AD	G		P
Sept. 24/90 681			F	401		AD	G		P
Sept. 24/90 674			F	381		None	S		P
Sept. 24/90 695			F	420		None	G		P
Sept. 24/90 680			F	482		AD	G		P
Sept. 24/90 665			F	377		None	G		P
Sept. 24/90 708			F	459		None	M		P
Sept. 24/90 689			F	421		None	G		P
Sept. 24/90 688	4.3		F	365	181-7	None	S		P
Sept. 24/90 680			F	367		AD	S		P
Sept. 24/90 555			F	470		None	M		P
Sept. 24/90 603			F	472		None	M		P
Sept. 24/90 600			F	446		None	G		P
Sept. 24/90 583			F	425		AD	G		P
Sept. 24/90 665			F	462		AD	G		P
Sept. 24/90 591			F	447		AD	M		P
Sept. 24/90 661			F	473		None	G		P
Sept. 24/90 684			F			AD	G	E	P
Sept. 24/90 648			F	434		None	G		P
Sept. 24/90 688			F	475		AD	M		P
Sept. 24/90 657			F	362		AD	S		P
Sept. 24/90 662			F	370		AD	S		P
Sept. 24/90 712			F	360		None	S		P
Sept. 24/90 697			F	364		AD	S		P
Sept. 24/90 738			M	417		AD	M		P
Sept. 24/90 639			M	389		None	G		P
Sept. 24/90 555			M	402		AD	G		P
Sept. 24/90	4.4		M			AD	S	E	
Sept. 24/90 621			M	385		None	R		P
Sept. 24/90 763	5.3		M	358	181-5	None	M	E	P
Sept. 24/90 725			M			None	G		P
Sept. 24/90 766			M	397		AD	M		P
Sept. 24/90 706			M	366		None	M		P

Table 5 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept. 24/90	780		M	361		AD	M		P
Sept. 24/90	691		M	359		AD	S		P
Sept. 24/90	404		M	396		None	G		P
Sept. 24/90	653		M	379		AD	M		P
Sept. 24/90	752		M	465		None	M		P
Sept. 24/90	718		M	378		None	G		PP
Sept. 24/90	756		M	372		AD	S		PP
Sept. 24/90	614		M	375		AD	S		P
Sept. 24/90	684		M	413		None	M		P
Sept. 24/90	618		M	390		None	G		P
Sept. 24/90	618		M	386		AD	G		PP
Sept. 24/90	412		M	388		AD	G		PP
Sept. 24/90	715		M	416		AD	G		PP
Sept. 24/90	700		M	382		AD	M		PP
Sept. 25/90	658	3.2	F	495		None	G		PP
Sept. 25/90	677		F	499		AD	S		PP
Sept. 25/90	646		F	496		AD	S		PP
Sept. 25/90	698		F	500		AD	S		PP
Sept. 25/90	654		F	501		None	M		P
Sept. 25/90	657	3.65	F	504	184-5	None	G		P
Sept. 25/90	753		M	502		AD	M		P
Sept. 25/90	709		M	498		AD	S		PP
Sept. 25/90	683		M	503		AD	S		PP
Sept. 25/90	654		M	497		None	M		P
Sept. 25/90	761	5.3	M	494	184-4	AD	M		P
Sept. 28/90	705		M	511		AD	G		P
Sept. 28/90	794		M	513		None	M		P
Sept. 28/90	684		M	535		None	G		P
Sept. 28/90	674		M	510		None	G		P
Sept. 28/90	699		M	515		AD	M		P
Sept. 28/90	671		M	522		AD	G		P
Sept. 28/90	629		M	509		AD	G		P
Sept. 28/90	744		M	516		AD	G		P
Sept. 28/90	698		M	526		None	M		P
Sept. 28/90	697	4.4	M	534	185-5	AD	G		P
Sept. 28/90	639		M	528		AD	G		P
Sept. 28/90	678	4.1	M	505	184-8	None	M		P
Sept. 28/90	654		M	537		AD	G		P
Sept. 28/90	740		M	538		None	M		P
Sept. 28/90	691		M	507		None	G		P
Sept. 28/90	603		M	540		None	G		P
Sept. 28/90	684		M	541		None	G		P
Sept. 28/90	417	1	M	536		AD	G		P
Sept. 28/90	693		M	539		None	G		P
Sept. 28/90	709		F	531		AD	G		P

Table 5 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept. 28/90	587		F	533		AD	S		P
Sept. 28/90	665		F	512		AD	G		P
Sept. 28/90	661		F	506		None	S		P
Sept. 28/90	633		F	521		AD	S		P
Sept. 28/90	603		F	529		AD	S		P
Sept. 28/90	680	3.55	F	525	185-5	None	G		P
Sept. 28/90	677		F	524		None	S		P
Sept. 28/90	730		F	508		ADLV	G		P
Sept. 28/90	660		M	523		None	G		P
Sept. 28/90	637		F	530		None	G		P
Sept. 28/90	655		M	519		AD	G		P
Sept. 28/90	487		M	527		AD	G		P
Sept. 28/90	707	4.45	F	514	185-2	AD	G		P
Sept. 28/90	667		F	517		AD	G		P
Sept. 28/90	710		F	532		None	G		P
Sept. 28/90	671		F	518		None	G		P
Sept. 29/90	689	4.4	M	543	185-9	None	G		P
Sept. 29/90	703	4.35	M	547	186-3	None	M		P
Sept. 29/90	690	4.05	F	542	185-8	AD	G		P
Sept. 29/90	637	3.25	F	544	185-10	None	S		P
Sept. 29/90	648	3.8	F	548	186-4	AD	S		P
Sept. 29/90	707	5.05	F	546	186-2	None	G		P
Sept. 29/90	638	3.25	M	545	186-1	AD	G		P
Sept. 29/90	674	3.4	F	549	186-5	None	G		P
Sept. 29/90	684	4.2	F	551	186-7	AD	S		P
Sept. 29/90	678	3.9	F	550	186-6	AD	G		P
Sept. 30/90	684	3.65	F	552	186-8	AD	S		P
Sept. 30/90	625	3.3	F	553	186-10	AD	S		P
Oct. 01/90	679		M	559		None	M		P
Oct. 01/90	713	5.25	F	596		None	G		P
Oct. 01/90	632	2.8	M	560	187-5	None	M		P
Oct. 01/90	669		M	561		None	G		P
Oct. 01/90	652	3.4	F	572	187-8	None	G		P
Oct. 01/90	674		F	582		None	G		P
Oct. 01/90	649		F	597		AD	S		P
Oct. 01/90	706		F	593		AD	S		P
Oct. 01/90	661		M	564		AD	M		P
Oct. 01/90	647	2.7	M	610	188-8	AD	G		P
Oct. 01/90	629		F	563		AD	G		P
Oct. 01/90	428		M	562		None	G		P
Oct. 01/90	767		M	607		None	M		P
Oct. 01/90	744		M	598		None	M		P
Oct. 01/90	761		M	556		None	M		P
Oct. 01/90	785		M	609		None	M		P
Oct. 01/90	489		M	557		AD	G		P

Table 5 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Oct. 01/90	639		F				None	G	E
Oct. 01/90	688		F	604			AD	G	P
Oct. 01/90	654		F	573			None	G	P
Oct. 01/90	704	4.3	F	554	187-2		None	G	P
Oct. 01/90	561		F	577			AD	M	P
Oct. 01/90	705	4.3	M	601	188-6		AD	G	P
Oct. 01/90	708	4.8	M	570	187-7		AD	G	P
Oct. 01/90	558		M	602			None	M	P
Oct. 01/90	703	4.7	F	565	187-6		None	G	P
Oct. 01/90	674		M	599			AD	G	P
Oct. 01/90	731		F	568			None	G	P
Oct. 01/90	718		F	574			AD	G	P
Oct. 01/90	657		F	579			None	G	P
Oct. 01/90	629		F	571			AD	G	P
Oct. 01/90	708		F	567			None	G	P
Oct. 01/90	699		F	580			None	G	P
Oct. 01/90	671		F	608			None	G	P
Oct. 01/90	690	4.05	F	555	187-3		AD	G	P
Oct. 01/90	681		F	566			None	G	P
Oct. 01/90	691	4.4	F	605	188-7		AD	S	P
Oct. 01/90	709		M	569			None	G	P
Oct. 01/90	762	5.7	M	576	187-9		AD	M	P
Oct. 01/90	690		M	575			None	M	P
Oct. 01/90	724		M	578			AD	G	P
Oct. 01/90	704		M	584			None	M	P
Oct. 01/90	602	2.35	M	581	187-10		None	G	P
Oct. 01/90	662		F	592			None	S	P
Oct. 01/90	689		M	558			AD	G	P
Oct. 01/90	653		F	583			None	G	P
Oct. 01/90	576		M	600			AD	S	P
Oct. 01/90	687		F	588			AD	G	P
Oct. 01/90	725		M	606			AD	M	P
Oct. 01/90	695		M	603			None	G	P
Oct. 01/90	701		M	594			None	M	P
Oct. 01/90	729	5.0	M	591	188-2		None	G	P
Oct. 01/90	562		M	595	188-3		AD	G	P
Oct. 01/90	553	2.0	M	586	188-1		None	M	P
Oct. 01/90	698		M	585			AD	M	P
Oct. 01/90	556		M	587			AD	M	P
Oct. 01/90	723		M	590			AD	M	P
Oct. 01/90	736		M	589			AD	M	P
Oct. 02/90	659		M	635			AD	M	P
Oct. 02/90	695		F	633			None	S	P
Oct. 02/90	712		F	636			AD	G	P
Oct. 02/90	646		F	612			None	G	P

Table 5 (cont'd)

Date		Length (mm)	Weight (kg)	Sex	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Oct. 02/90	708			M	639			None	G	P
Oct. 02/90	667			F	629			None	M	P
Oct. 02/90	702			F	616			None	G	P
Oct. 02/90	758			M	628			None	M	P
Oct. 02/90	703			M	621			None	G	P
Oct. 02/90	703	5.0		F	632	189-3		AD	G	P
Oct. 02/90	574	2.2		F	613	188-9		AD	G	P
Oct. 02/90	719	5.3		M	637	189-4		AD	M	P
Oct. 02/90	686			M	630			None	M	P
Oct. 02/90	712			M	620			None	M	P
Oct. 02/90	777	5.8		M	618	189-1		None	M	P
Oct. 02/90	685			F	626			AD	G	P
Oct. 02/90	654			F	617			None	G	P
Oct. 02/90	627			M	634			AD	G	P
Oct. 02/90	737			M	615			AD	M	P
Oct. 02/90	578			M	614			AD	G	P
Oct. 02/90	537			M	638			AD	G	P
Oct. 02/90	683			M	619			None	M	P
Oct. 02/90	679	3.8		M	627	189-2		AD	G	P
Oct. 02/90	706			M	631			None	G	P
Oct. 04/90	706			F		189-6		AD	G	E
Oct. 04/90	642			F		189-7		AD	G	E
Oct. 04/90	694	4.3		F		189-9		None	M	P
Oct. 04/90	668			M		189-5		None	G	E
Oct. 04/90	659	3.7		M		189-8		None	M	P
Oct. 11/90	693	4.4		M	646	190-3		AD	M	P
Oct. 18/90	555	2.35		M	2	190-5		None	G	R
Oct. 18/90	688	4.2		F	1	190-4		None	G	R
Oct. 18/90	519	1.55		M	3	190-6		None	M	R
Oct. 19/90	720	4.2		F	4	190-7		None	G	R

Table 6. Daily escapement of jack coho including biological characteristics and tagging information. (Fin Clip: AD=adipose clip, RV=right ventral clip, LV=left ventral clip, RM=right maxillary clip and LM=left maxillary clip. Con't: S=silver, G=green, M=mature and R=ripe. Other: TM=trap mort, P=punched, DP= double punch and E= escaped upstream. Tag Colour: Y=yellow.

Date	Length (mm)	Weight (kg)	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Aug. 20/90	325		536	154-9	AD	S		Y
Aug. 23/90	264	0.20	538	155-1	AD	S		Y
Aug. 29/90	290		581	157-4	AD	S		Y
Aug. 29/90					S		E	
Aug. 29/90	290	0.50	575	156-4	AD	S		Y
Aug. 29/90	326	0.65	565		None	S		Y
Aug. 29/90	350	0.50	564	156-9	None	S		Y
Aug. 29/90	316	0.60	563	156-8	AD	S		Y
Aug. 29/90	303	0.40	543	155-6	AD	S		Y
Aug. 29/90	311	0.41	544	155-7	AD	S		Y
Aug. 30/90							E	
Aug. 30/90	245		619		AD	S		Y
Aug. 30/90	343	0.65	634	159-4	None	G		Y
Aug. 30/90	286		795		AD	S		Y
Aug. 30/90							E	
Aug. 30/90	298	0.30	589	157-10	AD	S		Y
Aug. 30/90	286	0.30	588	157-9	AD	S		Y
Aug. 30/90	314	0.40	594	158-2	None	S		Y
Aug. 30/90	297	0.35	593		AD	S		Y
Aug. 30/90	268		743	161-10	AD	S		Y
Aug. 30/90	308	0.35	776	162-7	AD	S		Y
Aug. 30/90	273		873		AD	S		Y
Aug. 30/90	243		829		AD	S		Y
Aug. 30/90	318		734	161-9	AD	S		Y
Aug. 30/90	362		747		AD	G		Y
Aug. 30/90	288		839		AD	S		Y
Aug. 30/90	292		737		AD	S		Y
Aug. 30/90	292		872		AD	S		Y
Aug. 30/90	303		753		AD	S		Y
Aug. 30/90	299		845		AD	S		Y
Aug. 30/90	284		723		AD	S		Y
Aug. 30/90	306	0.40	713	161-3	None	S		Y
Aug. 30/90	288	0.40	704	160-10	AD	S		Y
Aug. 30/90	288	0.35	614	158-8	AD	S		Y
Aug. 30/90	287		857		None	S		Y
Aug. 30/90	300		864		None	S		Y
Aug. 30/90							E	
Aug. 30/90	243		859		AD	S		Y
Aug. 30/90	303		855		AD	S		Y
Aug. 30/90	303		814		AD	S		Y
Aug. 30/90	284	0.40	583	157-6	None	S		Y

Table 6 (cont'd)

Date	Length (mm)	Weight (kg)	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Aug. 30/90	282		898		AD	S		Y
Aug. 30/90	272	0.15	584	157-7	AD			Y
Aug. 30/90	287		658	159-10	AD	S		Y
Aug. 30/90	236		661		AD	S		Y
Aug. 30/90	306		825		None	S		Y
Aug. 30/90	269	0.20	595		AD	S		Y
Aug. 30/90	242		824		AD	S		Y
Aug. 30/90	306	0.40	833	163-8	AD	S		Y
Aug. 30/90	305		664		AD	S		Y
Aug. 30/90	284		660		AD	S		Y
Aug. 31/90	255			164-6	AD	S		
Sept. 01/90					AD	S	DP	
Sept. 01/90					None	S	DP	
Sept. 01/90	277				AD	S	DP	
Sept. 01/90	345			165-2	AD	S	DP	
Sept. 01/90					AD	S	DP	
Sept. 05/90	270			165-5	None	S	DP	
Sept. 10/90	292			166-1	AD	S	DP	
Sept. 10/90	317	0.45		166-4		AD	S	DP
Sept. 10/90	315	0.45		166-2		AD	S	DP
Sept. 10/90	274			166-6		AD	S	DP
Sept. 10/90	317	0.47		166-5		None	S	DP
Sept. 10/90	285					AD	S	DP
Sept. 10/90	269			166-3		AD	S	DP
Sept. 11/90	292	0.30		168-5		AD	S	DP
Sept. 11/90	301	0.30		168-9		None	S	DP
Sept. 11/90	292	0.30		168-8		AD	S	DP
Sept. 11/90	297	0.30		168-6		AD	S	DP
Sept. 11/90	333	0.50		169-1		AD	S	DP
Sept. 11/90	332	0.50		168-10		AD	S	DP
Sept. 11/90	345	0.50		168-1		None	S	DP
Sept. 11/90	327	0.40		168-7		None	S	DP
Sept. 11/90	332	0.40		168-2		AD	S	DP
Sept. 11/90	307	0.30		168-3		None	S	DP
Sept. 11/90	292	0.30		168-4		AD	S	DP
Sept. 11/90	257	0.10		169-2		AD	S	DP
Sept. 12/90	259	0.15		169-6		None	S	DP
Sept. 12/90	267	0.25		169-5		AD	S	DP
Sept. 12/90	342	0.55		169-4		AD	S	DP
Sept. 13/90	304	0.40		169-10		None	S	DP
Sept. 13/90	310	0.50		169-9		AD	S	DP
Sept. 13/90	349	0.60		169-7		None	S	DP
Sept. 13/90	263	0.25		169-8		None	S	DP
Sept. 14/90	250	0.20		170-1		None	S	DP
Sept. 14/90	244	0.20		170-3		AD	S	DP

Table 6 (cont'd)

Date	Length (mm)	Weight (kg)	Tag #	Scale #	Fin Clip Cond.	Other	Tag Colour
Sept. 14/90	296	0.30		170-2	AD	S	DP
Sept. 15/90	307				AD	S	DP
Sept. 15/90	337	0.70		171-8	AD	S	DP
Sept. 15/90	300				AD	S	DP
Sept. 15/90	345	0.60		172-1	None	S	DP
Sept. 15/90	357				AD	S	DP
Sept. 15/90	259	0.20		172-3	AD	S	DP
Sept. 15/90	308	0.50		170-5	None	S	DP
Sept. 15/90	320				AD	S	DP
Sept. 15/90	279				AD	S	
Sept. 15/90	290			170-8	AD	S	DP
Sept. 15/90	332	0.50		171-6	AD	S	DP
Sept. 15/90	343	0.45		170-10	AD	S	DP
Sept. 15/90	302	0.30		170-9	None	S	DP
Sept. 15/90	316	0.50		170-7	AD	S	DP
Sept. 15/90	327				AD	S	DP
Sept. 15/90	293				AD	S	DP
Sept. 15/90	229				AD	S	DP
Sept. 15/90	318				None	S	DP
Sept. 15/90	321				AD	S	DP
Sept. 15/90	314				AD	S	DP
Sept. 15/90	254				AD	S	DP
Sept. 15/90	295				None	S	DP
Sept. 15/90	298				None	S	DP
Sept. 15/90	293				None	S	DP
Sept. 15/90	291	0.30		172-6	AD	S	DP
Sept. 15/90	318	0.45		172-4	None	S	DP
Sept. 15/90	249				None	S	DP
Sept. 15/90	279				None	S	DP
Sept. 15/90	272	0.20		172-5	AD	S	DP
Sept. 15/90	331				None	S	DP
Sept. 15/90	288				AD	S	DP
Sept. 15/90	267				AD	S	DP
Sept. 17/90	282	0.30		173-7	AD	S	DP
Sept. 17/90	279	0.30		173-5	AD	S	DP
Sept. 17/90	311	0.35		173-4	None	S	DP
Sept. 17/90	305	0.40		173-10	AD	S	DP
Sept. 17/90	294	0.30		173-6	AD	S	DP
Sept. 17/90	298	0.30		173-1	AD	S	DP
Sept. 17/90	281	0.30		173-9	AD	S	DP
Sept. 17/90	257	0.20		172-9	AD	S	DP
Sept. 17/90	307	0.30		173-2	AD	S	
Sept. 17/90	306	0.30		173-3	None	S	DP
Sept. 17/90	317	0.40		172-10	None	S	DP
Sept. 18/90	341				None	S	DP

Table 6 (cont'd)

Date	Length (mm)	Weight (kg)	Tag #	Scale #	Fin Clip Con't.	Other	Tag Colour
Sept. 18/90	338				None	S	DP
Sept. 18/90	306				AD	S	DP
Sept. 18/90	305				None	S	DP
Sept. 18/90	321				AD	S	DP
Sept. 18/90	306				AD	S	DP
Sept. 18/90	323	0.40		174-10	AD	S	DP
Sept. 18/90	385				AD	S	DP
Sept. 18/90	272				AD	S	DP
Sept. 18/90	310				A	S	DP
Sept. 18/90	281				AD	S	DP
Sept. 18/90	296				AD	S	DP
Sept. 18/90	320	0.50		174-7	AD	S	DP
Sept. 18/90	281				AD	S	DP
Sept. 18/90	338				AD	S	DP
Sept. 18/90	320				None	S	DP
Sept. 18/90	305				AD	S	DP
Sept. 18/90	320				None	S	DP
Sept. 18/90	359	0.50		175-4	AD	S	DP
Sept. 18/90	269				None	S	DP
Sept. 18/90	322				AD	S	DP
Sept. 18/90	343				None	S	DP
Sept. 18/90	329	0.60		174-6	ADRVLM	S	DP
Sept. 18/90	339				AD	S	DP
Sept. 18/90	301				AD	S	DP
Sept. 18/90	294	0.30		175-7	AD	S	DP
Sept. 18/90	303				AD	S	DP
Sept. 18/90	328	0.45		177-8	AD	S	DP
Sept. 18/90	312				None	S	DP
Sept. 18/90	290				AD	S	DP
Sept. 18/90	309				None	S	DP
Sept. 18/90	321				A	S	DP
Sept. 18/90	324	0.50		177-4	AD	S	DP
Sept. 18/90	263				AD	S	DP
Sept. 18/90	284				None	S	DP
Sept. 18/90	324				None	S	DP
Sept. 18/90	302				AD	S	DP
Sept. 18/90	339				AD	S	DP
Sept. 18/90	302				AD	S	DP
Sept. 18/90	270				AD	S	DP
Sept. 18/90	287	0.30		176-5	AD	S	DP
Sept. 18/90	286				None	S	DP
Sept. 18/90	332				None	S	DP
Sept. 18/90	324				AD	S	DP
Sept. 18/90	328	0.50		179-5	None	S	DP
Sept. 18/90	206				AD	S	DP

Table 6 (cont'd)

Date	Length (mm)	Weight (kg)	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept. 18/90	295	0.25		175-6	AD	S	DP	
Sept. 18/90	309				None	S	DP	
Sept. 18/90	301				AD	S	DP	
Sept. 18/90	308				AD	S	DP	
Sept. 18/90	331				AD	S	DP	
Sept. 18/90	305				None	S	DP	
Sept. 18/90	322				AD	S	DP	
Sept. 18/90	322				AD	S	DP	
Sept. 18/90	302				None	S	DP	
Sept. 18/90	315				AD	S	DP	
Sept. 18/90	315				AD	S	DP	
Sept. 18/90	299				AD	S	DP	
Sept. 18/90	295	0.30		177-2	AD	S	DP	
Sept. 18/90	273	0.25		176-10	AD	S	DP	
Sept. 18/90	317				AD	S	DP	
Sept. 18/90	299				AD	S	DP	
Sept. 18/90	302				None	S	DP	
Sept. 18/90	270	0.25		175-5	AD	S	DP	
Sept. 18/90	268				None	S	DP	
Sept. 18/90	259				AD	S	DP	
Sept. 18/90	268				AD	S	DP	
Sept. 18/90	272				None	S	DP	
Sept. 18/90	329				AD	S	DP	
Sept. 18/90	324				None	S	DP	
Sept. 18/90	292				None	S	DP	
Sept. 18/90	279				None	S	DP	
Sept. 18/90	282	0.25		176-1	AD	S	DP	
Sept. 18/90	345				AD	S	DP	
Sept. 18/90	312				AD	S	DP	
Sept. 18/90	273				AD	S	DP	
Sept. 18/90	287				AD	S	DP	
Sept. 18/90	289				AD	S	DP	
Sept. 18/90	296				AD	S	DP	
Sept. 18/90	302	0.35		176-3	None	S	DP	
Sept. 18/90	315				AD	S	DP	
Sept. 18/90	325	0.45		174-2	AD	S	DP	
Sept. 18/90	321				None	S	DP	
Sept. 18/90	307				AD	S	DP	
Sept. 18/90	304				None	G	DP	
Sept. 18/90	302				AD	S	DP	
Sept. 18/90	221				None	S	DP	
Sept. 18/90	337	0.50		174-3	None	S	DP	
Sept. 18/90	340				None	S	DP	
Sept. 18/90	279				None	S	DP	
Sept. 18/90	249	0.25		176-7	AD	S	DP	

Table 6 (cont'd)

Date	Length (mm)	Weight (kg)	Tag #	Scale #	Fin Clip Con't.	Other	Tag Colour
Sept. 18/90	320	0.45		179-2	AD	S	DP
Sept. 18/90	302				None	S	DP
Sept. 18/90	325				A	S	DP
Sept. 18/90	289				AD	S	DP
Sept. 18/90	282				AD	S	DP
Sept. 18/90	293				AD	S	DP
Sept. 18/90	309				None	G	DP
Sept. 18/90	276				None	S	DP
Sept. 18/90	298				A	S	DP
Sept. 18/90	305				None	S	DP
Sept. 18/90	271				AD	S	DP
Sept. 18/90	296				AD	S	DP
Sept. 18/90	303				AD	S	DP
Sept. 18/90	337	0.45		178-5	AD	S	DP
Sept. 18/90	419				A	S	DP
Sept. 18/90	231				None	G	DP
Sept. 18/90	321				AD	G	DP
Sept. 18/90	321	0.50		178-2	A	S	DP
Sept. 21/90	267				AD	S	P
Sept. 21/90	337	0.60		180-10	None	S	P
Sept. 21/90	263				AD	S	P
Sept. 24/90	317				A	G	P
Sept. 24/90	335				AD	S	P
Sept. 24/90	305				AD	G	P
Sept. 24/90	338				AD	G	P
Sept. 24/90	302				None	G	P
Sept. 24/90	297				AD	G	P
Sept. 24/90	345	0.50			None	S	P
Sept. 24/90	274				AD	S	P
Sept. 24/90	304				AD	S	P
Sept. 24/90	326				None	G	P
Sept. 24/90	284				AD	S	P
Sept. 24/90	309				None	S	P
Sept. 24/90	323				AD	S	P
Sept. 24/90	327				AD	S	P
Sept. 24/90	344				None	S	P
Sept. 24/90	309				AD	S	P
Sept. 24/90	353				A	S	
Sept. 24/90	305				AD	S	P
Sept. 24/90	315				AD	S	P
Sept. 24/90	287				AD	S	P
Sept. 24/90	244				AD	S	P
Sept. 24/90	304				AD	G	P
Sept. 24/90	308				A	S	P
Sept. 24/90	381				None	G	P

Table 6 (cont'd)

Date	Length (mm)	Weight (kg)	Tag #	Scale #	Fin Clip Con't.	Other	Tag Colour
Sept. 24/90	331				None	G	P
Sept. 24/90	281				AD	G	P
Sept. 24/90	308	0.40		183-4	AD	S	P
Sept. 24/90	331				AD	S	P
Sept. 24/90	275				AD	S	P
Sept. 24/90	310				ADRV	G	P
Sept. 24/90	272				AD	S	P
Sept. 24/90	326				None	S	P
Sept. 24/90	324				None	G	P
Sept. 24/90	313				AD	S	P
Sept. 24/90	320				None	S	P
Sept. 24/90	304				A	S	P
Sept. 24/90	312				AD	S	P
Sept. 24/90	335				None	S	P
Sept. 24/90	270				AD	S	P
Sept. 24/90	320				AD	S	P
Sept. 24/90	280				AD	G	P
Sept. 24/90	262				AD	S	P
Sept. 24/90	314	0.35		181-9	None	S	P
Sept. 24/90	306	0.35		181-6	AD	S	P
Sept. 24/90	322				None	S	P
Sept. 24/90	319				A	S	P
Sept. 24/90	271	0.15		182-1	AD	S	P
Sept. 24/90	349				AD	S	P
Sept. 24/90	309				AD	S	P
Sept. 24/90	305				None	G	P
Sept. 24/90	368				None	G	P
Sept. 24/90	304			182-2	ADRM	S	P
Sept. 24/90	331				AD	S	P
Sept. 24/90	285				None	S	P
Sept. 24/90	268				None	S	P
Sept. 24/90	359				None	G	P
Sept. 24/90	296				None	G	P
Sept. 24/90	301				AD	G	P
Sept. 24/90	288				A	G	P
Sept. 24/90	321				None	G	P
Sept. 24/90	370				AD	G	P
Sept. 24/90	328				AD	G	P
Sept. 24/90	281				AD	G	P
Sept. 24/90	322	0.50		182-5	AD	G	P
Sept. 24/90	289				None	S	E
Sept. 24/90	268				AD	G	P
Sept. 24/90	325	0.45		182-3	None	S	P
Sept. 24/90	314				AD	G	P
Sept. 24/90	320				None	G	P

Table 6 (cont'd)

Date	Length (mm)	Weight (kg)	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept. 24/90	335				AD	S	P	
Sept. 24/90	364				AD	G	P	
Sept. 24/90	315				None	G	P	
Sept. 24/90	297				AD	G	P	
Sept. 24/90	271				AD	S	P	
Sept. 24/90	340				AD	G	P	
Sept. 24/90	337				AD	G	E	
Sept. 24/90	297				None	G	P	
Sept. 24/90	341				None	S	P	
Sept. 24/90	397				AD	M	P	
Sept. 24/90	292	0.30		184-3	None	S	P	
Sept. 24/90	314				None	S	P	
Sept. 24/90	315				AD	S	P	
Sept. 24/90	302				AD	G	P	
Sept. 24/90	280				AD	S	P	
Sept. 24/90	344				None	G	P	
Sept. 24/90	304				AD	S	P	
Sept. 24/90	291	0.40		182-6	AD	G	P	
Sept. 24/90	265				AD	S	P	
Sept. 24/90	281				AD	S	P	
Sept. 24/90	314				AD	G	P	
Sept. 24/90	300				None	S	P	
Sept. 24/90	307	0.40			AD	S	P	
Sept. 24/90	294				None	S	P	
Sept. 24/90	304				AD	S	P	
Sept. 24/90	280				AD	S	P	
Sept. 24/90	345				AD	S	P	
Sept. 24/90	283				AD	G	P	
Sept. 24/90	280				None	G	P	
Sept. 24/90	305	0.40		183-8	AD	G	P	
Sept. 24/90	269				AD	S	P	
Sept. 24/90	270	0.20		184-1	None	S	P	
Sept. 24/90					AD	S	E	
Sept. 24/90	294				AD	G	P	
Sept. 24/90	312				AD	G	E	
Sept. 24/90	304				AD	G	P	
Sept. 24/90	315	0.35		182-8	AD	G	P	
Sept. 24/90	305				AD	G	P	
Sept. 24/90	265				AD	S	P	
Sept. 24/90	271				AD	S	P	
Sept. 24/90	332				None	S	P	
Sept. 24/90	301				None	S	P	
Sept. 25/90	309	0.35		184-6	AD	G	DP	
Sept. 25/90	270				AD	S	DP	
Sept. 28/90	291				AD	G	P	

Table 6 (cont'd)

Date	Length (mm)	Weight (kg)	Tag #	Scale #	Fin Clip	Con't.	Other	Tag Colour
Sept. 28/90	293				AD	S		B
Sept. 28/90	325				AD	S		P
Sept. 28/90	318				AD	S		P
Sept. 28/90	299				AD	S		P
Sept. 28/90	287				None	S		P
Sept. 28/90	319				AD	S		P
Sept. 28/90	311				None	G		P
Sept. 28/90	431				None	G		P
Sept. 28/90	312				AD	SS		P
Sept. 28/90	319				None	SS		P
Sept. 28/90	307				None	SS		P
Sept. 28/90	265				A	G		P
Sept. 28/90	283				AD	GG		P
Sept. 28/90	366				None	G		P
Sept. 28/90	341				AD	G		P
Sept. 28/90	277				AD	SS		P
Sept. 28/90	289				AD	SS		P
Sept. 28/90	282	0.20		184-7	AD	S		P
Sept. 28/90					None			B
Sept. 28/90	305	0.5		185-1	None	S		P
Sept. 28/90	330				None	S		P
Sept. 28/90	321				AD	SS		P
Sept. 28/90	347				AD	G		P
Sept. 28/90	274				None	G		P
Sept. 28/90	332				AD	G		P
Sept. 28/90	318				AD	G		P
Sept. 28/90	303				AD	SS		P
Sept. 28/90	337				None	SS		P
Sept. 28/90	337	0.40		185-3	None	G		P
Sept. 28/90	336				AD	GG		P
Sept. 28/90	255				AD	GG		P
Sept. 28/90	341				AD	SS		P
Sept. 28/90	309				AD	SSG		P
Sept. 28/90	278				AD	SG		P
Sept. 28/90	337				AD	SS		P
Sept. 28/90	302				None	G		P
Sept. 28/90	355				AD	SS		P
Sept. 28/90	272				None	G		P
Sept. 28/90	347				None	S		P
Sept. 28/90	301	0.35		185-4	AD	G		P
Sept. 28/90	299				AD	G		P
Sept. 28/90	320				None	G		P
Sept. 28/90	331				None	S		P
Sept. 28/90	298	0.30		184-9	None	S		P

Table 6 (cont'd)

Date	Length (mm)	Weight (kg)	Tag #	Scale #	Fin Clip Con't.	Other	Tag Colour
Sept. 28/90	309				None	S	P
Sept. 28/90	302				AD	G	P
Sept. 28/90	326	0.55		184-10	None	G	P
Sept. 28/90	314				AD	S	P
Sept. 28/90	303				AD	G	P
Sept. 29/90	278				AD	G	DP
Sept. 29/90	283				None	S	DP
Sept. 29/90	338	0.50		185-7	AD	S	DP
Sept. 29/90	329				AD	S	DP
Sept. 29/90	316				None	S	DP
Sept. 30/90	272				AD	G	DP
Sept. 30/90	274				AD	G	DP
Sept. 30/90	259	0.20			AD	S	DP
Sept. 30/90	298	0.35		186-9	AD	S	DP
Oct. 01/90	343				None	S	DP
Oct. 01/90	263	0.25		188-5	AD	S	DP
Oct. 01/90	309				None	G	DP
Oct. 01/90	278				AD	S	DP
Oct. 01/90	323	0.45		188-2	None	S	DP
Oct. 01/90	297				None	G	DP
Oct. 01/90	335				None	G	DP
Oct. 01/90	352				AD	G	DP
Oct. 01/90	288				None	S	DP
Oct. 01/90	301				None	G	DP
Oct. 01/90	310				AD	G	DP
Oct. 01/90	319				AD	G	DP
Oct. 01/90	307	0.35		187-1	None	G	DP
Oct. 01/90	358				AD	S	DP
Oct. 01/90	401				None	G	DP
Oct. 01/90	329				AD	G	DP
Oct. 01/90	374				AD	G	DP
Oct. 01/90	301				AD	G	DP
Oct. 01/90	352				AD	S	DP
Oct. 01/90	296				None	S	DP
Oct. 01/90	283	0.25		187-4	AD	S	DP
Oct. 02/90	282				AD	G	DP
Oct. 02/90	312				None	G	DP
Oct. 02/90	298				AD	G	DP
Oct. 02/90	304				AD	G	DP
Oct. 02/90	346	0.50		188-10	None	S	DP
Oct. 04/90	301	0.40		189-10	AD	S	DP
Oct. 04/90	302	0.35		190-1	AD	G	DP
Oct. 09/90	295	0.25		190-2	None	M	DP

Table 7. Mean lengths and weights for large adult and jack coho passing through the Lachmack River fish fence from August 11 to November 2, 1990.

	Mean Length (mm)	n	S.D.	Mean Weight (kg)	n	S.D.
Males	642.3	497	80.08	3.54	126	1.30
Females	649.0	451	52.18	3.43	121	0.90
Adults	645.5	948	68.29	3.48	247	1.21
Jacks	304.7	435	29.27	0.38	120	0.12

Table 8. Age determinations for large adult and jack coho from the Lachmack River. Fall 1990. (Fin Clips: AD=adipose, RV=right ventral, LV=left ventral, RM=right maxillary, LM=left maxillary. Ages: The first number is the number of freshwater annuli, the second number is the number of saltwater annuli, 99=no age).

Date	Length (mm)	Weight (kg)	Sex	Fin Clips	Scale No.	Scale Age	Fin Age	Oto Age
Aug. 16	637	3.4		AD	154-6	2.1	2.1	
Aug. 14	578	2.55	Female	AD	154-2	1.1		
Aug. 15	652	3.1	Female	None	154-4	2.1	2.1	2.1
Aug. 15	602	3.1	Female	AD	154-5	2.1	2.1	2.1
Aug. 24	548	2.3	Female	AD	155-2	99		
Aug. 24	535	1.9	Female	None	155-3	99		
Aug. 29	468	1.25	Female	AD	155-5	2.1		
Aug. 29	625	3	Female	AD	155-8	99		
Aug. 29	628	3.15	Female	AD	155-9	2.1		
Aug. 29	560	2.1	Female	None	156-1	2.1		
Aug. 29	578	2.55	Female	None	156-3	2.1		
Aug. 29	668	3.9	Female	AD	156-6	2.1		
Aug. 29	570	2.7	Female	AD	156-10	2.1		
Aug. 29	694	4.9	Female	None	157-1	2.1		
Aug. 30	668	3.4	Female	None	158-4			
Aug. 30	588	2.6	Female	AD	158-5			
Aug. 30	635	3.15	Female	None	158-6			
Aug. 30	701	4.65	Female	AD	159-1	99		
Aug. 30	726	4.9	Female	ADLV	160-3	1.1		
Aug. 30	628	3.25	Female	AD	160-7	2.1		
Aug. 30	630	3.25	Female	None	161-1	2.1		
Aug. 30	499	1.5	Female	None	161-4	2.1		
Aug. 30	654	3.1	Female	AD	161-5	99		
Aug. 30	689	3.95	Female	AD	161-6	2.1		
Aug. 30	702	4.85	Female	AD	161-8	2.1	2.1	2.1
Aug. 30	617	2.9	Female	None	162-1	2.1		
Aug. 30	512	1.75	Female	AD	162-4	2.1		
Aug. 30	484	1.4	Female	AD	162-9	1.1		
Aug. 30	695	5	Female	AD	162-10	2.1		
Aug. 30	659	3.75	Female	None	163-1	1.1	1.1	1.1
Aug. 30	687	4.7	Female	AD	163-3	2.1		
Aug. 30	642	3.4	Female	None	163-4	2.1	2.1	2.1
Aug. 30	593	2.58	Female	None	164-1	1.1		
Aug. 30	691	4.2	Female	AD	164-2	2.1		
Sept. 01	648	3.3	Female	AD	164-8	2.1		
Sept. 01	643	4.15	Female	None	164-9	1.1		
Sept. 01	628	3.4	Female	AD	164-10	1.1		
Sept. 10	659	3.15	Female	AD	165-7	2.1		
Sept. 10	608	2.75	Female	None	165-8	2.1		
Sept. 11	703	4.3	Female	AD	166-7	99		

Table 8 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Fin Clips	Scale No.	Scale Age	Fin Age	Oto Age
Sept. 11	655	3.2	Female	AD	166-8	2.1		
Sept. 11	698	4.2	Female	None	166-10	2.1		
No Date	812		Female	None	167-1	2.1		
No Date			Female	None	167-2	2.1		
Oct. 10	681		Female	None	167-4	2.1	2.1	2.1
Sept. 15	681	3.85	Female	None	170-4	2.1		
Sept. 15	625	2.7	Female	None	170-6	99		
Sept. 15	658	3.85	Female	AD	171-1	2.1		
Sept. 15	630	2.6	Female	AD	171-3	2.1		
Sept. 15	715	4.45	Female	AD	171-4	1.1		
Sept. 15	566	2.2	Female	None	171-7	2.1		
Sept. 15	699	3.9	Female	AD	172-2	99		
Sept. 16	594	2.8	Female	AD	172-7	2.1	2.1	2.1
Sept. 17	631	2.7	Female	None	172-8	99		
Sept. 17	611	2.4	Female	None	173-8	99		
Sept. 18	549	1.9	Female	AD	174-1	2.0		
Sept. 18	649	3.35	Female	AD	174-4	99		
Sept. 18	670	3.9	Female	AD	174-9	2.1		
Sept. 18	638	3.05	Female	AD	175-9	2.1		
Sept. 18	646	3.25	Female	AD	175-10	99		
Sept. 18	649	3.3	Female	AD	176-8	2.1		
Sept. 18	627	3.1	Female	None	177-1	2.1		
Sept. 18	657	3.3	Female	AD	177-5	2.1		
Sept. 18	680	4.25	Female	None	177-6	1.1		
Sept. 18	623	3.05	Female	AD	177-7	2.1		
Sept. 18	741		Female	None	177-9	99		
Sept. 18	594	2.7	Female	None	177-10	2.1		
Sept. 18	668	3.8	Female	None	178-1	2.1		
Sept. 18	679	4.1	Female	None	178-3	2.1		
Sept. 18	678	3.7	Female	None	178-4	2.1		
Sept. 18	514		Female	AD	178-8	2.1	2.1	2.1
Sept. 18	691	4	Female	AD	178-10	2.1		
Sept. 18	673	3.65	Female	None	179-3	2.1		
Sept. 18	719	5.1	Female	None	179-4	2.1		
Sept. 19	652	3.35	Female	None	179-8	99		
Sept. 19	591	2.6	Female	AD	179-9	2.1		
Sept. 19	592	2.1	Female	AD	179-10	2.1		
Sept. 19	645	3.55	Female	AD	180-1	2.1		
Sept. 19	726	5.05	Female	None	180-2	2.1		
Sept. 21	632	3.6	Female	AD	180-5	2.1		
Sept. 21	632	3.2	Female	None	180-6	99		
Sept. 21	650	2.9	Female	None	180-7	2.1		
Sept. 21	678	4.1	Female	AD	180-8	2.1		
Sept. 21	721	4.6	Female	AD	181-1	2.1		

Table 8 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Fin Clips	Scale No.	Scale Age	Fin Age	Oto Age
Sept. 21	654	3.4	Female	None	181-3	2.1		
Sept. 24	688	4.3	Female	None	181-7	2.1		
Sept. 24	584	2.45	Female	AD	181-8	2.1		
Sept. 24	700	4.15	Female	AD	182-4	2.1		
Sept. 24	678	4.1	Female	None	182-9	2.1		
Sept. 24	649	2.95	Female	AD	183-1	2.1		
Sept. 24	658	3.6	Female	AD	183-5	2.1		
Sept. 25	657	3.65	Female	None	184-5	1.1		
Sept. 28	707	4.45	Female	AD	185-2	2.1		
Sept. 28	680	3.55	Female	None	185-5	2.1		
Sept. 29	690	4.05	Female	AD	185-8	2.1		
Sept. 29	637	3.25	Female	None	185-10	2.1		
Sept. 29	707	5.05	Female	None	186-2	2.1		
Sept. 29	648	3.8	Female	AD	186-4	2.1		
Sept. 29	674	3.4	Female	None	186-5	2.1		
Sept. 29	678	3.9	Female	AD	186-6	1.1		
Sept. 29	684	4.2	Female	AD	186-7	2.1		
Sept. 30	684	3.65	Female	AD	186-8	2.1		
Sept. 30	625	3.3	Female	AD	186-10	2.1		
Oct. 01	704	4.3	Female	None	187-2	1.0		
Oct. 01	690	4.05	Female	AD	187-3	1.1		
Oct. 01	703	4.7	Female	None	187-6	2.1		
Oct. 01	652	3.4	Female	None	187-8			
Oct. 01	691	4.4	Female	AD	188-7	2.1		
Oct. 02	574	2.2	Female	AD	188-9	2.1		
Oct. 02	703	5	Female	AD	189-3	2.1		
Oct. 04	706		Female	AD	189-6	2.1	2.1	2.1
Oct. 04	642		Female	AD	189-7	2.1	2.1	2.1
Oct. 04	694	4.3	Female	None	189-9	2.1		
Oct. 18	688	4.2	Female	None	190-4	99		
Oct. 19	720	4.2	Female	None	190-7	2.1		
Oct. 18	665		Female	None	191-1	3.1	2.1	3.1
Aug. 20	325		Jack	AD	154-9	2.0		
Aug. 23	264	0.2	Jack	AD	155-1	1.0		
Aug. 29	303	0.4	Jack	AD	155-6	2.0		
Aug. 29	311	0.41	Jack	AD	155-7	2.0		
Aug. 29	290	0.5	Jack	AD	156-4	2.0		
Aug. 29	316	0.6	Jack	AD	156-8	2.0	2.0	2.0
Aug. 29	350	0.5	Jack	None	156-9	1.1		
Aug. 29	290		Jack	AD	157-4	2.0		
Aug. 30	284	0.4	Jack	None	157-6	2.0		
Aug. 30	272	0.15	Jack	AD	157-7	2.0		
Aug. 30	286	0.3	Jack	AD	157-9	2.0		
Aug. 30	298	0.3	Jack	AD	157-10	2.0		

Table 8 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Fin Clips	Scale No.	Scale Age	Fin Age	Oto Age
Aug. 30	314	0.4	Jack	None	158-2			
Aug. 30	288	0.35	Jack	AD	158-8	2.0	2.0	2.0
Aug. 30	343	0.65	Jack	None	159-4	2.0		
Aug. 30	287		Jack	AD	159-10	99		
Aug. 30	288	0.4	Jack	AD	160-10	2.0		
Aug. 30	306	0.4	Jack	None	161-3	2.0		
Aug. 30	318		Jack	AD	161-9	2.0		
Aug. 30	268		Jack	AD	161-10	2.0		
Aug. 30	308	0.35	Jack	AD	162-7	2.0		
Aug. 30	306	0.4	Jack	AD	163-8	2.0		
Aug. 31	255		Jack	AD	164-6	99		
Sept. 01	345		Jack	AD	165-2	2.0		
Sept. 05	270		Jack	None	165-5	2.0		
Sept. 10	292		Jack	AD	166-1	2.0		
Sept. 10	315	0.45	Jack	AD	166-2	2.0		
Sept. 10	269		Jack	AD	166-3	2.0		
Sept. 10	317	0.45	Jack	AD	166-4	2.0		
Sept. 10	317	0.47	Jack	None	166-5	2.0		
Sept. 10	274		Jack	AD	166-6	2.0		
Sept. 11	345	0.5	Jack	None	168-1	2.0		
Sept. 11	332	0.4	Jack	AD	168-2	2.0		
Sept. 11	307	0.3	Jack	None	168-3	2.0		
Sept. 11	292	0.3	Jack	AD	168-4	2.0		
Sept. 11	292	0.3	Jack	AD	168-5	2.0		
Sept. 11	297	0.3	Jack	AD	168-6	2.0		
Sept. 11	327	0.4	Jack	None	168-7	2.0		
Sept. 11	292	0.3	Jack	AD	168-8	2.0		
Sept. 11	301	0.3	Jack	None	168-9	2.0		
Sept. 11	332	0.5	Jack	AD	168-10	2.0		
Sept. 11	333	0.5	Jack	AD	169-1	2.0		
Sept. 11	257	0.1	Jack	AD	169-2	2.0		
Sept. 12	342	0.55	Jack	AD	169-4	2.0		
Sept. 12	267	0.25	Jack	AD	169-5	1.0		
Sept. 12	259	0.15	Jack	None	169-6	2.0		
Sept. 13	349	0.6	Jack	None	169-7	99		
Sept. 13	263	0.25	Jack	None	169-8	1.0		
Sept. 13	310	0.5	Jack	AD	169-9	99		
Sept. 13	304	0.4	Jack	None	169-10	2.0		
Sept. 14	250	0.2	Jack	None	170-1	2.0		
Sept. 14	296	0.3	Jack	AD	170-2	2.0		
Sept. 14	244	0.2	Jack	AD	170-3	2.0		
Sept. 15	308	0.5	Jack	None	170-5	2.0		
Sept. 15	316	0.5	Jack	AD	170-7	2.0		
Sept. 15	290		Jack	AD	170-8	2.0		

Table 8 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Fin Clips	Scale No.	Scale Age	Fin Age	Oto Age
Sept. 15	302	0.3	Jack	None	170-9	1.0		
Sept. 15	343	0.45	Jack	AD	170-10	2.0		
Sept. 15	332	0.5	Jack	AD	171-6	2.0		
Sept. 15	337	0.7	Jack	AD	171-8	2.0		
Sept. 15	345	0.6	Jack	None	172-1	2.0		
Sept. 15	259	0.2	Jack	AD	172-3	99		
Sept. 15	318	0.45	Jack	None	172-4	2.0		
Sept. 15	272	0.2	Jack	AD	172-5	2.0		
Sept. 15	291	0.3	Jack	AD	172-6	2.0		
Sept. 17	257	0.2	Jack	AD	172-9	2.0		
Sept. 17	317	0.4	Jack	None	172-10	2.0		
Sept. 17	298	0.3	Jack	AD	173-1	2.0		
Sept. 17	307	0.3	Jack	AD	173-2	2.0		
Sept. 17	306	0.3	Jack	None	173-3	2.0		
Sept. 17	311	0.35	Jack	None	173-4	2.0		
Sept. 17	279	0.3	Jack	AD	173-5	2.0		
Sept. 17	294	0.3	Jack	AD	173-6	99		
Sept. 17	282	0.3	Jack	AD	173-7	2.0		
Sept. 17	281	0.3	Jack	AD	173-9	2.0		
Sept. 17	305	0.4	Jack	AD	173-10	99		
Sept. 18	325	0.45	Jack	AD	174-2	2.1		
Sept. 18	337	0.5	Jack	None	174-3	2.0		
Sept. 18	329	0.6	Jack	ADRVLM	174-6	2.0		
Sept. 18	320	0.5	Jack	AD	174-7	2.0		
Sept. 18	323	0.4	Jack	AD	174-10	2.0		
Sept. 18	359	0.5	Jack	AD	175-4	2.0		
Sept. 18	270	0.25	Jack	AD	175-5	2.0		
Sept. 18	295	0.25	Jack	AD	175-6	2.0		
Sept. 18	294	0.3	Jack	AD	175-7	99		
Sept. 18	282	0.25	Jack	AD	176-1	2.0		
Sept. 18	302	0.35	Jack	None	176-3	2.0		
Sept. 18	287	0.3	Jack	AD	176-5	2.0		
Sept. 18	249	0.25	Jack	AD	176-7	2.0		
Sept. 18	273	0.25	Jack	AD	176-10	2.0		
Sept. 18	295	0.3	Jack	AD	177-2	2.0		
Sept. 18	324	0.5	Jack	AD	177-4	2.0		
Sept. 18	328	0.45	Jack	AD	177-8	99		
Sept. 18	321	0.5	Jack	AD	178-2	2.0		
Sept. 18	337	0.45	Jack	AD	178-5	2.0		
Sept. 18	320	0.45	Jack	AD	179-2	2.0		
Sept. 18	328	0.5	Jack	None	179-5	2.0		
Sept. 21	337	0.6	Jack	None	180-10	2.0		
Sept. 24	306	0.35	Jack	AD	181-6	2.0		
Sept. 24	314	0.35	Jack	None	181-9	1.0		

Table 8 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Fin Clips	Scale No.	Scale Age	Fin Age	Oto Age
Sept. 24	271	0.15	Jack	AD	182-1	2.0		
Sept. 24	325	0.45	Jack	None	182-2	.99		
Sept. 24	325	0.45	Jack	None	182-3	2.0		
Sept. 24	322	0.5	Jack	AD	182-5	2.0		
Sept. 24	291	0.4	Jack	AD	182-6	2.0		
Sept. 24	315	0.35	Jack	AD	182-8	2.0		
Sept. 24	308	0.4	Jack	AD	183-4	2.0		
Sept. 24	305	0.4	Jack	AD	183-8	2.0		
Sept. 24	270	0.2	Jack	None	184-1	2.0		
Sept. 24	292	0.3	Jack	None	184-3	2.0		
Sept. 25	309	0.35	Jack	AD	184-6	2.0		
Sept. 28	282	0.2	Jack	AD	184-7	2.0		
Sept. 28	298	0.3	Jack	None	184-9	3.0		
Sept. 28	326	0.55	Jack	None	184-10	2.0		
Sept. 28	305	0.5	Jack	None	185-1	2.0		
Sept. 28	337	0.4	Jack	None	185-3	2.0		
Sept. 28	301	0.35	Jack	AD	185-4	2.0		
Sept. 29	338	0.5	Jack	AD	185-7	2.0		
Sept. 30	298	0.35	Jack	AD	186-9	2.0		
Oct. 01	307	0.35	Jack	None	187-1	.99		
Oct. 01	283	0.25	Jack	AD	187-4	1.1		
Oct. 01	323	0.45	Jack	None	188-4	.99		
Oct. 01	263	0.25	Jack	AD	188-5	2.1		
Oct. 02	346	0.5	Jack	None	188-10	2.1		
Oct. 04	301	0.4	Jack	AD	189-10	2.0		
Oct. 04	302	0.35	Jack	AD	190-1	2.1		
Oct. 09	295	0.25	Jack	None	190-2	2.1		
Aug. 14	539	1.95	Male	None	154-1	2.1		
Aug. 14	526	2	Male	None	154-3	2.1		
Aug. 16	545	1.7	Male	AD	154-7	1.1		
Aug. 16	488	1.25	Male	None	154-8	1.1	1.1	1.1
Aug. 22	644	3.1	Male	AD	154-10	2.1		
Aug. 26	547	2.2	Male	AD	155-4	1.1		
Aug. 29	723	4.8	Male	AD	155-10	2.1		
Aug. 29	575	1.35	Male	AD	156-2	2.1		
Aug. 29	561	2.2	Male	None	156-5	2.1		
Aug. 29	547	1.6	Male	None	156-7	2.1		
Aug. 29	675	4	Male	AD	157-2	1.1		
Aug. 29	672	4.35	Male	None	157-3	2.1		
Aug. 30	497	2.15	Male	AD	157-5	2.1		
Aug. 30	523	1.65	Male	AD	157-8	1.1		
Aug. 30	665	3.85	Male	AD	158-1			
Aug. 30	604	2.75	Male	AD	158-3			
Aug. 30	655	3.5	Male	None	158-7			

Table 8 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Fin Clips	Scale No.	Scale Age	Fin Age	Oto Age
Aug. 30	493	1.55	Male	AD	158-9			
Aug. 30	605	3.2	Male	ADRV	158-10			
Aug. 30	645	3.45	Male	None	159-2	1.1		
Aug. 30	677	4.15	Male	AD	159-3	2.1		
Aug. 30	655	3.35	Male	None	159-5	2.0		
Aug. 30	618	3.05	Male	AD	159-6	1.1		
Aug. 30	665	3.85	Male	AD	159-7	2.1		
Aug. 30	446	1.15	Male	AD	159-8	2.1		
Aug. 30	715	4.65	Male	AD	159-9	2.1		
Aug. 30	509	1.6	Male	None	160-1	1.1		
Aug. 30	482	1.3	Male	AD	160-2	2.1		
Aug. 30	687	4.4	Male	AD	160-4	2.1		
Aug. 30	692	4.5	Male	AD	160-5	2.1		
Aug. 30	731	4.85	Male	None	160-6	2.1		
Aug. 30	708	4.5	Male	AD	160-8	99		
Aug. 30	689	4.55	Male	AD	160-9	1.1		
Aug. 30	698	4.4	Male	None	161-2	1.1		
Aug. 30	774	5.5	Male	AD	161-7	2.1		
Aug. 30	652	4.05	Male	AD	162-2	2.1		
Aug. 30	682	4.4	Male	None	162-3	2.1		
Aug. 30	685	3.7	Male	AD	162-5	2.1		
Aug. 30	672	3.85	Male	None	162-6	2.1		
Aug. 30	731	5.5	Male	None	162-8	2.1		
Aug. 30	638	3.95	Male	AD	163-2	1.1		
Aug. 30	660	3.85	Male	None	163-5	2.1		
Aug. 30	637	3.15	Male	AD	163-6	2.1		
Aug. 30	733	5.25	Male	None	163-7	99		
Aug. 30	669	3.85	Male	AD	163-9	2.1		
Aug. 30	607	2.9	Male	AD	163-10	2.1		
Aug. 30	565	2.25	Male	AD	164-3	2.1		
Aug. 30	711	4.6	Male	None	164-4	2.1		
Aug. 31	658	4.25	Male	AD	164-5	2.1		
Sept. 0	514	1.7	Male	None	165-1	1.1		
Sept. 0	552	2.3	Male	None	165-3	2.1		
Sept. 0	672	4.4	Male	None	165-4	1.1		
Sept. 0	564	2.8	Male	None	165-6	2.1		
Sept. 1	661	3.7	Male	AD	165-9	2.1		
Sept. 1	533	1.85	Male	AD	165-10	2.1		
Sept. 1	665	3.1	Male	None	166-9	2.1		
No Date	722		Male	None	167-3	2.1	2.1	2.1
Oct. 14	500		Male	None	167-5	2.1	2.1	2.1
Oct. 15	627		Male	AD	167-6	2.1	2.1	2.1
Sept. 12	726	4.9	Male	None	169-3	99		
Sept. 15	648	2.7	Male	None	171-2	2.1		

Table 8 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Fin Clips	Scale No.	Scale Age	Fin Age	Oto Age
Sept. 15	694	4.15	Male	None	171-5	2.1		
Sept. 15	721	4.95	Male	None	171-9	99		
Sept. 15	668	3.6	Male	None	171-10	2.1		
Sept. 18	679	4.1	Male	AD	174-5	2.1		
Sept. 18	475	1.3	Male	AD	174-8	2.1		
Sept. 18	700	3.6	Male	AD	175-1	2.1		
Sept. 18	734	5.1	Male	AD	175-2	2.1		
Sept. 18	569	2.3	Male	None	175-3	1.1		
Sept. 18	595		Male	AD	175-8	2.1		
Sept. 18	596	1.4	Male	AD	176-2	2.1		
Sept. 18	506	1.6	Male	None	176-4	2.0		
Sept. 18	575	2.4	Male	AD	176-6	1.1		
Sept. 18	663	3.6	Male	None	176-9	2.1		
Sept. 18	758	4.75	Male	AD	177-3	2.1		
Sept. 18	734	4.4	Male	AD	178-6	2.1		
Sept. 18	718	5.1	Male	None	178-7	1.1		
Sept. 18	765	6.15	Male	None	178-9	1.1		
Sept. 18	746	5.55	Male	AD	179-1	2.1		
Sept. 18	677	4.2	Male	None	179-6	99		
Sept. 19	584	2.3	Male	AD	179-7	2.1		
Sept. 20	702	4.25	Male	AD	180-3	2.1		
Sept. 21	709	4.85	Male	None	180-4	1.1		
Sept. 21	707	4.45	Male	None	180-9	2.1		
Sept. 21	703	4.25	Male	AD	181-2	1.1		
Sept. 21	734	5.1	Male	None	181-4	2.1		
Sept. 24	763	5.3	Male	None	181-5	2.1		
Sept. 24	779	5.65	Male	AD	181-10	2.1		
Sept. 24	660	3.75	Male	AD	182-7	2.1		
Sept. 24	725	4.7	Male	None	183-2	2.1		
Sept. 24	605		Male	ADRM	183-3	2.1		
Sept. 24	730	4.6	Male	AD	183-6	2.1		
Sept. 24	660	3.35	Male	AD	183-7	2.1		
Sept. 24	715	4.4	Male	AD	183-9	2.1		
Sept. 24	695	3.85	Male	AD	183-10	2.1		
Sept. 24	695	3.7	Male	AD	184-2	2.1		
Sept. 25	761	5.3	Male	AD	184-4	99		
Sept. 28	678	4.1	Male	None	184-8	99		
Sept. 28	697	4.4	Male	AD	185-5	2.1		
Sept. 29	689	4.4	Male	None	185-9	2.1		
Sept. 29	638	3.25	Male	AD	186-1	2.1		
Sept. 29	703	4.35	Male	None	186-3	2.1		
Oct. 01	632	2.8	Male	None	187-5	1.1		
Oct. 01	708	4.8	Male	AD	187-7	2.1		
Oct. 01	762	5.7	Male	AD	187-9			

Table 8 (cont'd)

Date	Length (mm)	Weight (kg)	Sex	Fin Clips	Scale No.	Scale Age	Fin Age	Oto Age
Oct. 01	602	2.35	Male	None	187-10			
Oct. 01	553	2	Male	None	188-1	2.0		
Oct. 01	729	5	Male	None	188-2	.99		
Oct. 01	562		Male	AD	188-3	2.1		
Oct. 01	705	4.3	Male	AD	188-6	.99		
Oct. 01	647	2.7	Male	AD	188-8	2.1		
Oct. 02	777	5.8	Male	None	189-1	1.1		
Oct. 02	679	3.8	Male	AD	189-2	2.0		
Oct. 02	719	5.3	Male	AD	189-4	2.1		
Oct. 04	668		Male	None	189-5	2.0		
Oct. 04	659	3.7	Male	None	189-8	2.1		
Oct. 11	693	4.4	Male	AD	190-3	2.1		
Oct. 18	555	2.35	Male	None	190-5	2.1		
Oct. 18	519	1.55	Male	None	190-6	2.1		
Oct. 20	693		Male	None	191-2	2.1	2.1	2.1
Oct. 26			Male	AD	191-3	2.1	2.1	2.1
Oct. 28	681		Male	AD	191-4	1.1	2.1	1.1

Table 9. Summary by sex and age of adult coho from the Lachmack River fall 1990.

Sex	No.	Mean Length (mm)	Mean Weight (kg)	Age
Female	1	704	4.3	1.0
Female	12	644.25	3.58	1.1
Female	1	549	1.9	2.0
Female	80	650.59	3.53	2.1
Female	1	665	-	3.1
Male	22	631.36	3.41	1.1
Male	5	612.2	2.69	2.0
Male	79	651.7	3.64	2.1
Jack	5	282	0.27	1.0
Jack	2	316.5	0.38	1.1
Jack	101	303.8	0.38	2.0
Jack	5	306.2	0.36	2.1
Jack	1	298	0.30	3.0

Table 10. Fecundity estimates (corrected for length-frequency) for coho sampled at the Lachmack River fence, fall 1990. (Con't.: S=silver, G=green.)

Length (mm)	Weight (kg)	Age	Con't.	Fecundity
702	4.85	2.1	S	3388
594	2.80	2.1	S	2517
561	1.90		G	1988
514	1.75	2.1	S	1999
Means		649.0 <sup>a</sup>	3.43 <sup>a</sup>	2885 <sup>b</sup> 2906 <sup>c</sup>

<sup>a</sup> - Means are for all females in 1990.

<sup>b</sup> - Mean fecundity based on 1990 data .

<sup>c</sup> - Mean fecundity based on combined 1989 and 1990 data using 1990 mean length for females.

Table 11. Locations of radio tagged large adult coho in the Lachmack river system. Fall 1990. (Locations refer to the distance above tidal influence (in meters)).

Date	Frequency	Location
Sept. 03/90	039	393
Sept. 07/90	039	Fence
Sept. 08/90	039	Fence
Sept. 12/90	039	Fence
Sept. 16/90	039	Fence
Sept. 19/90	039	500
Sept. 21/90	039	500
Sept. 26/90	039	3390
Oct. 01/90	039	3820
Oct. 05/90	039	3820
Oct. 10/90	039	5000
Oct. 15/90	039	5000
Oct. 19/90	039	5500
Oct. 24/90	039	5000
Oct. 28/90	039	5000
Oct. 31/90	039	4700
Sept. 03/90	058	Fence
Sept. 07/90	058	500
Sept. 08/90	058	500
Sept. 12/90	058	500
Sept. 19/90	058	500
Sept. 21/90	058	500
Sept. 26/90	058	500
Oct. 01/90	058	2000
Oct. 05/90	058	2000
Oct. 10/90	058	3390
Oct. 15/90	058	3820
Oct. 19/90	058	3390
Oct. 24/90	058	3820
Oct. 28/90	058	3820
Oct. 31/90	058	3820
Sept. 03/90	078	393
Sept. 07/90	078	Fence
Sept. 08/90	078	Fence
Sept. 12/90	078	Fence
Sept. 16/90	078	Fence
Sept. 19/90	078	500
Sept. 21/90	078	500
Sept. 26/90	078	3390
Oct. 01/90	078	3820
Oct. 05/90	078	3820
Oct. 10/90	078	6100
Oct. 15/90	078	6100
Oct. 19/90	078	6100

Table 11 (cont'd)

Date	Frequency	Location
Oct. 24/90	078	6100
Oct. 28/90	078	6100
Oct. 31/90	078	6100
Aug. 31/90	118	Fence (Dead)
Sept. 03/90	241	500
Sept. 07/90	241	600-800
Sept. 08/90	241	500
Sept. 12/90	241	393
Sept. 16/90	241	Fence
Sept. 19/90	241	Fence
Sept. 21/90	241	Fence
Sept. 26/90	241	Fence
Oct. 01/90	241	2000
Oct. 05/90	241	3820
Oct. 10/90	241	7000
Oct. 15/90	241	7000
Oct. 19/90	241	6100
Oct. 24/90	241	6500
Oct. 28/90	241	6100
Oct. 31/90	241	5000
Sept. 03/90	261	500
Sept. 07/90	261	2600
Sept. 08/90	261	2600
Sept. 12/90	261	2600-3390
Sept. 16/90	261	2800
Sept. 19/90	261	2800
Sept. 21/90	261	3390
Sept. 26/90	261	3820
Oct. 01/90	261	3820
Oct. 05/90	261	3820
Oct. 10/90	261	5000
Oct. 15/90	261	5000
Oct. 19/90	261	7000
Oct. 24/90	261	6500
Oct. 28/90	261	6100
Oct. 31/90	261	5000

Table 12. Coded wire tag recoveries from Lachmack River coho. Fall 1990.

Date Recovered	Tag Code	Resolved Age
Aug. 15/90	8/26/27 <sup>a</sup>	2.1
Oct. 04/90	8/26/27	2.1
Oct. 28/90	8/26/27	1.1
Nov. 02/90	8/26/27	
Aug. 16/90	8/26/29 <sup>b</sup>	
	8/26/47 <sup>c</sup>	
Aug. 20/90	8/26/48	
Aug. 31/90	8/26/48	
Sept. 18/90	8/26/48 <sup>d</sup>	2.1
Oct. 03/90	8/26/48	2.1
Aug. 30/90	8/26/49	
Sept. 18/90	8/26/49	2.1
Sept. 19/90	8/26/49 <sup>e</sup>	2.1
Sept. 29/90	8/26/49	
Nov. 02/90	8/26/49	
Aug. 31/90	8/27/19 <sup>f</sup>	2.0
Aug. 31/90	8/27/19	
Aug. 31/90	8/27/19	2.0
Aug. 31/90	8/27/19	

Tag codes: <sup>a,b,d</sup> and <sup>e</sup> -1989 large , <sup>c</sup>-1989 small, <sup>f</sup>- 1990 large

Table 13. Daily summary of the number of Pink and Chum salmon and Dolly Varden char passing through the Lachmack River fence. August 11 to November 2, 1990.

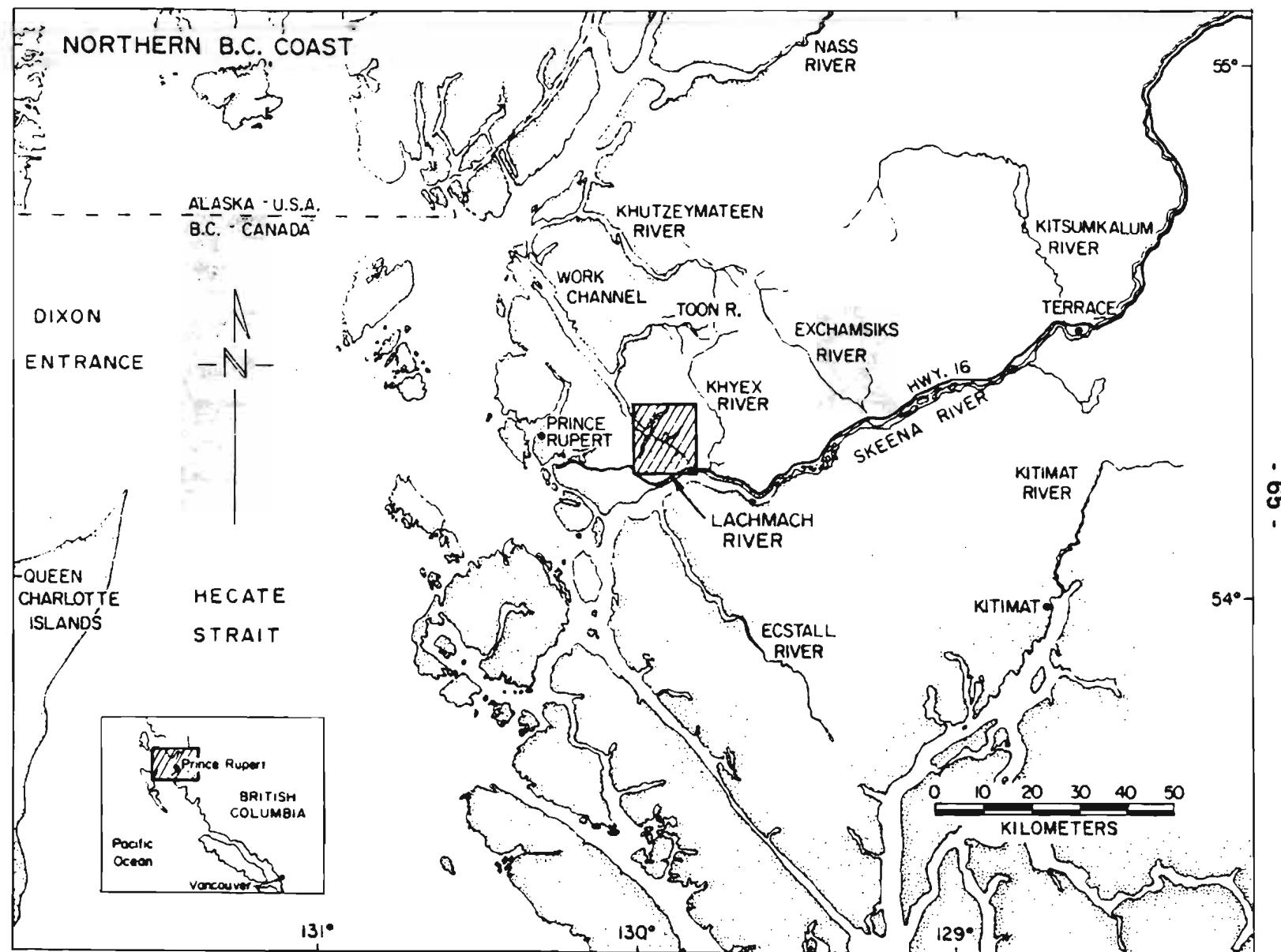
Date	Pink	Chum	Dolly Varden
Aug. 11/90	26	0	6
Aug. 12/90	21	0	5
Aug. 13/90	27	0	14
Aug. 14/90	14	0	12
Aug. 15/90	6	0	14
Aug. 16/90	16	0	5
Aug. 17/90	19	0	6
Aug. 18/90	17	0	9
Aug. 19/90	31	0	5
Aug. 20/90	51	0	1
Aug. 21/90	17	0	5
Aug. 22/90	8	0	0
Aug. 23/90	3	0	1
Aug. 24/90	6	0	1
Aug. 25/90	6	0	0
Aug. 26/90	3	0	0
Aug. 27/90	3	0	0
Aug. 28/90	2	0	0
Aug. 29/90	46	0	41
Aug. 30/90	260	0	65
Aug. 31/90	14	0	2
Sept. 01/90	28	0	4
Sept. 02/90	0	0	0
Sept. 03/90	6	0	1
Sept. 04/90	6	0	3
Sept. 05/90	25	0	3
Sept. 06/90	12	1	0
Sept. 07/90	1	0	0
Sept. 08/90	10	0	0
Sept. 09/90	2	4	0
Sept. 10/90	7	0	1
Sept. 11/90	12	10	1
Sept. 12/90	13	0	1
Sept. 13/90	4	0	0
Sept. 14/90	5	1	6
Sept. 16/90	1	0	0
Sept. 17/90	2	2	6
Sept. 18/90	289	0	26
Sept. 19/90	9	0	3
Sept. 20/90	4	0	1
Sept. 21/90	2	0	1
Sept. 22/90	7	0	0
Sept. 23/90	6	0	0
Sept. 24/90	48	0	15

Table 13 (cont'd)

Date	Pink	Chum	Dolly Varden
Sept. 25/90	17	0	1
Sept. 26/90	0	0	0
Sept. 27/90	0	0	0
Sept. 28/90	19	1	47
Sept. 29/90	6	6	7
Sept. 30/90	2	2	6
Oct. 01/90	10	2	23
Oct. 02/90	2	2	7
Oct. 03/90	1	0	32
Oct. 04/90	2	3	27
Oct. 05/90	0	3	0
Oct. 06/90	2	2	0
Oct. 07/90	n/a	n/a	n/a
Oct. 08/90	n/a	n/a	n/a
Oct. 09/90	n/a	n/a	n/a
Oct. 10/90	2	0	24
Oct. 11/90	0	2	12
Oct. 12/90	n/a	n/a	n/a
Oct. 13/90	n/a	n/a	n/a
Oct. 14/90	0	0	2
Oct. 15/90	0	0	2
Oct. 16/90	0	0	2
Oct. 17/90	0	0	0
Oct. 18/90	0	0	1
Oct. 19/90	1	0	0
Oct. 20/90	0	0	1
Oct. 21/90	n/a	n/a	n/a
Oct. 22/90	0	0	0
Oct. 23/90	n/a	n/a	n/a
Oct. 24/90	n/a	n/a	n/a
Oct. 25/90	n/a	n/a	n/a
Oct. 26/90	0	0	0
Oct. 27/90	n/a	n/a	n/a
Oct. 28/90	0	0	0
Oct. 29/90	0	0	0
Oct. 30/90	0	0	0
Oct. 31/90	0	0	0
Nov. 01/90	0	0	0
Nov. 02/90	0	0	0
<b>Totals</b>	<b>1322</b>	<b>32</b>	<b>548</b>

n/a - fence topped; no count possible.

Fig. 1. General location of the Lachmack River.



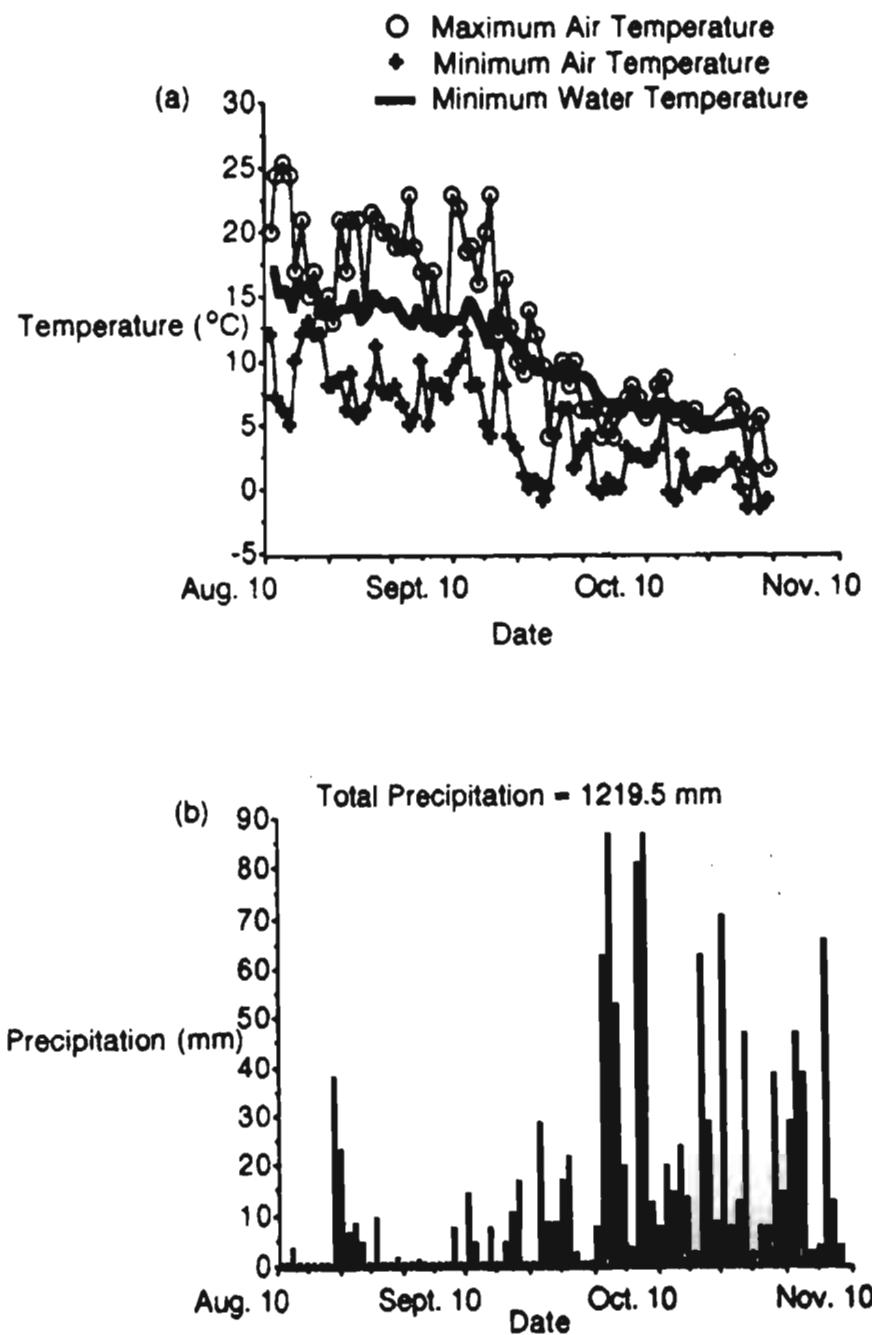


Fig. 2(a). Maximum and minimum air temperatures ( $^{\circ}\text{C}$ ) and minimum water temperatures recorded at the Lachmack River camp, August 23 to November 4, 1990.

Fig. 2(b). Daily precipitation recorded at the Lachmack River camp, August 23 to November 4, 1990.

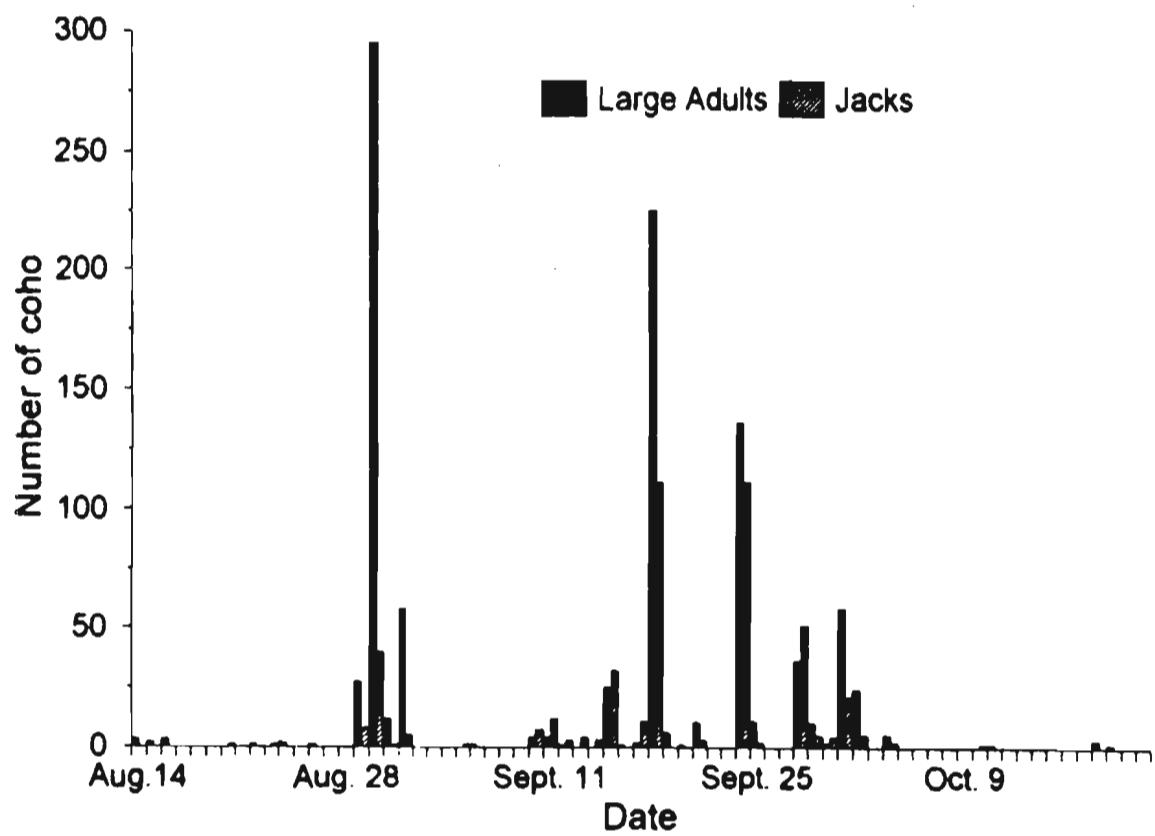


Fig. 3. Daily captures of large adult and jack coho at the Lachmack River fence, August 11 to November 4, 1990.

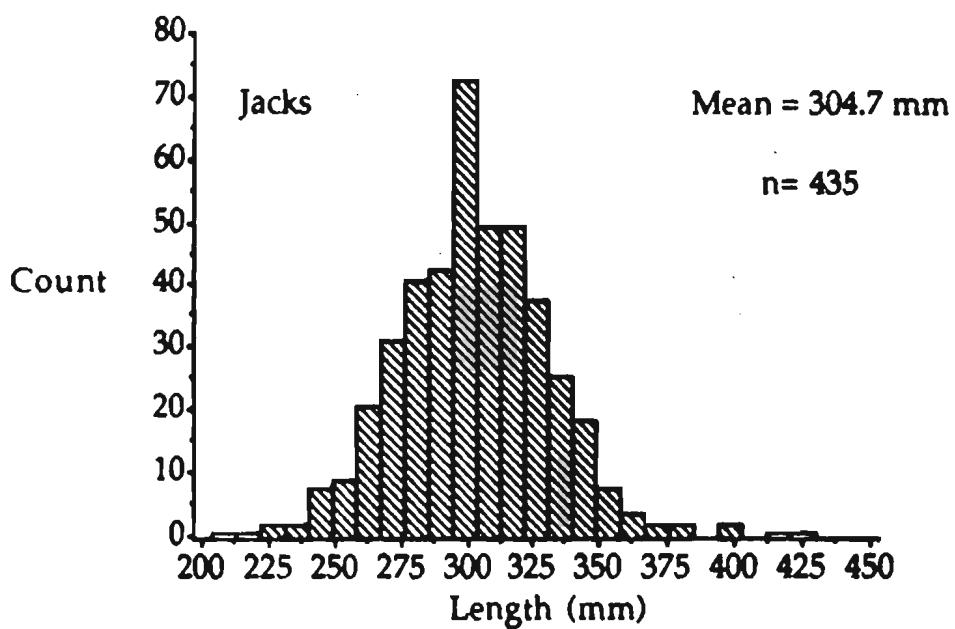
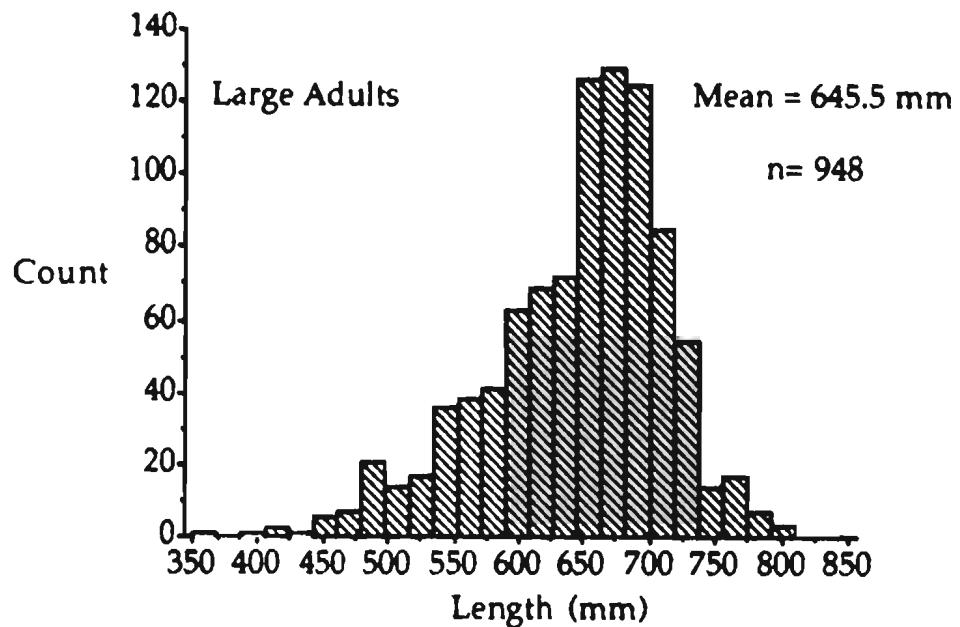


Fig. 4. Length-frequency distributions for large adult and jack coho passing through the Lachmack River fence, August 11 to November 4, 1990.

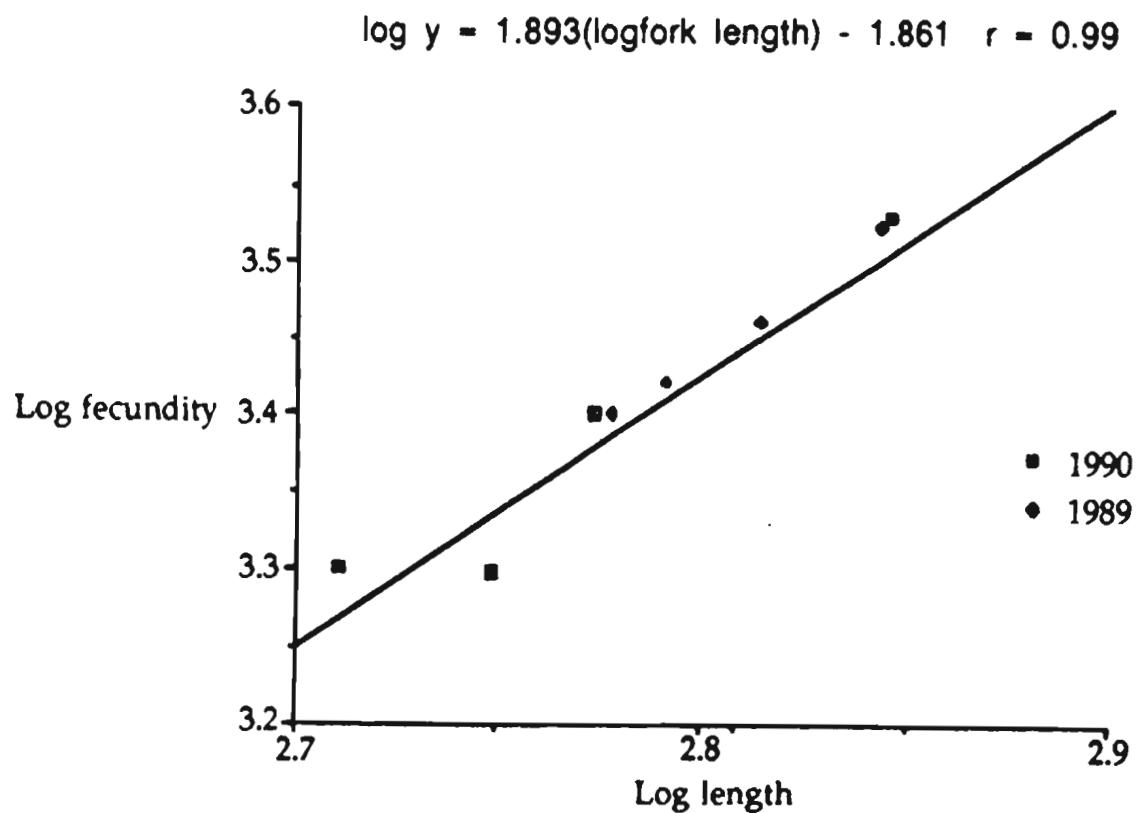


Fig. 5. Log fecundity vs log fork length for Lachmack River coho for the 1989 and 1990 escapement years.

