

Fishery Management Plan  
for the Lynn Canal (District 15)  
Drift Gillnet Fishery, 1998



By

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## INTRODUCTION

This document describes the management plan for the 1998 Lynn Canal drift gillnet fishery. The purpose of this plan to provide commercial fishers and others with a general idea of how the fishery may be managed, what tools are available to the manager, and the conditions which trigger major management actions. This plan will also serve as a reference that consolidates important historical harvest and escapement data and current fisheries information.

The Lynn Canal drift gillnet fishery targets sockeye, summer chum, coho, and fall chum salmon. Chinook and pink salmon also are taken as incidental catch. Chinook salmon harvests are limited under a ceiling imposed by the US/Canada Pacific Salmon Treaty (PST). The sockeye run in Lynn Canal is among the largest in Southeast Alaska. The coho run to the Chilkat River is among the largest in northern Southeast Alaska. Currently, Chilkat sockeye and Lynn Canal coho stocks are healthy. Total returns of Chilkoot Lake sockeye salmon have been below average since 1993. Fall chum stocks have not recovered to historical highs in the mid-1980s since a dramatic decline beginning in 1989 and 1990.

Currently, data gaps exist in the management information system, especially for the Chilkat River. Potential stock assessment projects intended to fill some of the data gaps are briefly discussed.

Details presented for managing the 1998 season are subject to update as factors change during the season or new information becomes available.

### *Fishery Area*

The Lynn Canal drift gillnet fishery occurs in the waters of District 15 (Figure 1). The district is divided into three regulatory sections: 15-A (upper Lynn Canal), 15-B (Berners Bay), and 15-C (lower Lynn Canal).

### *Contributing Stocks*

Target stocks for the gillnet fishery are:

- 1) Sockeye salmon from June through early September. The primary stocks originate in Chilkat and Chilkoot lakes (Figure 2). Sockeye salmon originating from the Berners Bay rivers, Chilkat River mainstem, and other, relatively minor, local stocks are also harvested in the fishery. Both Chilkat and Chilkoot lakes have two separate stock groups, an early and a late component. Those stock groups are managed separately for escapement goals. The return timing for the Chilkat and Chilkoot lake sockeye salmon stocks in the Lynn Canal drift gillnet fishery is shown in Figure 3.

- 2) Summer chum, predominately from hatchery enhancement programs, and pink salmon from late June through July. The return timing for summer chum and pink salmon stocks to the Lynn Canal drift gillnet fishery is shown in Figure 4.
- 3) Fall chum and coho salmon from September through mid-October. The primary fall chum salmon stocks originate in the Klehini and Chilkat rivers. The primary coho salmon stocks originate in the Chilkat River and Berners Bay rivers. The return timing for fall chum and coho salmon stocks to the Lynn Canal drift gillnet fishery is shown in Figure 4.

Chinook salmon are harvested incidentally in the Lynn Canal drift gillnet fishery. A management concern for this species is to minimize chinook salmon harvests to stay within the Board of Fisheries allocation of all-gear quota (7,600 chinook for all Southeast gillnet districts). The return timing for chinook stocks to the Lynn Canal drift gillnet fishery is shown in Figure 4.

Historical catches for sockeye, coho, pink, chum, and chinook salmon in the Lynn Canal drift gillnet fishery are shown in Table 1 and Figure 5.

### *Regulatory Decision Process*

The fishery opens by regulation the third Sunday of June. The 1998 season will open on June 21. Weekly fishing periods are set by emergency order.

### *General Goal*

The overall management goal is to achieve desired spawning escapement levels while harvesting the available surplus for long-term maximum sustainable yield of all Lynn Canal salmon stocks. Stock specific escapement objectives have been established for the Chilkoot and Chilkat sockeye salmon stocks. Escapement to Chilkoot Lake is monitored at the enumeration weir located on the outlet of Chilkoot Lake. The sockeye salmon escapement to Chilkat River/Lake is monitored using fish wheels in the lower river. Total escapement is estimated using mark-recapture methodologies. The Chilkat Lake weir has not been operated since 1995. Spawning objectives for other species have been developed as desired levels for index (peak) escapement counts.

## MANAGEMENT GOALS

Specific management goals for the 1998 Lynn Canal drift gillnet fishery are as follows:

1. Obtain an escapement count of between 52,500 and 91,500 sockeye salmon at the Chilkoot Lake weir. The escapement objective for the early stock is approximately 22,000 fish prior to week 29 (about July 12th) and 40,000 fish for the late stock.
2. Obtain an escapement of between 52,000 and 106,000 sockeye salmon to Chilkat Lake. The escapement objective for the early stock is approximately 17,500 fish through week 33 (about August 15) and 47,500 for the late stock.
3. Provide for sufficient chum, coho, and pink salmon spawning escapements to the Chilkat, Chilkoot, and Berners Rivers and other Lynn Canal systems, while harvesting those fish in excess of escapement needs.
4. Minimize, to the extent practical, the incidental harvest of chinook salmon.

## 1998 OUTLOOK

### *Chilkat Sockeye*

The 1993 Chilkat Lake (Figure 2) weir count totaled 209,730 sockeye salmon, including 47,147 early run fish, and 162,583 late run fish, well above the desired upper escapement goals for both stocks (Table 2, Table 3, Figure 6). The 1992 Chilkat Lake weir count was 97,740 sockeye salmon, including 23,096 early run fish, and 74,644 late run fish, within the desired escapement goal range for both stocks. Historically, approximately 40% of the Chilkat Lake sockeye salmon run are age 2.3 (six-year old) fish, 30% are age 2.2 (five-year old) fish, 20% are age 1.3 (five-year old) fish, and the remainder are primarily age 1.2 (four-year old) fish (Appendix 1). The Lynn Canal drift gillnet catch for those brood years, 1992 and 1993, was estimated to be 111,887 and 100,717 fish respectively, compared to the 1976 to 1996 historical average of 102,874 fish (Table 4).

The Northern Southeast Regional Aquaculture Association (NSRAA) conducted a smolt abundance estimation project at the outlet of Chilkat Lake in 1995. Total sockeye salmon smolt production from Chilkat Lake that year was estimated to be 1,890,876 fish. A significant proportion, 31%, of the age-1+ smolt resulted from the Chilkat Lake enhancement program (based on thermal marks). Assuming a 10% marine survival rate and that 70% (Appendix 3) of those smolts return at three-years ocean age (combination of age-1.3 and 2.3 fish) there will be approximately 132,000 three-ocean (ages 1.3 and 2.3) Chilkat Lake sockeye salmon returning in 1998. The smolt abundance estimate in 1996 was 2,869,690 fish, 21% of which were enhanced. Assuming a 10% marine survival rate and that 30% of those smolts return at two-years ocean age (ages 1.2 and 2.2), there will be approximately 86,000 two-ocean (ages 1.2 and 2.2) Chilkat Lake sockeye returning in 1998. The total expected return of four, five, and six-year-old sockeye to

Chilkat Lake is approximately 218,000 fish, or about equal to the 1976 to 1996 historical average (Table 5, Figure 6).

The estimated escapement of Chilkat River mainstem sockeye salmon was approximately 19,469 fish in 1994 and 30,170 in 1995, the dominant parental brood years (from mark-recapture project conducted using fish wheels). No estimates of Chilkat River mainstem escapement are available prior to 1994. No total escapement estimates are available for Berners River sockeye salmon. It is therefore difficult to project the total return for these stocks but the 1976 to 1996 average historical catch of Chilkat mainstem/Berners River sockeye salmon is 20,739 fish (Table 6).

Based on the above information an above average total return of Chilkat Lake/River sockeye salmon is expected.

### *Chilkoot Sockeye*

The Chilkoot Lake (Figure 2) sockeye escapement during the dominant parental brood year (1993) was 51,827 (16,526 early run and 35,301 late run, Table 7). Although this escapement is within the desired range (Table 2), zooplankton abundance was very low in Chilkoot Lake in 1994, the year the fry from this brood year would have been rearing in the lake (Barto 1995, Barto unpublished data). The Lynn Canal drift gillnet catch for that brood year, 1993, was estimated to be 51,424 fish, 33% of the 1976 to 1996 historical average of 155,392 fish (Table 8). The total return of Chilkoot Lake sockeye salmon has been well below average since 1993 (Table 9, Figure 6).

Based on this information a below average total return of Chilkoot Lake sockeye salmon is expected.

### *Chum Salmon*

#### **Summer Chum**

The majority of the summer chum salmon harvest is comprised of enhanced fish from remote release sites at Boat Harbor and Amalga Harbor. Smaller numbers of wild chum salmon are produced from local area streams such as Sawmill Creek and the other Berners Bay rivers on the east side of Lynn Canal and the Endicott, Beardslee, and St. James rivers on the western side of Lynn Canal.

Douglas Island Pink and Chum Salmon Incorporated (DIPAC) is expecting large numbers of hatchery chum salmon to return to the Amalga Harbor and Boat Harbor remote release sites. Preliminary projections for the Boat Harbor return are approximately 120,000 fish, near the historical average. No hatchery cost recovery fishery is planned for the Boat Harbor area so these fish will all be available for common property fishery harvest. The preliminary projection for the Amalga Harbor project is approximately 1,156,000 fish (Rick Focht personal communication). The Amalga Harbor project was

first started with 1990 brood year chum salmon; there is no long-term historical data for returns for this project. There have been fairly stable, (roughly 35,000,000), numbers of chum fry released at Amalga Harbor. DIPAC will conduct hatchery cost recovery fisheries targeting chum salmon returning to the Amalga Harbor project. A significant proportion of these enhanced chum salmon will be available for the common property fishery.

Peak aerial escapement counts in Sawmill Creek in 1993, 1994, and 1995 were 1,150, 3,050, and 1,750 respectively. Those peak aerial escapements are within or above the desired peak aerial escapement goals (Table 2). Based on parental-year escapement counts the wild summer chum return in 1998 should be good (although at a much lower order of magnitude than the hatchery summer chum salmon returns).

## **Fall Chum**

Fall chum salmon returning to Lynn Canal are wild stocks returning primarily to the Chilkat River and several Chilkat River tributaries. A relatively small number of fish return to the Herman Creek spawning channel and streamside incubation projects carried out by NSRAA.

Parental-year escapements for the 1998 return of fall chum salmon were low. Peak aerial counts in the Klehini River in 1993 and 1994 were 4,200 and 7,000 respectively, well below the peak aerial escapement goals (Table 2). For the Chilkat River the peak aerial survey counts were 7,000 and 3,500 in 1994 and 1995 respectively, well below the peak aerial escapement goals for this stock (Table 2). It is known, however, that aerial escapement counts are not very reliable because of the glacial nature of the Chilkat River and the protracted spawning duration of these stocks. Another piece of information that may be used as an indication of the strength of the fall chum salmon return is the fishery performance (Appendix 4) data from Lynn Canal. The fishery performance in the dominant parental brood years (1994 and 1993) was also poor.

Based on this information the return of fall chum salmon stocks is, again, expected to be poor.

## ***Coho Salmon***

The coho salmon return in Lynn Canal is comprised of several stocks. The largest coho salmon system in the area is the Chilkat River. Very little information regarding the total run size of this stock is available. A mark-recapture experiment conducted in 1990, estimated that the total coho salmon escapement to the Chilkat River was 80,547 (95% confidence interval 70,017 to 95,583 fish, Dangel *et al.* unpublished data). No detailed harvest data is available for this stock. A more detailed, longer-term (1982 to present) stock assessment program has been conducted on the Berners River (Shaul and Crabtree 1998). Results from that program indicate that the average (1982 to 1995) total coho salmon return for that system is above 33,000 fish (range 14,000 to 73,800). This stock is estimated to have an average (1982 to 1995) total harvest rate of 74.3%. Weir counts for Chilkoot River coho salmon are also available. However, the weir is operated primarily for sockeye salmon and in most years is removed prior to the end of the coho salmon return (Appendix 2). For years in which the Chilkoot River weir was operated through at

least the end of October (1987 to 1990) the peak total Chilkoot weir count for coho salmon was 3,827 ( in 1989).

For the 1998 return, dominant parental years escapement counts, 1994 and 1995, were generally quite good for all systems. The Berners River escapement estimates in 1994 and 1995 were 15,920 and 4,945, within or above the desired escapement goal (Table 2). Peak escapement counts for the Tahini River were also above the escapement objective, the counts were 4,419 and 1,029 in 1994 and 1995 respectively (Table 2).

Fishery performance data for 1994 was exceptional. The catch of 140,764 coho salmon in Lynn Canal is the highest recorded for the period 1960 to 1997. The catch in 1995 was 79,949 fish, near the previous ten-year average of 81,911 but well above the historical 1960 to 1996 average of 57,710 fish.

Based on escapement data the coho return should be good in 1998. However, there are data that suggest that smolt production for those brood years was fairly poor. Preliminary data indicates that the smolt abundance for the Berners River may be the second lowest on record (1996 lowest documented smolt estimate). Smolt counts for the Auke Creek weir in 1997 were also below the long term average (1996 were the lowest ever). The preliminary estimate of coho salmon smolts from the Taku River in 1996 is also the lowest on record. It may be that the extremely cold weather, with little snow cover for insulation, in the winter of 1995-96 had a severe negative impact on rearing coho juveniles.

### *Chinook Salmon*

Sport Fish Division has conducted research to determine the spawning abundance of Chilkat River chinook salmon since 1991. The results of these studies are being used to build a database, which will eventually allow for developing an escapement goal for this stock(s). In addition to determining an optimum escapement goal the data collected will be used to develop forecasting methods for Chilkat River chinook salmon. A preliminary preseason forecast for this stock will be available March, 1998. At this time the projection is for an inriver return that is well below the 1991 to 1997 average of 5,840.

## 1998 MANAGEMENT APPROACH

### *Fishery Openings*

#### **Section 15-A**

Section 15-A will open for two days south of the latitude of Seduction Point at noon, Sunday June 21. If the Chilkoot River weir sockeye salmon counts are poor prior to the fishery it is possible that the eastern shoreline of Section 15-A will be closed. Chilkat Inlet will remain closed the first two weeks of the season to protect mature chinook salmon returning to the Chilkat River. Chinook salmon return timing data from the Sport Fish chinook salmon tagging program indicates that approximately 90% of the Chilkat River chinook salmon return has passed the inriver drift gillnet capture site at river mile seven by July 15 (Ericksen 1997). If it is assumed that the travel time from Chilkat Inlet to the Sport Fish tagging site is roughly ten days, the bulk of the Chilkat River chinook salmon return should be in the Chilkat River by about July 5 (week 28 in 1998).

It is anticipated that the northern boundary line will remain at Seduction Point until the third week of the season. The northern boundary line will probably be moved north to Glacier Point, on the Chilkat Inlet side of Lynn Canal, at that time if the Chilkat sockeye return is strong. Section 15-A (west of a line beginning at a point within two nautical miles of the western shoreline of Lynn Canal at the latitude to Point Sherman, to Sullivan Island Rock Light, to Eldred Rock Light, to the southernmost tip of Talsani Island, to the northernmost tip of Talsani Island, to Seduction Point) may be opened for extended periods of time throughout the summer season if the Chilkat sockeye return is strong. Chilkat Inlet may also be open to the river mouth beginning the fourth (July 12, week 29) week of the season. Subsequent openings in Section 15-A will be based on inseason fishery performance (Appendix 4) and on stock assessment data, primarily from the fish wheels in the lower Chilkat River.

The Department has attempted to increase harvest rates on Chilkat Lake sockeye salmon by allowing extended fishing time and area in Chilkat Inlet and adjacent marine waters. The success of this approach is limited because of closures of the terminal area to protect chinook salmon during the beginning of the season and fall chum salmon during the end of the season. One method to increase the harvest rate of these fish may be to use deeper (120 meshes deep) nets in Chilkat Inlet. It is thought that sockeye salmon transiting this area may swim below the effective fishing depth of traditional gillnets. A test fishery may be conducted in Chilkat Inlet to evaluate this theory.

If the Chilkoot Lake sockeye salmon return is poor, the east side of Section 15-A may be closed for much of the season. Chilkoot Inlet will probably be closed north of Seduction Point for most, if not all, of the season to protect Chilkoot Lake sockeye salmon.

Fall management will begin in week 36 (August 30). At that time, time and area restrictions may occur in Chilkat Inlet. Chilkat Inlet will probably be closed north of Point Seduction to protect Chilkat River fall chum salmon.

## **Section 15-B**

Section 15-B will not be open in 1998 unless the return of coho salmon to Berners Bay is very strong.

## **Section 15-C**

All of Section 15-C will be open for two days during the first week of the season (week 26) unless Chilkoot River weir counts for sockeye salmon for the period of the first week of June until the fishery opens are poor. If the Chilkoot River weir counts are poor it is possible that a portion of the eastern shoreline of Section 15-C will be closed to protect this stock. Subsequent openings will be based on inseason fishery performance (Appendix 4) and stock assessment data.

If the Chilkoot Lake salmon sockeye return is poor, the east side of Section 15-C may be closed for much of the season. The decision to open the east side of this section will be driven by Chilkoot River weir counts. It will be a matter of degree; if the weir counts are abysmal, that is escapement projected to be below lower escapement goals, the east side of Section 15-C will be closed. If the weir counts indicate the escapement above the lower bounds of the goals then fishing on the east side of Section 15-C will be acceptable.

The Department has attempted to increase the harvest rate on Chilkat Lake sockeye salmon by allowing more liberal, in time and area, fishery openings in Chilkat Inlet and adjacent waters. Another means of increasing the harvest rate on Chilkat Lake sockeye salmon is to have more liberal openings in Section 15-C, specifically in the area of Point St. Mary to Point Sherman. Allowing additional fishing time in this area may be problematic if the Chilkoot Lake sockeye salmon return is poor. If the counts for sockeye salmon at the Chilkoot weir are within, and projected to remain within, the lower escapement bound, additional fishing time may be allowed in the Point St. Mary to Point Sherman area, such openings would be to specifically target Chilkat Lake sockeye salmon.

The Boat Harbor area (those waters within two nautical miles of the western shoreline of Lynn Canal from the latitude of Lance Point at 58°43'56" N. latitude south to a point 2.4 miles north of Point Whidbey at 58°37'03" N. latitude) will be opened for extended periods beginning in week 27 (June 28), depending upon the strength of the hatchery summer chum salmon returns. If enhanced chum salmon returns are as strong as anticipated, the Boat Harbor area will be open continuously beginning the first week of July. It is possible that the western shoreline of Section 15-C will be closed north of Lance Point to protect wild summer chum salmon returning to the Endicott River during weeks 27 to 31 (June 28 to July 26).

Fall season management will begin in late August or early September in Section 15-C. A conservative management approach will again be implemented to ensure improved fall chum salmon escapement during the early weeks of the fall season. Management of Section 15-C during the fall season will be based on coho and chum overall run strength and fishing effort levels. Fishing effort will be directed at harvesting returns of coho salmon in lower Lynn Canal while conserving fall chum salmon.

## Other Comments

To avoid gear conflicts, the District 15 drift gillnet fishery will not be open concurrent with the Juneau Golden North Salmon Derby. Consequently, during statistical week 35, the District 15 gillnet fishery will not open until Monday, August 24.

## INFORMATION NEEDS

Effective management that maximizes harvests while providing optimal escapements requires information and adequate funds. Information gaps still exist for Lynn Canal management, most importantly for inseason estimates of escapement of Chilkat sockeye salmon and estimates of escapement of Chilkat River coho and chum salmon. In addition, precise estimates of spawning levels of Chilkat Lake sockeye salmon are needed. Without investment of money to fill information gaps, it is unlikely that desired escapement levels or maximum harvests for these stocks will be achieved. The following section details projects that would fill the major information gaps.

The major weakness in the management of the Lynn Canal drift gillnet fishery is the lack of inseason escapement estimates. Currently Chilkat sockeye salmon are captured, marked, and released at two fish wheels located in the lower Chilkat River. Recovery of those marked sockeye salmon takes place at upriver spawning locations in Chilkat Lake and the Chilkat River mainstem. The data obtained from these recovery efforts is of limited value for inseason management and is only useful for obtaining escapement estimates postseason.

A method is needed to recover marked sockeye salmon in a more timely manner, just above the fish wheels. To do this an inriver test fishery is proposed. Test fish receipt authority for the Haines Area Office has been increased to \$30,000.00 for Fiscal Year (FY) 1999. This add-on would enable expansion of this program to permit mark recovery efforts in the lower Chilkat River. The objective of this program would be to provide inseason inriver escapement estimates using stratified mark-recapture population estimates. The approximate cost of this program would be \$30,000.00.

Another project which would greatly facilitate management of the Lynn Canal drift gillnet fishery is the operation of the Chilkat Lake weir. This project is needed to provide information that is needed to refine the existing spawning escapement goals for Chilkat Lake. The weir would act as an additional recovery platform (inriver test fishery first recovery event) and would provide more precise estimates of escapement to Chilkat Lake. In addition, the weir would provide run-reconstruction data for sockeye salmon and provide valuable data on the escapement of other salmonid species to Chilkat Lake. The objectives of the program would be to provide precise, postseason escapement estimates for Chilkat Lake sockeye salmon using stratified mark-recapture population estimates, provide escapement data for other salmonid species to Chilkat Lake, and provide run-reconstruction data for sockeye salmon returning to Chilkat Lake. The approximate cost of this program would be \$46,200.00.

Very little is known regarding the escapement and harvest of Chilkat River coho salmon. Sport Fish Division will be funding a Chilkat River stock assessment program beginning in 1998, which will

significantly add to our knowledge of these stocks. The program will be an extension of the current sockeye salmon mark-recapture program. Coho salmon will be marked at the Chilkat River fish wheels, mark-recovery will take place in upriver spawning locations. This program will provide escapement information for Chilkat River coho salmon stocks, which, over time, may be used to develop spawning escapement goals. In addition to adult work that will start in the fall of 1998, Sport Fish Division will also be conducting a coded-wire tagging program beginning in the spring of 1999.

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Table 1. Historical catches of chinook, sockeye, coho, pink, and chum salmon in the District 15 (Lynn Canal) drift gillnet fishery, 1960 to 1997.

Year	Chinook				Sockeye				Coho				Pink				Chum			
	15-A	15-B	15-C	15 Total	15-A	15-B	15-C	15 Total	15-A	15-B	15-C	15 Total	15-A	15-B	15-C	15 Total	15-A	15-B	15-C	15 Total
60	1,453	0	0	1,453	59,603	1	0	59,604	9,998	966	0	10,964	1,760	0	0	1,760	58,254	308	0	58,562
61	683	0	0	683	67,839	21	0	67,860	15,499	2,757	0	18,256	25,503	0	0	25,503	122,873	4,477	0	127,350
62	806	0	0	806	103,696	0	0	103,696	24,436	0	0	24,436	2,041	0	0	2,041	115,036	0	0	115,036
63	275	1	0	276	57,517	1	0	57,518	34,628	468	0	35,096	13,689	0	0	13,689	102,183	185	0	102,368
64	771	0	0	771	68,200	0	0	68,200	33,347	0	0	33,347	6,602	0	0	6,602	103,047	0	0	103,047
65	1,735	0	0	1,735	89,045	1	0	89,046	38,418	663	0	39,081	4,222	0	0	4,222	206,292	270	0	206,562
66	865	3	0	868	108,060	26	0	108,086	39,598	1,196	0	40,794	6,004	4	0	6,008	233,759	1,413	0	235,172
67	1,171	0	0	1,171	66,621	0	0	66,621	66,109	0	0	66,109	14,677	0	0	14,677	165,874	0	0	165,874
68	1,488	0	1	1,489	79,937	0	67	80,004	39,606	0	3,656	43,262	7,776	0	27	7,803	159,776	0	9,839	169,615
69	1,599	0	19	1,618	127,628	0	241	127,869	33,828	0	1,199	35,027	5,129	0	3,867	8,996	156,800	0	3,867	160,667
70	1,733	0	38	1,771	78,734	0	381	79,115	38,916	0	9,727	48,643	19,271	0	568	19,839	230,833	0	40,582	271,415
71	2,908	0	21	2,929	74,774	0	373	75,147	39,535	0	9,647	49,182	6,095	0	61	6,156	238,269	0	32,891	271,160
72	923	0	63	986	79,287	0	1,723	81,010	50,834	0	7,137	57,971	13,346	0	1,174	14,520	322,259	0	27,422	349,681
73	2,341	0	131	2,472	192,579	0	1,122	193,701	17,704	0	8,449	26,153	14,099	0	452	14,551	236,899	0	42,432	279,331
74	1,607	0	64	1,671	142,187	0	9,827	152,014	44,745	0	20,064	64,809	4,079	0	924	5,003	372,671	0	71,295	443,966
75	815	0	1	816	18,265	0	73	18,338	43,560	0	13,983	57,543	3,242	0	13	3,255	214,035	0	24,747	238,782
76	2,044	0	24	2,068	122,735	0	3,887	126,622	49,167	0	22,817	71,984	3,866	0	563	4,429	329,974	0	45,052	375,026
77	1,156	0	58	1,214	159,312	0	767	160,079	50,453	0	40,973	91,426	130,644	0	216	130,860	152,923	0	48,711	201,634
78	457	0	79	536	105,491	0	2,989	108,480	26,084	0	27,081	53,165	3,260	0	551	3,811	82,443	0	35,985	118,428
79	3,554	0	18	3,572	192,692	0	282	192,974	23,426	0	3,589	27,015	28,752	0	11	28,763	225,713	0	17,119	242,832
80	434	0	6	440	53,096	0	891	53,987	26,120	0	2,778	28,898	79,441	0	2,902	82,343	157,515	0	11,338	168,853
81	1,083	2	215	1,300	81,740	1,289	10,166	93,195	30,452	109	14,089	44,650	112,471	4,107	20,692	137,270	90,619	508	26,248	117,375
82	5,878	1	66	5,945	268,290	160	5,432	273,882	47,719	78	24,573	72,370	67,415	126	1,509	69,050	271,659	37	34,889	306,585

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Table 1 (page 2 of 2).

Year	Chinook				Sockeye				Coho				Pink				Chum			
	15-A	15-B	15-C	15 Total	15-A	15-B	15-C	15 Total	15-A	15-B	15-C	15 Total	15-A	15-B	15-C	15 Total	15-A	15-B	15-C	15 Total
83	1,993	5	121	2,119	349,884	155	19,791	369,830	53,622	66	15,822	69,510	134,319	452	22,775	157,546	311,510	1,116	28,519	341,145
84	5,822	13	264	6,099	320,277	3,759	10,546	334,582	43,637	58	24,520	68,215	68,611	2,128	7,261	78,000	552,232	10,177	79,829	642,238
85	2,753	177	330	3,260	233,972	7,736	61,533	303,241	64,547	414	33,329	98,290	169,644	6,079	63,357	239,080	582,649	12,377	103,784	698,810
86	2,141	41	590	2,772	248,264	1,100	40,541	289,905	48,046	4	34,071	82,121	31,927	34	6,154	38,115	305,610	1,357	74,415	381,382
87	3,021	2	200	3,223	381,856	1,244	32,236	415,336	31,195	15	22,541	53,751	124,066	430	41,255	165,751	295,663	548	96,727	392,938
88	1,136	27	94	1,257	327,330	17,469	7,000	351,799	50,984	410	30,142	81,536	193,991	10,343	4,070	208,404	284,127	28,664	64,792	377,583
89	1,478	33	444	1,955	351,706	9,249	110,959	471,914	29,484	98	20,725	50,307	61,365	291	48,798	110,454	90,735	3,508	29,388	123,631
90	364	16	290	670	248,878	3,612	104,928	357,418	36,260	48	26,764	63,072	48,645	1,247	51,207	101,099	122,157	2,908	85,477	210,542
91	462	0	283	745	275,428	0	32,383	307,811	23,031	0	105,334	128,365	3,815	0	1,657	5,472	100,121	0	110,068	210,189
92	225	0	385	610	230,229	0	55,806	286,035	30,021	0	78,732	108,753	243,297	0	108,265	351,562	114,157	0	131,090	245,247
93	302	0	439	741	119,754	0	53,359	173,113	7,499	0	52,453	59,952	680	0	10,656	11,336	62,190	0	244,376	306,566
94	253	4	723	980	111,061	80	60,588	171,729	55,925	13,805	71,034	140,764	57,648	2	89,627	147,277	155,172	4,482	525,795	685,449
95	56	0	772	831	41,570	505	34,351	88,572	21,093	11,632	43,696	79,949	883	0	14,641	5,799	62,206	1,332	494,792	568,368
96	106	0	491	642	65,031	0	41,354	149,961	16,525	0	29,885	52,658	1,290	0	958	2,358	55,321	0	337,709	415,547
97	280	0	487	834	52,669	0	42,413	118,348	2,034	0	12,558	15,572	13,601	0	36,864	32,962	28,410	0	425,122	461,614
Averages																				
1960-69	1,085	0	2	1,087	82,815	5	31	82,850	33,547	605	486	34,637	8,740	0	389	9,130	142,389	665	1,371	144,425
1970-79	1,754	0	50	1,804	116,606	0	2,142	118,748	38,442	0	16,347	54,789	22,665	0	453	23,119	240,602	0	38,624	279,226
1987-96	740	8	412	1,165	215,284	3,216	53,296	277,369	30,202	2,601	48,131	81,911	73,568	1,231	37,113	110,951	134,185	4,144	212,021	353,606
1960-96	1,478	9	177	1,667	151,454	1,221	19,632	174,385	35,213	863	21,352	57,710	45,452	664	14,239	59,641	196,631	1,939	86,955	286,594

Table 2. Escapement goals for Lynn Canal salmon stocks by species and location.

Species	Stock	Escapement Goal		Lower	Upper
		Type	Point Goal	Escapement Goal	Escapement Goal
Sockeye	Chilkoot Lake Early	Weir Count	22,000	16,500	31,500
Sockeye	Chilkoot Lake Late	Weir Count	40,000	34,000	60,000
Sockeye	Chilkoot Lake Total	Weir Count	62,000	52,500	91,500
Sockeye	Chilkat Lake Early	M-R Estimate	17,500	14,000	28,000
Sockeye	Chilkat Lake Late	M-R Estimate	47,500	38,000	78,000
Sockeye	Chilkat Lake Total	M-R Estimate	65,000	52,000	106,000
Sockeye	Chilkat River	Peak Foot Count	N/A	500	2,000
Sockeye	Berners Bay rivers	Peak Aerial Count	N/A	750	1,500
Coho	Berners River	Peak Foot Count	6,300	4,000	9,200
Coho	Tahini River	Peak Foot Count	N/A	400	900
Coho	Takhin River	Peak Aerial Count	N/A	800	1,200
Coho	Chilkat River	Undetermined	N/A	N/A	N/A
Fall Chum	Klehini River	Peak Aerial Count	N/A	20,000	N/A
Fall Chum	Chilkat River	Peak Aerial Count	N/A	70,000	100,000
Wild Summer Chum	Sawmill Creek	Peak Aerial Count	N/A	1,000	2,000
Wild Summer Chum	Western Lynn Canal Systems Combined	Peak Aerial Count	N/A	4,000	8,000
Pink	Sawmill Creek	Peak Aerial Count	N/A	5,000	10,000
Pink	Western Lynn Canal Systems Combined	Peak Aerial Count	N/A	50,000	90,000
Chinook	Chilkat River Combined	M-R Estimate	2,000	N/	N/A

Table 3. Annual escapements of Chilkat Lake sockeye salmon by week, 1976 to 1997.

Mid-Week Date	Stat Week	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
JUN 4	23	0	0	0	0	0	0	0	0	0	0	0
JUN 11	24	1	0	22	6	0	0	0	0	0	0	0
JUN 18	25	0	214	476	44	72	3	0	0	302	0	0
JUN 25	26	433	305	1,302	698	887	0	31	368	1,441	7	4
JUL 2	27	944	572	8,622	6,930	1,152	5	532	1,248	5,436	98	2
JUL 9	28	2,437	773	2,751	2,081	3,560	141	605	11,144	623	1,317	602
JUL 16	29	1,140	207	11,816	8,576	4,355	549	461	15,284	3,280	1,141	139
JUL 23	30	2,055	542	1,310	4,068	4,575	1,071	2,515	8,935	6,011	334	20
JUL 30	31	2,816	711	1,814	1,413	2,100	1,002	1,743	10,750	929	812	24
AUG 6	32	310	1,184	40	2,056	2,100	266	3,496	6,865	141	2,029	1
AUG 13	33	2,740	725	1,078	5,895	2,100	729	509	4,254	2,971	157	3
AUG 20	34	9,810	968	1,634	7,288	5,666	1,450	4,073	5,589	1,417	1,555	138
AUG 27	35	4,283	1,269	1,246	11,212	6,910	767	5,151	1,433	14,899	4,434	736
SEP 3	36	6,799	18,711	5,670	3,639	10,351	4,967	1,575	5,475	18,015	3,271	1,006
SEP 10	37	17,483	8,664	6,106	19,464	29,613	18,652	6,091	10,526	18,512	3,372	5,364
SEP 17	38	9,655	144	7,747	12	10,739	1,113	20,378	21,097	21,106	12,639	6,943
SEP 24	39	5,584	5,821	9,469	2,353	7,015	6,134	25,516	9,455	17,510	17,688	3,796
OCT 1	40	0	234	6,334	1,413	3,374	32,516	7,467	9,398	2,252	5,258	3,762
OCT 8	41	3,001	0	91	2,125	778	10,222	78	7,305	424	2,009	831
OCT 15	42	238			1,316		4,502		5,081		1,603	576
Yearly Total		69,729	41,044	67,528	80,589	95,347	84,089	80,221	134,207	115,269	57,724	23,947
Weekly Mean		3,486	2,160	3,554	4,029	5,609	4,672	5,014	7,895	6,067	3,396	1,330
Early Stock		17,582	9,437	17,924	30,433	10,253	10,617	9,640	47,885	28,193	7,449	2,536
Late Stock		52,147	31,607	49,604	50,156	85,094	73,472	70,581	86,322	87,076	50,275	21,411

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Table 3. (page 2 of 2).

Mid-Week Date	Stat Week	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1976-93 Mean	Cum. Percent
JUN 4	23	0	0	62	0	1	0	0	n/a	n/a	n/a	n/a	9	0.0%
JUN 11	24	0	0	689	202	44	10	0	n/a	n/a	n/a	n/a	135	0.2%
JUN 18	25	0	0	5,802	639	305	53	75	n/a	n/a	n/a	n/a	982	1.2%
JUN 25	26	88	59	10,690	3,615	901	1,016	1,745	n/a	n/a	n/a	n/a	2,588	4.1%
JUL 2	27	1,777	2,015	7,845	1,660	1,600	1,653	3,557	n/a	n/a	n/a	n/a	2,872	7.2%
JUL 9	28	2,197	496	2,295	4,353	1,971	1,762	4,240	n/a	n/a	n/a	n/a	2,473	10.0%
JUL 16	29	5,601	9	8,126	9,566	503	6,529	3,552	n/a	n/a	n/a	n/a	4,841	15.3%
JUL 23	30	2,542	722	15,810	2,380	2,812	5,034	7,615	n/a	n/a	n/a	n/a	5,274	21.1%
JUL 30	31	1	1,969	3,161	1,449	2,234	2,263	5,336	n/a	n/a	n/a	n/a	2,345	23.6%
AUG 6	32	123	1,965	4,340	1,925	3,724	3,579	6,490	n/a	n/a	n/a	n/a	3,164	27.1%
AUG 13	33	1,776	200	11	380	1,821	1,197	14,537	n/a	n/a	n/a	n/a	2,846	30.2%
AUG 20	34	1,875	566	3,207	2,948	4,295	5,768	6,643	n/a	n/a	n/a	n/a	3,615	34.2%
AUG 27	35	6,193	280	7,582	7,167	10,732	10,357	23,593	n/a	n/a	n/a	n/a	9,415	44.6%
SEP 3	36	1,618	469	8,379	9,647	5,380	13,172	19,677	n/a	n/a	n/a	n/a	8,335	53.7%
SEP 10	37	27	7,973	15,019	259	2,260	6,014	1,251	n/a	n/a	n/a	n/a	4,686	58.9%
SEP 17	38	259	2,254	34,155	664	3,264	8,779	61,222	n/a	n/a	n/a	n/a	15,800	76.2%
SEP 24	39	18,033	2,747	2,713	4,465	1,873	22,150	32,323	n/a	n/a	n/a	n/a	12,043	89.4%
OCT 1	40	6,165	4,551	2,936	3,552	1,091	6,171	297	n/a	n/a	n/a	n/a	3,538	93.3%
OCT 8	41	0	655	3,053	4,456	1,427	1,891	2,947	n/a	n/a	n/a	n/a	2,061	95.6%
OCT 15	42	318	663	4,600	904	6,651	342	14,630	n/a	n/a	n/a	n/a	4,015	100.0%
Yearly Total		48,593	27,593	140,475	60,231	52,889	97,740	209,730	180,006 <sup>a</sup>	184,541 <sup>a</sup>	325,153 <sup>a</sup>	221,006 <sup>a</sup>	91,036 <sup>a</sup>	
Weekly Mean		2,700	1,533	7,024	3,170	2,644	5,144	10,487	n/a	n/a	n/a	n/a	4,672	
Early Stock		13,345	7,512	54,090	25,792	15,916	23,096	47,147	23,419	21,205	198,277	n/a		
Late Stock		35,248	20,081	86,385	34,439	36,973	74,644	162,583	57,084	38,353	126,876	n/a		

<sup>a</sup>Total escapement estimates from mark-recapture program, weekly escapement numbers are not available.

Table 4. Annual harvests of Chilkat Lake sockeye salmon by week, 1976 to 1997.

Mid-Week Date	Stat Week	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
JUN 18	25	384		4,385	1,512	603	1,539	469		2,248	408	88
JUN 25	26	4,605	5,041	1,343	3,243	166	1,960	2,139	1,084	4,907	1,725	357
JUL 2	27	4,624	9,089		25		1,821	3,529	1,868	5,696	1,633	1,302
JUL 9	28	4,146	1,577	1,048	4,936		1,494	2,919	5,603	4,790	5,139	625
JUL 16	29	897	2,205	1,832	5,512		2,504	2,626	4,457	9,051	4,318	1,858
JUL 23	30	1,740	1,044	3,218	13,220	2,110	5,100	1,103	7,382	8,136	3,137	2,209
JUL 30	31	1,459	1,130	20,294	18,107	1,301	2,121	11,392	8,243	8,366	9,150	2,242
AUG 6	32	9,420	3,318	18,939	28,212	3,450	5,668	27,126	17,604	12,062	9,676	10,774
AUG 13	33	11,682	4,625	22,490	15,870	8,237	1,017	30,199	18,777	18,396	11,336	30,803
AUG 20	34	11,496	5,217	11,334	16,101	6,844	1,980	14,475	11,718	6,390	26,250	45,502
AUG 27	35	7,997	6,123	3,138	6,339	6,889	18,720	16,202	20,923	6,528	35,316	14,617
SEP 3	36	497	1,482	1,233	1,471	681	3,130	10,675	19,799	4,898	16,834	44,362
SEP 10	37	257	318	256	685	207	1,000	1,913	5,148	3,997	7,808	7,719
SEP 17	38-42	124	220	48	761	193	406	2,269	1,282	2,766	2,773	5,903
Yearly Total		59,328	41,389	89,558	115,994	30,681	48,460	127,036	123,888	98,231	135,503	168,361
Weekly Mean		4,238	3,184	6,889	8,285	2,789	3,461	9,074	9,530	7,017	9,679	12,026
Early Stock Catch		9,514	13,064	8,023	29,065	1,984	12,885	26,257	32,908	43,208	23,540	15,333
Late Stock Catch		49,814	28,325	81,535	86,929	28,697	35,575	100,779	90,980	55,023	111,963	153,028

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Table 4. (page 2 of 2).

Mid-Week Date	Stat Week	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1976-96 Mean
JUN 18	25			7,596	1,719	1,211		2,283	0	2,283	987	3,146	2,297
JUN 25	26	1,880	2,379	8,490	2,406	1,826	2,436	1,141	4,752	1,698	3,234	2,950	3,024
JUL 2	27	3,530	3,482	10,439	6,306	1,557	4,627	2,563	6,768	2,002	929	3,398	4,220
JUL 9	28	1,516	4,920	11,161	4,405	1,931	3,548	5,547	7,677	4,884	1,597	2,387	4,719
JUL 16	29	6,810	7,598	12,833	3,688	2,389	5,687	5,865	11,756	1,971	2,512	2,756	6,111
JUL 23	30	5,038	3,405	9,805	10,257	2,116	5,647	2,926	6,452	2,082	2,869	2,588	5,060
JUL 30	31	6,072	8,507	12,833	9,923	4,060	5,562	3,981	9,597	2,611	8,008	7,596	7,115
AUG 6	32	15,278	6,497	30,913	25,025	6,478	11,688	7,123	11,775	4,543	16,233	9,590	13,555
AUG 13	33	9,454	13,369	18,492	35,214	6,049	24,426	11,967	12,141	5,764	17,426	6,066	15,430
AUG 20	34	8,166	6,771	18,034		10,037	9,648	26,518	11,760	18,943	19,743	11,031	14,402
AUG 27	35	6,456	6,728	13,465	29,780	8,691	26,558	14,515	18,913	7,195	9,872	11,544	14,217
SEP 3	36	2,494	6,637	3,833	14,282	6,056	9,517	10,273	12,759	4,375	6,742	4,627	7,697
SEP 10	37	1,825	3,518	1,231	3,761	5,466	2,220	4,650	7,863	2,996	3,977	2,378	3,751
SEP 17	38-42	1,550	2,662	321	290	1,939	323	1,365	0	2,048	2,251	0	1,275
Yearly Total		70,069	76,473	159,446	147,056	59,806	111,887	100,717	122,212	63,396	96,380	70,056	102,874
Weekly Mean		5,390	5,883	11,389	11,312	4,272	8,607	7,194	8,729	4,528	6,884	5,004	7,419
Early Stock Catch		24,571	25,500	60,963	2,972	11,030	21,945	20,325	37,404	14,920	12,129	17,225	25,431
Late Stock Catch		45,498	50,973	98,483	144,084	48,776	89,942	80,392	84,808	48,476	84,251	52,831	77,443

Table 5. Annual total return of Chilkat Lake sockeye salmon by week, 1976 to 1997.

Mid-Week	Stat											
Date	Week	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
JUN 4	23	0	0	0	0					0		
JUN 11	24	1	0	22	6					0		
JUN 18	25	384	214	4,861	1,556	675	1,542	469	0	2,550	408	88
JUN 25	26	5,038	5,346	2,645	3,941	1,053	1,960	2,170	1,452	6,348	1,732	361
JUL 2	27	5,568	9,661	8,622	6,955	1,152	1,826	4,061	3,116	11,132	1,731	1,304
JUL 9	28	6,583	2,350	3,799	7,017	3,560	1,635	3,524	16,747	5,413	6,456	1,227
JUL 16	29	2,037	2,412	13,648	14,088	4,355	3,053	3,087	19,741	12,331	5,459	1,997
JUL 23	30	3,795	1,586	4,528	17,288	6,685	6,171	3,618	16,317	14,147	3,471	2,229
JUL 30	31	4,275	1,841	22,108	19,520	3,401	3,123	13,135	18,993	9,295	9,962	2,266
AUG 6	32	9,730	4,502	18,979	30,268	5,550	5,934	30,622	24,469	12,203	11,705	10,775
AUG 13	33	14,422	5,350	23,568	21,765	10,337	1,746	30,708	23,031	21,367	11,493	30,806
AUG 20	34	21,306	6,185	12,968	23,389	12,510	3,430	18,548	17,307	7,807	27,805	45,640
AUG 27	35	12,280	7,392	4,384	17,551	13,799	19,487	21,353	22,356	21,427	39,750	15,353
SEP 3	36	7,296	20,193	6,903	5,110	11,032	8,097	12,250	25,274	22,913	20,105	45,368
SEP 10	37	17,740	8,982	6,362	20,149	29,820	19,652	8,004	15,674	22,509	11,180	13,083
SEP 17	38	9,779	364	7,795	773	10,932	1,519	22,647	22,379	23,872	15,412	12,846
SEP 24	39	5,584	5,821	9,469	2,353	7,015	6,134	25,516	9,455	17,510	17,688	3,796
OCT 1	40	0	234	6,334	1,413	3,374	32,516	7,467	9,398	2,252	5,258	3,762
OCT 8	41	3,001	0	91	2,125	778	10,222	78	7,305	424	2,009	831
OCT 15	42	238	0	0	1,316	0	4,502	0	5,081	0	1,603	576
Yearly Total		129,057	82,433	157,083	196,583	126,028	132,549	207,257	258,095	213,500	193,227	192,308
Weekly Mean		6,453	4,122	7,854	9,829	7,002	7,364	11,514	14,339	10,675	10,735	10,684

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Table 5. (page 2 of 2).

Mid-Week	Stat												1976-96
Date	Week	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Mean
JUN 4	23			62		1	0	0	2	2	0	n/a	6
JUN 11	24			689	202	44	10	0	170	38	0	n/a	91
JUN 18	25	0	0	13,398	2,358	1,516	53	2,358	403	2,938	1,020	n/a	1,752
JUN 25	26	1,968	2,438	19,180	6,021	2,727	3,452	2,886	8,717	3,935	7,578	n/a	4,331
JUL 2	27	5,307	5,497	18,284	7,966	3,157	6,280	6,120	11,670	2,773	17,724	n/a	6,662
JUL 9	28	3,713	5,416	13,456	8,758	3,902	5,310	9,787	15,300	7,610	41,196	n/a	8,227
JUL 16	29	12,411	7,607	20,959	13,254	2,892	12,216	9,417	14,068	9,618	37,305	n/a	10,569
JUL 23	30	7,580	4,127	25,615	12,637	4,928	10,681	10,541	8,149	4,170	33,185	n/a	9,593
JUL 30	31	6,073	10,476	15,994	11,372	6,294	7,825	9,317	11,799	5,233	44,697	n/a	11,286
AUG 6	32	15,401	8,462	35,253	26,950	10,202	15,267	13,613	15,387	7,331	55,424	n/a	17,525
AUG 13	33	11,230	13,569	18,503	35,594	7,870	25,623	26,504	12,071	9,757	48,989	n/a	19,253
AUG 20	34	10,041	7,337	21,241	2,948	14,332	15,416	33,161	14,229	24,367	41,796	n/a	18,179
AUG 27	35	12,649	7,008	21,047	36,947	19,423	36,915	38,108	20,656	17,746	32,917	n/a	20,883
SEP 3	36	4,112	7,106	12,212	23,929	11,436	22,689	29,950	27,289	7,911	27,687	n/a	17,089
SEP 10	37	1,852	11,491	16,250	4,020	7,726	8,234	5,901	27,807	3,333	31,224	n/a	13,857
SEP 17	38	1,809	4,916	34,476	954	5,203	9,102	62,587	9,871	12,147	3,335	n/a	12,987
SEP 24	39	18,033	2,747	2,713	4,465	1,873	22,150	32,323	226	1,086	0	n/a	9,331
OCT 1	40	6,165	4,551	2,936	3,552	1,091	6,171	297	136,687	68,758	98,926	n/a	19,102
OCT 8	41	0	655	3,053	4,456	1,427	1,891	2,947	9,769	4,723	7,066	n/a	2,993
OCT 15	42	318	663	4,600	904	6,651	342	14,630	0	0	0	n/a	1,973
Yearly Total		118,662	104,066	299,921	207,287	112,695	209,627	310,447	307,005	249,191	424,079	291,062	201,481
Weekly Mean		6,592	5,781	14,996	10,910	5,635	10,481	15,522	17,214	9,674	26,504	3,503	10,661

Table 6. Annual harvests of Chilkat River mainstem and Berners Bay rivers, and other non-Chilkat or Chilkoot lakes, sockeye salmon by week, 1976 to 1997.

Mid-Week Date	Stat Week	1976	1977	1978	1979	1980	b 1981	b 1982	b 1983	b 1984	1985	1986
JUN 18	25	60	0	548	504	381	143	44	0	355	134	16
JUN 25	26	694	2,653	1,759	1,328	56	101	210	49	514	1,688	599
JUL 2	27	963	1,330	207	0	725	145	145	255	491	5,173	1,233
JUL 9	28	1,194	332	386	494	158	150	155	294	383	6,691	4,365
JUL 16	29	375	848	316	501	73	181	175	105	309	273	738
JUL 23	30	735	116	577	1,414	0	116	172	268	561	522	897
JUL 30	31	204	0	486	1,942	76	154	549	1,204	706	746	597
AUG 6	32	227	0	0	0	75	67	128	740	536	448	903
AUG 13	33	151	0	269	165	8	0	329	663	244	377	948
AUG 20	34	132	98	74	492	3	14	0	256	73	68	825
AUG 27	35	76	0	29	195	3	0	0	78	130	48	206
SEP 3	36	8	0	6	35		0	0	42	48	0	87
SEP 10	37	0	0	1	14		0	0	1	0	10	0
SEP 17	38-42	23	0		32		0	1	0	0	0	0
Yearly Total		4,842	5,377	4,658	7,116	1,558	1,071	1,908	3,955	4,350	16,178	11,414
Weekly Mean		346	384	333	508	111	77	136	283	311	1,156	815

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Table 6. (page 2 of 2).

Mid-Week Date	Stat Week	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1976-96 Mean
JUN 18	25	0	0	3,214	1,823	2,213	0	0		1,282	1,828	1,466	1,151
JUN 25	26	734	968	3,381	1,783	6,782	4,926	2,321	1,178	1,165	3,309	1,441	2,655
JUL 2	27	6,958	6,611	2,440	6,998	4,097	8,241	4,258	2,418	976	1,245	2,070	4,424
JUL 9	28	983	4,889	1,742	2,221	2,470	5,650	3,296	2,135	1,696	1,743	1,046	2,683
JUL 16	29	872	5,100	2,030	1,054	3,451	4,275	3,012	2,619	744	2,311	1,133	2,547
JUL 23	30	263	1,057	1,725	4,601	1,012	3,327	2,757	1,323	799	2,660	1,447	1,952
JUL 30	31	330	1,316	2,922	4,669	1,729	2,488	1,738	2,400	457	5,535	1,495	2,358
AUG 6	32	350	442	1,956	4,251	1,138	2,356	879	2,236	385	5,695	769	1,969
AUG 13	33	111	348	366	3,088	224	1,422	433	2,291	250	2,916	168	1,145
AUG 20	34	121	101	494	0	151	280	246	1,623	396	1,051	278	446
AUG 27	35	22	100	233	297	635	280	33	723	100	333	210	276
SEP 3	36	0	122	98	216	0	184	12	263	90	145	95	113
SEP 10	37	7	23	19	40	38	0	0	32	61	87	24	31
SEP 17	38-42	0	33	5	3	24	0	0	11	29	34	0	14
Yearly Total		10,751	21,110	20,625	31,044	23,964	33,429	18,985	19,252	8,430	28,893	11,642	20,739
Weekly Mean		768	1,508	1,473	2,217	1,712	2,388	1,356	1,481	602	2,064	832	1,491

Table 7. Annual escapements of Chilkoot Lake sockeye salmon by week, 1976 to 1997.

Mid-Week Date	Stat Week	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
JUN 4	23	124	14	844	3	0	0	0	0	333	8	25
JUN 11	24	623	9,572	1,957	8,738	0	25	252	467	3,349	6	101
JUN 18	25	241	35,751	1,368	2,730	391	1,108	12,220	2,764	11,100	104	163
JUN 25	26	3,579	11,150	274	469	1,157	2,177	9,440	8,860	7,444	4,681	224
JUL 2	27	735	3,361	6,677	407	1,824	559	2,623	4,062	4,406	783	857
JUL 9	28	397	6,970	1,311	309	2,241	606	1,981	3,304	9,993	463	3,650
JUL 16	29	1,752	1,844	2,526	95	5,894	7,346	5,095	4,090	6,738	810	2,328
JUL 23	30	4,091	1,854	7,650	2,871	9,239	15,951	17,574	21,548	11,917	3,601	5,467
JUL 30	31	28,061	9,016	3,465	22,765	8,294	9,006	20,806	12,747	9,610	19,778	11,438
AUG 6	32	13,587	9,561	5,157	31,000	20,860	9,963	13,358	4,507	8,020	9,832	21,563
AUG 13	33	11,827	6,059	2,316	16,091	21,333	15,631	8,287	3,614	5,522	12,501	12,276
AUG 20	34	5,205	1,019	1,469	5,140	12,968	10,659	4,938	2,720	11,185	7,013	11,839
AUG 27	35	346	372	155	3,880	10,669	5,028	2,655	3,016	3,435	4,432	6,348
SEP 3	36	49	403	56	933	1,077	4,519	1,518	4,366	4,474	2,817	5,416
SEP 10	37	118	103	106	427	479	794	1,404	2,604	2,891	1,546	5,071
SEP 17	38	410	2	83	8	45	0	822	1,070	0	480	762
SEP 24	39	142	0	12	70	36	0	0	502	0	145	409
OCT 1	40-42	10	0	28	10	5	0	0	102	0	26	87
Yearly Total		71,297	97,051	35,454	95,946	96,512	83,372	102,973	80,343	100,417	69,026	88,024
Weekly Mean		3,961	6,066	1,970	5,330	6,032	5,955	6,436	4,464	6,694	3,835	4,890
Early Stock Esc.		6,737	69,268	10,349	13,026	14,196	8,144	29,127	21,545	37,489	9,424	17,210
Late Stock Esc.		64,560	27,783	25,105	82,920	82,316	75,228	73,846	58,798	62,928	59,602	70,814

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Table 7. (page 2 of 2).

Mid-Week Date	Stat Week	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1976-96 Mean	Cumm. Percent
JUN 4	23	11	0	571	328	1	31	65	309	185	0	873	150	0.2%
JUN 11	24	176	95	4,266	2,060	471	4,744	249	2687	295	129	2317	1,517	2.7%
JUN 18	25	198	1,082	21,300	2,778	5,599	8,775	2,592	1,117	243	459	6,677	4,414	10.0%
JUN 25	26	16,583	1,506	2,466	12,190	3,083	2,310	5,431	4,752	342	1,418	3,433	5,008	18.2%
JUL 2	27	6,879	22,846	1,009	1,893	2,097	8,450	2,306	4,170	317	1,956	1,407	5,192	26.7%
JUL 9	28	3,365	5,872	913	1,980	2,528	975	5,883	4,241	298	4,393	3,143	3,045	31.7%
JUL 16	29	7,000	4,389	2,122	0	5,436	1,222	3,488	1,141	325	2,482	2,440	2,761	36.2%
JUL 23	30	8,134	2,554	2,942	4,989	21,990	2,902	5,021	2,123	1,517	12,040	4,805	6,421	46.8%
JUL 30	31	8,998	5,416	3,614	1,853	17,870	9,488	5,864	5,158	1,731	9,163	3,919	6,916	58.1%
AUG 6	32	9,944	5,824	4,313	1,995	7,317	7,173	6,807	1,342	417	6,743	3,524	5,188	66.6%
AUG 13	33	5,899	5,683	2,157	4,255	8,229	10,572	4,298	2,140	545	3,867	2,606	4,765	74.4%
AUG 20	34	16,978	10,851	2,793	13,553	4,115	2,530	4,857	3,220	237	2,655	4,246	6,179	84.6%
AUG 27	35	6,018	6,650	3,067	13,734	5,077	3,531	2,222	2,736	270	2,919	2,880	4,622	92.2%
SEP 3	36	3,918	4,544	1,840	9,147	3,988	2,549	899	1,656	472	1,081	1,540	3,009	97.1%
SEP 10	37	738	2,646	876	2,128	1,879	1,200	1,427	624	15	969	444	1,250	99.1%
SEP 17	38	217	759	232	365	416	346	418	0	0	465	0	322	99.7%
SEP 24	39	112	381	216	5	294	273	0	0	0	0	0	128	99.9%
OCT 1	40-42	17	176	203	71	248	0	0	0	0	0	0	72	100.0%
Yearly Total		95,185	81,274	54,900	73,324	90,638	67,071	51,827	37,416	7,209	50,739	44,254	60,958	
Weekly Mean		5,288	4,781	3,050	4,074	5,035	3,726	2,879	2,459	401	2,819	2,459	3,451	
Early Stock		29,141	30,765	29,561	21,229	16,497	25,285	16,526	17,276	1,680	8,355	17,850	19,631	
Late Stock		66,044	50,509	25,339	54,870	74,141	41,786	35,301	20,140	5,529	42,384	26,404	41,604	

Table 8. Annual harvests of Chilkoot Lake sockeye salmon by week, 1976 to 1997.

Mid-Week Date	Stat Week	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
JUN 18	25	242		2,428	2,072	921	2,286	2,217		2,173	526	251
JUN 25	26	2,891	22,024	733	1,719	322	2,078	3,832	1,315	6,760	2,294	423
JUL 2	27	2,457	17,624		2,425		1,750	4,349	2,574	7,686	2,589	2,135
JUL 9	28	2,953	13,860	1,093	11,723		2,740	5,325	3,882	8,885	6,463	1,035
JUL 16	29	3,087	16,535	2,458	1,002		9,464	5,585	3,839	21,330	2,046	1,697
JUL 23	30	6,006	8,698	1,523	5,193	945	8,159	11,347	19,770	49,673	4,595	2,342
JUL 30	31	2,422	11,583	2,883	7,114	1,931	11,679	36,013	49,231	47,278	17,492	2,068
AUG 6	32	23,153	11,734	971	25,146	6,974	2,165	28,481	40,832	37,997	23,836	7,901
AUG 13	33	2,424	6,773	1,133	5,786	6,955	1,578	21,656	41,120	20,685	19,764	21,361
AUG 20	34	2,381	3,803	738	4,879	1,293	952	16,192	22,533	15,902	48,615	37,864
AUG 27	35	13,008	511	204	1,921	1,302	539	8,310	28,181	9,903	12,833	20,961
SEP 3	36	808	124	80	446	128	232	754	21,668	2,980	9,550	9,762
SEP 10	37	419	26	17	207	39	121	461	5,190	367	1,271	2,206
SEP 17	38-42	201	18	3	231	36	49	70	1,334	173	451	424
Yearly Total		62,452	113,313	14,264	69,864	20,846	43,792	144,592	241,469	231,792	152,325	110,430
Weekly Mean		4,461	8,716	1,097	4,990	1,895	3,128	10,328	18,575	16,557	10,880	7,888
Early Stock Catch		8,543	53,508	4,254	17,939	1,243	8,854	15,723	7,771	25,504	11,872	3,844
Late Stock Catch		53,909	59,805	10,010	51,925	19,603	34,938	128,869	233,698	206,288	140,453	106,586

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Table 8. (page 2 of 2).

Mid-Week Date	Stat Week	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1976-96 Mean
JUN 18	25			5,673	2,284	2,701				1,504	1,403	6,934	2,713
JUN 25	26	4,838	4,591	12,640	2,546	4,103	7,116	7,692	3,879	1,165	3,971	5,352	5,254
JUL 2	27	16,332	5,961	12,466	8,019	2,933	12,867	9,424	4,682	1,015	1,618	4,492	7,532
JUL 9	28	4,660	14,662	27,293	7,958	6,536	9,143	6,134	2,763	1,866	1,594	1,682	8,261
JUL 16	29	44,328	25,161	43,692	13,233	8,095	14,276	5,786	2,619	744	578	2,322	15,851
JUL 23	30	46,056	22,721	34,439	41,331	8,141	13,654	3,724	1,228	237	779	3,061	17,231
JUL 30	31	42,042	48,921	61,509	29,768	35,267	13,496	4,510	2,400	213	3,355	4,293	24,148
AUG 6	32	85,999	40,664	43,957	34,731	49,985	18,479	2,502	2,609	144	2,983	251	28,205
AUG 13	33	41,439	43,995	33,639	28,539	36,144	19,574	3,500	2,291	250	1,346	180	21,072
AUG 20	34	32,383	14,181	8,205		37,354	12,852	3,089	1,298	396	525	159	12,254
AUG 27	35	13,503	21,734	5,245	4,758	19,334	12,929	2,214	904	232	444	117	8,130
SEP 3	36	2,537	8,951	2,497	3,068	7,322	4,612	2,131	526	90	145	48	3,188
SEP 10	37	728	1,931	369	2,440	5,089	1,503	583	97	61	87	24	1,289
SEP 17	38-42	150	495	239	189	1,037	218	135	119	29	34	0	265
Yearly Total		334,995	253,968	291,863	178,864	224,041	140,719	51,424	25,414	7,946	18,861	28,913	155,392
Weekly Mean		25,769	19,536	20,847	13,759	16,003	10,825	3,956	1,955	568	1,347	2,065	11,099
Early Stock Catch		25,830	25,214	58,072	20,807	16,273	29,126	23,250	11,323	5,550	8,586	18,459	22,403
Late Stock Catch		309,165	228,754	233,791	158,057	207,768	111,593	28,174	14,091	2,396	10,275	10,454	130,406

Table 9. Annual total return of Chilkoot Lake sockeye salmon by week, 1976 to 1997.

Mid-Week	Stat											
Date	Week	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
JUN 4	23	124	14	844	3			0	0	333	8	25
JUN 11	24	623	9,572	1,957	8,738		25	252	467	3,349	6	101
JUN 18	25	483	35,751	3,796	4,802	1,312	3,394	14,437	2,764	13,273	630	414
JUN 25	26	6,470	33,174	1,007	2,188	1,479	4,255	13,272	10,175	14,204	6,975	647
JUL 2	27	3,192	20,985	6,677	2,832	1,824	2,309	6,972	6,636	12,092	3,372	2,992
JUL 9	28	3,350	20,830	2,404	12,032	2,241	3,346	7,306	7,186	18,878	6,926	4,685
JUL 16	29	4,839	18,379	4,984	1,097	5,894	16,810	10,680	7,929	28,068	2,856	4,025
JUL 23	30	10,097	10,552	9,173	8,064	10,184	24,110	28,921	41,318	61,590	8,196	7,809
JUL 30	31	30,483	20,599	6,348	29,879	10,225	20,685	56,819	61,978	56,888	37,270	13,506
AUG 6	32	36,740	21,295	6,128	56,146	27,834	12,128	41,839	45,339	46,017	33,668	29,464
AUG 13	33	14,251	12,832	3,449	21,877	28,288	17,209	29,943	44,734	26,207	32,265	33,637
AUG 20	34	7,586	4,822	2,207	10,019	14,261	11,611	21,130	25,253	27,087	55,628	49,703
AUG 27	35	13,354	883	359	5,801	11,971	5,567	10,965	31,197	13,338	17,265	27,309
SEP 3	36	857	527	136	1,379	1,205	4,751	2,272	26,034	7,454	12,367	15,178
SEP 10	37	537	129	123	634	518	915	1,865	7,794	3,258	2,817	7,277
SEP 17	38	611	20	86	239	81	49	892	2,404	173	931	1,186
SEP 24	39	142	0	12	70	36	0	0	502	0	145	409
OCT 1	40	10	0	28	10	5	0	0	102	0	26	87
Yearly Total		133,749	210,364	49,718	165,810	117,358	127,164	247,565	321,812	332,209	221,351	198,454
Weekly Mean		7,431	11,687	2,762	9,212	7,335	7,480	13,754	17,878	18,456	12,297	11,025
Early Stock Run		16,034	138,865	14,030	29,042	15,893	20,382	46,587	31,579	72,213	25,662	25,992
Late Stock Run		117,715	71,499	35,688	136,768	101,465	106,782	200,978	290,233	259,996	195,689	172,462

-continued-

Table 9. (page 2 of 2).

Mid-Week	Stat												1976-96
Date	Week	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Mean
JUN 4	23	11		571	328	1	31	65	309	185	0	873	158
JUN 11	24	176	95	4,266	2,060	471	4,744	249	2,687	295	129	2,317	2,013
JUN 18	25	198	1,082	26,973	5,062	8,300	8,775	2,592	1,117	1,747	1,862	13,611	6,608
JUN 25	26	21,421	6,097	15,106	14,736	7,186	9,426	13,123	8,630	1,507	5,389	8,785	9,356
JUL 2	27	23,211	28,807	13,475	9,912	5,030	21,317	11,730	8,852	1,332	3,574	5,899	9,387
JUL 9	28	8,025	20,534	28,206	9,938	9,064	10,118	12,017	7,004	2,164	5,987	4,825	9,630
JUL 16	29	51,328	29,550	45,814	16,008	13,531	15,498	9,274	3,760	1,069	3,060	4,762	14,022
JUL 23	30	54,190	25,275	37,381	46,320	30,131	16,556	8,745	3,351	1,754	12,819	7,866	21,740
JUL 30	31	51,040	54,337	65,123	31,621	53,137	22,984	10,374	7,558	1,944	12,518	8,212	31,206
AUG 6	32	95,943	46,488	48,270	36,726	57,302	25,652	9,309	3,951	561	9,726	3,775	32,882
AUG 13	33	47,338	49,678	35,796	32,794	44,373	30,146	7,798	4,431	795	5,213	2,786	24,907
AUG 20	34	49,361	25,032	10,998	13,553	41,469	15,382	7,946	4,518	633	3,180	4,405	19,113
AUG 27	35	19,521	28,384	8,312	18,492	24,411	16,460	4,436	3,640	502	3,363	2,997	12,644
SEP 3	36	6,455	13,495	4,337	12,215	11,310	7,161	3,030	2,182	562	1,226	1,588	6,387
SEP 10	37	1,466	4,577	1,245	4,568	6,968	2,703	2,010	721	76	1,056	468	2,441
SEP 17	38	367	1,254	471	554	1,453	564	553	119	29	499	0	597
SEP 24	39	112	381	216	5	294	273	0	0	0	0	0	124
OCT 1	40	17	176	203	71	248	0	0	0	0	0	0	47
Yearly Total		430,180	335,242	346,763	254,963	314,679	207,790	103,251	62,830	15,155	69,600	73,167	228,801
Weekly Mean		23,899	19,720	19,265	14,165	17,482	11,544	5,736	3,491	842	3,867	4,065	12,840
Early Stock Run		72,683	63,547	70,137	42,036	32,770	54,411	39,776	28,599	7,230	16,941	36,309	41,162
Late Stock Run		357,497	271,695	276,626	212,927	281,909	153,379	63,475	34,231	7,925	52,659	36,858	161,981

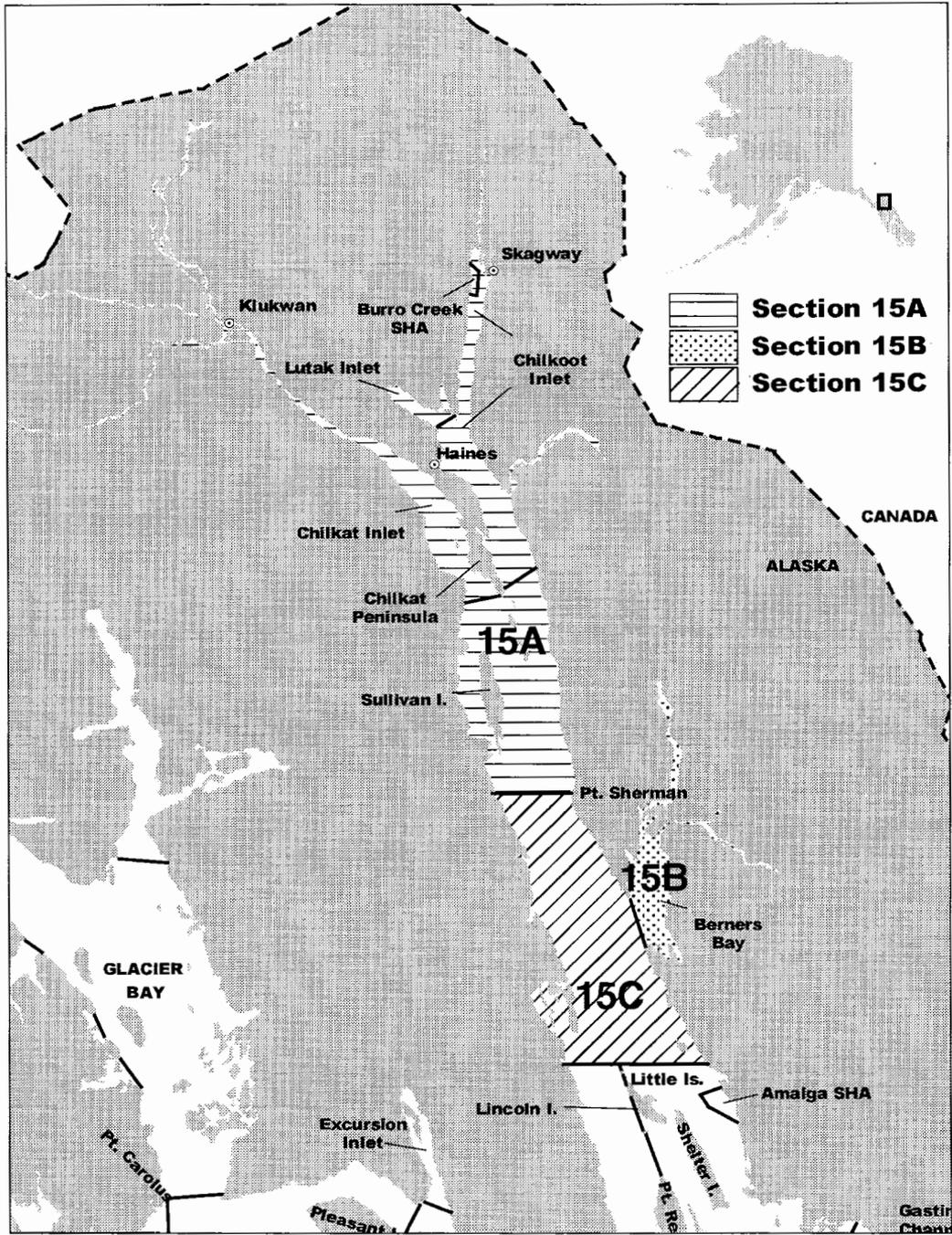


Figure 1. Lynn Canal district and section boundaries.

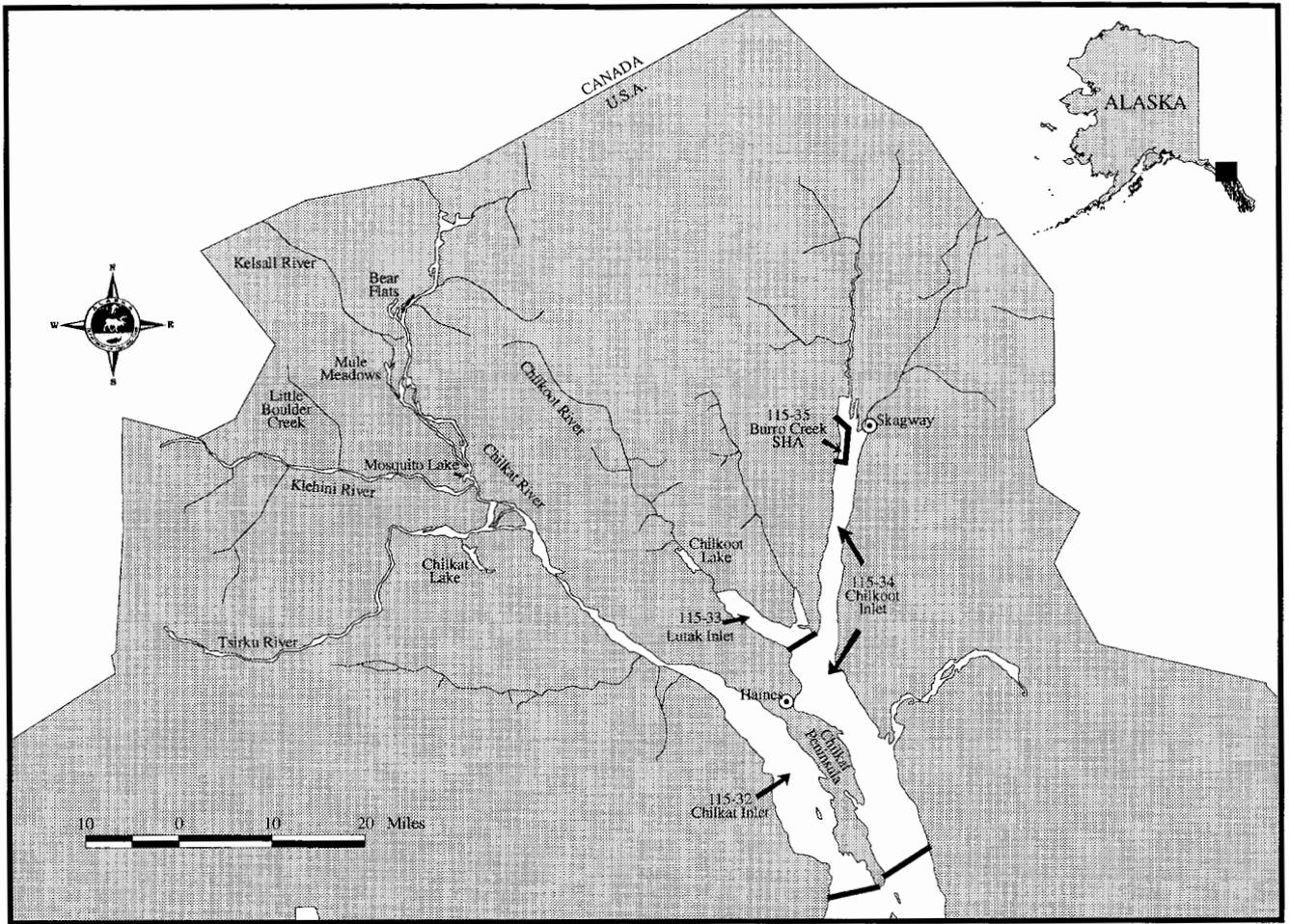


Figure 2. Upper Lynn Canal showing Chilkat and Chilkoot lakes.

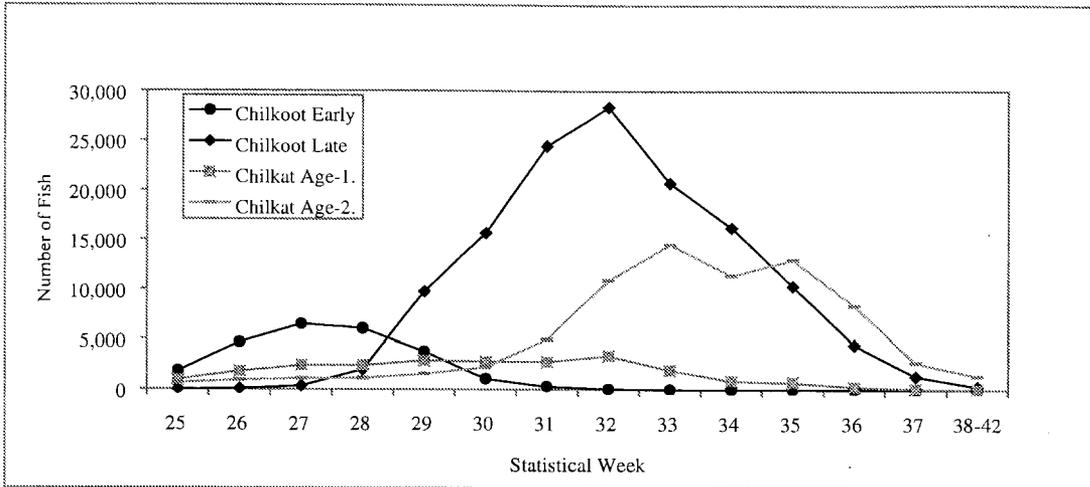


Figure 3. Lynn Canal sockeye salmon, weekly abundance by stock. Data for period 1976 to 1992.

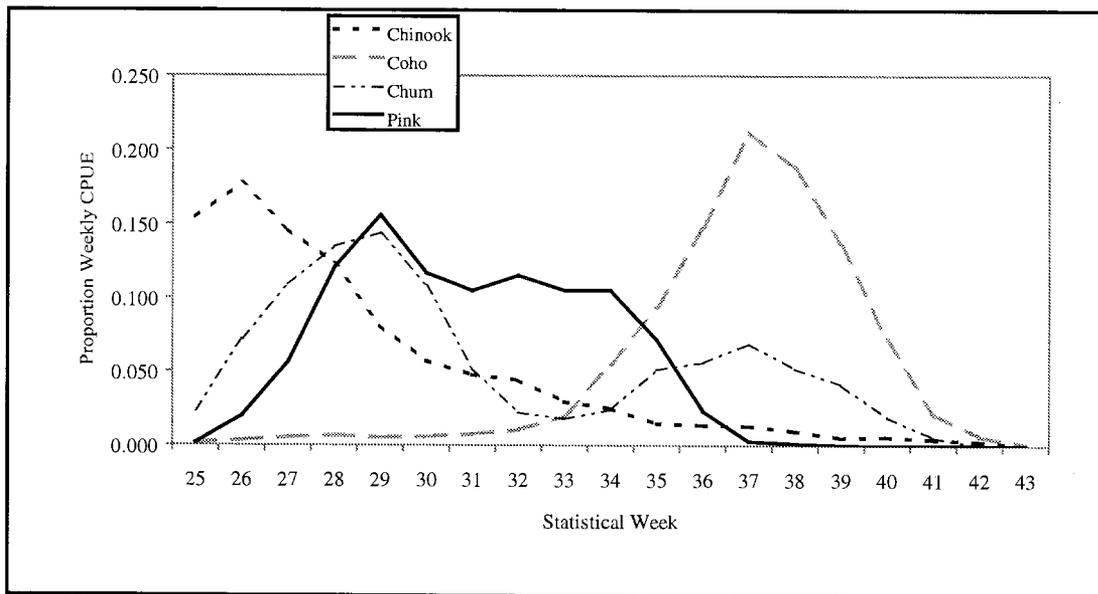


Figure 4. Run timing of chinook, coho, summer and fall chum, and pink salmon in the Lynn Canal drift gillnet fishery.

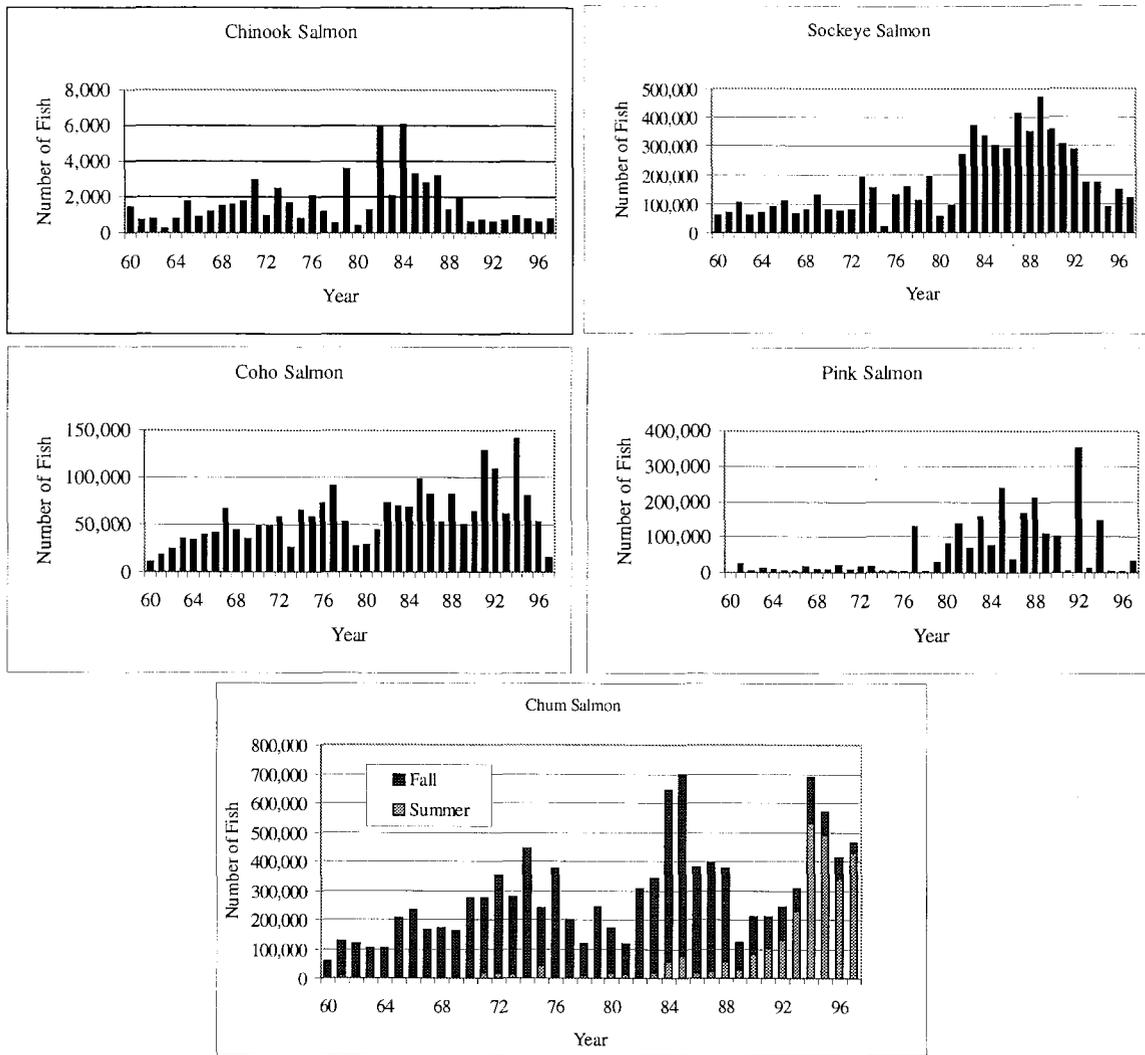


Figure 5. Historical catches of chinook, sockeye, coho, pink, and chum salmon in the District 15 (Lynn Canal) drift gillnet fishery, 1960 to 1997.

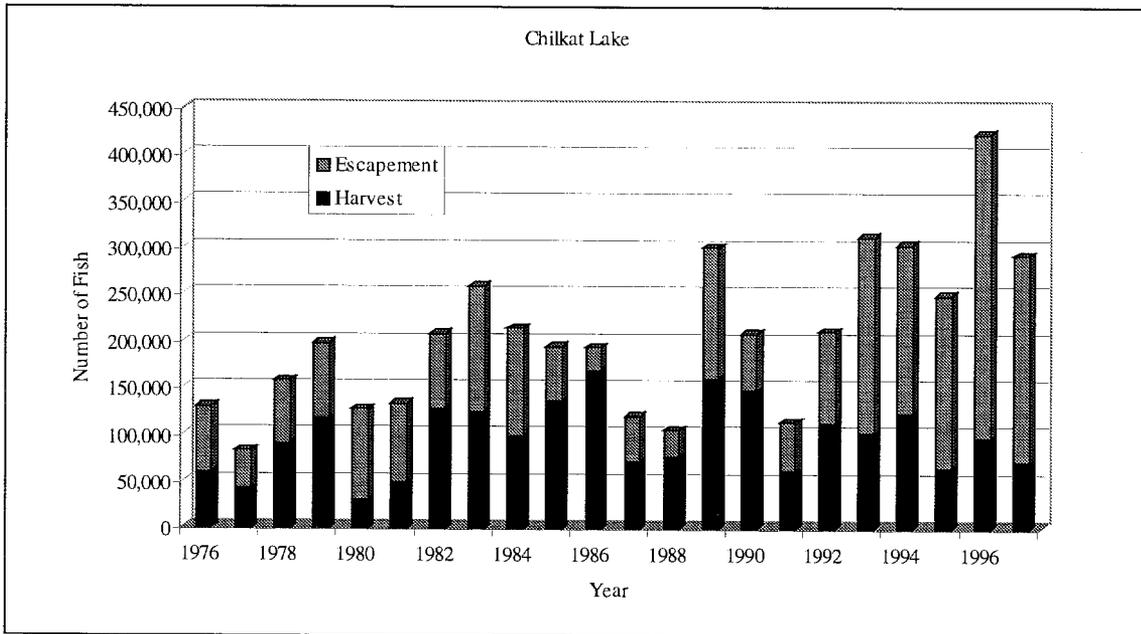
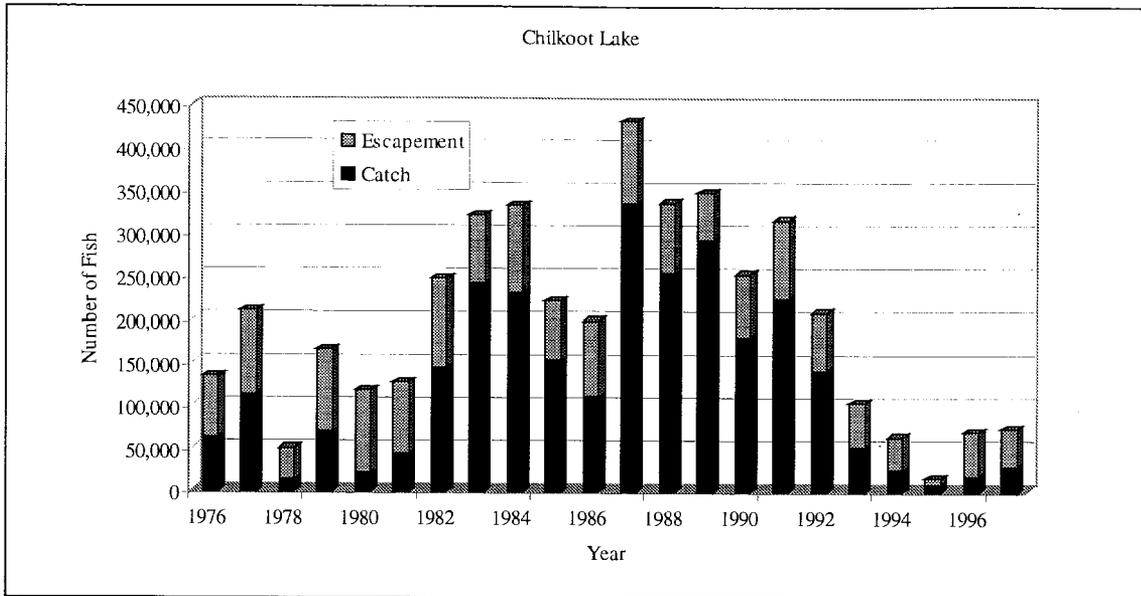


Figure 6. Historical escapement and harvest of Chilkoot and Chilkat lake sockeye salmon, 1976 to 1997.

## APPENDICES

Appendix 1. Historical age composition of Chilkat Lake and Chilkoot Lake sockeye salmon in the Lynn Canal drift gillnet fishery, 1982 to 1997.

Chilkat Lake

AGE	Year															Average	SE
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
0.2	0.1	0.1	0.2	0.6	0.2	0.0	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.5	0.0	
0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	
1.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	
1.2	0.3	0.5	2.0	0.9	1.8	0.3	1.2	1.8	0.7	1.8	1.4	5.2	2.9	4.1	1.8	0.1	
1.3	37.8	21.1	9.7	28.6	23.7	30.3	11.5	23.3	25.8	14.9	43.9	29.6	35.4	25.1	25.9	0.2	
1.4	0.0	0.5	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.2	0.0	0.4	0.1	0.1	0.1	0.0	
2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.2	24.6	14.7	29.2	25.2	17.1	33.0	34.1	14.1	20.1	19.9	11.6	16.5	20.6	15.4	20.8	0.2	
2.3	37.0	62.7	56.9	43.4	56.2	36.1	52.3	59.8	53.0	60.6	41.2	48.0	40.8	55.2	49.9	0.2	
2.4	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	
3.2	0.1	0.2	1.7	0.6	0.4	0.0	0.6	0.0	0.1	2.3	0.1	0.0	0.1	0.0	0.5	0.0	
3.3	0.1	0.0	0.2	0.6	0.3	0.1	0.0	0.4	0.1	0.2	1.6	0.2	0.1	0.1	0.3	0.0	

Chilkoot Lake

AGE	Year															Average	SE
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997			
0.2	0.1	0.2	0.5	0	0	0	0.1	0	0	0.2	1.7	2.2	1.3	1.8	0.7	0	
0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1.1	0	0.1	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	
1.2	2.3	4.3	7.5	5.3	6.7	3.4	4	6.2	1.9	2	1.2	31.4	9	3.6	5	0.1	
1.3	90.2	78.5	76.8	68.6	78.3	53.2	47	65.7	63.5	48.3	72.2	41.2	80.7	85.6	70.1	0.2	
1.4	0.3	2	0.6	0.1	0.5	0.3	0.4	0.3	0.6	0.3	0.6	1.4	0.1	0.2	0.5	0	
2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2.2	0.1	0.8	1.2	0.7	3.3	4.2	2	1.3	2.8	1.1	0.6	2.7	2.1	0.5	1.6	0.1	
2.3	6.8	13.9	13	25.1	11	38.1	45.9	26.4	30.9	47.7	23.5	20.9	6.8	8.4	21.8	0.2	
2.4	0.2	0.1	0.3	0.1	0.2	0.1	0.6	0.1	0.1	0.2	0.1	0.1	0	0	0.2	0	
3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3.3	0	0.1	0.1	0	0	0.7	0.1	0.1	0.1	0.1	0	0.1	0	0	0.1	0	

Appendix 2. Inclusive dates of operation for Chilkoot or Chilkat weirs or Chilkat River fish wheels, 1967 to 1997.

Year	Chilkoot Lake Dates of Weir Operation	Chilkat Lake/River Dates of Weir Operation
1967	None	6/13-9/02
1968	None	6/08-9/12
1969	None	6/04-9/16
1970	None	5/29-9/17
1971	None	5/31-10/28
1972	None	6/03-10/12
1973	None	6/11-10/15
1974	None	5/30-9/28
1975	None	6/04-11/06
1976	5/30-11/2	6/03-10/21
1977	5/28-9/11	6/03-9/27
1978	6/6-11/7	6/05-11/05
1979	6/9-11/5	6/09-11/11
1980	6/15-10/5	6/15-10/08
1981	6/10-10/12	6/11-10/22
1982	6/3-9/16	6/24-10/06
1983	6/4-11/13	6/22-11/12
1984	6/3-9/14	6/09-10/07
1985	6/5-10/21	6/23-10/22
1986	6/6-10/29	6/16-11/14
1987	6/4-11/2	6/19-11/20
1988	6/9-11/12	6/18-11/14
1989	6/4-10/30	6/05-10/28
1990	6/3-10/30	6/06-11/13
1991	6/7-10/8	7/10-10/24
1992	6/2-9/26	6/08-10/15
1993	6/3-9/30	6/13-10/14
1994	6/4-9/24	6/18-9/11 <sup>a</sup>
1995	6/5-9/11	6/16-9/16 <sup>a</sup>
1996	6/6-9/11	6/22-9/16 <sup>a</sup>
1997	6/4-9/9	6/11-10/09 <sup>a</sup>

<sup>a</sup>For years 1994 to 1997 dates of operation are for lower Chilkat River fish wheels.

Appendix 3. Calendar dates for statistical weeks in 1998.

Week #	From	Thru
1	Jan 1	Jan 3
2	Jan 4	Jan 10
3	Jan 11	Jan 17
4	Jan 18	Jan 24
5	Jan 25	Jan 31
6	Feb 1	Feb 7
7	Feb 8	Feb 14
8	Feb 15	Feb 21
9	Feb 22	Feb 28
10	Mar 1	Mar 7
11	Mar 8	Mar 14
12	Mar 15	Mar 21
13	Mar 22	Mar 28
14	Mar 29	Apr 4
15	Apr 5	Apr 11
16	Apr 12	Apr 18
17	Apr 19	Apr 25
18	Apr 26	May 2
19	May 3	May 9
20	May 10	May 16
21	May 17	May 23
22	May 24	May 30
23	May 31	Jun 6
24	Jun 7	Jun 13
25	Jun 14	Jun 20
26	Jun 21	Jun 27
27	Jun 28	Jul 4

Week #	From	Thru
28	Jul 5	Jul 11
29	Jul 12	Jul 18
30	Jul 19	Jul 25
31	Jul 26	Aug 1
32	Aug 2	Aug 8
33	Aug 9	Aug 15
34	Aug 16	Aug 22
35	Aug 23	Aug 29
36	Aug 30	Sep 5
37	Sep 6	Sep 12
38	Sep 13	Sep 19
39	Sep 20	Sep 26
40	Sep 27	Oct 3
41	Oct 4	Oct 10
42	Oct 11	Oct 17
43	Oct 18	Oct 24
44	Oct 25	Oct 31
45	Nov 1	Nov 7
46	Nov 8	Nov 14
47	Nov 15	Nov 21
48	Nov 22	Nov 28
49	Nov 29	Dec 5
50	Dec 6	Dec 12
51	Dec 13	Dec 19
52	Dec 20	Dec 26
53	Dec 27	Dec 31

Appendix 4. Data collected from the inseason information system to determine fishery performance by species.

Sockeye Salmon

- a. In-season abundance forecasts: Forecasts will be obtained by comparing current year total return information, catch plus escapement, and expanding those results by historical run timing percentages for each stock.
- b. Escapement tracking: Daily escapements are tracked at the Chilkoot River weir. The weir provides timely data for in-season assessment as fish pass that weir within one week of fishery. Chilkat Lake/River sockeye escapements will be monitored using two fish wheels in the lower Chilkat River. Fish wheel catch alone is not a definitive index of abundance but current year data will be compared to historic data. No precise inseason estimates of escapement are currently available.
- c. In-season catch figures: are from the ADF&G fish ticket system. In the first 24 hours of an opening interview data from the fleet is used to estimate catches. After that time a subsample of deliveries is expanded to total effort to estimate catches.
- d. Stock contributions: In-season catch stock contributions are estimated each week from random scale samples. Estimates are made for three groups: Chilkoot Lake, Chilkat Lake, and a combination of Berners Bay and Chilkat mainstem. Postseason stock contributions are made to add to the historic database from which models are derived. Escapements are sampled for scales to determine age structure of spawners in order to combine with catch data for spawner-recruit and preseason databases.
- e. Fishery Monitoring: Site specific fishery performance data and scale sampling are used to monitor migration paths and identify areas of overlap between stocks. Information is also provided on fish buildups in specific areas.

Fall and Summer Chum and Pink Salmon

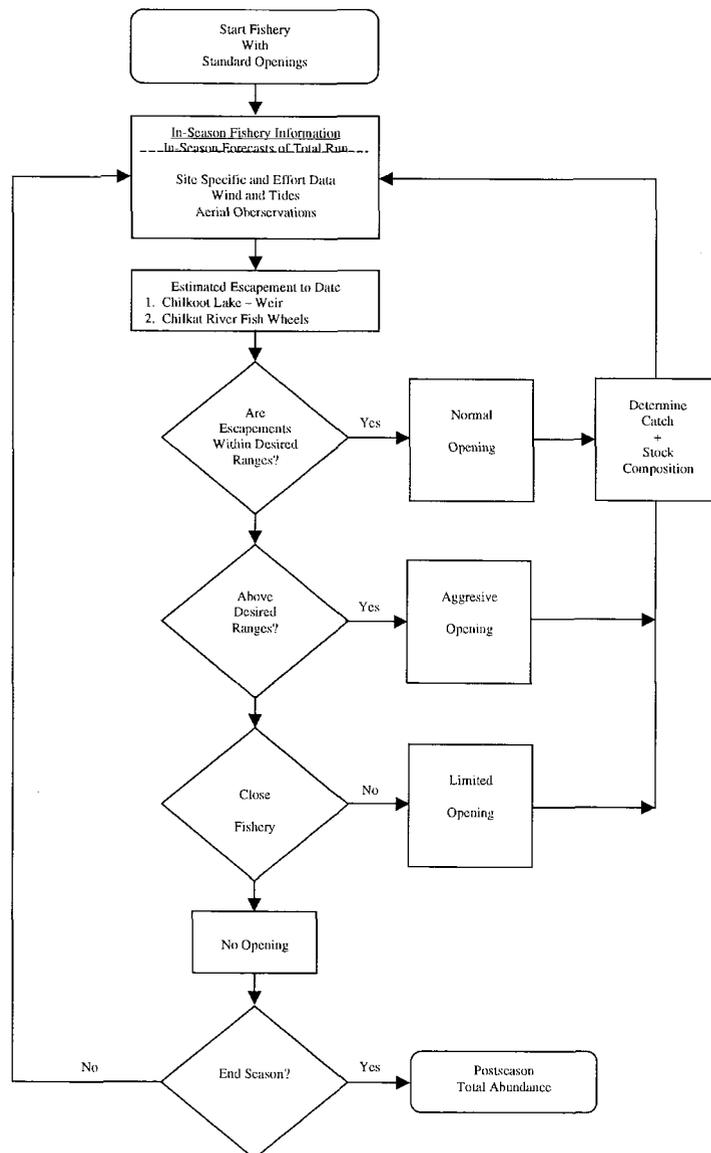
- a. In-season catch figures: Inseason catch data are obtained from the ADF&G fish ticket system. In the first 24 hours of an opening interview data from the fleet are used to estimate total harvests. After that time, a subsample of deliveries is expanded to total effort to estimate catches.
- b. Aerial surveys: Escapement rates and distribution are monitored by aerial survey inseason when feasible and throughout the peak spawning period.
- c. Fishery Monitoring: Collect catch data and other fishery performance information such as effort level, fishing conditions, influence of northerly winds on rate of entry into Chilkat River, and observations of fish buildups.

Coho

- a. In-season catch figures: from the ADF&G fish ticket system.

- b. Aerial and Foot Surveys: Peak spawner counts are not obtained until postseason. However, in some index systems, Berners River and Chilkoot Lake, early season surveys provide an indication of escapement rates when water levels and conditions allow.
- c. Fishery Monitoring: Availability of coho salmon is judged by comparing current CPUE and catch to the historical average and by the relative abundance of coho salmon in specific areas.
- d. Berners River Coded-wire Tag Monitoring and Inseason Projections: Coded-wire tag recoveries for Berners River coho salmon are monitored inseason by CFMD staff. Data collected from this program will be used to project the total return of Berners River coho salmon. This system is assumed to be an index for other Lynn Canal coho salmon stocks.

The following schematic diagram generally summarizes how the information collected using from the inseason information system is used to determine fishery openings.



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