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ANADROMOUS FISH HABITAT SURVEY OF THE PATTON BAY / BEACH RIVER TIMBER HARVEST AREA, MONTAGUE ISLAND

by

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SUSITNA RIVER DRAINAGE

SALMON ESCAPEMENT

DATA SUMMARY, 1951-1984

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1.0 INTRODUCTION

The purpose of this report is to provide a background document for salmon resource investigations relative to the proposed Susitna Hydroelectric project. Historically, the Susitna River has been a major producer of salmon for the Cook Inlet fishery. Escapement data has been collected from various areas within the river system since the late 1940's and early 1950's by a variety of federal, state, and private agencies. No coordinated effort, however, has been made to tie together these data or to initiate a basin wide escapement distribution study plan. This report summarizes all Susitna River drainage escapement data collected by the Alaska Department of Fish and Game, Divisions of Sport and Commercial Fisheries. It shall serve as a basis for recommending a Susitna River basin wide escapement survey plan.

2.0 ESCAPEMENT SURVEY TECHNIQUES

A wide variety of techniques have been developed by biologists to estimate the number of fish using a particular location or river reach. These vary according to the environmental conditions, type of habitat, and budget and time constraints. Some of these methods are used to produce an index of fish abundance to compare run strength between and within years or systems. Other methods attempt to enumerate total fish populations.

Visual techniques involve the direct enumeration of the fish, either from ground level, from elevated platforms or from the air. Studies conducted by Kubik and Trent (1974) concluded that helicopter surveys were the preferred technique for enumerating chinook salmon. Ground and tower counts provided comparable numbers, however it is not always economically feasible to construct towers at a large number of locations and ground surveys are time consuming. Fixed-wing aircraft are less expensive to charter than helicopters, however they fly faster and are not as maneuverable as the helicopter and visibility is more limited from the fixed-wing aircraft.

The Susitna River and a number of its major tributaries are glacially turbid during much of the year and therefore not suitable for visual survey techniques. For this reason several alternative techniques have been developed. The primary turbid water numeration techniques used in the Susitna River are tag/recapture and sonar. Fishwheels are used in combination with ground surveys for use in the mark and recapture population estimates. Fishwheel catches are also used with sonar to apportion sonar counts by species.

In lake habitats, visual techniques can be used to enumerate fish in shallow clear water lakes, however weirs and gill nets are more effective in lakes which are deep or have a lot of aquatic vegetation.

Other data presented in this report are from creel census, mail questionnaires, and punch cards from sport fishermen. Each of the techniques used to collect data presented in this report are discussed below.

2.1 Tower Counts

Counting towers are permanent or semi-permanent structures, approximately 25 feet high, which are constructed at single-channel points on target streams where visibility across the adult salmon migration path is good. Counts of migrating salmon passing the tower are usually made for ten minutes per bank and extrapolated for each hour. Often contrasting color substrates are placed on the streambed to aid in seeing the fish and lights are used to enable fish counting at night.

Tower counts are a good way of estimating total adult salmon escapements of clear water tributaries when water conditions are good and the tower is well placed. This technique is primarily used to enumerate bank oriented salmon (i.e., sockeye and pink), however towers have also been

used successfully on narrow, shallow rivers to count coho, chinook, and chum salmon which do not orient by bank when they migrate. This technique provides a continuous record of salmon passage and is valuable in determining migrational timing and peaks.

Tower count escapement estimates are most accurate when the observed migrations have an even temporal and spatial distribution (Cousens et al. 1982). Error is introduced when the salmon migration is irregular and/or composed of mixed species which complicate species identification. These errors can be compounded by poor visibility and variations between different observers.

In the Susitna River drainage, tower counts have been used on the Deshka River (Kubik and Trent 1974) and on the Talachulitna River (Barrett 1973a, 1975a).

2.2 Ground Surveys

Ground level surveys made on foot or in a boat provide an instantaneous count of the number of live and/or dead salmon within specific stream reaches, index areas, or entire stream lengths which can be used to produce an escapement estimate. Escapement estimates from ground survey counts of streams or index areas are more reliable if they are derived from several repeated surveys.

Foot surveys are best suited to small, shallow, clear water tributaries where the flow patterns are stable, the banks are relatively free of large carnivores and easy to walk along, and the fish and carcasses are highly visible. Counts obtained from surveying spawning grounds by foot have been used to estimate escapements of chinook, coho, sockeye, pink, and chum salmon. Foot surveys can be used to obtain counts in small tributaries where aerial surveys are not practical, to provide additional data to calibrate or adjust aerial survey counts, or to determine the spawning distribution of particular tributaries within a large drainage.

Factors which can limit the reliability of escapement estimates from foot surveys or introduce bias are: (1) experience or ability differences between fish counting personnel, and (2) spawning or migrating in conditions which hinder visual sightings (i.e., deep water, high discharge, high turbidity, and snow and/or ice cover). In addition, observers are often limited to one bank which can limit the visual counts.

Foot surveys have been conducted on a number of clear water tributaries of the Susitna, Yentna, Talkeetna, and Chulitna rivers over the years. Two tributaries which have been surveyed regularly with this technique are Willow Creek (Redick 1970, 1971; Watsjold 1975-1980; ADF&G 1983a; Barrett et al. 1984, 1985) and Prairie Creek (Watsjold 1973-1979; Barrett 1973a, 1975a; Friese 1976a, 1976b; Waltemyer et al. 1980; Barrett et al. 1984). Since 1981 the Susitna Aquatic Studies program has done extensive foot surveys of tributaries, sloughs, and side channels in the lower and middle reach of the Susitna River (ADF&G 1981, 1983b; Barrett et al. 1984, 1985).

An alternative to foot surveys in small, clear water streams that are accessible and do not have major rapids is a float survey in a boat or inflatable raft. Boat surveys can be an efficient method of obtaining instantaneous counts of fish in narrow streams where fish cannot be observed from one bank. However, stream gradient, flow, turbidity, glare on the water surface, and navigational obstacles are important considerations in gaging the usefulness of boat survey counts. For example, in fast, twisting streams, fish counts will be negatively effected if the fish counter has to be more concerned about getting downstream safely than he is about counting fish. Another disadvantage is that boat surveys only provide a one-way coverage (i.e., downstream) of the survey area.

Boat surveys have been used less frequently than ground surveys to count fish in the Susitna River drainage. Kubik (1965, 1966) conducted boat surveys of clear water tributaries in the lower Susitna River and Watsjold (1972-1974) did a series of boat surveys on Willow Creek. Barrett (1973a, 1975a) and Friese (1976a, 1976b) did boat surveys on tributaries and lakes in the Yentna River drainage and on Stephan Lake in the Talkeetna River drainage. Additional boat surveys have been reported by the Susitna Aquatic Studies program (ADF&G 1983b; Barrett et al. 1984, 1985).

2.3 Aerial Surveys

Counts of salmon on the spawning grounds using low flying aircraft allow an observer to survey many more streams in a given time than ground surveys. Aerial surveys are conducted using fixed-wing aircraft or helicopters. Fixed-wing aircraft are used most commonly for aerial counts of salmon. Advantages afforded by fixed-wing aircraft are that they allow the observer to survey large drainages in a short period of time and at a lower cost than other aircraft. Aerial surveys by helicopter are more efficient than fixed-wing surveys because helicopters are more maneuverable over winding streams, slower flying, and offer better visibility. However, they have a shorter flying range and may be cost prohibitive for surveys of large drainages.

Aerial surveys are usually conducted by one trained observer and an experienced pilot. Weather and budgets permitting, spawning grounds are surveyed several times to obtain counts during the peak spawning period. Peak aerial counts are used as an indices of relative abundance for estimating total escapement and if the methods remain consistent from year-to-year these index counts can be compared between years. The rough estimates of escapements from aerial surveys may also be useful for in-season management of salmon stocks.

Aerial surveys have been used to enumerate chinook, sockeye, pink, chum, and coho salmon and this technique works best in spawning areas of broad, shallow, clear water tributaries with little or no overhanging vegetation and in shallow lakes.

The reliability of aerial survey counts are affected by the experience or inexperience of the observer and the pilot, fatigue, differences between observers, fish density, lighting conditions, poor weather, high discharges, and highly turbid conditions.

The majority of the salmon escapement data from the Susitna River drainage is composed of aerial survey data. Historically, the Division of Commercial Fisheries has conducted aerial surveys in the Susitna River drainage to monitor escapements of sockeye salmon because they are an important species for the Cook Inlet commercial salmon fishery, and the Division of Sport Fisheries has done aerial surveys to monitor escapements of chinook salmon which are a target species in the Susitna River sport fishery. Escapement information on other salmon species has largely been obtained incidentally during aerial surveys for sockeye or chinook or it has been collected using other escapement monitoring techniques.

Streams and lakes in the Susitna River drainage which have been aerial surveyed regularly for sockeye salmon are Red Shirt Lake, Role Jo Creek, Chelatna Lake, Shell Creek, the Talachulitna River, Talachulitna Creek, Judd Lake, Talachulitna Lake, Trinity Lake, Red Salmon Lake, and Larson Lake (Barrett 1973a, 1975a; Friese 1976a, 1976b; Namtvedt et al. 1979; Tarbox and Sanders 1980; Waltemyer et al. 1980; ADF&G 1982; Tarbox et al. 1983; ADF&G 1985c-YENONE.TAB).

Aerial surveys for chinook salmon have been conducted on the following tributaries in the Susitna River drainage on a regular basis: Alexander Creek, the Deshka River, Willow Creek, Little Willow Creek, North Fork Kashwitna River, Sheep Creek, Goose Creek, Indian River, Portage Creek, Lake Creek, Camp Creek, Sunflower Creek, the Talachulitna River, Canyon Creek, Chunilna Creek, Troublesome Creek, Bunco Creek, Byers Creek, Honolulu Creek, East Fork Chulitna River, and Middle Fork Chulitna River (Stefanich 1962; Kubik 1963-1973; Watsjold 1972-1980; Kubik and Trent 1974; Kubik and Chlupach 1975; Kubik and Riis 1976; Kubik and Wadman 1977-1979; Kubik and Delaney 1980; Delaney et al. 1981; ADF&G 1981, 1983a; Bentz 1982; Delaney and Hepler 1983; Barrett et al. 1984, 1985).

2.4 Fishwheels

Fishwheels function like paddlewheels, using the current of the river to rotate sampling baskets which capture salmon as they migrate upstream through turbid rivers. In most instances, fishwheels are used in conjunction with weirs which divert fish toward the fishwheels. When properly placed in the migration corridor of major rivers, fishwheels can be used to obtain a relative abundance index of salmon escapements. Comparisons of the relative abundance index obtained from fishwheel catches from year-to-year can only be made if the fishwheels are operated at the same sites under similar conditions each year.

On the Susitna River, the efficiency of fishwheels has been found to vary from site-to-site and year-to-year due to changes in climatic conditions, mainstem discharge, on-site morphology, and debris loads in the water (ADF&G 1981, 1983b; Barrett et al. 1984, 1985). Fishwheels were also found to be species selective and size selective (Thompson and Barrett 1983).

Fishwheels have been used in the Susitna River drainage to capture fish for tagging at Flathorn, Susitna, Yentna, Sunshine, Talkeetna, and Curry stations. Recovery of fishwheel tagged fish from upstream fishwheels and stream surveys have been used to calculate escapements to the fishwheel tagging sites using mark/recapture techniques (ADF&G 1981, 1983; Barrett et al. 1984, 1985). Mark/recapture techniques have also provided information on salmon migrations (i.e., routes, timing, and variations), stock separation, spawning distribution, and it allows for the collection of biological data.

The time, effort, and expense required to conduct mark/recapture studies are great; however, this is an effective way of evaluating large systems with major runs that cannot be enumerated effectively by other means. The primary source of bias or error associated with estimations of salmon escapements by mark/recapture techniques is caused by the violation of one or more of the basic assumptions which must be maintained to ensure the reliability of population estimates by these methods (Cousens et al. 1982).

Another application for fishwheels is discussed in Section 2.5.

2.5 Side Scan Sonar Counts

Hydroacoustic techniques have been developed to enumerate upstream migrations of bank-oriented salmon in clear or turbid rivers using side scan sonar. Sonic signals reflected off migrating fish are electrically recorded. Before escapement estimates can be produced or compared, these electronic fish counts must be apportioned by species. Sonar fish counts have been apportioned by simultaneously sampling the escapements with fishwheels, set gill nets, drift gill nets, beach seines, or trip seines and apportioning the sonar counts based on the relative abundance of each species in the catch during specific periods.

The accuracy of properly adjusted side scan sonar counters have compared favorably with tower counts when both methods were used side-by-side to enumerate salmon in rivers with moderate fish abundance, stable flows, consistent fish swimming speeds, and good visibility (Cousens et al. 1982). Side scan sonar is considered to be particularly effective for enumerating sockeye and pink which migrate along stream banks, and less effective for counting chinook, coho, and chum which do not orient by bank and may pass outside the range of the sonar beam.

Most problems associated with the operation of side scan sonar involve improper site selection. Side scan sonar should be located at a point where the river flows through a single channel so that all fish may be counted. The site should also have a minimum of offshore migrants and low levels of debris, air entrainment, and milling of spawning fish.

The major problem encountered with side scan sonar in the Susitna River drainage has been the apportionment of sonar fish counts by species. Fishwheels have been used in conjunction with side scan sonar on the

Susitna to apportion sonar counts. However, there are several inherent problems with using fishwheel catches to apportion sonar counts which cast doubt upon the reliability of these data. Not only are fishwheels selective by species and by size, but the species composition of a fishwheel catch in a 6 foot sampling area near the river bank may not be representative of fish counts from sonar which enumerate fish passing between the shore and the outer-most substrate which may be 65 to 70 feet out from the bank. Therefore, ADF&G biologists recommend that an alternate sampling scheme (perhaps gillnetting) be used to apportion sonar counts on the Susitna River.

In the Susitna River drainage, side scan sonar have been used to enumerate salmon on the Deshka River (Stewart and Flagg 1969), on the Yentna River (ADF&G 1981, 1983a; Barrett et al. 1984, 1985), and at Susitna, Sunshine, and Talkeetna stations on the Susitna River (Tarbox et al. 1980; Tarbox and Sanders 1980; ADF&G 1981, 1982, 1983a; and Barrett et al. 1984, 1985).

2.6 Weir Counts

Weirs are temporary or permanent fences which are erected on lake outlets, streams, or rivers. By blocking the passage of fish, weirs allow the total enumeration of salmon migrating upstream to spawn and for the collection of biological data. Weir counts are often used as a standard to compare the accuracy of other enumeration techniques.

Weirs are generally constructed on streams where an accurate count of adult salmon escapements are required and where variations in flow and water depth are slight so that the weir will not be washed out during high discharges.

Disadvantages of this technique are that construction and operation of weirs are labor intensive and the initial construction costs can be high. Therefore, weirs are not well suited for evaluating a large number of different sites.

Weir counts of salmon have only been conducted on two small tributaries in the Susitna River drainage, Fish Lake Creek/Quig Creek (Barrett 1975b) and Shell Creek (Barrett 1973a, 1975b; Friese 1976a). Both of these creeks are located in the Yentna River system.

2.7 Creel Census

Creel censuses consist of on-site interviews of random samples of sport fisherman to determine catch and fishing effort, and it also allows for the collection of biological data. Creel census data expressed as catch per unit effort (CPUE) may be indicative of relative abundance, however it has limited value as an estimate of escapement. However, creel censuses have been used in conjunction with a chinook salmon tagging program on the Kenai River to generate mark/recapture population estimates.

Creel censuses have been conducted regularly in the Susitna River drainage by the Division of Sport Fish since the early 1960's to monitor sport fish harvests of chinook and coho salmon. Tributaries on the Susitna River which have been surveyed by creel census most consistently are Alexander Creek, the Deshka River, Willow Creek, Caswell Creek, and Montana Creek (Stefanich 1962; Kubik 1963, 1964, 1967-1973, 1981; McGinnis 1964, 1965; Redick 1967b, 1969b; Kubik and Wadman 1978, 1979; Kubik and Delaney 1980; Watsjold 1980, 1981; Hepler and Kubik 1982; Bentz 1982, 1983; Delaney and Hepler 1983; Hepler and Bentz 1984, 1985). Creel censuses have also been done regularly on Lake Creek in the Yentna River system (Stefanich 1962; Kubik 1963, 1964, 1967-1973, 1981; Kubik and Delaney 1980; Hepler and Kubik 1982; Delaney and Hepler 1983; Hepler and Bentz 1984, 1985) and more recently on Chunilna Creek/Clear Creek in the Talkeetna River drainage (Stefanich 1962; Watsjold 1980, 1981; Bentz 1982, 1983; Hepler and Bentz 1984, 1985).

2.8 Mail Surveys

Another method to obtain estimates of effort and harvest by fishery and species utilizes repeated mailings of questionnaires to random samples of sport fishing license holders and creel census data (Mills 1979). Estimates for each fishery are calculated from the responses to the mail survey and the creel census data from selected fisheries are used to correct and check the results.

The harvest and effort data from mail surveys have compared favorably with on-site creel censuses and because they are more economically efficient, mail survey results have been used to replace on-site creel censuses in several instances.

Mail surveys have been used to help gather sport fish harvest and effort data in the Susitna River drainage since 1977. Tributaries and lakes which have been monitored using this technique are Alexander Creek, the Deshka River, Willow Creek, Little Willow Creek, Kashwitna River, Caswell Creek, Sheep Creek, Montana Creek, Sunshine Creek, Lake Creek, Shell Creek, Talchulitna River, Whiskey Lake, Hewitt Lake, and Chunilna Creek/Clear Creek (Mills 1979, 1980, 1981a, 1981b, 1982).

2.9 Punch Cards

Punch cards have been used periodically to estimate the annual sport catch of salmon. Punch cards are issued by license dealers. All anglers are required to have a punch card in their possession while fishing for designated salmon species in specified waters. Upon catching the species of interest, the angler is required to remove a portion of the card and record the date and location where the fish was caught on the card. At the close of the fishing season, the angler is required to return his card to the designated agency.

Annual catches of sport caught chinook salmon have been estimated in the Susitna River drainage using punch cards at Alexander Creek, the Deshka River, Lake Creek, and Chunilna Creek/Clear Creek (Kubik 1967-1973).

3.0 ORGANIZATION

Escapement, creel census, mail census, and punch card data published in 67 reports by the Alaska Department of Fish and Game, Divisions of Sport and Commercial Fisheries since statehood, have been summarized in the appendix of this report. Appendix Tables 1-1 through 1-4 present the salmon escapement data for the four major sub-drainages of the Susitna River: the Susitna mainstem, the Yentna River, the Talkeetna River, and the Chulitna River. Streams in these appendix tables are organized using the numbering system developed by the Habitat Division for use in the anadromous waters catalog (ADF&G 1985b). All streams, rivers, and lakes where anadromous fish have been documented are assigned a unique identifying number in the catalog which can be traced to a specific drainage or sub-drainage. The same numbering system is used in the anadromous stream atlas (ADF&G 1985a) so that the streams can be located easily on the atlas maps.

These appendix tables were initially created by combining a computer file of the known anadromous streams listed in the anadromous stream catalog (ADF&G 1985b) with another computer file of escapement survey data containing information from ADF&G (1982) and ADF&G (1985c). After meshing these two data bases, we attempted to verify each entry and identify it with the report where the data were originally published. In cases where escapement data could not be linked with the original data report, summary reports were cited. And finally, if we were unable to verify a particular entry in our table in the literature, we cited the sources of our computer data files. It is hoped that the reviewers of this draft can provide more specific data sources for some of the entries that fall in this category.

Appendix Table 1-5 is a compilation of escapement counts in sloughs, side channels, and the mainstem of the Susitna River. This information is organized by Susitna river mile (RM) which was established by R&M Consultants (1981). The bulk of this information comes from the Susitna Aquatic Studies Program (ADF&G 1981, 1983b; Barrett et al. 1984, 1985).

Data for each location in all five appendix tables is arranged chronologically. All data have been stored on floppy diskettes using a Lotus spreadsheet format. This information is available for updating and use by other divisions.

4.0 USE

This report summarizes the reported efforts of the Alaska Department of Fish and Game's Divisions of Sport Fish and Commercial Fisheries to monitor salmon escapements in the Susitna River drainage. It is intended for use as a reference in planning future Susitna River escapement studies as requested in a memorandum by Commissioner Don Collinsworth, dated June 18, 1985. The final version of this report will be published as Appendix 1 to the Alaska Department of Fish and Game, Susitna Aquatic Studies, Report No. 13 entitled "Adult Salmon Investigations: May - October 1985."

Locations where the department has conducted salmon escapement surveys in the Susitna River drainage are identified in this report as well as all of the other streams listed in the anadromous stream catalog (ADF&G 1985b).

Information on each salmon escapement survey location is presented as it was reported. Whenever possible, we tried to include information on the year and dates that the surveys were conducted, which species and how many were found, and information on survey methods, survey conditions, distances surveyed and qualifying comments about the survey. Perhaps the most useful part of this summary report is the data source column and the accompanying list of references in the bibliography. Anyone requiring more information about a particular survey can track down the sources of information in these tables in the bibliography.

5.0 LIMITATIONS

Because the data in this report were derived from a wide variety of sources whose procedures for reporting information varied from division to division, author to author, and sometimes year to year, it is sometimes difficult and often impossible to make comparisons between different entries regarding accuracy, precision, and techniques used. It might be useful to run an additional sort on the survey data for each location by method, year, and date. However, as Cousen et al. (1982) pointed our in his paper on "A Review of Salmon Escapement Estimation Techniques", there are inherent problems with virtually all salmon escapement enumeration techniques. Therefore, considerably more information would be required in order to compare the accuracy and precision of many of these surveys. For example, the accuracy of aerial survey data is known to be effected by such factors as the experience of the observer and the pilot, fatigue, fish density on the spawning grounds, light conditions (effected by weather, time of day, and terrain), poor weather, and temporary high discharges which produce high turbidity conditions. Bad weather can also delay an aerial survey flight, so that the peak of spawning is missed, resulting in a poor escapement estimate or no estimate. This is the type of information that is needed in order to compare aerial survey data and this information is more likely to be found on field data forms than in published reports.

6.0 RECOMMENDATIONS

One of the primary stumbling blocks encountered by the authors during their review of the literature was the lack of maps to identify streams for which data were presented. This is especially important when several streams in the same drainages have the same name. It is recommended that all data reports include a detailed map of the area for which data are presented. It would also be helpful to have each stream identified in these data reports by the Habitat Division's anadromous stream catalog location number.

During the review of the literature, it was found that some data were reported in several reports in the same or subsequent years often without adequate reference to the original data source. This was particularly true of the aerial survey data shared by the Sport and Commercial Fisheries divisions. In addition, year-to-year presentation of the same data type (e.g., aerial surveys) was not consistent. One year counts for each tributary in a drainage (i.e., Deshka, Alexander, Lake creeks) were presented, the next year only the total count for the whole system was presented, another year only an estimate of the system escapement based on the surveys was presented. It is recommended that a consistent presentation be used each year for the same data type, preferably presenting as much detail as practical. Additional presentations can be used in addition to this standard format for the purposes of making a particular point.

Finally, we recommend that this computerized file of salmon escapement data for the Susitna River drainage be maintained by the Susitna Aquatic Studies Program and that it will be updated annually by the Task Manager of the Adult Anadromous Studies. Therefore, copies of all new Susitna drainage salmon escapement data collected by the Sport Fish and Commercial Fisheries Divisions should be routed to:

Adult Anadromous Task Manager
Alaska Department of Fish and Game
Susitna Aquatic Studies
620 E. 10th Avenue, Suite 302
Anchorage, Alaska 99501-3708

It is the author's hope that the users of this document; realizing the limitations and the possibility that some data may have been overlooked; will also report any inconsistencies and/or omissions that they may find to the Task Manager so that corrections can be made.

An additional benefit of maintaining this computer file on salmon escapement is that it can be used to help update and verify entries in the anadromous waters catalog (ADF&G 1985b).

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The following bibliography includes all data sources (D), summary reports (S), and references (R) used by the authors. These are indicated by the letter code appearing in the left margin of the list. Additional related reports, not directly used in the preparation of this report, are included without any letter code in the margin.

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8.0 APPENDIX

The following appendix is made up of five tables presenting summaries of escapement and related data for:

Appendix Table 1-1. Escapement survey counts of adult salmon in the Susitna River drainage exclusive of the Yentna, Talkeetna, and Chulitna River drainages.

Appendix Table 1-2. Escapement survey counts of adult salmon in the Yentna River drainage.

Appendix Table 1-3. Escapement survey counts of adult salmon in the Talkeetna River drainage.

Appendix Table 1-4. Escapement survey counts of adult salmon in the Chulitna River drainage.

Appendix Table 1-5. Escapement survey counts of adult salmon in Susitna River sloughs, side channels, and mainstem.

Appendix Table 1-1. Escapement survey counts of adult salmon in the Susitna River drainage between river mile (RM) 0.0 and RM 195.0, excluding the Yentna, Talkeetna, and Chulitna River drainages.

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200										
Susitna River										
Susitna Station (system-wide estimate)	1970			38000						ADF&G (1982)
	1972			113000						ADF&G (1982)
	1973		15000	40000					Chinook estimate from aerial surveys includes sport harvest	ADF&G (1982)
	1974		15000	70000					Chinook estimate from aerial surveys includes sport harvest	ADF&G (1982)
	1975		11500	108000					Chinook estimate from aerial surveys includes sport harvest	ADF&G (1982)
	1976		71200	111000			933000		Escapement-population estimate; chinook estimate from aerial surveys includes sport fish harvest	ADF&G (1982)
	1977		118100	238000	50000	105000	1490000		Escapement-population estimate; chinook estimate from aerial surveys includes sport fish harvest	ADF&G (1982)
	1978		81100	94000	100800	148000	2478100	Side-scan sonar	Escapement count; chinook estimate from aerial surveys, includes sport harvest	ADF&G (1982)
	1979		77200	157000	37000	49000	125000	Side-scan sonar	Escapement count; chinook estimate from aerial surveys, includes sport harvest	Tarbox et al. (1980)
	1980	7/01-8/29		191000	42895	7939	2047000	Side-scan sonar	Escapement count	Tarbox & Sanders (1980)
	1981	6/27-9/02		340232	33470	46461	113349	Side-scan sonar	Escapement count	ADF&G (1981)
	1981		65000					Aerial count plus sport fish harvest	(60-70,000) estimate	ADF&G (1982)
	1982	7/01-9/05		215856					Escapement count (sonar-apportioned) from Yentna Sta. and Susitna Sta. east bank	ADF&G (1985c)-SUSONE.TAB
	1983			112314				Side-scan sonar	Escapement count	ADF&G (1985c)-SUSONE.TAB
	1984		1457	45105	13413	26721	377425	Side-scan sonar	Escapement count, east bank only	ADF&G (1985c)-SUSONE.TAB
Sunshine Station	1976	6/21-8/13	749	2296	1307	338	19230	Fishwheel catch	Relative abundance	Friese (1976b)
	1981	6/23-9/15		89906	22793	59630	72945	Side-scan sonar	Escapement count	ADF&G (1981)
	1981	6/23-9/15		133489	19841	262851	49501	Petersen population estimate	Mark/recapture	ADF&G (1981)
	1982	6/04-10/01	52900	151500	45700	430400	443200	Petersen population estimate	Mark/recapture	ADF&G (1983a)
	1983	6/03-9/11	90100	71500	15200	265800	40500	Petersen population estimate	Mark/recapture	Barrett et al. (1984)
	1984	6/04-9/10	121700	130071	94702	764958	1017022	Petersen population estimate	Mark/recapture	Barrett et al. (1985)
Talkeetna Station	1974	7/23-9/11		1008		24286	5252	Petersen population estimate	Mark/recapture	Barrett (1974)
	1981	6/22-9/15		3464	3522	10036	2529	Side-scan sonar	Escapement count	ADF&G (1981)
	1981	6/22-9/15		4809	3306	20835	2335	Petersen population estimate	Mark/recapture	ADF&G (1981)
	1982	6/05-9/14	10900	3100	5100	49100	73000	Petersen population estimate	Mark/recapture	ADF&G (1983a)
	1983	6/07-9/12	14400	4200	2400	50400	9500	Petersen population estimate	Mark/recapture	Barrett et al. (1984)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1984	6/03-9/11	24800	13050	11847	98236	177881	Petersen population estimate	Mark/recapture	Barrett et al. (1985)
Curry Station	1981	6/15-9/21		2804	1146	13068	1041	Petersen population estimate	Mark/recapture	ADF&G (1981)
	1982	6/09-9/18	11300	1300	2400	29400	58800	Petersen population estimate	Mark/recapture	ADF&G (1983a)
	1983	6/09-9/14	9600	1900	800	21100	5500	Petersen population estimate	Mark/recapture	Barrett et al. (1984)
	1984	6/09-9/14	18000	3593	2162	49278	116858	Petersen population estimate	Mark/recapture	Barrett et al. (1985)
Flathorn Station	1984	6/29-9/03		605833	190061	812694	3629857	Petersen population estimate	Mark/recapture	Barrett et al. (1985)
247-41-10200-2015										
Alexander Creek	Hist								Max. count 1,868 chinook (1953), sockeye present (1964), 100,000 pinks (1964), 500 chum (1963)	
	1958	5/29	1						Suspect this was an aerial count	Kubik (1964)
	1961	7/11	0						Suspect this was an aerial count	Kubik (1964)
	1961		15		201	7	3	Creel census	558 hours fished	Stefanich (1962)
	1962	7/23	19					Aerial count		Kubik (1963)
	1962		33		1414	23	18	Creel census		Kubik (1963)
	1963	8/16	750					Aerial count		Kubik (1964)
	1963		47		3			Creel census		Kubik (1964)
	1964	7/29	205					Boat survey		Kubik (1965)
	1965	7/30	400					Boat survey		Kubik (1966)
	1965	7/30	416					Boat survey	Includes Sucker Creek	Kubik (1966)
	1966		197					Aerial count		Kubik (1967)
	1966		248					Aerial count	Includes Sucker Creek	Kubik (1967)
	1966		300					Aerial count	Estimate of total escapement	Kubik (1967)
	1966		26					Punch card	Sport fish harvest	Kubik (1967)
	1966				553			Creel census		Kubik (1967)
	1967		354					Aerial count		Kubik (1968)
	1967		388					Aerial count	Includes Sucker Creek	Kubik (1968)
	1967		500					Aerial count	Estimate of total escapement	Kubik (1968)
	1967		20					Punch card	Sport fish harvest	Kubik (1968)
	1968		563					Aerial count		Kubik (1969)
	1968		727					Aerial count	Includes Sucker Creek	Kubik (1969)
	1968		71					Punch card	Sport fish harvest	Kubik (1969)
	1968				337			Creel census		Kubik (1969)
	1969		588					Aerial count		Kubik (1970)
	1969		735					Aerial count	~~Includes Sucker Creek~~	Kubik (1970)
	1969		21					Punch card	Sport fish harvest	Kubik (1970)
	1969		30						Poor observing - water colored	Stewart & Flagg (1969)
	1970		420					Aerial count		Kubik (1971)
	1970		562					Aerial count	Includes Sucker Creek	Kubik (1971)
	1970		286					Punch card	Sport fish harvest	Kubik (1971)
	1970				187			Creel census		Kubik (1971)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1970		491							
	1970	7/26	280						2,720 sockeye and coho	ADF&G (1982)
	1971		15					Punch card	Sport fish harvest	Kubik (1972)
	1971				21			Creel census		Kubik (1972)
	1972		103					Aerial count		Kubik (1973)
	1972		202					Aerial count/Ground survey	Includes Sucker Creek	Kubik & Trent (1974)
	1972		92					Punch card	Sport fish harvest	Kubik (1973)
	1973		875					Ground survey		Kubik & Trent (1974)
	1974		2193					Aerial count		Kubik & Chlupach (1975)
	1975		1878					Aerial count		Kubik & Riis (1976)
	1976		5412					Aerial count		Kubik & Wadman (1977)
	1977		820	349	1562	30	1263	Sport Fish Harvest Census	Angling, 5991 days fished	Mills (1979)
	1977		13385					Aerial count		Kubik & Wadman (1978)
	1977	7/26	2504							ADF&G (1982)
	1978		769	183	2401	215	1146	Sport Fish Harvest Census	Angling, 6914 days fished	Mills (1980)
	1978		5854					Aerial count		Kubik & Wadman (1979)
	1979		712	79	1560	45	236	Sport Fish Harvest Census	Angling, 8284 days fished	Mills (1981a)
	1979		6215					Aerial count		Kubik & Delaney (1980)
	1979		1277					Creel census		Kubik & Delaney (1980)
	1980		1438	52	999	121	809	Sport Fish Harvest Census	Angling, 6812 days fished	Mills (1981b)
	1980		2281					Creel census		Kubik (1981)
	1981		1121	67	891	10	57	Sport Fish Harvest Census	Angling, 6892 days fished	Mills (1982)
	1981		630					Creel census		Hepler & Kubik (1982)
	1981	7/29	588					Aerial count, helicopter - Poor	Sucker Creek to Lake	ADF&G (1981)
	1982		1825	335	1907	0	482	Sport Fish Harvest Census	Angling, 10748 days fished	Mills (1983)
	1982			5000			250000		Max. abundance estimate from several years observations	Kubik (pers. comm.)
	1982		2546					Aerial count		Delaney & Hepler (1983)
	1982		2252					Creel census		Delaney & Hepler (1983)
	1982		4798							ADF&G (1985c)-SUSONE.TAB
	1982	7/31	1687					Aerial count, helicopter - Good	Mouth to Lake	ADF&G (1983a)
	1983		1039	69	408	0	126	Sport Fish Harvest Census	Angling, 9425 days fished	Mills (1984)
	1983	7/19	3755					Aerial count, helicopter - Good	Mouth to Lake	Barrett et al. (1984)
	1983		1830					Creel census		Hepler & Bentz (1984)
	1984	7/20	4620					Aerial count, helicopter - Good		Barrett et al. (1985)
	1984		1830					Creel census		Hepler & Bentz (1985)
247-41-10200-2015-0010 Alexander Lake										
247-41-10200-2015-3010 Deep Creek										
247-41-10200-2015-3017 Granite Creek										

Appendix Table I-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2015-3020										
Fox Creek										
247-41-10200-2015-3025										
Trail Creek										
247-41-10200-2015-3025-4011										
247-41-10200-2015-3025-4015										
247-41-10200-2015-3025-4035										
247-41-10200-2015-3035										
Lower Sucker Creek	Hist								Max.count 20 chinook (1964);	
	1963	8/14	15					Aerial count		Kubik (1964)
	1965	7/29	16					Ground survey		Kubik (1966)
	1966		51					Ground survey		Kubik (1967)
	1967		34					Aerial count		Kubik (1973)
	1969		75					Ground survey		Kubik (1973)
	1970		71					Ground survey		Kubik (1973)
	1972		39					Aerial count		Kubik (1973)
	1981	7/29	268					Aerial count, helicopter - Good		ADF&G (1981)
	1982	7/28	322					Aerial count, helicopter - Good		ADF&G (1983a)
	1983	7/19	597					Aerial count, helicopter - Good		Barrett et al. (1984)
247-41-10200-2015-3035-0030										
Sucker Lake										
247-41-10200-2015-3035-4019										
Wolverine Creek	Hist								1,000,000 pinks (1966) Max. count 14 chinook (1964)	
	1964	8/05	14					Aerial count		Kubik (1965)
	1981	7/24	243					Aerial count, helicopter - Good		ADF&G (1981)
	1982	7/28	537					Aerial count, helicopter - Good		ADF&G (1983a)
	1983	7/19	491					Aerial count, helicopter - Good		Barrett et al. (1984)
247-41-10200-2015-3035-4223										
Upper Sucker Creek										
247-41-10200-2015-3035-4225										
247-41-10200-2015-3035-4225-0010										
247-41-10200-2015-3040										

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
Clear Creek										
247-41-10200-2015-3117										
Bear Creek										
247-41-10200-2015-3117-4208										
Texas Creek										
247-41-10200-2020										
Fish Creek	1958	5/19	3						Suspect ground survey or aerial count	Kubik (1964)
(Flat Horn Lake)	1961	6/03	0						Suspect ground survey or aerial count	Kubik (1964)
	1963		4					Creel census		Kubik (1964)
	1984	9/10	0	0	0	0	0	Aerial count, helicopter - Poor, TRM 0.0		Barrett et al. (1985)
	1984	9/20	0	0	0	0	0	Aerial count, helicopter - Fair, TRM 0.0		Barrett et al. (1985)
	1984	9/27	0	0	0	0	0	Aerial count, helicopter - Fair, TRM 0.0		Barrett et al. (1985)
	1984	10/06	0	0	0	0	0	Aerial count, helicopter - Good, TRM 0.0		Barrett et al. (1985)
	1984	7/31	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/08	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/17	0	69	0	0	0	Ground survey - Fair/Good, TRM 0.0		Barrett et al. (1985)
	1984	8/25	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
247-41-10200-2020-0010										
Flat Horn Lake										
247-41-10200-2020-0015										
Red Shirt Lake	Hist								Max. counts, 2,600 sockeye (1952); 380 coho (1952)	Barrett (1973a)
	1972	8/29		160	100			Aerial count, Super Cub	Includes Role Jo Creek	Tarbox & Sanders (1980)
	1972			200						Barrett (1973a)
	1973	8/17		35				Aerial count, Super Cub		Barrett (1973a)
	1973	9/14		47				Aerial count, Super Cub		Barrett (1975a)
	1974	8/26		0	0	0	0	Aerial count, Super Cub		Barrett (1975a)
	1974	9/09		0	0	0	0	Aerial count, Super Cub		Barrett (1975a)
	1974	10/03		1				Aerial count, Super Cub	Peak survey count	ADF&G (1982)
	1974			160						Friese (1976a)
	1975	8/29		135				Aerial count, Super Cub	Includes Role Jo Creek	Tarbox & Sanders (1980)
	1975			159						ADF&G (1985c)-SUSONE.TAB
	1976	8/17		66						ADF&G (1985c)-SUSONE.TAB
	1976	8/26		92						ADF&G (1985c)-SUSONE.TAB
	1976	9/14		117						ADF&G (1985c)-SUSONE.TAB
	1976	9/16		130				Aerial count, Super Cub	Peak survey count	Friese (1976b)
	1976			180				Aerial count	Includes Role Jo Creek	Tarbox & Sanders (1980)
	1976			215				Aerial count	Includes Role Jo Creek	Tarbox & Sanders (1980)
	1977	8/24		43						ADF&G (1982)
	1977	9/01		4						

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1978	8/29		13				Aerial count	Includes Role Jo Creek	Waltemyer et al. (1980)
	1979	9/07		645				Aerial count		Tarbox & Sanders (1980)
	1979	9/07			92					ADF&G (1985c)-SUSONE.TAB
	1980	9/11		650				Aerial count	Includes Role Jo Creek	Tarbox & Sanders (1980)
	1981	8/25		600						ADF&G (1982)
	1981			505				Aerial count	Includes Role Jo Creek	Tarbox et al. (1983)
	1981	8/23		5900						ADF&G (1985c)-SUSONE.TAB
	1982			100		1000				ADF&G (1985c)-SUSONE.TAB
	1984	8/26		776						ADF&G (1985c)-SUSONE.TAB
	1984	8/30		1400						ADF&G (1985c)-SUSONE.TAB
247-41-10200-2020-0020										
247-41-10200-2020-0030										
247-41-10200-2020-0040										
247-41-10200-2020-3031										
247-41-10200-2020-3031-4016										
247-41-10200-2020-3041										
247-41-10200-2020-3041-0020										
247-41-10200-2020-3110										
247-41-10200-2020-3110-0010 Cow Lake										
247-41-10200-2020-3130 Role Jo Creek *									Note - TYONEK C-1 Sockeye and coho present	
	Hist									
	1972	8/16		40				Aerial count, Super Cub		Barrett (1973a)
	1972	8/29		160				Aerial count, Super Cub		Barrett (1973a)
	1973	8/17	0	0	0	0	0	Aerial count, Super Cub		Barrett (1973a)
	1973	9/04		47				Aerial count, Super Cub		Barrett (1973a)
	1974		0	0	0	0	0	Aerial count, Super Cub		Barrett (1975a)
	1975	8/29		24				Aerial count, Super Cub		Friese (1976a)
	1976	9/26		25				Aerial count, Super Cub		Friese (1976b)
	1976			35				Aerial count, Super Cub	Peak survey count	Friese (1976b)
	1977	8/24		43						ADF&G (1982)
	1977	9/01		4						ADF&G (1982)
	1977			28				Aerial count		Nemtvedt et al. (1979)
	1978			0				Aerial count		Waltemyer et al. (1980)
	1983	8/23		450						ADF&G (1985c)-SUSONE.TAB

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
										ADF&G (1985c)-SUSONE.TAB
	1984	8/26		450						ADF&G (1985c)-SUSONE.TAB
	1984	8/30		240						
247-41-10200-2020-3130-0020 Lynx Lake										
247-41-10200-2020-3130-4020										
247-41-10200-2020-3150										
247-41-10200-2020-3150-0010										
247-41-10200-2020-3185										
247-41-10200-2020-3185-0010										
247-41-10200-2020-3195										
247-41-10200-2020-3195-0010										
247-41-10200-2030										
247-41-10200-2043 Anderson Creek										
247-41-10200-2050										
247-41-10200-2060										
247-41-10200-2070										
247-41-10200-2075										
247-41-10200-2081 Deshka River / Kroto Creek	Hist								Max. count chinook 3,000 (1954); 86 sockeye (1950); 300,000 pinks (1954)	
	1958	5/29	3					Ground survey	Suspected ground survey or aerial	Kubik (1964)
	1961	6/06	18					Creel census	Peak count	Stefanich (1962)
	1961		91					Ground survey	316 hours fished	Stefanich (1962)
	1962	8/08-8/11	998					Creel census		Kubik (1963)
	1962		142		469			Aerial count		Kubik (1963)
	1963	7/03	131					Creel census	Peak	Kubik (1964)
	1963		758		667			Boat survey		Kubik (1964)
	1964	8/17	311						West Fork only	Kubik (1965)

Appendix Table I-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1964		2422					Boat survey	Entire Deshka River System - Chujik, Trapper, West Fork, and Moose	Kubik (1965)
	1965	7/29	640					Aerial count	West Fork only	Kubik (1966)
	1965		2749					Aerial count	Entire Deshka River System	Kubik (1966)
	1965		5000						System-wide aerial estimate	Kubik (1966)
	1966		281					Aerial count	West Fork only	Kubik (1967)
	1966		933					Aerial count	Entire Deshka River System	Kubik (1967)
	1966		2000						System-wide aerial estimate	Kubik (1967)
	1966		205		353			Punch/Creel		Kubik (1967)
	1967		764					Aerial count	West Fork only	Kubik (1968)
	1967		1535					Aerial count	Entire Deshka River System	Kubik (1968)
	1967		2500						System-wide aerial estimate	Kubik (1968)
	1967		234					Punch/Creel		Kubik (1968)
	1968		1246					Aerial count	West Fork only	Kubik (1969)
	1968		4863					Aerial count	Entire Deshka River System	Kubik (1969)
	1968		524		190			Punch/Creel		Kubik (1969)
	1969		2036					Aerial count	West Fork only	Kubik (1970)
	1969		5652					Aerial count	Entire Deshka River System	Kubik (1970)
	1969		310		136			Punch/Creel		Kubik (1970)
	1969		2300					Sonar count		Stewart & Flagg (1969)
	1970		1417					Aerial count	West Fork only	Kubik (1971)
	1970		5286					Aerial count	Entire Deshka River System	Kubik (1971)
	1970		579		65			Punch/Creel		Kubik (1971)
	1971		161					Aerial count	East Fork only	Kubik (1972)
	1971		434					Punch card	Sport fish harvest	Kubik (1972)
	1971				68			Creel census		Kubik (1972)
	1972		877					Aerial count	West Fork only	Kubik (1973)
	1972		1780					Aerial count	Entire Deshka River System	Kubik (1973)
	1972		299					Punch card		Kubik (1973)
	1972				24		25	Creel census		Kubik (1973)
	1972		275						Sport fish harvest	ADF&G (1982)
	1972		1780					Ground survey		Kubik & Trent (1974)
	1973		2381					Observation tower count		Kubik & Trent (1974)
	1974		5279					Aerial count		Kubik & Chlupach (1975)
	1975		4737					Aerial count		Kubik & Riis (1976)
	1976		21693					Aerial count		Kubik & Wadman (1977)
	1977		1017	0	559	0	391	Sport Fish Harvest Census	Angling, 3852 days fished	Mills (1979)
	1977		39642					Aerial count	Entire Deshka River System	Kubik & Wadman (1978)
	1977				527			Creel census		Kubik & Wadman (1978)
	1978		850	0	1798	0	697	Sport Fish Harvest Census	Angling, 9111 days fished	Mills (1980)
	1978		24639					Aerial count		Kubik & Wadman (1979)
	1978				1513			Creel census		Kubik & Wadman (1979)
	1979		2811	0	973	0	109	Sport Fish Harvest Census	Angling, 13236 days fished	Mills (1981a)
	1979		5373					Aerial count	Study Area I	Delaney et al. (1981)
	1979		2830					Aerial count	Study Area II	Delaney et al. (1981)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1979		1212					Aerial count	Study Area III, IV, V, & VI	Delaney et al. (1981)
	1979		27385					Aerial count	Entire Deshka River system	Kubik & Delaney (1980)
	1979		2954		620			Creel census		Kubik & Delaney (1980)
	1979		7908					Aerial count	Kroto Creek above confluence with Moose Creek	Delaney et al. (1981)
	1980		3685	0	2290	0	689	Sport Fish Harvest Census	Angling, 19364 days fished	Mills (1981b)
	1980		4023					Creel census	8397 man/days fished	Kubik (1981)
	1981		2769	0	632	0	19	Sport Fish Harvest Census	Angling, 13248 days fished	Mills (1982)
	1981		1895					Creel census	5086 man/days fished	Hepler & Kubik (1982)
	1982			500	10000		500000		Entire Deshka River System	Kubik (pers.comm.)
	1982		4307	0	2463	0	377	Sport Fish Harvest Census	Angling, 18391 days fished	Mills (1983)
	1982		20000						ADF&G, Sport Fish	ADF&G (1985c)-SUSONE.TAB
	1982		16000					Aerial count		Delaney & Hepler (1983)
	1982		4000					Creel census	7843 man/days fished	Delaney & Hepler (1983)
	1982	8/05-8/09	10671					Aerial count, helicopter - Fair	Partial count - Mainstem Deshka from Trapper Creek to Forks; Trapper Creek not surveyed	ADF&G (1983a)
	1983		4889	0	1036	0	21	Sport Fish Harvest Census	Angling, 23174 days fished	Mills (1984)
	1983	7/26	19237					Aerial count, helicopter - Excellent		Barrett et al. (1984)
	1983		2802					Creel census	5462 man/days fished	Hepler & Bentz (1984)
	1984	8/04	16892					Aerial count, helicopter - Good		Barrett et al. (1985)
	1984		4652					Creel census	7426 man/days fished	Hepler & Bentz (1985)
247-41-10200-2081-0010 Kroto Lake										
247-41-10200-2081-3050 Trapper Creek									Max. count 234 chinook (1964)	
	Hist									Kubik (1965)
	1964	8/10	234					Boat survey		Kubik (1973)
	1967		121					Ground survey		Kubik (1973)
	1968		184					Ground survey		Kubik (1973)
	1972		0					Ground survey		Delaney et al. (1981)
	1979		283					Aerial count		Marcuson (pers. comm.)
	1983	7/29		3000						
247-41-10200-2081-3065 Chijuk Creek *									Note - TYONEK D-2	
	1964	8/09	238					Boat survey		Kubik (1965)
	1965	7/28	16					Aerial count		Kubik (1966)
	1966		27					Aerial count		Kubik (1973)
	1967		54					Ground survey		Kubik (1973)
	1968		242					Ground survey		Kubik (1973)
	1969		14					Ground survey		Kubik (1973)
	1970		195					Ground survey		Kubik (1973)
	1971		36					Ground survey		Kubik (1973)
	1979		1220					Aerial count		Delaney et al. (1981)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2081-3065-4019										
247-41-10200-2081-3065-4027 Yenlo Creek										
247-41-10200-2081-3081 Twentymile Creek	Hist 1964	8/07	11					Aerial count	Max. count 2,705 chinook (1965)	Kubik (1965)
247-41-10200-2081-3094 Seventeenmile Creek										
247-41-10200-2081-3100										
Moose Creek									Note - Most escapements combined in Deshka River totals	
	1964	7/31	1590					Boat survey	Index area	Kubik (1965)
	1965	8/05	2065					Boat survey	Index area	Kubik (1966)
	1966		625					Ground survey	Index area	Kubik (1973)
	1967		596					Ground survey	Index area	Kubik (1973)
	1968		1646					Ground survey	Index area	Kubik (1973)
	1969		2786					Ground survey	Index area	Kubik (1973)
	1970		2824					Ground survey	Index area	Kubik (1973)
	1971		161					Ground survey	Index area	Kubik (1973)
	1972		867					Ground survey	Index area	Kubik (1973)
	1973		316					Aerial count		Kubik & Trent (1974)
	1979		8559					Aerial count		Delaney et al. (1981)
247-41-10200-2081-3100-4167 *										
Gate Creek *									Listed in Kubik's reports as Unknown Creek (vic. Deshka)	
	1962	6/21	0					Aerial count		Kubik (1964)
	1963	6/27	0					Aerial count		Kubik (1964)
	1964		49					Aerial count		Kubik (1973)
	1965		28					Aerial count		Kubik (1973)
	1970		5					Aerial count		Kubik (1973)
247-41-10200-2081-3121 * Farker Creek	Hist								Note - Trib. of Kroto Creek, TALK A-1 Max. count 200 sockeye (1965)	
247-41-10200-2081-3100-4155										
247-41-10200-2081-3100-4167 Gate Creek										
247-41-10200-2081-3124										

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2095										
247-41-10200-2120										
Willow Creek	Hist								Max. count 4,500 chinook (1947); 2,000 coho (1950); 20,000 chum (1950); 40,000 pinks (1950) 60 sockeye (1967)	
	1958	7/04	300						Suspect this was an aerial count	Kubik (1964)
	1961	7/06	170					Aerial count, fixed wing	Peak count	Stefanich (1962)
	1961		9					Creel census	123 hours fished	Stefanich (1962)
	1962	7/31	71					Aerial count		Kubik (1963)
	1962		3			1		Creel census		Kubik (1963)
	1963	7/30	55					Aerial count		Kubik (1964)
	1963		23					Creel census		Kubik (1964)
	1963				14	25		Creel census	Assume "DS" abbreviation = Dog Salmon	McGinnis (1964)
	1964	8/02	51					Boat survey		Kubik (1965)
	1964					49	73	Creel census		McGinnis (1965)
	1965	7/11	35					Aerial count		Kubik (1966)
	1966		103					Aerial count		Kubik (1967)
	1966				3	11	275	Creel census		Redick (1967b)
	1967		24					Aerial count		Kubik (1968)
	1968		125					Aerial count		Kubik (1969)
	1968				9	8	215	Creel census		Redick (1969b)
	1969		290					Ground survey	Index area	Redick (1970)
	1969		100						Excellent observation - all at mouth	Stewart & Flagg (1969)
	1970		640					Ground survey	Index area	Redick (1971)
	1971		165					Boat survey	Index area	Watsjold (1972)
	1972		370					Boat survey	Index area	Watsjold (1973)
	1972		11						Sport fish harvest	ADF&G (1982)
	1973		1074					Boat survey	Index area	Watsjold (1974)
	1973	7/24	678							ADF&G (1982)
	1973	7/25	981							ADF&G (1982)
	1974	7/26	402					Ground survey		Watsjold (1975)
	1975	8/04	177					Ground survey		Watsjold (1976)
	1976	7/15	1660					Ground survey		Watsjold (1977)
	1977		137	831	679	343	7140	Sport Fish Harvest Census	Angling, 14024 days fished	Mills (1979)
	1977		1065					Ground survey		Watsjold (1978)
	1978		47	56	905	2458	18901	Sport Fish Harvest Census	Angling, 22682 days fished	Mills (1980)
	1978		1166					Ground survey - Poor		Watsjold (1979)
	1979		459	94	462	582	3445	Sport Fish Harvest Census	Angling, 18911 days fished	Mills (1981a)
	1979		285					Creel census	975 man/days fished	Watsjold (1980)
	1979		848					Ground survey - Poor		Watsjold (1980)
	1980		289	83	1207	989	23638	Sport Fish Harvest Census	Angling, 29011 days fished	Mills (1981b)
	1980		292					Creel census	612 man/days fished	Watsjold (1981)
	1980								No count - high, turbid water	Bentz (1982)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1981		585	77	747	1533	2797	Sport Fish Harvest Census	Angling, 14060 days fished	Mills (1982)
	1981		1357							ADF&G (1982)
	1981					7000	250000		Max. abundance estimate based on several years observations	Engel (pers.comm.)
	1981	7/29	991					Aerial count, helicopter - Good	Less than 10% mortality at this time	ADF&G (1981)
	1981		345					Creel census	540 man/days fished	Bentz (1982)
	1982		629	94	1069	2086	4789	Sport Fish Harvest Census	Angling, 19704 days fished	Mills (1983)
	1982		821							ADF&G (1985c)-SUSDNE.TAB
	1982	8/06	592					Ground survey - Fair		ADF&G (1983a)
	1982		390					Creel census	504 man/days fished	Bentz (1983)
	1983		534	425	576	1490	1647	Sport Fish Harvest Census	Angling, 13405 days fished	Mills (1984)
	1983	7/18	83					Aerial count, helicopter - Good	Parks Hwy to Mouth (RM 0.0)	Barrett et al. (1984)
	1983	7/19	694					Boat survey, raft - Excellent	Canyon to Parks Hwy	Barrett et al. (1984)
	1983		393					Creel census	1811 man/days fished	Hepler & Bentz (1984)
	1983		777							Hepler & Bentz (1984)
	1984		805					Creel census	1931 man/days fished	Hepler & Bentz (1985)
	1984		2789							Hepler & Bentz (1985)
	1984	10/06	0	0	0	0	0	Aerial count, helicopter - Good, TRM 0.0		Barrett et al. (1985)
	1984	7/27	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/06	0	77	90	157	2871	Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
	1984	8/12	0	212	347	16	926	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	8/22	0	0	1198	0	125	Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
	1984	8/30	0	0	92	1	10	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	9/09	0	0	7	0	7	Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
	1984	9/18	0	0	3	0	2	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/25	0	0	3	0	8	Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
247-41-10200-2120-3010										
247-41-10200-2120-3010-0010										
247-41-10200-2120-3017										
247-41-10200-2120-3020										
Deception Creek									Note - TYONEK D-1	
	1964					3	6	Creel census		McGinnis (1965)
	1978		495					Ground survey	Upper Deception Creek	Watsjold (1979)
	1979		238					Ground survey	Upper Deception Creek	Watsjold (1980)
	1980		366							
	1981	7/29	366					Aerial count, helicopter - Good	Less than 10% mortality at this time	ADF&G (1981)
	1982	8/06	229					Ground survey - Fair		ADF&G (1983a)
	1983		121							Hepler & Bentz (1984)
	1984		675							Hepler & Bentz (1985)
247-41-10200-2120-3020-4010										

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2120-3020-4018										
247-41-10200-2120-3020-4021										
247-41-10200-2120-3020-4031										
247-41-10200-2120-3020-4041										
247-41-10200-2120-3020-4051										
247-41-10200-2120-3020-4071										
247-41-10200-2120-3020-4071-5011										
247-41-10200-2120-3020-4071-5018										
247-41-10200-2120-3020-4071-5050										
247-41-10200-2130										
Little Willow Creek	Hist								Max. count 278 chinook (1969); 35,000 pinks	
	1961	6/27	112					Aerial count, fixed wing	Peak count	Stefanich (1962)
	1961		8			2		Creel census	217 hours fished	Stefanich (1962)
	1962	7/16	26					Aerial count		Kubik (1963)
	1963	7/09	11					Aerial count		Kubik (1964)
	1964	8/13	7					Aerial count		Kubik (1965)
	1964							Creel census		McGinnis (1965)
	1965	7/06	3					Aerial count		Kubik (1966)
	1966		38					Aerial count		Kubik (1967)
	1967		6					Aerial count		Kubik (1968)
	1968		12					Aerial count		Kubik (1968)
	1968							Creel census		Redick (1969b)
	1969		150					Ground survey	Excellent observation - all at mouth	Stewart & Flagg (1969)
	1970	7/28	45					Aerial count - Poor		Watsjold (1973)
	1972	8/01	99					Aerial count		Watsjold (1973)
	1973		371					Aerial count, helicopter		Watsjold (1974)
	1974		139					Aerial count, helicopter - Poor		Watsjold (1975)
	1975		103					Aerial count, helicopter		Watsjold (1976)
	1976		833					Aerial count, helicopter		Watsjold (1977)
	1977		16	305	225	175	1261	Sport Fish Harvest Census	Angling, 4583 days fished	Mills (1979)
	1977		598					Aerial count, helicopter		Watsjold (1978)
	1978		0	28	151	1015	3142	Sport Fish Harvest Census	Angling, 5687 days fished	Mills (1980)
	1978		436					Aerial count, helicopter		Watsjold (1979)
	1979		0	141	262	118	745	Sport Fish Harvest Census	Angling, 5171 days fished	Mills (1981a)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1979		324					Aerial count, helicopter - Poor		Watsjold (1980)
	1980		32	77	494	270	6420	Sport Fish Harvest Census	Angling, 8190 days fished	Mills (1981b)
	1980								No count - high, turbid water	Bentz (1982)
	1981		0	67	29	192	604	Sport Fish Harvest Census	Angling, 3845 days fished	Mills (1982)
	1981	7/31	459					Aerial count, helicopter - Good	Less than 10% mortality at this time	ADF&G (1981)
	1982		0	105	398	199	1520	Sport Fish Harvest Census	Angling, 5578 days fished	Mills (1983)
	1982	8/07	316					Aerial count, helicopter - Good		ADF&G (1983a)
	1983		0	110	52	147	157	Sport Fish Harvest Census	Angling, 2791 days fished	Mills (1984)
	1983	7/19	1042					Aerial count, helicopter - Good		Barrett et al. (1984)
	1984	9/20	0	0	0	0	0	Aerial count, helicopter - Good, TRM 0.0		Barrett et al. (1985)
	1984	10/06	0	0	2	0	0	Aerial count, helicopter - Good, TRM 0.0		Barrett et al. (1985)
	1984	7/27	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/03	0	5	2	15	145	Ground survey - Good/Excellent, TRM 0.0		Barrett et al. (1985)
	1984	8/11	0	0	1	2	32	Ground survey - Fair/Good, TRM 0.0		Barrett et al. (1985)
	1984	8/21	0	12	3	0	412	Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
	1984	8/29	0	0	10	0	23	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/08	0	0	0	2	12	Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
	1984	9/26	0	0	0	2	21	Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
247-41-10200-2130-3011									RM 59.5	
247-41-10200-2130-3011-0010 Kashwitna Lake										
247-41-10200-2170 * 196 Mile Creek / Grays Creek *									Note - TYONEK D-1	
	1984	10/06	0	0	0	0	0	Aerial count, helicopter - Fair, TRM 0.0		Barrett et al. (1985)
	1984	7/27	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/02	0	0	0	0	0	Ground survey - Very Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/10	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/20	0	0	0	0	1	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/28	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	9/11	0	0	0	0	0	Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
	1984	9/20	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	9/27	0	0	0	0	0	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
247-41-10200-2180 Kashwitna River	1958	7/04	0						Suspected aerial count	~~Kubik (1964)~~
	~~1961~~	~~7/25~~	~~35~~					Aerial count, fixed wing		Stefanich (1962)
	1962		0					Aerial count		Kubik (1963)
	1963		0					Aerial count		Kubik (1964)
	1963		2					Creel census		Kubik (1964)
	1964				25			Creel census		McGinnis (1965)
	1977								No Sport Fish Harvest Data	Mills (1979)
	1978								No Sport Fish Harvest Data	Mills (1980)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1979								No Sport Fish Harvest Data	Mills (1981a)
	1980								No Sport Fish Harvest Data	Mills (1981b)
	1981								No Sport Fish Harvest Data	Mills (1982)
	1982								No Sport Fish Harvest Data	Mills (1983)
	1983		231	0	52	0	0	Sport Fish Harvest Census	Angling, 1344 days fished	Mills (1984)
	1984	9/10	0	0	0	0	0	Aerial count, helicopter - Poor, TRM 0.0		Barrett et al. (1985)
	1984	7/26	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/02	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/10	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/20	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/28	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	9/27	0	0	0	0	0	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
247-41-10200-2180-3061 North Fork Kashwitna River	Hist								Chinook present, max count 10,000 pinks (1966)	
	1961	7/25	35					Aerial count, fixed wing	Peak count	Stefanich (1962)
	1962	7/31	19					Aerial count		Kubik (1963)
	1963	7/07	3					Aerial count		Kubik (1964)
	1964	7/17	14					Aerial count		Kubik (1965)
	1965	7/11	3					Aerial count		Kubik (1966)
	1966		2					Aerial count		Kubik (1967)
	1971		1					Aerial count - Poor		Watsjold (1972)
	1972		31					Aerial count		Watsjold (1973)
	1973		183					Aerial count, fixed wing		Watsjold (1974)
	1974		103					Aerial count, fixed wing		Watsjold (1975)
	1975		33					Aerial count, helicopter		Watsjold (1976)
	1976		303					Aerial count, helicopter		Watsjold (1977)
	1977		336					Aerial count, helicopter		Watsjold (1978)
	1978		362					Aerial count, helicopter		Watsjold (1979)
	1979		457					Aerial count, helicopter		Watsjold (1980)
	1980								No count - high, turbid water	Bentz (1982)
	1981	7/31	557					Aerial count, helicopter - Good	Less than 10% mortality at this time	ADF&G (1981)
	1982	8/10	156					Aerial count, helicopter - Excellent		ADF&G (1983a)
	1983	7/18	297					Aerial count, helicopter - Good		Barrett et al. (1984)
	1984	7/31	111					Aerial count, helicopter - Poor		Barrett et al. (1985)
	1984	8/20					2			Barrett et al. (1985)
	1984	9/27			33	172				Barrett et al. (1985)
247-41-10200-2190 Caswell Creek	1958	6/10	0						Suspected aerial count	Kubik (1964)
	1961	7/06	6					Aerial count, fixed wing		Stefanich (1962)
	1962	7/01						Ground survey	Chinook present - jumpers sited	Kubik (1963)
	1962		54					Creel census		Kubik (1963)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1963	7/07	0					Aerial count		Kubik (1964)
	1963		81					Creel census		Kubik (1964)
	1963		2		19	8		Creel census	Assume "DS" abbreviation = dog salmon	McGinnis (1964)
	1964				5	1	19	Creel census	Assume "DS" abbreviation = dog salmon	McGinnis (1964)
	1966		1					Aerial count		Kubik (1967)
	1966				20	1	43	Creel census		Redick (1967b)
	1968						84	Creel census		Redick (1969b)
	1977								No Sport Fish Harvest Data	Mills (1979)
	1978								No Sport Fish Harvest Data	Mills (1980)
	1979		156	0	624	9	100	Sport Fish Harvest Census	Angling, 3710 days fished	Mills (1981a)
	1979		155					Creel census	1070 man/days fished	Watsjold (1980)
	1980		215	77	1124	19	1663	Sport Fish Harvest Census	Angling, 4963 days fished	Mills (1981b)
	1980		255					Creel census	1038 man/days fished	Watsjold (1981)
	1981		249	38	901	0	335	Sport Fish Harvest Census	Angling, 3860 days fished	Mills (1982)
	1981		185					Creel census	1320 man/days fished	Bentz (1982)
	1982		471	52	776	0	1092	Sport Fish Harvest Census	Angling, 5101 days fished	Mills (1983)
	1982		220					Creel census	1225 man/days fished	Bentz (1983)
	1983		272	151	408	0	126	Sport Fish Harvest Census	Angling, 5048 days fished	Mills (1984)
	1983		215					Creel census	1802 man/days fished	Hepler & Bentz (1984)
	1984		378					Creel census	2487 man/days fished	Hepler & Bentz (1985)
	1984	7/26	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	7/30	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/06	2	0	44	14	16	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	8/13	0	0	42	34	39	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	8/20	0	0	32	21	29	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/28	0	0	42	20	27	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/06	0	0	40	11	20	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/13	0	0	25	7	4	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/21	0	0	23	10	3	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
247-41-10200-2190-0010 Caswell Lake										
247-41-10200-2190-3020										
247-41-10200-2200 Sheep Creek	1958	6/15	200							
	~~1961~~	~~7/06~~	~~70~~						~~Suspected aerial count~~	~~Kubik (1964)~~
	1961		262		40	64		Aerial count, fixed wing	Peak count	Stefanich (1962)
	1962	7/16	35					Creel census	351 hours fished	Stefanich (1962)
	1962		54		5	1	1	Aerial count		Kubik (1963)
	1963	8/07	24					Creel census		Kubik (1963)
	1963		41		8	25		Aerial count		Kubik (1964)
	1963		2			11		Creel census		Kubik (1964)
								Creel census		McGinnis (1964)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1964	7/17	5					Aerial count		Kubik (1965)
	1964	7/17			4	51	41	Creel census		McGinnis (1965)
	1965	7/07	3					Ground survey		Kubik (1966)
	1966		100					Ground survey		Kubik (1967)
	1966				1	2	46	Creel census		Redick (1967b)
	1968				1	1	10	Creel census		Redick (1969b)
	1969		150					Ground survey		Kubik (1970)
	1969		250						Excellent observation - all at mouth	Stewart & Flagg (1969)
	1972		101					Aerial count		Watsjold (1973)
	1973		482					Aerial count, helicopter		Watsjold (1974)
	1974		202					Aerial count, fixed wing		Watsjold (1975)
	1975		42					Aerial count, fixed wing		Watsjold (1976)
	1976		455					Aerial count, helicopter		Watsjold (1977)
	1977		630					Aerial count, helicopter		Watsjold (1978)
	1977		259	450	438	202	4291	Sport Fish Harvest Census	Angling, 8112 days fished	Mills (1979)
	1978		1209					Aerial count, helicopter		Watsjold (1979)
	1978		256	14	478	1697	6981	Sport Fish Harvest Census	Angling, 11869 days fished	Mills (1980)
	1979		778					Aerial count, fixed wing		Watsjold (1980)
	1979		10	31	462	682	2418	Sport Fish Harvest Census	Angling, 6728 days fished	Mills (1981a)
	1980								No count - high, turbid water	Bentz (1982)
	1980		45	0	430	648	6362	Sport Fish Harvest Census	Angling, 8041 days fished	Mills (1981b)
	1981		0	105	326	987	1236	Sport Fish Harvest Census	Angling, 6936 days fished	Mills (1982)
	1981	7/31	1013					Aerial count, helicopter - Good	Less than 10% mortality at this time	ADF&G (1981)
	1982		0	88	367	1750	2599	Sport Fish Harvest Census	Angling, 9093 days fished	Mills (1983)
	1982	8/07	527					Aerial count, helicopter - Good		ADF&G (1983a)
	1983		0	370	596	902	682	Sport Fish Harvest Census	Angling, 6237 days fished	Mills (1984)
	1983	8/18	945					Aerial count, helicopter - Fair		Bartlett et al. (1984)
	1983		975							Hepler & Bentz (1984)
	1984	7/26	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	7/30	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	7/31	1028					Aerial count, helicopter - Fair		Barrett et al. (1985)
	1984	8/06	0	0	0	86	91	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/13	0	0	21	111	211	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/20	0	0	0	6	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/28	0	0	1	5	1	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	9/06	0	0	4	5	14	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	9/13	0	0	21	2	4	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/21	0	0	14	2	2	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
247-41-10200-2230										
Boose Creek	Hist								Chinook, chum present, max. count 5,000 pinks (1969); 177 coho (1968)	
	1958	7/15	1						Suspect ground survey or aerial count	Kubik (1964)
	1961	7/25	0						Suspect ground survey or aerial count	Kubik (1964)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1962	6/27	0						Suspect ground survey or aerial count	Kubik (1964)
	1963	7/07	0						Suspect ground survey or aerial count	Kubik (1964)
	1963				2			Creel census		Kubik (1964)
	1968	9/05			147			Ground survey	Index area, total estimate = 200 coho	Redick (1969a)
	1969				0			Ground survey	Index area	Redick (1970)
	1970				2			Ground survey	Index area	Redick (1971)
	1970	9/16				2				ADF&G (1982)
	1974	7/26	41					Aerial count, fixed wing		Watsjold (1975)
	1975	8/03	13					Aerial count, fixed wing		Watsjold (1976)
	1976	7/15	160					Aerial count, fixed wing		Watsjold (1977)
	1976	7/23	104							ADF&G (1982)
	1977		133					Aerial count, helicopter		Watsjold (1978)
	1978		283					Aerial count, helicopter		Watsjold (1979)
	1980								No count - high, turbid water	Bentz (1982)
	1981	7/30	262					Aerial count, helicopter - Good	Less than 10% mortality at this time	ADF&G (1981)
	1982	8/07	140					Aerial count, helicopter - Good		ADF&G (1983a)
	1983	7/18	477					Aerial count, helicopter - Fair		Barrett et al. (1984)
	1984	7/31	258					Aerial count, helicopter - Fair		Barrett et al. (1985)
	1984	9/14	0	0	7	4	4	Aerial count, helicopter - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/22	0	0	9	3	3	Aerial count, helicopter - Good, TRM 0.0		Barrett et al. (1985)
	1984	7/27	3	74	0	128	0	Ground survey - Poor/Fair, TRM 0.0		Barrett et al. (1985)
	1984	7/31	0	0	0	72	282	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	8/07	0	0	8	278	178	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	8/14	0	3	7	281	223	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	8/21	0	0	13	11	25	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	8/29	0	0	19	12	19	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/07	0	0	14	9	15	Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
247-41-10200-2250										
Montana Creek	Hist								Chinook present, max. count 30,000 pinks (1966); 450 coho (1951)	
	1958	7/11	43						Suspected aerial count	Kubik (1964)
	1961	7/13	65					Aerial count	Peak count	Stefanich (1962)
	1962	6/30	75					Aerial count		Kubik (1963)
	1962		24			2	15	Creel census		Kubik (1963)
	1963	7/09	23					Aerial count		Kubik (1964)
	~~1963~~		~~143~~					~~Creel census~~		~~Kubik (1964)~~
	1963				21			Creel census		McGinnis (1964)
	1964	8/04	75					Ground survey		Kubik (1965)
	1964				59	20	88	Creel census		McGinnis (1965)
	1965	7/30	57					Ground survey		Kubik (1966)
	1966		100					Ground survey		Kubik (1967)
	1966				128	41	185	Creel census		Redick (1967b)
	1967		2					Ground survey		Kubik (1968)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1968		5					Ground survey		Kubik (1969)
	1968				129	56	373	Creel census		Redick (1969b)
	1969		250						Comm. Fish observe school at mouth	Kubik (1970)
	1969		150					Ground survey	Index area	Redick (1970)
	1969		50						Excellent observation - all at mouth	Stewart & Flagg (1969)
	1970		161							ADF&G (1982)
	1970	7/27	260							ADF&G (1982)
	1970	7/28	21							ADF&G (1982)
	1970		261					Ground survey	Index area	Redick (1971)
	1971		44					Ground survey	Index area	Watsjold (1972)
	1971	8/03	20							ADF&G (1982)
	1971	8/05	24							ADF&G (1982)
	1972		317					Ground survey	Index area	Watsjold (1973)
	1972	7/25	211							ADF&G (1982)
	1972	7/26	106							ADF&G (1982)
	1973		527					Ground survey	Index area	Watsjold (1974)
	1974	7/24	280					Ground survey		Watsjold (1975)
	1975	7/29	229					Ground survey		Watsjold (1976)
	1976	7/26	1445					Ground survey		Watsjold (1977)
	1977		415	978	1415	326	3568	Sport Fish Harvest Census	Angling, 14268 days fished	Mills (1979)
	1977		1443					Ground survey		Watsjold (1978)
	1978		408	85	2451	4429	15619	Sport Fish Harvest Census	Angling, 25762 days fished	Mills (1980)
	1978		881					Ground survey - Poor		Watsjold (1979)
	1979		312	346	1735	745	2472	Sport Fish Harvest Census	Angling, 22621 days fished	Mills (1981a)
	1979		1094					Ground survey - Poor		Watsjold (1980)
	1980		559	257	2684	571	8230	Sport Fish Harvest Census	Angling, 19287 days fished	Mills (1981b)
	1980		375					Creel census	1901 man/days fished	Watsjold (1981)
	1980								No count - high, turbid water	Bentz (1982)
	1981		661	182	2261	805	1782	Sport Fish Harvest Census	Angling, 16657 days fished	Mills (1982)
	1981	7/30	814					Aerial count, helicopter - Good	Less than 10% mortality at this time	ADF&G (1981)
	1981		360					Creel census	4845 man/days fished	Bentz (1982)
	1982		241	514	3060	1708	3595	Sport Fish Harvest Census	Angling, 23645 days fished	Mills (1983)
	1982	8/05	887					Ground survey - Good		ADF&G (1983a)
	1982		85					Creel census	897 man/days fished	Bentz (1983)
	1983		504	534	1402	1311	902	Sport Fish Harvest Census	Angling, 17109 days fished	Mills (1984)
	1983	7/14	1641					Ground survey - Excellent		Barrett et al. (1984)
	1983		311					Creel census	1433 man/days fished	Hepler & Bentz (1984)
	1984	7/24	2309					Ground survey - Fair		Barrett et al. (1985)
	1984	7/27	1	0	0	0	0	Ground survey - Fair/Good, TRM 0.0		Barrett et al. (1985)
	1984	7/31	15	0	0	13	23	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/07	3	0	7	20	96	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	8/14	10	0	12	41	182	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	8/21	2	0	9	24	37	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	8/29	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1984	9/07	0	0	10	6	16	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/14	0	0	50	0	0	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/23	0	0	7	2	0	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984		886					Creel census	3317 man/days fished	Hepler & Bentz (1985)
247-41-10200-2250-3050 South Fork Montana Creek										
247-41-10200-2250-3061 Middle Fork Montana Creek										
247-41-10200-2250-3061-4009 North Fork Montana Creek										
247-41-10200-2254										
247-41-10200-2254-0010										
247-41-10200-2254-0020										
247-41-10200-2261										
247-41-10200-2291 Rabideux Creek	Hist								Chinook present	
	1962	6/27	0					Aerial count		Kubik (1964)
	1964	8/05	8					Aerial count		Kubik (1965)
	1975	9/26				67		Ground survey	Index area	Watsjold (1976)
	1976	9/29				91		Ground survey	Index area	Watsjold (1977)
	1977		99					Aerial count		Kubik & Nadman (1978)
	1978					88		Ground survey	Index area	Watsjold (1979)
	1982								chinook, coho, pink present	Kubik (pers. comm.)
	1984	9/26	0	1	21	0	0	Aerial count, helicopter - Good, TRM 0.0		Barrett et al. (1985)
	1984	7/23	8	0	0	0	0	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	7/29	0	7	0	13	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/02	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/10	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/17	0	0	0	0	35	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/24	0	0	0	0	1	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	9/01	0	0	1	2	1	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	9/10	0	0	1	2	0	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/17	0	0	0	1	2	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
247-41-10200-2291-3011 Queer Creek										

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2291-3011-4030										
247-41-10200-2291-3041 Sawmill Creek										
247-41-10200-2291-3049										
247-41-10200-2300 Sunshine Creek	Hist								Max. count 25 chinook (1963); 1,000 pinks (1962)	
	1958	6/10	0						Suspected aerial count	Kubik (1964)
	1961	7/25	0					Aerial count		Kubik (1964)
	1962	6/27	20					Aerial count		Kubik (1963)
	1963	7/07	25					Aerial count		Kubik (1964)
	1964				49		27	Creel census		McGinnis (1965)
	1966			8	237	2	96	Creel census		Redick (1967b)
	1968				7		85	Creel census		Redick (1969b)
	1977								No Sport Fish Harvest Data	Mills (1979)
	1978								No Sport Fish Harvest Data	Mills (1980)
	1979		10	157	774	55	700	Sport Fish Harvest Census	Angling, 3317 days fished	Mills (1981a)
	1980		13	116	1534	225	2408	Sport Fish Harvest Census	Angling, 5208 days fished	Mills (1981b)
	1981		57	220	968	125	958	Sport Fish Harvest Census	Angling, 3062 days fished	Mills (1982)
	1982		52	189	1719	231	1132	Sport Fish Harvest Census	Angling, 3787 days fished	Mills (1983)
	1983		105	685	722	42	241	Sport Fish Harvest Census	Angling, 3429 days fished	Mills (1984)
	1984	9/26	0	0	3	12	0	Aerial count, helicopter - Good, TRM 0.0		Barrett et al. (1985)
	1984	7/29	0	0	0	4	1611	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	8/03	1	42	2	37	321	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	8/10	0	0	16	0	766	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	8/17	0	0	20	0	256	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	8/24	0	0	38	1	16	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/01	0	0	83	1	2	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/10	0	0	0	0	0	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	9/17	0	0	3	7	1	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
247-41-10200-2300-0010 Sunshine Lakes										
247-41-10200-2300-3011									Note - All Question Creek and Question Lake data combined.	
Question Creek	Hist								Max. count 5,970 sockeye (1957)	
	1958	7/15	0						Suspected aerial count	Kubik (1964)
	1961	7/25	0					Aerial count		Kubik (1964)
	1962	6/27	0					Aerial count		Kubik (1964)

Appendix Table I-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1963	7/07	0					Aerial count		Kubik (1964)
	1973	9/28			59			Ground survey	Index area	Watsjold (1974)
	1974				3			Ground survey	Index area	Watsjold (1975)
	1975	9/23			111			Ground survey	Index area	Watsjold (1976)
	1976	9/28			126			Ground survey	Index area	Watsjold (1977)
	1977				87			Ground survey	Index area	Watsjold (1978)
	1978				45			Ground survey	Index area	Watsjold (1979)
	1979				384			Ground survey	Index area	Watsjold (1980)
	1980				321			Ground survey	Index area	Watsjold (1981)
	1981				230			Ground survey	Index area	Bentz (1982)
	1982				397					Bentz (1983)
	1984	9/28			320					Barrett et al. (1985)
	1984	9/29			26			Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
247-41-10200-2300-3011-0010										
Question Lake									Note - See Question Creek.	
247-41-10200-2300-3011-4016										
Answer Creek	1958	7/15	0						Suspected aerial count	Kubik (1964)
	1982				24					ADF&G (1983b)
	1984	9/28			60				Middle fork only	Barrett et al. (1985)
247-41-10200-2320										
Birch Creek Slough										
247-41-10200-2320-3010										
Birch Creek	Hist								Large numbers of sockeye observed 1953; few coho, some chums; 75,000 pinks (1969)	
	1961	6/27	80					Aerial count		Stefanich (1962)
	1962		0					Aerial count		Kubik (1963)
	1963	7/07	6					Aerial count		Kubik (1964)
	1968	9/16			125			Ground survey	Index area, total estimate = 300 coho	Redick (1969a)
	1969	10/01			142			Ground survey	Index area, total estimate = 175 coho	Redick (1970)
	1970	9/17			201					ADF&G (1982)
	1970	9/23			206			Ground survey	Index area	Redick (1971)
	1971	9/27			138			Ground survey	Index area	Watsjold (1972)
	1972	8/18		107	15	10	3051			ADF&G (1982)
	1972	9/28			68			Ground survey	Index area	Watsjold (1973)
	1973	8/31		16				Boat survey	Upper Birch Creek	Barrett (1973a)
	1973	9/07		1				Boat survey	Upper Birch Creek	Barrett (1973a)
	1973	9/16		5				Boat survey	Upper Birch Creek	Barrett (1973a)
	1973	9/26			106			Ground survey	Index area	Watsjold (1974)
	1974	8/23	0	0	0	0	0	Boat survey		Barrett (1975a)
	1974	8/29	0	0	0	0	0	Boat survey		Barrett (1975a)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1974	9/04		2	8			Boat survey		Barrett (1975a)
	1974	9/16	0	0	0	0	0	Boat survey		Barrett (1975a)
	1974	9/26			49			Ground survey	Index area	Watsjold (1975)
	1975	8/21		55			2			ADF&G (1982)
	1975	8/26		8						ADF&G (1982)
	1975	8/29		11	10					ADF&G (1982)
	1975	9/05		1	15		1			ADF&G (1982)
	1975	9/23	0	0	0	0	0			ADF&G (1982)
	1975				92			Ground survey	Index area	Watsjold (1976)
	1976	8/24		49			19			ADF&G (1982)
	1976	8/27		25	11		7			ADF&G (1982)
	1976				40					ADF&G (1982)
	1976				27			Ground survey	Index area	Watsjold (1977)
	1977				96			Ground survey	Index area	Watsjold (1978)
	1978	9/11		299	146					ADF&G (1982)
	1978				103			Ground survey	Index area	Watsjold (1979)
	1979	8/28		100	25					ADF&G (1982)
	1979				120			Ground survey	Index area	Watsjold (1980)
	1980				121			Ground survey	Index area	Watsjold (1981)
	1981	8/25		150	10	10				ADF&G (1982)
	1981				121			Ground survey	Index area	Bentz (1982)
	1982				41			Ground survey	Index area	Bentz (1983)
	1984	7/23	0	0	0	0	0	Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
	1984	7/29	9	174	0	0	132	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	8/02	9	50	0	0	115	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	8/09	16	0	0	0	904	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	8/16	9	0	0	0	551	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	8/23	1	3	0	0	72	Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
	1984	9/02	0	1	0	0	56	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	9/09	0	0	0	0	62	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/16	0	0	0	0	71	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/25	0	0	0	0	4	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
247-41-10200-2320-3010-0010										
Fish Lake	Hist								Max. counts 500 sockeye (1953)	
(Birch Creek)	1972	8/18		107				Boat survey		Barrett (1973a)
	1973	8/21		251				Boat survey		Barrett (1973a)
	1973	8/31		205				Boat survey		Barrett (1973a)
	1973	9/07		158				Boat survey		Barrett (1973a)
	1973	9/16		158				Boat survey		Barrett (1973a)
	1974	8/23		43				Boat survey		Barrett (1975a)
	1974	8/29		95				Boat survey		Barrett (1975a)
	1974	9/04		67				Boat survey		Barrett (1975a)
	1974	9/16		67				Boat survey		Barrett (1975a)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1975	8/21		70						ADF&G (1982)
	1975	8/26		93						ADF&G (1982)
	1975	8/29		113						ADF&G (1982)
	1975	9/05		132						ADF&G (1982)
	1975	9/23		46						ADF&G (1982)
	1975			187				Boat survey	Peak survey count	Friese (1976a)
	1976	8/24		82	17		48	Boat survey		Friese (1976b)
	1976	8/27		25	11		26			ADF&G (1982)
	1976	9/03		47			7			ADF&G (1982)
	1976	9/07		23			14			ADF&G (1982)
	1977			611					Peak survey count	Nantvedt et al. (1979)
	1978	8/22		79			42			ADF&G (1982)
	1978	9/25		242	28					ADF&G (1982)
	1978			299					Peak survey count	Waltemyer et al. (1980)
	1979			100					Low visibility, turbid H20	Tarbox & Sanders (1980)
	1980	8/18		2100						Tarbox & Sanders (1980)
	1981			176						Tarbox et al. (1983)
	1982			280						ADF&G (1985c)-SUSONE.TAB
	1984	8/08		26			10055			ADF&G (1985c)-SUSONE.TAB
	1984	8/15		190			20020			ADF&G (1985c)-SUSONE.TAB
247-41-10200-2320-3010-4010										
247-41-10200-2341										
Trapper Creek	1984	7/23	15	0	0	0	0	Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
	1984	7/28	2	45	0	5	234	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	8/01	0	0	0	0	70	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	8/08	1	0	2	46	224	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	8/15	2	0	4	41	313	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
	1984	8/22	0	2	8	21	19	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/30	0	0	0	3	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	9/08	0	0	8	11	14	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/15	0	0	21	14	7	Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
	1984	9/24	0	0	3	13	2	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
247-41-10200-2355 *									Note - TALK B-1	
Cache Creek *	1984	7/23	0	0	0	0	0	Ground survey - Excellent, TRM 0.0		Barrett et al. (1985)
	1984	7/28	0	0	0	0	0	~~Ground survey - Good, TRM 0.0~~		~~Barrett et al. (1985)~~
	1984	8/01	0	0	0	0	0	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	8/08	0	0	0	0	0	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	8/15	0	12	0	28	17	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	8/22	0	0	0	3	14	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	8/30	0	0	3	1	13	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	9/08	0	0	6	17	11	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/15	0	0	13	37	0	Ground survey - Good, TRM 0.0		Barrett et al. (1985)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1984	9/24	0	0	1	22	0	Ground survey - Good, TRM 0.0		Barrett et al. (1985)
247-41-10200-2391 Whiskers Creek	1974	8/30			27			Ground, boat and aerial counts combined	Peak count	Barrett (1974) Friese (1975)
	1975	8/04	22							
	1981	8/05	0	0	0	0	0	Ground survey - Poor, 0.5 mi.		ADF&G (1981)
	1981	8/11	0	0	8	0	0	Ground survey - Poor, 0.25 mi.		ADF&G (1981)
	1981	8/21	0	0	43	0	0	Ground survey - Fair, 0.5 mi.		ADF&G (1981)
	1981	8/29	0	0	50	0	0	Ground survey - Good, 0.5 mi.		ADF&G (1981)
	1981	9/06	0	0	70	0	0	Ground survey - Good, 0.5 mi.		ADF&G (1981)
	1981	9/17	0	0	9	1	1	Ground survey - Fair, 0.5 mi.		ADF&G (1981)
	1981	9/24	0	0	18	0	1	Ground survey - Good, 0.5 mi.		ADF&G (1981)
	1981	10/02	0	0	11	0	0	Ground survey - Good, 0.5 mi.		ADF&G (1981)
	1982	8/08	0	0	5	0	73	Ground survey - Excellent, 0.5 mi.		ADF&G (1983b)
	1982	8/13	0	0	39	0	27	Ground survey - Excellent, 0.5 mi.		ADF&G (1983b)
	1982	8/18	0	0	82	0	47	Ground survey - Poor, 0.25 mi.		ADF&G (1983b)
	1982	8/23	0	0	176	0	138	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/21	0	0	0	0	0	Ground survey - Poor, 0.5 mi.		ADF&G (1983b)
	1982	9/24	0	0	39	0	0	Ground survey - Good, 10.0 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Good, 0.8 mi.		ADF&G (1983b)
	1983	7/15	3	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	7/25	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/04	3	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1984)
	1983	8/12	0	0	4	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1984)
	1983	8/26	0	0	5	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1984)
	1983	9/05	0	0	55	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/09	0	0	50	0	0	Ground survey - Fair, 0.25 mi.		Barrett et al. (1984)
	1983	9/10	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1984)
	1983	9/19	0	0	32	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/24	0	0	115	0	0	Aerial count, helicopter - Excellent, 8.0 mi.		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Aerial count, helicopter - Poor, 8.0 mi.		Barrett et al. (1984)
	1983	10/08	0	0	6	0	0	Aerial count, helicopter - Good, 8.0 mi.		Barrett et al. (1984)
	1984	7/22	67	0	0	0	0	Aerial count, helicopter - Fair, 8.0 mi.		Barrett et al. (1985)
	1984	9/01	0	0	90	0	0	Aerial count, helicopter - Good, 8.0 mi.		Barrett et al. (1985)
	1984	9/08	0	0	301	0	0	Aerial count, helicopter - Good, 8.0 mi.		Barrett et al. (1985)
	1984	9/15	0	0	33	0	0	Aerial count, helicopter - Fair, 8.0 mi.		Barrett et al. (1985)
	1984	9/22	0	0	217	0	0	Aerial count, helicopter - Excellent, 8.0 mi.		Barrett et al. (1985)
	1984	9/29	0	0	273	0	0	Aerial count, helicopter - Good, 8.0 mi.		Barrett et al. (1985)
	1984	10/13	0	0	46	0	0	Aerial count, helicopter - Excellent, 8.0 mi.		Barrett et al. (1985)
	1984	10/16	0	0	132	0	0	Aerial count, helicopter - Good, 8.0 mi.		Barrett et al. (1985)
	1984	7/11	0	0	0	0	0	Ground survery - Excellent, 0.5 mi.		

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1984	7/22	40	0	0	0	0	Ground survery - Excellent, 0.5 mi.		Barrett et al. (1985)
	1984	7/27	1	0	0	0	41	Ground survery - Fair, 0.5 mi.		Barrett et al. (1985)
	1984	8/02	1	0	0	0	67	Ground survery - Fair, 0.5 mi.		Barrett et al. (1985)
	1984	8/09	0	0	6	0	174	Ground survery - Fair, 0.5 mi.		Barrett et al. (1985)
	1984	8/15	0	0	10	0	293	Ground survery - Excellent, 0.5 mi.		Barrett et al. (1985)
	1984	8/26	0	0	0	0	10	Ground survery - Poor, 0.5 mi.		Barrett et al. (1985)
	1984	9/06	0	0	45	0	16	Ground survery - Excellent, 0.5 mi.		Barrett et al. (1985)
	1984	9/17	0	0	117	0	0	Ground survery - Good, 0.5 mi.		Barrett et al. (1985)
	1984	9/24	0	0	18	0	0	Ground survery - Good, 0.5 mi.		Barrett et al. (1985)
	1984	9/30	0	0	22	0	0	Ground survery - Excellent, 0.5 mi.		Barrett et al. (1985)
	1984	10/07	0	0	38	0	0	Ground survery - Excellent, 0.5 mi.		Barrett et al. (1985)
247-41-10200-2391-3021										Barrett et al. (1985)
247-41-10200-2420										
Chase Creek *	1974	8/16&8/21		1				Ground, boat and aerial counts combined	Note - TALK B-1	
	1974	9/01			40			Ground, boat and aerial counts combined	Peak count	Barrett (1974)
									Peak count	Barrett (1974)
	1981	8/04	0	0	0	0	5	Ground survey - Good, 0.75 mi.		ADF&G (1981)
	1981	8/11	0	0	23	1	38	Ground survey - Good, 0.75 mi.		ADF&G (1981)
	1981	8/17	0	0	0	0	0	Ground survey - Fair, 0.75 mi.		ADF&G (1981)
	1981	8/23	0	0	13	0	0	Ground survey - Excellent, 0.75 mi.		ADF&G (1981)
	1981	8/29	0	0	49	0	0	Ground survey - Good, 0.75 mi.		ADF&G (1981)
	1981	9/07	0	0	80	1	0	Ground survey - Excellent, 0.75 mi.		ADF&G (1981)
	1981	9/14	0	0	62	1	0	Ground survey - Good, 0.75 mi.		ADF&G (1981)
	1981	9/24	0	0	34	0	0	Ground survey - Good, 0.75 mi.		ADF&G (1981)
	1981	10/02	0	0	21	0	0	Ground survey - Good, 0.75 mi.		ADF&G (1981)
	1982	8/08	0	0	0	0	4	Ground survey - Excellent, 0.75 mi.		ADF&G (1983b)
	1982	8/11	15	0	0	0	96	Ground survey - Good, 1.0 mi.		ADF&G (1983b)
	1982	8/20	2	0	0	0	107	Ground survey - Excellent, 1.0 mi.		ADF&G (1983b)
	1982	8/28	2	0	0	0	62	Ground survey - Excellent, 1.0 mi.		ADF&G (1983b)
	1982	9/06	0	0	0	0	4	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	9/17	0	0	1	0	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	9/21	0	0	3	0	0	Ground survey - Excellent, 0.75 mi.		ADF&G (1983b)
	1982	9/27	0	0	36	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Fair, 0.5 mi.		ADF&G (1983b)
	~~1983~~	~~7/21~~	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	7/22	0	0	0	0	0	Ground survey - Excellent, 1.0 mi.		Barrett et al. (1984)
	1983	8/01	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	8/12	0	0	0	0	6	Ground survey - Good, 0.75 mi.		Barrett et al. (1984)
	1983	8/27	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	9/06	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	9/19	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1983	9/24	0	0	12	0	0	Aerial count, helicopter - Excellent, 1.2 mi.		Barrett et al. (1984)
	1983	10/01	0	0	6	0	0	Aerial count, helicopter - Good, 1.2 mi.		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	10/08	0	0	1	0	0	Aerial count, helicopter - Excellent, 1.2 mi.		Barrett et al. (1984)
	1983	10/08	0	0	1	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1984	9/01	0	0	120	0	0	Aerial count, helicopter - Good, 2.0 mi.		Barrett et al. (1985)
	1984	9/08	0	0	95	0	0	Aerial count, helicopter - Good, 2.0 mi.		Barrett et al. (1985)
	1984	9/15	0	0	70	0	0	Aerial count, helicopter - Poor, 2.0 mi.		Barrett et al. (1985)
	1984	9/22	0	0	43	0	0	Aerial count, helicopter - Good, 2.0 mi.		Barrett et al. (1985)
	1984	9/29	0	0	74	0	0	Aerial count, helicopter - Good, 2.0 mi.		Barrett et al. (1985)
	1984	10/06	0	0	34	0	0	Aerial count, helicopter - Good, 2.0 mi.		Barrett et al. (1985)
	1984	10/13	0	0	26	0	0	Aerial count, helicopter - Excellent, 2.0 mi.		Barrett et al. (1985)
	1984	7/12	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1985)
	1984	7/27	0	0	0	0	41	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1985)
	1984	8/02	1	0	0	0	49	Ground survey - Fair, 0.75 mi.		Barrett et al. (1985)
	1984	8/09	2	0	2	0	68	Ground survey - Good, 0.75 mi.		Barrett et al. (1985)
	1984	8/16	3	0	8	1	438	Ground survey - Good, 0.75 mi.		Barrett et al. (1985)
	1984	8/28	0	0	239	0	140	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1985)
	1984	9/04	0	0	202	0	116	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1985)
	1984	9/17	0	0	85	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1985)
	1984	9/24	0	0	44	0	0	Ground survey - Good, 0.75 mi.		Barrett et al. (1985)
	1984	9/30	0	0	42	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1985)
	1984	10/07	0	0	32	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1985)
	1984	10/14	0	0	10	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1985)
247-41-10200-2426 *									Note - TALK B-1	
Slash Creek *	1982	9/21	0	0	6	0	0	Ground survey - Excellent, 0.75 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Good, 0.1 mi.		ADF&G (1983b)
	1983	7/27	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/05	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/15	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/22	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/29	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/05	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/12	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/19	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/02	0	0	2	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1984	7/23	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	7/30	0	0	0	0	0	Ground survey - Fair, 0.25 mi.		Barrett et al. (1985)
	1984	8/07	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/14	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/21	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1984	8/27	0	0	0	0	3	Ground survey - Fair, 0.25 mi.		Barrett et al. (1985)
	1984	9/05	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/16	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/24	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/30	0	0	5	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	10/07	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
247-41-10200-2435										
Gash Creek *	1981	9/23	0	0	141	0	0	Ground survey - Excellent, 0.75 mi.	Note - TALK C-1	ADF&G (1981)
	1981	9/28	0	0	117	0	0	Ground survey - Excellent, 0.75 mi.		ADF&G (1981)
	1982	8/07	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/19	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/01	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/07	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/23	0	0	74	0	0	Ground survey - Excellent, 1.0 mi.		ADF&G (1983b)
	1982	9/27	0	0	67	0	0	Ground survey - Excellent, 1.0 mi.		ADF&G (1983b)
	1982	10/02	0	0	22	0	0	Ground survey - Excellent, 1.0 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1983	7/27	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	8/05	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	8/15	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	8/22	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	8/29	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	9/05	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	9/12	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	9/19	0	0	19	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	10/02	0	0	16	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1984	9/01	0	0	14	0	0	Aerial count, helicopter - Good, 3.0 mi.		Barrett et al. (1985)
	1984	7/23	0	0	0	0	0	Ground survey - Excellent, 3.0 mi.		Barrett et al. (1985)
	1984	7/30	0	0	0	0	0	Ground survey - Fair, 3.0 mi.		Barrett et al. (1985)
	1984	8/07	0	0	0	0	0	Ground survey - Excellent, 3.0 mi.		Barrett et al. (1985)
	1984	8/14	0	0	0	0	0	Ground survey - Excellent, 3.0 mi.		Barrett et al. (1985)
	1984	8/21	0	0	0	0	6	Ground survey - Excellent, 3.0 mi.		Barrett et al. (1985)
	1984	8/27	0	0	0	0	0	Ground survey - Poor, 3.0 mi.		Barrett et al. (1985)
	1984	9/05	0	0	20	0	0	~~Ground survey - Good, 3.0 mi.~~		Barrett et al. (1985)
	1984	~~9/16~~	0	0	61	0	0	Ground survey - Good, 3.0 mi.		Barrett et al. (1985)
	1984	9/24	0	0	234	0	0	Ground survey - Good, 3.0 mi.		Barrett et al. (1985)
	1984	9/30	0	0	192	0	0	Ground survey - Excellent, 3.0 mi.		Barrett et al. (1985)
	1984	10/07	0	0	127	0	0	Ground survey - Excellent, 3.0 mi.		Barrett et al. (1985)
	1984	10/14	0	0	71	0	0	Ground survey - Excellent, 3.0 mi.		Barrett et al. (1985)
247-41-10200-2440										

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
Lane Creek	Hist								Chinook present	Kubik (1964)
	1958	7/17	5					Aerial count	Suspected aerial count	Kubik (1964)
	1961	6/27	0					Aerial count		Kubik (1964)
	1962	7/19	0				82	Ground, boat and aerial counts combined	Peak count	Barrett (1974)
	1974	8/09					106		Peak count,	Friese (1975)
	1975	8/17				3				ADF&G (1985c)-SUSONE.TAB
	1975	8/17						Aerial count, helicopter - Fair		ADF&G (1981)
	1981	7/27	22					Aerial count, helicopter - Good		ADF&G (1981)
	1981	7/28	40							ADF&G (1981)
	1981	8/19	0	0	0	9	53	Ground survey - Fair, 0.5 mi.		ADF&G (1981)
	1981	8/23	0	0	0	76	291	Ground survey - Excellent, 1.0 mi.		ADF&G (1981)
	1981	8/29	0	0	0	17	43	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1981	9/05	0	0	0	44	0	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1981	9/13	0	0	0	24	6	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1981	9/21	0	0	3	1	1	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1981	9/28	0	0	1	0	0	Ground survey - Excellent, 0.5 mi.		
	1982	7/12	47	0	0	0	0	Ground survey - Excellent, 0.7 mi.		ADF&G (1983b)
	1982	7/28	41	0	0	0	0	Ground survey - Fair, 2.5 mi.		ADF&G (1983b)
	1982	8/02	1	0	0	1	0	Ground survey - Fair, 0.25 mi.		ADF&G (1983b)
	1982	8/07	1	0	0	1	504	Ground survey - Excellent, 0.5 mi.		ADF&G (1983b)
	1982	8/13	0	0	1	1	640	Ground survey - Excellent, 0.5 mi.		ADF&G (1983b)
	1982	8/19	0	0	0	4	577	Ground survey - Excellent, 0.5 mi.		ADF&G (1983b)
	1982	8/25	0	0	0	11	576	Ground survey - Excellent, 0.5 mi.		ADF&G (1983b)
	1982	8/31	0	0	0	11	78	Ground survey - Good, 0.5 mi.		ADF&G (1983b)
	1982	9/06	0	0	1	5	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/14	0	0	5	1	0	Ground survey - Excellent, 0.5 mi.		ADF&G (1983b)
	1982	9/21	0	0	1	0	0	Ground survey - Fair, 0.5 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		
	1983	7/12	6	0	0	0	0	Ground survey - Excellent, 1.5 mi.		Barrett et al. (1984)
	1983	7/21	6	0	0	0	0	Ground survey - Excellent, 1.5 mi.		Barrett et al. (1984)
	1983	7/28	0	0	0	0	0	Ground survey - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	8/02	12	0	0	0	0	Aerial count, helicopter - Excellent, 1.5 mi.		Barrett et al. (1984)
	1983	8/05	6	0	0	0	5	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/15	0	0	0	6	28	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/22	0	0	0	3	28	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/29	0	0	0	1	14	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/05	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/12	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/19	0	0	2	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/24	0	0	1	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Aerial count, helicopter - Excellent, 2.0 mi.		

Appendix Table I-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1984	7/22	23	0	0	0	0	Aerial count, helicopter - Excellent, 5.0 mi.		Barrett et al. (1985)
	1984	7/23	4	0	0	0	0	Aerial count, helicopter - Excellent, 5.0 mi.		Barrett et al. (1985)
	1984	9/29	0	0	24	0	0	Aerial count, helicopter - Good, 5.0 mi.		Barrett et al. (1985)
	1984	10/06	0	0	17	0	0	Aerial count, helicopter - Good, 5.0 mi.		Barrett et al. (1985)
	1984	7/30	6	0	0	6	35	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/07	1	0	0	25	686	Ground survey - Fair, 0.25 mi.		Barrett et al. (1985)
	1984	8/14	0	0	0	16	1184	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/21	0	0	3	31	829	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/27	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	9/05	0	0	0	2	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/16	0	0	1	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/24	0	0	2	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/30	0	0	2	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	10/05	0	0	8	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
247-41-10200-2441 *										
Clyde Creek *										
	1984	8/07	0	0	8	0	4	Ground survey - Good, 0.25 mi.	Note - TALK C-1	
	1984	8/14	0	0	8	0	10	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/21	0	0	8	0	34	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/27	0	0	8	0	5	Ground survey - Fair, 0.25 mi.		Barrett et al. (1985)
	1984	9/05	0	0	8	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/16	0	0	8	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/24	0	0	8	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/30	0	0	8	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
247-41-10200-2443 *										
Maggot Creek *										
	1984	8/07	0	0	0	0	107	Ground survey - Good, 0.25 mi.	Note - TALK C-1	
	1984	8/14	0	0	0	0	68	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/21	0	0	0	0	48	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/27	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	9/05	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/16	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/24	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
247-41-10200-2444										
Lower McKenzie Creek *										
	1981	8/23	0	1	56	14	0	Ground survey - Excellent, 0.5 mi.	Note - TALK C-1	
	1981	8/29	0	0	0	12	0	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1981	9/05	0	0	0	2	0	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1981	9/13	0	0	6	1	0	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1981	9/21	0	0	2	0	0	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1981	9/28	0	0	2	1	0	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1982	8/07	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/13	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/19	0	0	0	0	23	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1982	8/25	0	0	0	0	6	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/31	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/06	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/14	0	0	133	0	0	Ground survey - Excellent, 1.5 mi.		ADF&G (1983b)
	1982	9/21	0	0	103	0	0	Ground survey - Good, 1.5 mi.		ADF&G (1983b)
	1982	9/27	0	0	90	0	0	Ground survey - Excellent, 1.0 mi.		ADF&G (1983b)
	1982	10/02	0	0	34	0	0	Ground survey - Excellent, 1.0 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1983	7/27	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	8/05	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	8/15	0	0	0	1	17	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	8/22	0	0	0	1	5	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	8/29	0	0	0	0	1	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	9/05	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	9/12	0	0	0	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	9/19	0	0	4	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	9/24	0	0	5	0	0	Ground survey - Fair, 3.0 mi.		Barrett et al. (1984)
	1983	10/01	0	0	18	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Aerial count, helicopter - Excellent, 2.0 mi.		Barrett et al. (1984)
	1983	10/08	0	0	4	0	0	Ground survey - Excellent, 0.75 mi.		Barrett et al. (1984)
	1984	9/29	0	0	3	0	0	Aerial count, helicopter - Good, 2.0 mi.		Barrett et al. (1985)
	1984	7/30	0	0	0	0	585	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/07	0	0	0	0	226	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/14	0	0	0	0	115	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/21	0	0	0	0	71	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/27	0	0	24	23	4	Ground survey - Fair, 0.25 mi.		Barrett et al. (1985)
	1984	9/05	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/16	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/24	0	0	9	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/30	0	0	10	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	10/05	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
247-41-10200-2450										
McKenzie Creek	1961	6/27	0						Suspected aerial count	Kubik (1964)
	1962	7/19	0						Suspected aerial count	Kubik (1964)
	1975	9/27		45						Friese (1975)
	1981	8/11	0	0	0	0	0	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1981	8/23	0	0	0	0	0	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1982	8/07	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/13	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/19	0	0	0	0	17	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/25	0	0	0	0	7	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1982	8/31	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/06	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/14	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/21	0	0	0	0	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	9/22	0	0	0	0	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	10/02	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Fair, 0.1 mi.		ADF&G (1983b)
	1983	7/27	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/05	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/15	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/22	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/29	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/05	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/12	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/19	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1984	7/30	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/07	0	0	0	0	11	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/14	0	0	0	0	7	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/21	0	0	0	0	5	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/27	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	9/05	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/16	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/24	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
247-41-10200-2454 *										
Little Portage Creek *									Note - TALK C-1	
	1982	8/07	0	0	0	0	40	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/13	0	0	0	0	140	Ground survey - Excellent, 0.5 mi.		ADF&G (1983b)
	1982	8/19	0	0	0	0	74	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/25	0	0	0	31	61	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/31	0	0	0	5	9	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/06	0	0	0	25	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/14	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/21	0	0	6	0	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	9/27	0	0	8	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	10/02	0	0	8	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Good, 0.1 mi.		ADF&G (1983b)
	1983	7/27	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/05	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/15	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/22	0	0	0	0	7	Ground survey - Fair, 0.25 mi.		Barrett et al. (1984)
	1983	8/29	0	0	0	0	3	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1983	9/05	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/12	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/19	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1984	7/23	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	7/30	0	0	0	0	1	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	8/07	0	0	0	0	8	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/13	0	0	0	2	157	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	8/20	0	0	0	18	162	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/27	0	0	0	0	26	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	9/05	0	0	0	8	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/16	0	0	0	2	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/24	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
									Note - TALK C-1	
247-41-10200-2462 *								Aerial count		Kubik (1964)
Deadhorse Creek *	1962	7/19	0						RM 120.9	ADF&G (1981)
	1981	8/11	0	0	0	0	0	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1981	8/25	0	0	0	0	0	Ground survey - Excellent, 0.5 mi.		
	1983	8/15	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/22	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/30	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/06	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/13	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/17	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/25	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1984	8/06	0	0	0	0	41	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/13	0	0	0	0	337	Ground survey - Excellent, 1.5 mi.		Barrett et al. (1985)
	1984	8/20	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	8/27	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	9/08	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/13	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
247-41-10200-2470										
247-41-10200-2473										
Fifth of July Creek *	1981	8/11	0	0	0	0	2	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1982	8/06	3	0	0	1	17	Ground survey - Excellent, 0.5 mi.		ADF&G (1983b)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1982	8/12	0	0	0	0	61	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/19	0	0	0	0	113	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/25	0	0	0	0	29	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/31	0	0	0	0	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	9/06	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/14	0	0	0	0	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	9/20	0	0	0	0	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Poor, 0.2 mi.		ADF&G (1983b)
	1983	7/21	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	7/26	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/05	0	0	0	6	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/13	0	0	0	0	9	Ground survey - Good, 0.25 mi.		Barrett et al. (1984)
	1983	8/20	0	0	0	0	6	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/27	0	0	0	0	3	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/03	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1984)
	1983	9/11	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/18	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Aerial count, helicopter - Excellent, 0.25 mi.		Barrett et al. (1984)
	1984	7/22	10	0	0	0	0	Aerial count, helicopter - Good, 0.5 mi.		Barrett et al. (1985)
	1984	7/22	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	7/23	17	0	0	0	0	Ground survey - Excellent, 0.5 mi.		Barrett et al. (1985)
	1984	7/30	5	0	0	0	4	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	8/06	0	0	0	2	171	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/13	0	0	0	1	411	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/20	0	0	0	1	222	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	9/04	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/11	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/21	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/28	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	10/05	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
247-41-10200-2474										
Skull Creek *	1981	8/11	0	0	0	10	0	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1981	8/19	0	0	0	0	6	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1981	8/20	0	0	0	0	8	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1982	8/06	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/12	0	0	0	0	12	Ground survey - Excellent, 0.5 mi.		ADF&G (1983b)
	1982	8/17	0	0	0	0	12	Ground survey - Excellent, 0.5 mi.		ADF&G (1983b)
	1982	8/23	0	0	0	0	11	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/31	0	0	0	1	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1982	9/06	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/13	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/19	0	0	0	0	0	Ground survey - Fair, 0.25 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Excellent, 0.1 mi.		ADF&G (1983b)
	1983	8/05	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/13	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/20	0	0	0	0	1	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/27	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/03	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1984)
	1983	9/11	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/18	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		Barrett et al. (1985)
	1984	7/22	0	0	0	0	0	Aerial count, helicopter - Good, 1.5 mi.		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good, 1.5 mi.		Barrett et al. (1985)
	1984	7/30	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/06	0	0	0	0	10	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/13	0	0	0	0	121	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/20	0	0	0	4	81	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	9/04	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/11	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/21	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/28	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
247-41-10200-2510 Sherman Creek *	1962	7/10	0					Aerial count		Kubik (1964)
	1981	7/31	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		ADF&G (1981)
	1981	8/07	0	0	0	2	0	Ground survey - Good, 0.25 mi.		ADF&G (1981)
	1981	8/10	0	0	0	9	5	Ground survey - Good, 0.25 mi.		ADF&G (1981)
	1981	8/11	0	0	0	6	2	Ground survey - Excellent, 0.25 mi.		ADF&G (1981)
	1981	8/20	0	0	0	2	6	Ground survey - Excellent, 0.25 mi.		ADF&G (1981)
	1981	9/25	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1981)
	1982	8/06	3	0	0	0	5	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/12	0	0	0	0	24	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/17	0	0	0	0	5	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/23	0	0	0	0	3	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/05	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/13	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		ADF&G (1983b)
	1982	9/25	0	0	0	0	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	10/01	0	0	0	0	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Excellent, 0.1 mi.		ADF&G (1983b)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1983	8/07	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/14	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/21	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1984)
	1983	8/29	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/11	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/18	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Aerial count, helicopter - Excellent, 0.25 mi.		Barrett et al. (1984)
	1984	7/22	0	0	0	0	0	Aerial count, helicopter - Excellent, 2.0 mi.		Barrett et al. (1985)
	1984	7/23	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	7/30	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	8/06	0	0	0	2	43	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/13	0	0	0	6	48	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/20	0	0	0	6	21	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	9/04	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/11	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/21	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/28	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
247-41-10200-2511										
Fourth of July Creek *	1974	8/16					159	Ground, boat and aerial counts combined	Peak count	Barrett (1974)
	1974	9/11			26	594		Ground, boat and aerial counts combined	Peak count	Barrett (1974)
	1975	8/09	1							Friese (1975)
	1975	8/17		1			148			Friese (1975)
	1981	7/31	0	0	0	1	0	Ground survey - Poor, 0.25 mi.		ADF&G (1981)
	1981	8/07	0	0	1	90	18	Ground survey - Fair, 0.25 mi.		ADF&G (1981)
	1981	8/10	0	0	0	31	4	Ground survey - Good, 0.25 mi.		ADF&G (1981)
	1981	8/20	0	0	0	66	29	Ground survey - Good, 0.25 mi.		ADF&G (1981)
	1981	9/01	0	0	0	0	5	Ground survey - Excellent, 1.5 mi.		ADF&G (1981)
	1981	9/25	0	0	1	1	0	Ground survey - Excellent, 0.3 mi.		ADF&G (1981)
	1982	7/28	56	0	0	0	0	Ground survey - Good, 2.0 mi.		ADF&G (1983b)
	1982	8/06	8	0	0	0	63	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/12	5	0	0	8	511	Ground survey - Good, 0.5 mi.		ADF&G (1983b)
	1982	8/17	0	0	0	79	594	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/23	0	0	0	168	702	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/30	0	0	0	188	125	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	9/05	0	0	0	191	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	9/13	0	0	1	50	0	Ground survey - Fair, 0.25 mi.		ADF&G (1983b)
	1982	9/19	0	0	0	43	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	9/25	0	0	4	28	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1982	10/01	0	0	2	6	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Poor, 0.2 mi.		ADF&G (1983b)
	1983	7/10	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	7/21	0	0	0	0	0	Ground survey - Excellent, 1.5 mi.		Barrett et al. (1984)
	1983	7/26	0	0	0	0	0	Ground survey - Excellent, 1.5 mi.		Barrett et al. (1984)
	1983	8/02	6	0	0	0	0	Ground survey - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	8/05	6	0	0	11	25	Ground survey - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	8/13	3	0	0	54	20	Ground survey - Good, 0.5 mi.		Barrett et al. (1984)
	1983	8/20	0	0	0	112	78	Ground survey - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	8/27	0	0	1	148	32	Ground survey - Good, 0.5 mi.		Barrett et al. (1984)
	1983	9/03	0	0	0	30	11	Ground survey - Fair, 0.5 mi.		Barrett et al. (1984)
	1983	9/11	0	0	2	24	0	Ground survey - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	9/18	0	0	3	54	0	Ground survey - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Poor, 0.5 mi.		Barrett et al. (1984)
	1983	10/08	0	0	2	14	0	Ground survey - Excellent, 0.5 mi.		Barrett et al. (1984)
	1984	7/22	92	0	0	0	0	Aerial count, helicopter - Good, 4.0 mi.		Barrett et al. (1985)
	1984	7/23	34	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Fair, 4.0 mi.		Barrett et al. (1985)
	1984	9/29	0	0	8	0	0	Aerial count, helicopter - Good, 2.0 mi.		Barrett et al. (1985)
	1984	7/30	25	0	0	129	553	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	8/06	6	1500	0	13	702	Ground survey - Fair, 0.25 mi.		Barrett et al. (1985)
	1984	8/13	0	0	0	193	1842	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/20	0	0	0	175	929	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	9/04	0	0	0	70	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/11	0	0	0	22	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/21	0	0	1	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/28	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	10/05	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
247-41-10200-2540 Gold Creek	1962	7/20	0						Suspected aerial count	Kubik (1964)
	1981	8/25	0	0	0	0	0	Ground survey - Fair, 0.75 mi.		ADF&G (1981)
	1982	8/03	21	0	0	0	0	Ground survey - Excellent, 4.0 mi.		ADF&G (1983b)
	1982	8/11	2	0	0	0	11	Ground survey - Good, 0.5 mi.		ADF&G (1983b)
	1982	8/19	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/23	0	0	1	0	2	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/30	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Fair, 0.2 mi.		ADF&G (1983b)
	1983	7/24	23	0	0	0	0	Aerial count, helicopter - Excellent, 7.0 mi.		Barrett et al. (1984)
	1983	7/29	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/01	15	0	0	0	0	Aerial count, helicopter - Excellent, 7.0 mi.		Barrett et al. (1984)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1983	8/07	6	0	0	0	7	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/14	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1984)
	1983	8/21	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1984)
	1983	8/29	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1984)
	1983	9/10	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1984)
	1983	9/18	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Aerial count, helicopter - Excellent, 0.25 mi.		Barrett et al. (1984)
	1984	7/22	2	0	0	0	0	Aerial count, helicopter - Poor, 7.0 mi.		Barrett et al. (1985)
	1984	8/01	23	0	0	0	0	Aerial count, helicopter - Good, 7.0 mi.		Barrett et al. (1985)
	1984	8/18	0	0	0	0	0	Aerial count, helicopter - Poor, 7.0 mi.		Barrett et al. (1985)
	1984	9/01	0	0	0	0	0	Aerial count, helicopter - Excellent, 7.0 mi.		Barrett et al. (1985)
	1984	9/08	0	0	0	0	0	Aerial count, helicopter - Good, 7.0 mi.		Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good, 7.0 mi.		Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Excellent, 7.0 mi.		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good, 7.0 mi.		Barrett et al. (1985)
	1984	8/08	1	0	0	0	82	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	8/24	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	9/20	0	0	0	0	0	Ground survey - Fair, 0.25 mi.		Barrett et al. (1985)
	1984	9/28	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
247-41-10200-2551										
Indian River	Hist									
	1962	7/03	28					Aerial count	Max. count 1,002 chinook (1957)	Kubik (1963)
	1962	8/19	0					Aerial count		Kubik (1963)
	1964	8/12	2					Aerial count		Kubik (1965)
	1972	7/30	35					Aerial count		Watsjold (1973)
	1973	7/26	110					Aerial count		ADF&G (1982)
	1973	7/29	122					Aerial count, fixed wing		Watsjold (1974)
	1973		5					Aerial count		Kubik & Trent (1974)
	1974	7/25	102					Aerial count, fixed wing		Watsjold (1975)
	1974	8/19			64	531	577	Ground, boat and aerial counts combined	Peak count	Barrett (1974)
	1974	9/10						Ground, boat and aerial counts combined		Barrett (1974)
	1975	8/04	31					Aerial count, fixed wing		Watsjold (1976)
	1975		35							ADF&G (1982)
	1975	8/12	10			70	321			Friese (1975)
	1975	9/26		1					Peak count	Friese (1975)
	1976	7/23	537					Aerial count, fixed wing	Peak count	Watsjold (1977)
	1977		393					Aerial count, fixed wing		Watsjold (1978)
	1978		114					Aerial count, fixed wing		Watsjold (1979)
	1979	10/29				150			Cook Inlet Aquaculture Ass'n (CIAA)	Watsjold (1980)
	1979		285					Aerial count, fixed wing		Bentz (1982)
	1980								No count - high, turbid water	

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1981	7/27	422					Aerial count, helicopter - Good		ADF&G (1981)
	1981	8/06	0	0	0	22	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1981)
	1981	8/10	0	0	0	4	0	Ground survey - Poor, 0.25 mi.		ADF&G (1981)
	1981	8/21	0	0	0	34	2	Ground survey - Fair, 0.25 mi.		ADF&G (1981)
	1981	9/03	0	0	0	40	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1981)
	1981	9/11	0	0	16	16	0	Ground survey - Fair, 0.25 mi.		ADF&G (1981)
	1981	9/15	0	0	85	0	0	Aerial count, helicopter - Good, 15.0 mi.		ADF&G (1981)
	1981	9/19	0	0	10	3	0	Ground survey - Fair, 0.25 mi.		ADF&G (1981)
	1981	9/26	0	0	0	0	0	Ground survey - Good, 0.25 mi.		ADF&G (1981)
	1982	7/21	1053	0	0	0	0	Aerial count, helicopter - Excellent, 15.0 mi.		ADF&G (1983b)
	1982	8/01	110	0	0	0	0	Ground survey - Excellent, 6.0 mi.		ADF&G (1983b)
	1982	8/03	142	0	0	0	24	Ground survey - Excellent, 2.0 mi.		ADF&G (1983b)
	1982	8/05	129	0	0	16	203	Ground survey - Good, 4.0 mi.		ADF&G (1983b)
	1982	8/11	30	0	0	134	738	Ground survey - Excellent, 1.0 mi.		ADF&G (1983b)
	1982	8/16	15	0	9	367	559	Ground survey - Excellent, 1.0 mi.		ADF&G (1983b)
	1982	8/23	2	0	0	199	567	Ground survey - Excellent, 1.0 mi.		ADF&G (1983b)
	1982	8/29	8	0	18	168	347	Ground survey - Good, 1.0 mi.		ADF&G (1983b)
	1982	9/04	0	0	24	1346	98	Ground survey - Excellent, 2.0 mi.		ADF&G (1983b)
	1982	9/12	0	0	37	1177	0	Ground survey - Excellent, 2.0 mi.		ADF&G (1983b)
	1982	9/18	0	0	36	74	0	Ground survey - Excellent, 2.0 mi.		ADF&G (1983b)
	1982	9/24	0	0	101	0	0	Aerial count, helicopter - Excellent, 15.0 mi.		ADF&G (1983b)
	1982	9/30	0	0	32	2	0	Ground survey - Excellent, 2.0 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Good, 1.0 mi.		ADF&G (1983b)
	1983	7/25	1193	0	0	0	0	Aerial count, helicopter - Excellent, 16.0 mi.		Barrett et al. (1984)
	1983	8/02	406	0	0	0	0	Aerial count, helicopter - Excellent, 16.0 mi.		Barrett et al. (1984)
	1983	8/09	8	0	0	0	0	Aerial count, helicopter - Poor, 16.0 mi.		Barrett et al. (1984)
	1983	8/26	0	0	16	361	151	Aerial count, helicopter - Good, 16.0 mi.		Barrett et al. (1984)
	1983	9/03	0	0	33	118	0	Aerial count, helicopter - Good, 16.0 mi.		Barrett et al. (1984)
	1983	9/10	0	0	53	120	0	Aerial count, helicopter - Excellent, 16.0 mi.		Barrett et al. (1984)
	1983	9/24	0	0	38	0	0	Aerial count, helicopter - Excellent, 16.0 mi.		Barrett et al. (1984)
	1983	10/01	0	0	17	0	0	Aerial count, helicopter - Good, 16.0 mi.		Barrett et al. (1984)
	1983	10/08	0	0	18	0	0	Aerial count, helicopter - Good, 16.0 mi.		Barrett et al. (1984)
	1983	7/27	40	0	0	76	36	Ground survey - Fair, 1.0 mi.		Barrett et al. (1984)
	1983	8/04	4	0	0	314	696	Ground survey - Good, 1.0 mi.		Barrett et al. (1984)
	1983	8/12	0	0	0	494	675	Ground survey - Good, 1.0 mi.		Barrett et al. (1984)
	1983	8/19	0	1	27	811	886	Ground survey - Excellent, 1.0 mi.		Barrett et al. (1984)
	1983	8/27	0	0	22	734	289	Ground survey - Fair, 1.0 mi.		Barrett et al. (1984)
	1983	9/03	0	0	0	0	0	Ground survey - Poor, 1.0 mi.		Barrett et al. (1984)
	1983	9/10	0	0	15	171	0	Ground survey - Excellent, 1.0 mi.		Barrett et al. (1984)
	1983	9/16	0	0	7	108	0	Ground survey - Excellent, 1.0 mi.		Barrett et al. (1984)
	1983	9/22	0	0	15	0	0	Ground survey - Excellent, 1.0 mi.		Barrett et al. (1984)
	1983	10/03	0	0	5	0	0	Ground survey - Excellent, 1.0 mi.		Barrett et al. (1984)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1984	7/25	1456	0	0	0	0	Aerial count, helicopter - Good, 16.0 mi.		Barrett et al. (1985)
	1984	8/01	635	0	0	437	1466	Aerial count, helicopter - Good, 16.0 mi.		Barrett et al. (1985)
	1984	8/11	42	1	5	2247	7966	Aerial count, helicopter - Excellent, 16.0 mi.		Barrett et al. (1985)
	1984	8/18	0	0	125	1758	9066	Aerial count, helicopter - Fair, 16.0 mi.		Barrett et al. (1985)
	1984	9/01	0	0	211	509	0	Aerial count, helicopter - Excellent, 16.0 mi.		Barrett et al. (1985)
	1984	9/08	0	0	277	62	0	Aerial count, helicopter - Good, 16.0 mi.		Barrett et al. (1985)
	1984	9/15	0	0	465	6	0	Aerial count, helicopter - Good, 16.0 mi.		Barrett et al. (1985)
	1984	9/22	0	0	203	0	0	Aerial count, helicopter - Excellent, 16.0 mi.		Barrett et al. (1985)
	1984	9/29	0	0	87	0	0	Aerial count, helicopter - Good, 16.0 mi.		Barrett et al. (1985)
	1984	10/06	0	0	74	0	0	Aerial count, helicopter - Good, 16.0 mi.		Barrett et al. (1985)
	1984	10/13	0	0	77	0	0	Aerial count, helicopter - Excellent, 16.0 mi.		Barrett et al. (1985)
	1984	7/24	199	0	0	0	0	Ground survey - Good, 1.0 mi.		Barrett et al. (1985)
	1984	7/31	197	0	0	296	549	Ground survey - Fair, 1.0 mi.		Barrett et al. (1985)
	1984	8/08	100	0	2	494	3405	Ground survey - Good, 1.0 mi.		Barrett et al. (1985)
	1984	8/11	0	0	3	515	1834	Ground survey - Excellent, 1.0 mi.		Barrett et al. (1985)
	1984	8/17	0	0	45	1272	5282	Ground survey - Good, 1.0 mi.		Barrett et al. (1985)
	1984	8/24	0	0	0	0	0	Ground survey - Poor, 1.0 mi.		Barrett et al. (1985)
	1984	9/02	0	0	29	354	4	Ground survey - Good, 1.0 mi.		Barrett et al. (1985)
	1984	9/10	0	0	70	230	0	Ground survey - Good, 1.0 mi.		Barrett et al. (1985)
	1984	9/20	0	0	0	0	0	Ground survey - Poor, 1.0 mi.		Barrett et al. (1985)
	1984	9/28	0	0	8	0	0	Ground survey - Excellent, 1.0 mi.		Barrett et al. (1985)
	1984	10/03	0	0	10	0	0	Ground survey - Excellent, 1.0 mi.		Barrett et al. (1985)
	1984	10/11	0	0	0	0	0	Ground survey - Excellent, 1.0 mi.		Barrett et al. (1985)
247-41-10200-2551-3015 Salmon Creek										
247-41-10200-2551-3015-0010 Summit Lake										
247-41-10200-2551-3201										
247-41-10200-2570 Jack Long Creek *	1981	8/21	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		ADF&G (1981)
	1981	8/26	0	0	0	0	1	Ground survey - Excellent, 0.75 mi.		ADF&G (1981)
	1981	9/24	0	0	0	0	0	Ground survey - Excellent, 0.5 mi.		ADF&G (1981)
	1982	8/04	2	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/11	2	0	0	0	15	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/16	0	0	0	0	21	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/22	0	0	0	0	8	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/30	0	0	1	3	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	9/04	0	0	0	1	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/12	0	0	0	0	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
										ADF&G (1983a)
	1982	9/18	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		ADF&G (1983b)
	1982	9/30	0	0	1	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Ground survey - Poor, 0.3 mi.		
										Barrett et al. (1984)
	1983	7/24	0	0	0	0	0	Aerial count, helicopter - Excellent, 8.0 mi.		Barrett et al. (1984)
	1983	8/01	6	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/04	1	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/12	1	0	0	2	5	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/18	0	0	0	2	1	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/25	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/02	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/10	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/15	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/22	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/01	0	0	1	0	0	Aerial count, helicopter - Excellent, 8.0 mi.		Barrett et al. (1984)
	1983	10/03	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		
										Barrett et al. (1985)
	1984	7/21	7	0	0	0	0	Aerial count, helicopter - Excellent, 8.0 mi.		Barrett et al. (1985)
	1984	9/08	0	0	0	0	0	Aerial count, helicopter - Good, 8.0 mi.		Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good, 8.0 mi.		Barrett et al. (1985)
	1984	9/22	0	0	5	0	0	Aerial count, helicopter - Excellent, 8.0 mi.		Barrett et al. (1985)
	1984	9/29	0	0	6	0	0	Aerial count, helicopter - Good, 8.0 mi.		Barrett et al. (1985)
	1984	7/31	1	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/08	2	0	0	4	14	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/17	0	0	0	1	5	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/24	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	9/02	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/10	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/20	0	0	0	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/26	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	10/03	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		
										Kubik (1963)
247-41-10200-2585										Kubik (1964)
Portage Creek	1962	7/30	27					Aerial count		Watsjold (1973)
	1963	8/15	0					Aerial count		ADF&G (1982)
	1972	7/30	68					Aerial count, fixed wing		Watsjold (1974)
	1973	7/26	153							Watsjold (1975)
	1973	7/29	174					Aerial count, helicopter		Barrett (1974)
	1974	7/27	260					Aerial count, fixed wing		Friese (1975)
	1974	8/18			150	276	218	Ground, boat and aerial counts combined	Peak count	Watsjold (1976)
	1975	7/29	29						Peak count	Watsjold (1977)
	1975	8/04	32					Aerial count, fixed wing		Watsjold (1978)
	1976	7/23	702					Aerial count, fixed wing		Watsjold (1979)
	1977		374					Aerial count, fixed wing		
	1978		140					Aerial count, fixed wing		

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1979		190					Aerial count, fixed wing		Watsjold (1980)
	1980								No count - high, turbid water	Bentz (1982)
	1981	7/27	659					Aerial count, helicopter - Good		
	1981	8/21	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		ADF&G (1981)
	1981	9/15	0	0	22	0	0	Aerial count, helicopter - Fair, 12.0 mi.		ADF&G (1981)
	1981	9/24	0	0	0	0	0	Ground survey - Good, 0.25 mi.		ADF&G (1981)
										ADF&G (1981)
	1982	7/21	955	0	0	0	0	Aerial count, helicopter - Excellent, 15.0 mi.		
	1982		1111							ADF&G (1983b)
	1982	8/03	1253	0	0	0	0	Aerial count, helicopter - Excellent, 15.0 mi.		Bentz (1983)
	1982	8/09	25	0	0	25	146	Ground survey - Excellent, 0.5 mi.		ADF&G (1983b)
	1982	8/16	4	0	0	71	169	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/22	2	0	1	153	111	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	8/29	4	0	1	28	141	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	9/03	0	0	0	7	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	9/12	0	0	0	0	0	Ground survey - Good, 0.25 mi.		ADF&G (1983b)
	1982	9/18	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		ADF&G (1983b)
	1982	9/23	0	0	0	0	0	Ground survey - Fair, 0.25 mi.		ADF&G (1983b)
	1982	9/24	0	0	88	5	0	Aerial count, helicopter - Excellent, 15.0 mi.		ADF&G (1983b)
	1982	9/30	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		ADF&G (1983b)
	1983	7/25	3140	0	0	0	0	Aerial count, helicopter - Excellent, 25.0 mi.		
	1983	8/01	2556					Aerial count, helicopter - Excellent		Barrett et al. (1984)
	1983	8/09	0	0	0	0	0	Aerial count, helicopter - Poor, 25.0 mi.		Barrett et al. (1984)
	1983	8/26	5	0	0	526	35	Aerial count, helicopter - Excellent, 25.0 mi.		Barrett et al. (1984)
	1983	9/04	0	0	0	141	0	Aerial count, helicopter - Good, 25.0 mi.		Barrett et al. (1984)
	1983	9/10	0	0	1	8	0	Aerial count, helicopter - Excellent, 25.0 mi.		Barrett et al. (1984)
	1983	9/18	0	0	8	0	0	Aerial count, helicopter - Excellent, 25.0 mi.		Barrett et al. (1984)
	1983	9/24	0	0	15	0	0	Aerial count, helicopter - Excellent, 25.0 mi.		Barrett et al. (1984)
	1983	10/01	0	0	2	0	0	Aerial count, helicopter - Fair, 25.0 mi.		Barrett et al. (1984)
	1983	10/08	0	0	6	0	0	Aerial count, helicopter - Excellent, 25.0 mi.		Barrett et al. (1984)
	1983	8/04	5	0	0	262	285	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/12	4	0	0	68	50	Ground survey - Good, 0.25 mi.		Barrett et al. (1984)
	1983	8/18	0	0	2	26	57	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	8/25	0	0	0	0	4	Ground survey - Fair, 0.25 mi.		Barrett et al. (1984)
	1983	9/02	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1984)
	1983	9/09	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/15	0	0	0	1	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	9/22	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1983	10/03	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1984)
	1984	7/21	99	0	0	0	0	Aerial count, helicopter - Excellent, 25.0 mi.		Barrett et al. (1985)
	1984	7/25	190	0	0	0	0	Aerial count, helicopter - Poor, 25.0 mi.		Barrett et al. (1985)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
										Hepler & Bentz (1985)
	1984		2341							Barrett et al. (1985)
	1984	8/01	5446	0	0	115	90	Aerial count, helicopter - Excellent, 25.0 mi.		Barrett et al. (1985)
	1984	8/11	663	0	15	405	2707	Aerial count, helicopter - Excellent, 25.0 mi.		Barrett et al. (1985)
	1984	8/18	12	14	91	1285	2105	Aerial count, helicopter - Good, 25.0 mi.		Barrett et al. (1985)
	1984	9/01	0	0	9	60	0	Aerial count, helicopter - Good, 25.0 mi.		Barrett et al. (1985)
	1984	9/08	0	0	93	19	0	Aerial count, helicopter - Good, 25.0 mi.		Barrett et al. (1985)
	1984	9/15	0	0	128	0	0	Aerial count, helicopter - Good, 25.0 mi.		Barrett et al. (1985)
	1984	9/22	0	0	94	0	0	Aerial count, helicopter - Excellent, 25.0 mi.		Barrett et al. (1985)
	1984	9/29	0	0	115	0	0	Aerial count, helicopter - Good, 25.0 mi.		Barrett et al. (1985)
	1984	10/06	0	0	46	0	0	Aerial count, helicopter - Good, 25.0 mi.		Barrett et al. (1985)
	1984	10/13	0	0	43	0	0	Aerial count, helicopter - Excellent, 25.0 mi.		Barrett et al. (1985)
	1984	7/31	43	0	0	53	40	Ground survey - Fair, 0.25 mi.		Barrett et al. (1985)
	1984	8/01	153	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/04	50	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/08	11	0	6	242	158	Ground survey - Fair, 0.25 mi.		Barrett et al. (1985)
	1984	8/17	0	12	21	262	58	Ground survey - Fair, 0.25 mi.		Barrett et al. (1985)
	1984	8/18	2	0	0	156	302	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	8/24	0	0	0	0	0	Ground survey - Poor, 0.25 mi.		Barrett et al. (1985)
	1984	9/02	0	2	0	1	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/10	0	1	1	0	0	Ground survey - Good, 0.25 mi.		Barrett et al. (1985)
	1984	9/20	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	9/26	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
	1984	10/03	0	0	0	0	0	Ground survey - Excellent, 0.25 mi.		Barrett et al. (1985)
247-41-10200-2585-3100										
247-41-10200-2585-3201 Thoroughfare Creek										
247-41-10200-2585-3223										
247-41-10200-2596 Cheechako Creek *									Note - TALK MTS D-5	Kubik (1964)
	1962	7/19	0					Aerial count		
	1982	8/05	11	0	0	0	0	Aerial count, helicopter - Excellent, 0.75 Tributary in Devil Canyon (RM 152.5).		ADF&G (1983b)
	1982	8/06	16	0	0	0	0	Aerial count, helicopter - Excellent, 3.0 mi.		ADF&G (1983b)
	1982	8/11	6	0	0	0	0	Aerial count, helicopter - Good, 1.0 mi.		ADF&G (1983b)
	1982	8/18	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		ADF&G (1983b)
	1982	8/22	1	0	0	0	0	Aerial count, helicopter - Good, 1.5 mi.		ADF&G (1983b)
	1982	8/28	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		ADF&G (1983b)
	1982	9/08	0	0	0	0	0	Aerial count, helicopter - Good, 0.5 mi.		ADF&G (1983b)
	1982	9/24	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.5 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Good, 0.1 mi.		ADF&G (1983b)
	1983	7/24	16	0	0	0	0	Aerial count, helicopter - Excellent, 1.25 mi.		Barrett et al. (1984)

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1983	8/01	25	0	0	0	0	Aerial count, helicopter - Excellent, 1.25 mi.		Barrett et al. (1984)
	1983	8/09	2	0	0	0	0	Aerial count, helicopter - Good, 1.25 mi.		Barrett et al. (1984)
	1983	8/26	0	0	0	0	0	Aerial count, helicopter - Fair, 1.25 mi.		Barrett et al. (1984)
	1983	9/04	0	0	0	0	0	Aerial count, helicopter - Good, 1.25 mi.		Barrett et al. (1984)
	1983	9/10	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.25 mi.		Barrett et al. (1984)
	1983	9/18	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.25 mi.		Barrett et al. (1984)
	1983	9/24	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.25 mi.		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.25 mi.		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.25 mi.		Barrett et al. (1984)
	1984	7/21	16	0	0	0	0	Aerial count, helicopter - Good, 1.25 mi.		Barrett et al. (1985)
	1984	8/01	29	0	0	0	0	Aerial count, helicopter - Good, 1.25 mi.		Barrett et al. (1985)
	1984	8/11	6	0	0	0	0	Aerial count, helicopter - Good, 1.25 mi.		Barrett et al. (1985)
	1984	8/18	0	0	0	0	0	Aerial count, helicopter - Good, 1.25 mi.		Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good, 1.25 mi.		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good, 1.25 mi.		Barrett et al. (1985)
	1984	10/13	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.25 mi.		Barrett et al. (1985)
247-41-10200-2630										
Chinook Creek *									Note - TALK MTS D-5	
	1982	8/06	5	0	0	0	0	Aerial count, helicopter - Excellent, 2.0	Tributary in Devil Canyon (RM 156.8).	ADF&G (1983b)
	1982	8/11	1	0	0	0	0	Aerial count, helicopter - Good, 1.5 mi.		ADF&G (1983b)
	1982	8/18	1	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		ADF&G (1983b)
	1982	8/22	0	0	0	0	0	Aerial count, helicopter - Good, 2.0 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Good, 0.1 mi.		ADF&G (1983b)
	1983	7/24	4	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		Barrett et al. (1984)
	1983	8/01	8	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		Barrett et al. (1984)
	1983	8/09	0	0	0	0	0	Aerial count, helicopter - Poor, 1.0 mi.		Barrett et al. (1984)
	1983	8/26	0	0	0	0	0	Aerial count, helicopter - Fair, 1.0 mi.		Barrett et al. (1984)
	1983	9/04	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		Barrett et al. (1984)
	1983	9/10	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		Barrett et al. (1984)
	1983	9/17	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		Barrett et al. (1984)
	1983	9/24	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		Barrett et al. (1984)
	1984	7/21	2	0	0	0	0	Aerial count, helicopter - Fair, 1.0 mi.		Barrett et al. (1985)
	1984	8/01	15	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		Barrett et al. (1985)
	1984	8/11	8	0	0	0	0	Aerial count, helicopter - Good, 1.0 mi.		Barrett et al. (1985)
	1984	8/18	0	0	0	0	0	Aerial count, helicopter - Good, 1.0 mi.		Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good, 1.0 mi.		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good, 1.0 mi.		Barrett et al. (1985)
	1984	10/13	0	0	0	0	0	Aerial count, helicopter - Excellent, 1.0 mi.		Barrett et al. (1985)
247-41-10200-2649 *									Note - TALK MTS D-5	

Appendix Table 1-1 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
Devil Creek *	1982	8/06	0	0	0	0	0	Aerial count, helicopter - Excellent, 2.0	Tributary in Devil Canyon (RM 161.0).	ADF&G (1983b)
	1982	8/11	0	0	0	0	0	Aerial count, helicopter - Excellent, 2.0 mi.		ADF&G (1983b)
	1982	8/18	0	0	0	0	0	Aerial count, helicopter - Excellent, 2.0 mi.		ADF&G (1983b)
	1982	8/22	0	0	0	0	0	Aerial count, helicopter - Excellent, 2.0 mi.		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Good, 1.0 mi.		ADF&G (1983b)
	1983	7/24	0	0	0	0	0	Aerial count, helicopter - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	8/01	1	0	0	0	0	Aerial count, helicopter - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	8/02	1	0	0	0	0	Aerial count, helicopter - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	8/09	0	0	0	0	0	Aerial count, helicopter - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	8/26	0	0	0	0	0	Aerial count, helicopter - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	9/04	0	0	0	0	0	Aerial count, helicopter - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	9/10	0	0	0	0	0	Aerial count, helicopter - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	9/18	0	0	0	0	0	Aerial count, helicopter - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	9/24	0	0	0	0	0	Aerial count, helicopter - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Aerial count, helicopter - Excellent, 0.5 mi.		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Aerial count, helicopter - Excellent, 0.5 mi.		Barrett et al. (1984)
	1984	7/21	0	0	0	0	0	Aerial count, helicopter - Poor, 0.5 mi.		Barrett et al. (1985)
	1984	8/01	0	0	0	0	0	Aerial count, helicopter - Fair, 0.5 mi.		Barrett et al. (1985)
	1984	8/11	0	0	0	0	0	Aerial count, helicopter - Good, 0.5 mi.		Barrett et al. (1985)
	1984	8/18	0	0	0	0	0	Aerial count, helicopter - Good, 0.5 mi.		Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good, 0.5 mi.		Barrett et al. (1985)
	1984	10/13	0	0	0	0	0	Aerial count, helicopter - Excellent, 0.5 mi.		Barrett et al. (1985)
247-41-10200-2696 *									Note - TALK KTS D-4 Furthest upstream tributary (RM 176.1) where salmon have been documented in the middle reach of the Susitna River.	
Fog Creek *	1984	7/21	2	0	0	0	0	Aerial count, helicopter - Excellent, 3.0 mi.		Barrett et al. (1985)
	1984	8/01	0	0	0	0	0	Aerial count, helicopter - Excellent, 3.0 mi.		Barrett et al. (1985)
	1984	8/11	0	0	0	0	0	Aerial count, helicopter - Good, 3.0 mi.		Barrett et al. (1985)
	1984	8/18	0	0	0	0	0	Aerial count, helicopter - Good, 3.0 mi.		Barrett et al. (1985)

* - These new location codes and names were submitted to the editors of the Anadromous Waters Catalog in October 1985. Upon verification, they will be included in the next printing of the Anadromous Waters Catalog.

Appendix Table 1-2. Escapement survey counts of adult salmon in the Yentna River drainage.

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2053										
Yentna River	1974	7/13-8/17		54978				Mark-recapture	Modified Peterson	Barrett (1975b)
	1974	7/13-8/14		3746	1036	345	2534	Yentna Station fishwheel catch		Barrett (1975b)
Yentna Station	1981	6/29-9/07		139401	17017	19765	36053	Side-scan sonar	Escapement estimate	ADF&G (1981)
	1982	6/27-9/05		113847	34089	27830	447257	Side-scan sonar	Escapement estimate	ADF&G (1983a)
	1983	6/30-9/05		104400	8900	10800	60700	Side-scan sonar	Escapement estimate	Barrett et al. (1984)
	1984	7/01-9/05		149400	18200	26500	369300	Side-scan sonar	Escapement estimate	Barrett et al. (1985)
247-41-10200-2053-3020										
Kroto Slough										
247-41-10200-2053-3020-4029 *									Note - TYONEK C-2	
Whitsol Creek *	1984	9/10	0	0	55	0	0	Aerial count, helicopter - Good, TRM 0.0		Barrett et al. (1985)
	1984	9/27	0	0	20	0	0	Aerial count, helicopter - Good, TRM 0.0		Barrett et al. (1985)
	1984	10/06	0	0	0	0	0	Aerial count, helicopter - Good, TRM 0.0		Barrett et al. (1985)
	1984	7/31	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/09	0	0	0	0	0	Ground survey - Poor/Good, TRM 0.0		Barrett et al. (1985)
	1984	8/19	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	8/25	0	0	0	0	0	Ground survey - Poor, TRM 0.0		Barrett et al. (1985)
	1984	9/20	0	0	30	0	0	Ground survey - Fair, TRM 0.0		Barrett et al. (1985)
247-41-10200-2053-3020-0010										
Whitsol Lake										
247-41-10200-2053-3020-4015										
Fish Creek	1961	6/08	0						Suspected aerial count	Kubik (1964)
	1962	7/03	0						Suspected aerial count	Kubik (1964)
	1963	8/14	0						Suspected aerial count	Kubik (1964)
	1966		8					Test net		Kubik (1967)
	1977		132					Aerial count		Kubik & Wadman (1976)
247-41-10200-2053-3100										
Moose Creek	1958	7/11	0						Suspected aerial count	Kubik (1964)
	1961	6/29	0					Aerial count		Kubik (1964)
	1962	7/05	0					Aerial count		Kubik (1964)
	1963	6/27	2					Aerial count		Kubik (1964)
	1965	6/30	25					Test net		Kubik (1966)
	1965		26					Aerial count		Kubik (1966)
	1966		5					Test net		Kubik (1967)
247-41-10200-2053-3150										
Kahiltna River	1958	7/23	0						Suspected aerial count	Kubik (1964)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1961	6/17	0					Aerial count		Kubik (1964)
	1962	7/05	0					Aerial count		Kubik (1964)
	1963	7/04	0					Aerial count		Kubik (1964)
247-41-10200-2053-3150-4060 Peters Creek										
	1962	8/14	3					Aerial count		Kubik (1964)
	1963	6/25	0					Aerial count		Kubik (1964)
	1965	7/27	101					Aerial count		Kubik (1966)
	1972		95					Aerial count		Kubik (1973)
	1973		59					Ground survey		Kubik & Trent (1974)
	1974		124					Aerial count		Kubik & Chlupach (1975)
	1975		8					Aerial count		Kubik & Riis (1976)
	1976		1489					Aerial count		Kubik & Wadman (1977)
	1977		3042					Aerial count		Kubik & Wadman (1978)
	1978		1130					Aerial count		Kubik & Wadman (1979)
	1982		4000		1000		10000			Kubik (pers. comm.)
	1983	7/14	2272					Aerial count, helicopter - Excellent	Martin Creek included in this count	Barrett et al. (1984)
	1983		114					Creel census	267 man/days fished	Hepler & Bentz (1984)
	1984		324					Aerial count	Martin Creek included in this count	Hepler & Bentz (1985)
	1984		336					Creel census	543 man/days fished	Hepler & Bentz (1985)
247-41-10200-2053-3150-4060-5012										
247-41-10200-2053-3150-4060-5026 Kenny Creek										
247-41-10200-2053-3150-4060-5033 Martin Creek									Chinook present	
	Hist								Peak	Kubik (1963)
	1962	7/30	6					Aerial count	Peak	Kubik (1964)
	1963	7/09	5					Aerial count	Peak	Kubik (1965)
	1964	7/29	12					Aerial count		Kubik & Chlupach (1975)
	1974		23					Aerial count		Kubik & Riis (1976)
	1975		6					Aerial count		Kubik & Wadman (1977)
	1976		791					Aerial count		Kubik & Wadman (1978)
	1977		1061					~~Aerial count~~		Kubik & Wadman (1979)
	1978		205					Aerial count		Kubik & Delaney (1980)
	1979		108					Aerial count	Counts included in Peters Creek data	Hepler & Bentz (1984)
	1983							Aerial count	Counts included in Peters Creek data	Hepler & Bentz (1985)
	1984							Aerial count		
247-41-10200-2053-3150-4060-5033-6006										
247-41-10200-2053-3150-4060-5033-6009 Black Creek										

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2053-3150-4060-5033-6010										
247-41-10200-2053-3150-4060-5033-6015										
Sand Creek										
247-41-10200-2053-3150-4060-5033-6019										
South Fork Martin Creek										
247-41-10200-2053-3150-4060-5033-6025										
247-41-10200-2053-3150-4060-5033-6033										
String Creek										
247-41-10200-2053-3150-4060-5040										
Deep Creek										
247-41-10200-2053-3150-4060-5050										
Cottonwood Creek										
247-41-10200-2053-3150-4060-5050-6003										
Willow Creek										
247-41-10200-2053-3150-4060-5067 *									Note - TALK C-2	
Bird Creek *	1964	7/03	4					Aerial count		Kubik (1965)
247-41-10200-2053-3150-4080										
Bear Creek	1962	7/23	9					Aerial count	Peak	Kubik (1963)
	1963	7/09	13					Aerial count	Peak	Kubik (1964)
	1964	7/29	4					Aerial count	Peak	Kubik (1965)
	1972		12					Aerial count	Peak	Kubik (1973)
	1976		15					Aerial count		Kubik & Wadman (1977)
	1977		298					Aerial count		Kubik & Wadman (1978)
	1982		100				5000			Kubik (pers. comm.)
									Max. abundance estimate from several years observations	
247-41-10200-2053-3150-4090										
Pickle Creek	1982		100				5000			Kubik (pers. comm.)
247-41-10200-2053-3150-4090-5008										
Hungrymay Creek	1982		100	5000						Kubik (pers. comm.)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2053-3150-4115 Treasure Creek										
247-41-10200-2053-3150-4120 Cache Creek	1958	7/23	0						Suspected aerial count	Kubik (1964)
	1962	7/23	4					Aerial count	Peak	Kubik (1963)
	1963	6/25	0					Aerial count	Peak	Kubik (1964)
	1976		61					Aerial count		Kubik & Wadman (1977)
	1977		100					Aerial count		Kubik & Wadman (1978)
	1982				2	68				Kubik (pers. comm.)
	1983		497					Aerial count		Hepler & Bentz (1984)
247-41-10200-2053-3150-4120-5017 Dollar Creek										
247-41-10200-2053-3150-4120-5021 Falls Creek										
247-41-10200-2053-3150-4120-5023										
247-41-10200-2053-3150-4120-5027 Nugget Creek										
247-41-10200-2053-3150-4120-5032 Cache Creek										
247-41-10200-2053-3150-4144 * Granite Creek *	1973		4					Aerial count, fixed wing	Note - TALK B-3	Watsjold (1974)
247-41-10200-2053-3170 Lake Creek	Hist								Max. count 770 chinook (1969), 559 sockeye (1956)	
	1961	6/27	60					Aerial count		Kubik (1964)
	1961		21					Creel census	159 hours fished	Stefanich (1962)
	~~1962~~	~~7/12~~	~~10~~					~~Aerial count~~	~~Peak~~	~~Kubik (1963)~~
	1962		44		28			Creel census		Kubik (1963)
	1963	6/21	4					Aerial count		Kubik (1964)
	1963		51					Creel census		Kubik (1964)
	1964		45					Aerial count	Lake Creek mainstem count	Kubik (1965)
	1964		305					Aerial count	Lake Creek System (includes Camp, Sunflower, Yenlo, and Twin Cks.)	Kubik (1965)
	1965		172					Aerial count	Lake Creek mainstem count	Kubik (1967)
	1965		0					Aerial count	Lake Creek System	Kubik (1967)
	1966		30					Aerial count	Lake Creek mainstem count	Kubik (1967)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1966		147					Aerial count	Lake Creel System	Kubik (1967)
	1966		300						Total escapement estimate	Kubik (1967)
	1966		28		105			Punch card/Creel census		Kubik (1967)
	1967		343					Aerial count	Lake Creek mainstem count	Kubik (1968)
	1967		723					Aerial count	Lake Creel System	Kubik (1968)
	1967		1000						Total escapement estimate	Kubik (1968)
	1967		60					Punch card		Kubik (1968)
	1968		362					Aerial count	Lake Creek mainstem count	Kubik (1969)
	1968		653					Aerial count	Lake Creel System	Kubik (1969)
	1968		1300						Total escapement estimate	Kubik (1969)
	1968		3		67			Punch card/Creel census		Kubik (1969)
	1969		304					Aerial count	Lake Creek mainstem count	Kubik (1970)
	1969		770					Aerial count	Lake Creel System	Kubik (1970)
	1969		1540						Total escapement estimate	Kubik (1970)
	1969		8		80			Punch card/Creel census		Kubik (1970)
	1969		350						Excellent observation - TRM 0.0-10.0	Stewart & Flagg (1969)
	1970		54					Aerial count - Poor	Lake Creek mainstem count, high water	Kubik (1971)
	1970	7/26	189				70			ADF&G (1982)
	1970		1		80			Punch card/Creel census		Kubik (1971)
	1971		0					Aerial count	Lake Creek mainstem count	Kubik (1972)
	1971		119					Aerial count	Includes Sunflower & Camp Ck	Kubik (1972)
	1971		2					Punch card		Kubik (1972)
	1971				40			Creel census		Kubik (1972)
	1972		442					Aerial count	Lake Creek mainstem count	Kubik (1973)
	1972		920					Aerial count	Lake Creel System	Kubik (1973)
	1972		17					Punch card		Kubik (1973)
	1972				12		11	Creel census		Kubik (1973)
	1972	8/30	114	112						ADF&G (1982)
	1973		761					Aerial count/Ground survey		Kubik & Trent (1974)
	1974		535					Aerial count		Kubik & Chlupach (1975)
	1975		281					Aerial count		Kubik & Riis (1976)
	1976	7/26	3735					Aerial count		Kubik & Wadman (1977)
	1977		464	658	1203	162	4927	Sport Fish Harvest Census	Angling, 6946 days fished	Mills (1979)
	1977		7391					Aerial count		Kubik & Wadman (1978)
	1978		326	254	2212	1015	2833	Sport Fish Harvest Census	Angling, 8767 days fished	Mills (1980)
	1978		8931					Aerial count		Kubik & Wadman (1979)
	1979		1796	440	2671	136	882	Sport Fish Harvest Census	Angling, 13881 days fished	Mills (1981a)
	1979		4196					Aerial count		Kubik & Delaney (1980)
	1979		2045					Creel census	3954 man/days fished	Kubik & Delaney (1980)
	1980		775	267	2351	69	2101	Sport Fish Harvest Census	Angling, 8325 days fished	Mills (1981b)
	1980		6000	5000	2500	15000	500000			Kubik (pers. comm.)
	1980		1044					Creel census	2237 man/days fished	Kubik (1981)
	1981		641					Creel census	1180 man/days fished	Hepler & Kubik (1982)
	1981		795	211	1035	48	412	Sport Fish Harvest Census	Angling, 6471 days fished	Mills (1982)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1981	7/30	169					Aerial count, helicopter - Poor	Camp Creek to Lake, partial count	ADF&G (1981)
	1982		3577					Aerial count		Delaney & Hepler (1983)
	1982		1474					Creel census	3657 man/days fished	Delaney & Hepler (1983)
	1982		1645	252	1603	199	398	Sport Fish Harvest Census	Angling, 8649 days fished	Mills (1983)
	1982	8/02	2317					Aerial count, helicopter - Good		ADF&G (1983a)
	1983		2141					Creel census	4203 man/days fished	Hepler & Bentz (1984)
	1983		2423	726	1392	52	430	Sport Fish Harvest Census	Angling, 14749 days fished	Mills (1984)
	1983	7/26	7075					Aerial count, helicopter - Excellent		Barrett et al. (1984)
	1984		2148					Creel census	3134 man/days fished	Hepler & Bentz (1985)
247-41-10200-2053-3170-0010										
Chelatna Lake	1972			57					Includes Coffee Ck. & Snowslide Ck.	Tarbox & Sanders (1980)
	1973			11					Includes Coffee Ck. & Snowslide Ck.	Tarbox & Sanders (1980)
	1974			0					Includes Coffee Ck. & Snowslide Ck.	Tarbox & Sanders (1980)
	1975			4					Includes Coffee Ck. & Snowslide Ck.	Tarbox & Sanders (1980)
	1975	8/29		50						ADF&G (1982)
	1977			171					Includes Coffee Ck. & Snowslide Ck.	Tarbox & Sanders (1980)
	1978			0					Includes Coffee Ck. & Snowslide Ck.	Tarbox & Sanders (1980)
	1979			0					Glacially occluded,Coffee & Snowslide	Tarbox & Sanders (1980)
	1980	8/29		4120					Includes Coffee Ck. & Snowslide Ck.	Tarbox & Sanders (1980)
	1981	8/27		14500					Includes Coffee Ck. & Snowslide Ck., includes 2,700 carcassas	Tarbox et al. (1983)
	1982	8/20		23180					Includes 2,700 carcasses	ADF&G (1985c)-YENONE.TAB
	1983	8/25		520						ADF&G (1985c)-YENONE.TAB
	1984	8/08		575						ADF&G (1985c)-YENONE.TAB
	1984	8/15		341						ADF&G (1985c)-YENONE.TAB
	1984	8/26		41						ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3170-4027										
Yenlo Creek	1962	7/27	33					Aerial count		Kubik (1963)
	1963	6/25	0					Aerial count		Kubik (1964)
	1964	7/29	8					Aerial count		Kubik (1965)
	1965	7/29	3					Aerial count		Kubik (1966)
	1966		6					Aerial count		Kubik (1973)
	1969		28					Aerial count		Kubik (1973)
	1972		0					Aerial count		Kubik (1973)
247-41-10200-2053-3170-4039										
247-41-10200-2053-3170-4039-5017										
247-41-10200-2053-3170-4045										
Home Creek										

Appendix Table I-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2053-3170-4057										
Camp Creek	Hist								Max. count 101 chinook (1965)	
	1961	7/26	86					Aerial count, fixed wing	Peak count	Stefanich (1962)
	1962	7/23	34					Aerial count	Peak	Kubik (1963)
	1963	7/09	10					Aerial count		Kubik (1964)
	1964	7/29	94					Aerial count		Kubik (1965)
	1965	7/30	101					Aerial count		Kubik (1966)
	1966		68					Aerial count		Kubik (1973)
	1967		225					Aerial count		Kubik (1973)
	1968		129					Aerial count		Kubik (1973)
	1969		86					Aerial count		Kubik (1973)
	1969		0						To early	Stewart & Flagg (1969)
	1970		47					Aerial count		Kubik (1973)
	1971		88					Aerial count		Kubik (1973)
	1972		126					Aerial count		Kubik (1973)
	1973		72					Aerial count		Kubik & Trent (1974)
	1981	7/24	436					Aerial count, helicopter - Fair		ADF&G (1981)
	1982	8/02	517					Aerial count, helicopter - Excellent		ADF&G (1983a)
	1983	7/29	1050					Aerial count, helicopter - Excellent		Barrett et al. (1984)
247-41-10200-2053-3170-4057-5011										
Mills Creek										
247-41-10200-2053-3170-4057-5011-6017										
Twin Creek	1963	7/09	20					Aerial count		Kubik (1964)
	1964	7/29	7					Aerial count		Kubik (1965)
	1965	7/30	19					Aerial count		Kubik (1966)
	1966		5					Aerial count		Kubik (1973)
	1969		56					Aerial count		Kubik (1973)
	1972		0					Aerial count		Kubik (1973)
247-41-10200-2053-3170-4067										
Sunflower Creek (Lake Creek Drainage)	Hist								Max. count 151 chinook (1964), 1 pink (1953)	
	1961	7/26	16					Aerial count, fixed wing		Stefanich (1962)
	1962	7/23	19					Aerial count	Peak	Kubik (1963)
	1963	8/24	32					Aerial count		Kubik (1964)
	1964	7/29	151					Aerial count		Kubik (1965)
	1965	7/30	49					Aerial count		Kubik (1966)
	1966		38					Aerial count		Kubik (1973)
	1967		155					Aerial count		Kubik (1973)
	1968		162					Aerial count		Kubik (1973)
	1969		296					Aerial count		Kubik (1973)
	1970		88					Aerial count		Kubik (1973)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1971		31					Aerial count		Kubik (1973)
	1972		261					Aerial count		Kubik (1973)
	1973		154					Aerial count		Kubik & Trent (1974)
	1981	7/24	260					Aerial count, helicopter - Fair		ADF&G (1981)
	1982	8/02	743					Aerial count, helicopter - Excellent		ADF&G (1983a)
	1983	7/29	2250					Aerial count, helicopter - Excellent		Barrett et al. (1984)
247-41-10200-2053-3170-4080 *									Note - TALK C-3	
Eagle Creek *	1985									Davis (pers. comm.)
247-41-10200-2053-3170-4088										
Coffee Creek	Hist								Sockeye present	
	1963	8/19	0					Aerial count		Kubik (1964)
	1972	8/29		254				Ground survey		Barrett (1973a)
	1972	8/30		24				Ground survey		Barrett (1973a)
	1973	9/06	0	0	0	0	0	Ground survey		Barrett (1973a)
	1974	9/06	0	0	0	0	0	Ground survey		Barrett (1975a)
	1975	8/30		70						ADF&G (1982)
	1975	9/01		7						ADF&G (1982)
	1975			0				Ground survey		Friese (1976a)
	1976							Ground survey	Glacially occluded	Friese (1976b)
	1977	8/27		231						ADF&G (1982)
	1977								Glacially occluded	Namtvedt et al. (1979)
	1978			0						Waltemyer et al. (1980)
	1978	8/27		18					Coffee Creek and Snowslide Creek	ADF&G (1982)
247-41-10200-2053-3170-4093									Note - TALK C-4	
Spring Creek *	Hist								Max. count 142 sockeye (1954)	
	1972	8/29		33				Foot survey	Includes Snowslide Creek	Barrett (1973a)
	1972			57					Includes Snowslide Creek	ADF&G (1985c)-YENONE.TAB
	1973	9/06		11				Foot survey	Includes Snowslide Creek	Barrett (1973a)
	1974	9/06	0	0	0	0	0	Foot survey	Includes Snowslide Creek	Barrett (1975a)
	1975	9/01		4					Includes Snowslide Creek	Friese (1976a)
	1976			0				Foot survey	Glacially occluded	Friese (1976b)
247-41-10200-2053-3170-4095 *									~~Note - Trib. of Cripple Creek, TALK C-4~~	
Snowslide Creek *										
	1977			171					Referred to in previous reports as Spring Creek	Namtvedt et al. (1970)
	1978			0					Referred to in previous reports as Spring Creek	Waltemyer et al. (1980)
247-41-10200-2053-3170-4095-5019										
Cripple Creek	1975	8/23		427						ADF&G (1982)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1975	8/30		48						ADF&G (1982)
	1976	8/23		438						ADF&G (1982)
	1976	9/02	24	428						ADF&G (1982)
	1977	9/12	0	0	0	0	0			ADF&G (1982)
	1979	8/26	0	0	0	0	0			ADF&G (1982)
247-41-10200-2053-3180									Note - Also known as Quick Creek (Barrett 1975, weir counts) and Quig Creek (ADF&G,Soldatna)	
Fish Lake Creek / Quig Creek										
	1965	7/30	53					Aerial count		Kubik (1966)
	1966		8					Test net		Kubik (1967)
	1966				58			Creel census		Kubik (1967)
	1974	7/30-8/14		1048	6		7	Weir count, Quick Creek	Partial estimate for sockeye & coho due to sampling dates	Barrett (1975b)
	1977		131					Aerial count		Kubik & Wadman (1978)
	1978		66					Aerial count		Kubik & Wadman (1979)
	1983	7/22	250	17500				Aerial count	Sockeye reported (15000-20000)	Marcuson (pers. comm.)
247-41-10200-2053-3180-0010									Note - All Fish Lake data combined (Fish Lake 0010 - 0050)	
Fish Lakes (Fish Lake Creek)	Hist								Sockeye escapements exceeding 1,000	
	1974			1048				Escapement count (weir)		Barrett (1975b)
	1981		200		500					Kubik (pers. comm.)
247-41-10200-2053-3180-0020 Fish Lakes (Fish Lake Creek)									Note - See Fish Lakes (0010)	
247-41-10200-2053-3180-0030 Fish Lakes (Fish Lake Creek)									Note - See Fish Lakes (0010)	
247-41-10200-2053-3180-0040 Fish Lakes (Fish Lake Creek)									Note - See Fish Lakes (0010)	
247-41-10200-2053-3180-0050 Fish Lakes (Fish Lake Creek)									Note - See Fish Lakes (0010)	
247-41-10200-2053-3205 Skwentna River	Hist								Max. count 75 sockeye (1953)	
	1958	6/12	0						Suspected aerial count	Kubik (1964)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1976	8/26		150	20	1	140			ADF&G (1982)
	1977	9/01		450						ADF&G (1982)
	1978	8/29		308						ADF&G (1982)
247-41-10200-2053-3205-4027 *									Note - TYONEK D-4	
Eight Mile Creek *	1961	6/17	0						Peak, suspected ground survey	Kubik (1964)
	1962	7/04	2					Ground survey	Peak	Kubik (1963)
247-41-10200-2053-3205-4050										
Shell Creek	Hist								Significant numbers of sockeye	
	1961	6/17	0					Aerial count		Kubik (1964)
	1962	8/03	0					Aerial count		Kubik (1964)
	1963	6/19	0					Aerial count		Kubik (1964)
	1972	7/28		5000			5	Ground survey		Barrett (1973a)
	1972	8/10		0	0	0	0	Ground survey		Barrett (1973a)
	1972	8/18		0	0	0	0	Ground survey		Barrett (1973a)
	1972	8/29		50				Aerial count, Super Cub		Barrett (1973a)
	1973	7/15-8/14	0	26	0	0	26	Weir count	Weir site #1, estimates believed low due to low discharge and timing	Barrett (1973a)
	1973	9/14		200				Aerial count, Super Cub		Barrett (1973a)
	1973			295				Aerial count, Super Cub	Peak survey count	Barrett (1973a)
	1974	8/26		35	15			Aerial count, Super Cub		Barrett (1975a)
	1974	9/09		64	20			Aerial count, Super Cub		Barrett (1975a)
	1974	10/03		0	0	0	0	Aerial count, Super Cub		Barrett (1975a)
	1974	7/18-8/17		956	1		3	Weir count	Escapement count (Weir Sites #1 & #2)	Barrett (1975a)
	1975	8/29		0	0	0	0	Aerial count, Super Cub		Friese (1976a)
	1975	7/26-8/15		2027		2	76	Weir count	Escapement count (weir)	Friese (1976a)
	1976	8/17		900			20			ADF&G (1982)
	1976	8/26		170	55					ADF&G (1982)
	1976	9/14		120						ADF&G (1982)
	1976			344					Peak survey count	ADF&G (1982)
	1977	8/24		127						ADF&G (1982)
	1979	9/07		1000	200					ADF&G (1982)
	1981	9/04		5100						ADF&G (1982)
	1983	9/06		12000			8		12,000+ chinook	Marcuson (pers. comm.)
	~~1984~~	~~8/28~~		~~1500~~						~~ADF&G (1985c)-YENONE.TAB~~
	1984	9/04		6100						ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3205-4050-0010										
Shell Lake	Hist								Significant number of sockeye	
	1972	7/28		0	0	0	0	Ground survey		Barrett (1973a)
	1972	8/29		640				Aerial count, Super Cub		Barrett (1973a)
	1973	9/04		115				Aerial count, Super Cub		Barrett (1973a)
	1973			295				Aerial count, Super Cub		Barrett (1973a)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1973	9/14		95				Aerial count, Super Cub		Barrett (1973a)
	1974	8/26		0	0	0	0	Aerial count, Super Cub		Barrett (1975a)
	1974	9/09		20				Aerial count, Super Cub		Barrett (1975a)
	1974	10/03		5				Aerial count, Super Cub		Barrett (1975a)
	1975	8/29		251				Aerial count, Super Cub		Friese (1976a)
	1976			344				Aerial count	Peak count	Friese (1976b)
	1976	8/26		194	55					ADF&G (1982)
	1976	9/14		309						ADF&G (1982)
	1977		0	52	0	0	0	Sport Fish Harvest Census	Angling, 566 days fished	Mills (1979)
	1977	8/24		172						ADF&G (1982)
	1977	8/26		194						ADF&G (1982)
	1977	9/01		247				Aerial count		Nemtvedt et al. (1979)
	1978		0	28	0	0	0	Sport Fish Harvest Census	Angling, 302 days fished	Mills (1980)
	1978	8/24		127						Tarbox & Sanders (1980)
	1979		0	94	0	0	0	Sport Fish Harvest Census	Angling, 263 days fished	Mills (1981a)
	1979			1480						Tarbox & Sanders (1980)
	1979	9/07		480						ADF&G (1982)
	1980		0	198	0	0	0	Sport Fish Harvest Census	Angling, 414 days fished	Mills (1981b)
	1980			5800						Tarbox & Sanders (1980)
	1980	8/22		4800					Includes outlet	ADF&G (1982)
	1980	9/11		5500					Includes outlet	ADF&G (1982)
	1981								Data combined into Lakes category	Mills (1982)
	1981	9/04		2500					Shell Creek	ADF&G (1985c)-YENONE.TAB
	1981	9/04		2600					Includes 100 carcasses	ADF&G (1985c)-YENONE.TAB
	1981	9/08		6050						Tarbox et al. (1983)
	1981	9/08		3500					Shell Creek	ADF&G (1985c)-YENONE.TAB
	1981	9/08		2550					Includes 50 carcasses	ADF&G (1985c)-YENONE.TAB
	1981	10/02		3500						ADF&G (1982)
	1982		0	157	0	0	0	Sport Fish Harvest Census	Angling, 444 days fished	Mills (1983)
	1982	8/23		51				- Poor survey conditions		ADF&G (1985c)-YENONE.TAB
	1982	8/26		2725					Creek count, includes 1,400 carcasses	ADF&G (1985c)-YENONE.TAB
	1982	8/27		3150						ADF&G (1985c)-YENONE.TAB
	1983		0	315	0	0	0	Sport Fish Harvest Census	Angling, 913 days fished	Mills (1984)
	1983	7/21		2810					1,000 fish at outlet of Shell Creek	ADF&G (1985c)-YENONE.TAB
	1984	8/28		4920						ADF&G (1985c)-YENONE.TAB
	1984	9/04		2500						ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3205-4053										
Talachulitna River	Hist								Max. count 52,900 sockeye (1962); 30,000 coho (1952); 1,522 chums (1956) 1,000,000 pinks (1960)	
	1958	6/25	0						Suspected aerial count	Kubik (1964)
	1961	6/29	32					Aerial count, fixed wing	Peak count	Stefanich (1962)
	1962	7/27	78					Aerial count		Kubik (1963)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1962		1		8			Creel census		Kubik (1963)
	1963	7/29	56					Aerial count		Kubik (1964)
	1963		4					Creel census		Kubik (1964)
	1964	7/28	95					Aerial count		Kubik (1965)
	1965	8/07	69					Aerial count		Kubik (1966)
	1966		15					Aerial count		Kubik (1967)
	1972		405					Aerial count		Kubik (1973)
	1972			6501				Aerial count	Total count - entire drainage	Friese (1976a)
	1973			12362				Aerial count	Total count - entire drainage	Friese (1976a)
	1974			6816				Aerial count	Total count - entire drainage	Friese (1976a)
	1975			5105				Aerial count	Total count - entire drainage	Friese (1976a)
	1976			13210				Aerial count	Total count - entire drainage	Nemtvedt et al. (1979)
	1977			25935				Aerial count	Total count - entire drainage	Nemtvedt et al. (1979)
	1978			14308				Aerial count	Total count - entire drainage	Waltemyer et al. (1980)
	1979			11696				Aerial count	Total count - entire drainage	Tarbox et al. (1983)
	1980			21125				Aerial count	Total count - entire drainage	Tarbox et al. (1983)
	1981			9926				Aerial count	Total count - entire drainage	Tarbox et al. (1983)
	1972	7/10-8/14	405	15730	454	12783	202915	Observation towers	Tower 1 only, (7/10-7/17) Tower 1 & 2, (7/18-8/14) Barrett (1973a) doubted the accuracy of the 1972 sockeye & chum estimates due to possible species I.D. problems	Barrett (1973a)
	1972	9/16		30				Aerial count, helicopter	Upper river	Barrett (1973a)
	1972		405					Observation tower		Kubik & Trent (1974)
	1973	7/05		78					Upper river	ADF&G (1982)
	1973	7/5-8/14	291	19727	8	707	92496	Observation tower	Tower 2 only, Partial estimates for chinook & coho due to timing of sampling	Barrett (1973a)
	1973				50	6200			Spawners observed below Tower 2	Barrett (1973a)
	1973	8/17		26				Aerial count, helicopter	Talachulitna Lake	Barrett (1973a)
	1973	8/17		510				Aerial count, Super Cub	Upper river	Barrett (1973a)
	1973	9/05		231				Aerial count, helicopter	Talachulitna Lake	Barrett (1973a)
	1973	9/05		78				Aerial count, helicopter	Upper river	Barrett (1973a)
	1973	9/28		61				Aerial count, helicopter	Talachulitna Lake	Barrett (1973a)
	1973	9/28		65	6	10		Aerial count, helicopter	Upper river	Barrett (1973a)
	1973		333					Observation tower		Kubik & Trent (1974)
	1974	7/6-8/14		15976	193	415	50496	Observation tower	Tower 3, Partial estimates for coho due to timing of sampling	Barrett (1975a)
	1974	8/28		55				Aerial count, helicopter		Barrett (1975a)
	1974	9/10		102				Aerial count, helicopter		Barrett (1975a)
	1974		303					Aerial count		Kubik & Chlupach (1975)
	1975	8/06		86						ADF&G (1982)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1975	8/29		95						ADF&G (1982)
	1975	8/29		150					Upper river	ADF&G (1982)
	1975		120					Aerial count		Kubik & Riis (1976)
	1976	8/17		10249			30000			ADF&G (1982)
	1976	8/25		20550					Includes Talachulitna Lake and and Judd Spring #2	ADF&G (1982)
	1976	8/26		10553					Included Judd Lake	ADF&G (1982)
	1976		1319					Aerial count		Kubik & Wadman (1977)
	1977		224	457	346	37	539	Sport Fish Harvest Census	Angling, 1342 days fished	Mills (1979)
	1977		1856					Aerial count		Kubik & Wadman (1978)
	1978		12	141	88	234	31	Sport Fish Harvest Census	Angling, 732 days fished	Mills (1980)
	1978		1375					Aerial count		Kubik & Wadman (1979)
	1979		1648					Aerial count		Kubik & Delaney (1980)
	1979		293	47	125	55	100	Sport Fish Harvest Census	Angling, 2185 days fished	Mills (1981a)
	1979	8/31		2699						ADF&G (1982)
	1980		121	112	491	17	276	Sport Fish Harvest Census	Angling, 2542 days fished	Mills (1981b)
	1981		57	172	240	0	29	Sport Fish Harvest Census	Angling, 1378 days fished	Mills (1982)
	1981	7/29-7/30	2129					Aerial count, helicopter		ADF&G (1981)
	1981	9/08		200					Upper river count	ADF&G (1985c)-YENONE.TAB
	1981	10/02		35					Upper river count, includes 25 carcasses	ADF&G (1985c)-YENONE.TAB
	1981		2025					Aerial count		Hepler & Kubik (1982)
	1982		0	63	524	0	220	Sport Fish Harvest Census	Angling, 1911 days fished	Mills (1983)
	1982	8/01	3101					Aerial count, helicopter - Excellent		ADF&G (1983a)
	1982	8/23		1000			104000		Upper river survey , includes 4,000 pinks carcasses	ADF&G (1985c)-YENONE.TAB
	1983		336	41	84	0	0	Sport Fish Harvest Census	Angling, 4566 days fished	Mills (1984)
	1983	7/29	10014					Aerial count, helicopter - Excellent		Barrett et al. (1984)
	1983		312					Creel census	1198 man/days fished	Hepler & Bentz (1984)
	1983	8/27		1650						ADF&G (1985c)-YENONE.TAB
	1984	8/28		250			6000			ADF&G (1985c)-YENONE.TAB
	1984	9/04					600			ADF&G (1985c)-YENONE.TAB
	1984	7/31	6138					Aerial count, helicopter - Poor		Barrett et al. (1985)
	1984		320					Creel census	1300 man/days fished	Hepler & Bentz (1985)
247-41-10200-2053-3205-4053-5009										
247-41-10200-2053-3205-4053-5028										
Thursday Creek	1961	6/17	0					Aerial count		Kubik (1964)
	1962	8/02	0					Aerial count		Kubik (1964)
	1963	8/14	0					Aerial count		Kubik (1964)
247-41-10200-2053-3205-4053-5038										
Deep Creek										

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2053-3205-4053-5046										
Friday Creek	1961	7/06	0					Aerial count		Kubik (1964)
	1962	6/02	0					Aerial count		Kubik (1964)
	1963	8/14	0					Aerial count		Kubik (1964)
	1980	7/26	82							ADF&G (1982)
247-41-10200-2053-3205-4053-5046-6011										
Saturday Creek										
247-41-10200-2053-3205-4053-5046-6020										
247-41-10200-2053-3205-4053-5053										
247-41-10200-2053-3205-4053-5066										
Talachulitna Creek	Hist								Max. count 1,199 sockeye (1956)	
	1958	8/29	0						Suspected aerial count	Kubik (1964)
	1962	6/27	12					Aerial count	Peak	Kubik (1963)
	1972	9/16		390				Aerial count, helicopter		Barrett (1973a)
	1973	8/17		270				Aerial count, Super Cub		Barrett (1973a)
	1973	9/05		960				Aerial count, helicopter		Barrett (1973a)
	1973	9/28		1350				Aerial count, helicopter		Barrett (1973a)
	1974	8/28		74				Aerial count, helicopter		Barrett (1975a)
	1974	9/10		205				Aerial count, helicopter		Barrett (1975a)
	1975	8/29		86						ADF&G (1982)
	1981	9/08		5025					Includes 4,000 carcasses	ADF&G (1985c)-YENONE.TAB
	1981	10/02		100						ADF&G (1985c)-YENONE.TAB
	1982	8/23		6045			50		Includes 1,395 carcasses	ADF&G (1985c)-YENONE.TAB
	1983	7/21							Significant nos.of chinook & sockeye, no counts	Marcuson (pers. comm.)
	1983	8/27		2200						ADF&G (1985c)-YENONE.TAB
	1984	8/28		6000						ADF&G (1985c)-YENONE.TAB
	1984	9/04		4430						ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3205-4053-5066-0010										
Judd Lake	Hist								~~Max. counts 100,000 sockeye (1966),~~ 10,062 pinks (1952), 56 chinook (1963) and 370 chum (1952)	
	1970	9/01		600						
	1972	9/16		4900				Aerial count, helicopter		Barrett (1973a)
	1973	8/17		5350				Aerial count, Super Cub		Barrett (1973a)
	1973	9/05		10364				Aerial count, helicopter		Barrett (1973a)
	1973	9/28		4225				Aerial count, helicopter		Barrett (1973a)
	1974	8/28		4050				Aerial count, helicopter		Barrett (1975a)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1974	9/10		5675				Aerial count, helicopter		Barrett (1975a)
	1975	8/29		4720						ADF&G (1982)
	1977		0	24	0	0	0	Sport Fish Harvest Census	Angling, 317 days fished	Mills (1979)
	1978		0	70	0	0	0	Sport Fish Harvest Census	Angling, 151 days fished	Mills (1980)
	1979		0	220	0	0	0	Sport Fish Harvest Census	Angling, 519 days fished	Mills (1981a)
	1980		0	267	0	0	0	Sport Fish Harvest Census	Angling, 814 days fished	Mills (1981b)
	1981								Data combined into Lakes category	Mills (1982)
	1981	9/08		625					Includes 200 carcasses	ADF&G (1985c)-YENONE.TAB
	1981	10/02		1800					Most at Talachulitna Creek mouth	ADF&G (1985c)-YENONE.TAB
	1982								Data combined into Lakes category	Mills (1983)
	1983		0	0	0	0	0	Sport Fish Harvest Census	Angling, 155 days fished	Mills (1984)
	1983	8/27		440						ADF&G (1985c)-YENONE.TAB
	1984	8/28		12500						ADF&G (1985c)-YENONE.TAB
	1984	9/04		18104						ADF&G (1985c)-YENONE.TAB
(No location code assigned) Judd Springs									Note - TYONEK C-5, located in the marshy area on the western shore of Judd Lake, no map of its location found	Davis (pers. comm.)
	1981	10/02		3000					Includes 500 carcasses	ADF&G (1985c)-YENONE.TAB
	1982	8/23		200						ADF&G (1985c)-YENONE.TAB
(No location code assigned) North Judd Springs									Note - TYONEK C-5, located in the marshy area on the western shore of Judd Lake, no map of its location found	Davis (pers. comm.)
	1981	9/08		1000					Carcass count	ADF&G (1985c)-YENONE.TAB
	1981	10/02		200						ADF&G (1985c)-YENONE.TAB
	1982	8/23		400						ADF&G (1985c)-YENONE.TAB
(No location code assigned) South Judd Springs									Note - TYONEK C-5, located in the marshy area on the western shore of Judd Lake, no map of its location found	Davis (pers. comm.)
	1981	9/08		1000					Carcass count	ADF&G (1985c)-YENONE.TAB
	1981	10/02		200					Carcass count	ADF&G (1985c)-YENONE.TAB
	1982	8/23		800						ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3205-4053-5066-0020 Talachulitna Lake	1973	8/17		26				Aerial count, Super Cub		Barrett (1973a)
	1973	9/05		231				Aerial count, helicopter		Barrett (1973a)
	1973	9/28		61				Aerial count, helicopter		Barrett (1973a)
	1981	10/02		75	25				Includes 25 sockeye carcasses	ADF&G (1985c)-YENONE.TAB

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1981	9/08		101					Includes 1 carcass	ADF&G (1985c)-YENONE.TAB
	1982	8/23		125						ADF&G (1985c)-YENONE.TAB
	1983	8/27		550						ADF&G (1985c)-YENONE.TAB
	1984	8/28		600						ADF&G (1985c)-YENONE.TAB
	1984	9/04		700						ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3205-4053-5066-6012										
Trinity Creek *	1961	7/10	0					Aerial count		Kubik (1964)
	1962	8/02	0					Aerial count		Kubik (1964)
247-41-10200-2053-3205-4053-5066-6012-0010										
Trinity Lake	Hist								Max. counts 417 sockeye (1957), 6,000 pinks (1962)	
	1972	8/18		350				Ground survey	Trinity Creek	Barrett (1973a)
	1973	9/14		75					Includes Movie Lake count	Tarbox & Sanders (1980)
	1974	8/26		0				Aerial count, Super Cub		Barrett (1975a)
	1974	9/09		0				Aerial count, Super Cub		Barrett (1975a)
	1974	10/03		0				Aerial count, Super Cub		Barrett (1975a)
	1975			0				Aerial count, Super Cub		Friese (1976a)
	1976	9/14		42				Aerial count, Super Cub		Friese (1976b)
	1977	8/25		148						ADF&G (1982)
	1977	9/01		186				Aerial count	Includes Movie Lake count	Tarbox & Sanders (1980)
	1978	8/26		140	20					ADF&G (1982)
	1978			150				Aerial count	Includes Movie Lake count	Tarbox & Sanders (1980)
	1979	9/07		195					Includes Movie Lake count	Tarbox & Sanders (1980)
	1980	8/22		50						ADF&G (1982)
	1980	9/11		200					Includes Movie Lake count	Tarbox & Sanders (1980)
	1981	9/04		500						Tarbox et al. (1983)
	1982			138						ADF&G (1985c)-YENONE.TAB
	1983	8/27		230						ADF&G (1985c)-YENONE.TAB
	1984	8/28		280						ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3205-4053-5066-6012-0020										
Movie Lake	1983	8/27		30						ADF&G (1985c)-YENONE.TAB
	1984	8/28		640					Includes 200 fish at stream mouth	ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3205-4053-5066-6026										
247-41-10200-2053-3205-4053-5066-6034										
Judd Springs #2 *	Hist								Max. count 2,658 sockeye (1956)	
	1972	9/16		180				Aerial count, helicopter		Barrett (1973a)
	1973	8/17	0	0	0	0	0	Aerial count, Super Cub		Barrett (1973a)
	1973	9/05		335				Aerial count, helicopter		Barrett (1973a)
	1973	9/28		75				Aerial count, helicopter		Barrett (1973a)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1974	8/29	0	0	0	0	0	Aerial count, helicopter		Barrett (1975a)
	1974	9/10		82				Aerial count, helicopter		Barrett (1975a)
	1975	8/29	0	0	0	0	0			ADF&G (1982)
	1983	8/27		3900						ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3205-4053-5066-6045										
Upper Talachulitna Creek *	1981	9/08		175						ADF&G (1985c)-YENONE.TAB
	1981	10/02		25	100					ADF&G (1985c)-YENONE.TAB
	1982	8/23		990					Includes 90 carcassas	ADF&G (1985c)-YENONE.TAB
	1983	8/27		850						ADF&G (1985c)-YENONE.TAB
	1984	8/28		4500						ADF&G (1985c)-YENONE.TAB
	1984	9/04		3902						ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3205-4053-5072										
247-41-10200-2053-3205-4057										
Quartz Creek	1973	9/14		250						ADF&G (1982)
	1976	8/17		60			35			ADF&G (1982)
	1976			150					Peak survey count	ADF&G (1982)
	1977			450					Peak survey count	Namtvedt et al. (1979)
	1977		8					Aerial count		Kubik & Wadman (1978)
	1978			125					Glacially occluded	Waltemyer et al. (1980)
	1979	8/26	5	480						ADF&G (1982)
	1981	9/04		1210	50					ADF&G (1982)
	1981	7/29	8					Aerial count, helicopter - Good		ADF&G (1981)
	1982								Pinks present	Kubik (pers. comm.)
247-41-10200-2053-3205-4064										
247-41-10200-2053-3205-4067-5020										
Canyon Creek *	1962	7/27	23					Aerial count	Peak	Kubik (1963)
(Skwentna River)	1963	7/13	0					Aerial count		Kubik (1964)
	1972		8					Aerial count		Kubik (1973)
	1973		29					Aerial count		Kubik & Trent (1974)
	1974		10					Aerial count		Kubik & Chlupach (1975)
	1975		2					Aerial count		Kubik & Riis (1976)
	1976		44					Aerial count		Kubik & Wadman (1977)
	1977		135					Aerial count		Kubik & Wadman (1978)
	1981	7/29	84					Aerial count, helicopter - Good		ADF&G (1981)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1982								Chinook and pink present	Kubik (pers. comm.)
	1983	7/13	575					Aerial count, helicopter - Excellent		Barrett et al. (1984)
247-41-10200-2053-3205-4067 *									Note - Trib. of Canyon Creek by Dickason Mt. , TYONEK D-5	
Contact Creek *	1982		100				1000		Chum present	Kubik (pers. comm.)
247-41-10200-2053-3205-4070										
247-41-10200-2053-3205-4077 *										
Hayes River *										
247-41-10200-2053-3205-4077-5023 *									Note -- TYONEK D-6,north of Dickason Mt.	
Dickason Creek *	1977		4					Aerial count		Kubik & Wadman (1978)
	1982								Chinook and pink present	Kubik (pers. comm.)
247-41-10200-2053-3205-4078										
247-41-10200-2053-3205-4082										
247-41-10200-2053-3205-4082-5003										
247-41-10200-2053-3205-4099										
247-41-10200-2053-3205-4099-0010										
Red Salmon Lake	1973	9/14		250				Aerial count, Super Cub	Peak survey count	Barrett (1973a)
	1974	9/09		160				Aerial count, Super Cub	Peak survey count	Barrett (1975a)
	1975	8/29		142				Aerial count, Super Cub	Peak survey count	Friese (1976a)
	1976	9/02		376	40			Aerial count, Super Cub		Friese (1976b)
	1976	9/14		35						ADF&G (1982)
	1977	8/24		150	1					ADF&G (1982)
	1977	9/01		372				Aerial count	Peak survey count	Namtvedt et al. (1979)
	1978	8/09		200						ADF&G (1982)
	1978	8/24		235				Aerial count		Waltemyer et al. (1980)
	1978	8/24			230					ADF&G (1985c)-YENONE.TAB
	1979			480						Tarbox & Sanders (1980)
	1980	8/22		1100						Tarbox & Sanders (1980)
	1980	8/22					900			ADF&G (1985c)-YENONE.TAB
	1981	9/04		1212						Tarbox et al. (1983)
	1982	8/26		1000						ADF&G (1985c)-YENONE.TAB
	1983	7/22		63						ADF&G (1985c)-YENONE.TAB
	1983	8/25		150						ADF&G (1985c)-YENONE.TAB
	1984	8/08		100		800				ADF&G (1985c)-YENONE.TAB
	1984	8/15		142		725				ADF&G (1985c)-YENONE.TAB

Appendix Table I-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1984	8/26		470		1050				ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3205-4112										
Happy River	1982								Chinook and pink present	Kubik (pers. comm.)
247-41-10200-2053-3205-4112-5037										
Canyon Creek (Happy River)	1982								Pinks present	Kubik (pers. comm.)
247-41-10200-2053-3205-4112-5045										
Squaw Creek	1973		10					Aerial count		Kubik & Trent (1974)
247-41-10200-2053-3205-4112-5045-0010										
Puntilla Lake	1977	8/24		2100				Aerial count		Nemtvedt et al. (1979)
	1978	8/24		1105				Aerial count		Waltemyer et al. (1980)
	1979	8/26		90						Tarbox & Sanders (1980)
	1980	8/22		550						Tarbox & Sanders (1980)
	1981			200						Tarbox et al. (1983)
247-41-10200-2053-3205-4112-5049										
Indian Creek	1958	8/14	225						Suspected aerial count	Kubik (1964)
	1965	6/30	1					Test net		Kubik (1966)
	1982								Chinook and chum present	Kubik (pers. comm.)
247-41-10200-2053-3205-4112-5050 *									Note - TALK A-6	
Moose Creek *	1982			600						Kubik (pers. comm.)
247-41-10200-2053-3205-4130 *									Note - TYONEK D-7	
Portage Creek * (Skwentna River)	1958	7/07	2						Suspected aerial count	Kubik (1964)
247-41-10200-2053-3205-4282 *									Note - TYONEK C-8	
Crystal Creek *	1972	8/29		33						ADF&G (1982)
	1972	9/06		11						ADF&G (1982)
247-41-10200-2053-3213										
Hewitt Creek	Hist								Sockeye, pink, chinook present, max. count 312 coho (1954)	
	1962	8/02	0					Aerial count		Kubik (1964)
	1972	8/23		137				Ground survey		Barrett (1973a)
	1973	8/18		29				Boat survey		Barrett (1973a)
	1973	8/29		49				Boat survey		Barrett (1973a)
	1973	9/12		67				Boat survey		Barrett (1973a)
	1974	8/27		74				Boat survey		Barrett (1973a)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1974	9/09		78				Boat survey		Barrett (1975a)
	1974	9/18		32				Boat survey		Barrett (1975a)
	1975	8/25		30				Boat survey		Friese (1976a)
	1975	9/03		30				Boat survey		Friese (1976a)
	1976	8/26		17				Boat survey		Friese (1976b)
	1976	9/19		236				Boat survey	Combined with Whiskey Lake	Friese (1976b)
	1977	8/28		14			17			ADF&G (1982)
	1977			8						Namtvedt et al. (1979)
	1978	8/29		93						Waltemyer et al. (1980)
	1979	9/07		40						ADF&G (1982)
	1979	8/26		20						ADF&G (1982)
	1980	8/22		50						ADF&G (1982)
	1980	9/11		50	50					ADF&G (1982)
	1982								Chinook and pink present	Kubik (pers. comm.)
	1983	7/22	0	0	0	0	0		Cook Inlet Aquaculture Association	Marcuson (pers. comm.)
	1984	8/28		44						ADF&G (1985c)-YENONE.TAB
	1984	9/04		262						ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3213-0010										
Whiskey Lake	Hist								Max. count 1,000 sockeye (1953)	
	1972	8/29		20				Aerial count, Super Cub		Barrett (1973a)
	1973	9/11		1				Boat survey		Barrett (1973a)
	1974	8/26		49				Boat survey		Barrett (1975a)
	1974	9/09		216				Boat survey		Barrett (1975a)
	1974	9/18		118				Boat survey		Barrett (1975a)
	1975	9/03		62				Boat survey		Friese (1976a)
	1976	8/26		150				Boat survey		Friese (1976b)
	1976			17				Boat survey		Friese (1976b)
	1977		0	99	0	0	0	Sport Fish Harvest Census	Angling, 287 days fished	Mills (1979)
	1977			0						Namtvedt et al. (1979)
	1978		0	28	0	0	0	Sport Fish Harvest Census	Angling, 129 days fished	Mills (1980)
	1978			221						Waltemyer et al. (1980)
	1978	8/28		8						ADF&G (1982)
	1978	9/28		192	2					ADF&G (1982)
	1979		0	252	0	0	0	Sport Fish Harvest Census	Angling, 189 days fished	Mills (1981a)
	1979			221					Peak survey count	ADF&G (1982)
	1979	8/26		190						ADF&G (1982)
	1979	9/07		110						ADF&G (1982)
	1980		0	0	0	0	0	Sport Fish Harvest Census	Angling, 29 days fished	Mills (1981b)
	1980	8/22		425						ADF&G (1982)
	1980	9/11		300					Sport fish harvest	ADF&G (1982)
	1981								Data combined into Lakes category	Mills (1982)
	1982		0	283	0	0	0	Sport Fish Harvest Census	Angling, 171 days fished	Mills (1983)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1983								Data combined into Lakes category	Mills (1984)
	1983	8/27		2425						ADF&G (1985c)-YENONE.TAB
	1984	8/28		1520					Includes stream (marshy)	ADF&G (1985c)-YENONE.TAB
	1984	9/04		4301					Includes stream (marshy)	ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3213-4063 *									Note - not on USGS maps, overgrown, not surveyed in '84 or '85 TYONEK D-4	
Christmas Tree Creek *	Hist								Sockeye present	
	1972	8/29		50				Aerial count, Super Cub		Barrett (1973a)
	1973	8/17		0				Boat survey		Barrett (1973a)
	1973	8/28		29				Boat survey		Barrett (1973a)
	1973	9/11		40				Boat survey		Barrett (1973a)
	1974	8/26		49				Boat survey		Barrett (1975a)
	1974	9/09		56				Boat survey		Barrett (1975a)
	1974	9/18		80				Boat survey		Barrett (1975a)
	1975	8/24		84				Boat survey		Friese (1976a)
	1975	9/03		55				Boat survey		Friese (1976a)
	1976	8/26		56				Boat survey		Friese (1976b)
	1976	9/09		54						ADF&G (1982)
	1977	8/28		30						Namtvedt et al. (1979)
	1978			67						Waltemyer et al. (1980)
	1980	8/22		0						ADF&G (1982)
	1980	9/11		50						ADF&G (1982)
247-41-10200-2053-3213-4066 *									Note - called Whiskey Creek in '84 - '85 surveys TYONEK D-4	
Huckleberry Creek *	Hist								Max. count 434 sockeye (1953)	
	1972	8/23	1					Ground survey		Barrett (1973a)
	1973	8/17		110				Boat survey		Barrett (1973a)
	1973	8/28		389				Boat survey		Barrett (1973a)
	1973	9/11		511				Boat survey		Barrett (1973a)
	1974	8/27		79				Boat survey		Barrett (1975a)
	1974	9/18		129				Boat survey		Barrett (1975a)
	1974	9/19		369				Boat survey		Barrett (1975a)
	1975	8/29	328					Boat survey		Friese (1976a)
	1975	9/03		263						ADF&G (1982)
	1976			182				Boat survey	Peak survey count	Friese (1976b)
	1977			25					Peak survey count	Namtvedt et al. (1979)
	1978			23						Waltemyer et al. (1980)
	1978	8/29	311						Combined with Whiskey Lake count	ADF&G (1982)
	1979	8/26	500							ADF&G (1982)
	1980	8/22	1000							ADF&G (1982)

Appendix Table I-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1980	9/11	1750							ADF&G (1982)
247-41-10200-2053-3213-4050										
247-41-10200-2053-3213-4050-0010										
Hewitt Lake	Hist								Max. count 3060 sockeye (1956)	
	1972	8/23		990				Boat survey		Barrett (1973a)
	1972	8/29		290				Aerial count, Super Cub		Barrett (1973a)
	1973	8/29		134				Boat survey		Barrett (1973a)
	1973	9/12		453				Boat survey		Barrett (1973a)
	1973	8/18		69				Boat survey		Barrett (1973a)
	1974	8/27		151				Boat survey		Barrett (1975a)
	1974	9/10		204				Boat survey		Barrett (1975a)
	1974	9/18		288				Boat survey		Barrett (1975a)
	1975	8/25		113						ADF&G (1982)
	1975	9/04		247				Boat survey		Friese (1976a)
	1976	8/26		419						ADF&G (1982)
	1976	9/10		1984						ADF&G (1982)
	1976			2017				Boat survey	Peak survey count	Friese (1976b)
	1977		0	43	0	0	0	Sport Fish Harvest Census	Angling, 436 days fished	Mills (1979)
	1977	8/29		729			1		Pink data source unknown	Naatvedt et al. (1979)
	1978		0	0	0	0	0	Sport Fish Harvest Census	Angling, 172 days fished	Mills (1980)
	1978			1594					Peak survey count	Waltemyer et al. (1980)
	1978	8/29		225						ADF&G (1982)
	1979		0	0	0	0	0	Sport Fish Harvest Census	Angling, 613 days fished	Mills (1981a)
	1979	8/26		275						ADF&G (1982)
	1979	9/07		415						ADF&G (1982)
	1980		0	0	0	0	0	Sport Fish Harvest Census	Angling, 471 days fished	Mills (1981b)
	1980	8/22		1205					Hewit & Whiskey Lakes combined	Tarbox et al. (1983)
	1980	9/11		1100						ADF&G (1982)
	1981								Data combined into Lakes category	Mills (1982)
	1981	9/04		3250					Hewitt and Whiskey Lakes combined	Tarbox et al. (1983)
	1981	10/02		9850					Hewitt and Whiskey Lakes combined, 60% carcasses	Tarbox et al. (1983)
	1982		0	0	0	0	0	Sport Fish Harvest Census	Angling, 358 days fished	Mills (1983)
	1983								Data combined into Lakes category	Mills (1984)
	1984	8/28		1756					Hewitt and Whiskey Lakes combined	ADF&G (1985c)-YENONE.TAB
	1984	9/04		6593					Hewitt and Whiskey Lakes combined	ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3220										
Donkey Creek Slough										
247-41-10200-2053-3220-4030										
Donkey Creek	1963	7/06	0					Aerial count		Kubik (1964)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1966		3					Test net		Kubik (1967)
	1973		25					Aerial count		Kubik & Trent (1974)
	1977		159					Aerial count		Kubik & Wadman (1978)
	1978		163					Aerial count		Kubik & Wadman (1979)
	1982		100	1000			5000			Kubik (pers. comm.)
247-41-10200-2053-3220-4030-5030										
247-41-10200-2053-3220-4030-5030-0010 Donkey Creek Lake										
247-41-10200-2053-3223 Johnson Creek	1958	7/21	0						Suspected aerial count	Kubik (1964)
	1962	7/27	0					Aerial count		Kubik (1964)
	1963	7/03	0					Aerial count		Kubik (1964)
	1982								Chinook, coho, & chum present	Kubik (pers. comm.)
247-41-10200-2053-3225-4015 Red Creek	Hist								Chinook present	
	1958	7/21	27						Suspected aerial count	Kubik (1964)
	1962	7/27	11					Aerial count		Kubik (1963)
	1977		1511					Aerial count		Kubik & Wadman (1978)
	1978	8/24	0	0	0	0	0			ADF&G (1982)
	1978		385					Aerial count		Kubik & Wadman (1979)
	1981	7/29	749					Aerial count, helicopter - Good		ADF&G (1981)
	1982						5100			Kubik (pers. comm.)
247-41-10200-2053-3225-4035										
247-41-10200-2053-3229 Kichatna River	1963	7/03	0					Aerial count		Kubik (1964)
	1966		4					Test net		Kubik (1967)
	1977		120							ADF&G (1982)
	1982		1000		10000		10000			Kubik (pers. comm.)
247-41-10200-2053-3229-4002 Bagnan Creek *	1965	6/25	13					Test net		Kubik (1966)
	1981								Chinook & pink present	Kubik (pers. comm.)
247-41-10200-2053-3229-4002-5022										
247-41-10200-2053-3229-4009									Note - TALK A-5, Unnamed (Kichatna R)	
	1977		120					Aerial count		Kubik & Wadman (1978)

Appendix Table I-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2053-3229-4050										
Nakochna River	1973		12					Aerial count		Kubik & Trent (1974)
	1974		2					Aerial count		Kubik & Chlupach (1975)
	1982		100				1000			Kubik (pers. comm.)
247-41-10200-2053-3229-4075										
247-41-10200-2053-3229-4079										
247-41-10200-2053-3229-4087										
247-41-10200-2053-3229-4099										
247-41-10200-2053-3229-4099-5007										
247-41-10200-2053-3229-4110										
247-41-10200-2053-3238										
Clearwater Creek	1962	7/27	13					Aerial count	Peak	Kubik (1963)
	1963	7/06	0					Aerial count		Kubik (1964)
	1973		6					Aerial count		Kubik & Trent (1974)
	1977		47					Aerial count		Kubik & Wadman (1978)
	1982		100				5000			Kubik (pers. comm.)
247-41-10200-2053-3249										
West Fork Yentna River	1976			550						Namtvedt et al. (1979)
	1977			4000						Namtvedt et al. (1979)
	1978			6000						Waltemyer et al. (1980)
	1979			456					Glacially occluded	Tarbox & Sanders (1980)
	1980	9/10		5500					Includes 1,630 carcasses	Tarbox & Sanders (1980)
	1981	8/27		9000					Includes 1,000 carcassas	Tarbox et al. (1983)
	1982	8/20		10340			210			ADF&G (1985c)-YENONE.TAB
	1983	8/25		630					Upstream from Fourth of July Creek	ADF&G (1985c)-YENONE.TAB
	1983	9/07		9660						ADF&G (1985c)-YENONE.TAB
	1984	8/28		5700						ADF&G (1985c)-YENONE.TAB
	1984	9/04		6330						ADF&G (1985c)-YENONE.TAB
247-41-10200-2053-3249-4101										
247-41-10200-2053-3250										
East Fort Yentna River										
247-41-10200-2053-3250-4008 *									Note - TALK B-4	
Rich Creek *	1982								Few pinks	Kubik (pers. comm.)

Appendix Table 1-2 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2053-3250-401B * Flag Creek *	1982								Note - TALK B-4 Pinks present	Kubik (pers. comm.)

* - These new location codes and names were submitted to the editors of the Anadromous Waters Catalog in October 1985. Upon varification these changes will be included in the next printing of the Anadromous Waters Catalog.

Appendix Table 1-3. Escapement survey counts of adult salmon in the Talkeetna River drainage.

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2370										
Talkeetna River	Hist								Large number chums (1953)	
	1976	8/23				410				ADF&G (1982)
	1981	7/29-7/30	2129					Aerial count, helicopter - Good		ADF&G (1981)
247-41-10200-2370-3041										
Chunilna Creek / Clear Creek	Hist								Max. counts 349 chinook (1964), coho present, 10,000 chums (1953), 75,000 pinks (1954)	
	1961	7/14	300					Ground survey		Stefanich (1962)
	1961		4					Creel census	4 hours fished	Stefanich (1962)
	1962	7/11	3					Aerial count	Peak	Kubik (1963)
	1963	7/29	38					Aerial count		Kubik (1964)
	1964	7/21	319					Boat survey		Kubik (1965)
	1964	8/05	9					Aerial count		Kubik (1965)
	1965	8/06	8					Aerial count		Kubik (1966)
	1966		300					Aerial count	Total escapement estimate	Kubik (1967)
	1966		4					Punch card		Kubik (1967)
	1967		1					Punch card		Kubik (1968)
	1968		1000					Aerial count		Kubik (1969)
	1969		375					Aerial count		Kubik (1970)
	1969		125						Excellent observation - TRM 0.0-2.0	Stewart & Flagg (1969)
	1970		5					Punch card		Kubik (1971)
	1970		58					Aerial count - Poor	High water	Kubik (1971)
	1970		72	7000						ADF&G (1982)
	1971		5					Aerial count - Poor		Watsjold (1972)
	1972	7/30	91					Aerial count		Watsjold (1973)
	1973	7/25	245							ADF&G (1982)
	1973	7/28	292					Aerial count		Watsjold (1974)
	1974	7/27	236							ADF&G (1982)
	1974	7/31	283					Aerial count, heliocopter		Watsjold (1975)
	1974		823							ADF&G (1982)
	1975	7/28	101					Aerial count, heliocopter		Watsjold (1976)
	1976	7/16	1220							ADF&G (1982)
	1976	7/23	1237					Aerial count, heliocopter		Watsjold (1977)
	1976			30					Includes Moma & Popa Bear Lakes	Tarbox & Sanders (1980)
	1977			75					Includes Moma & Popa Bear Lakes	Tarbox & Sanders (1980)
	1977		25	334	1070	146	1314	Sport Fish Harvest Census	Angling, 3163 days fished	Mills (1979)
	1977		769					Aerial count, fixed wing		Watsjold (1978)
	1978		12	28	2200	1912	2074	Sport Fish Harvest Census	Angling, 5040 days fished	Mills (1980)
	1978			310					Includes Moma & Popa Bear Lakes	Tarbox & Sanders (1980)
	1978		957					Aerial count, heliocopter		Watsjold (1979)
	1979			365					Includes Moma & Popa Bear Lakes	Tarbox & Sanders (1980)

Appendix Table 1-3 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1979		312	31	1248	355	645	Sport Fish Harvest Census	Angling, 5125 days fished	Mills (1981a)
	1979		358					Creel census	1160 man/days fished	Watsjold (1980)
	1979		864					Aerial count, helicopter - Poor		Watsjold (1980)
	1980			320					Includes Moma & Popa Bear Lakes	Tarbox & Sanders (1980)
	1980		172	6	661	385	622	Sport Fish Harvest Census	Angling, 4388 days fished	Mills (1981b)
	1980		161					Creel census	801 man/days fished	Watsjold (1981)
	1980								No count - high, turbid water	Bentz (1982)
	1981		373	29	422	57	19	Sport Fish Harvest Census	Angling, 3584 days fished	Mills (1982)
	1981		340					Creel census	1300 man/days fished	Bentz (1982)
	1981		169					Suspected aerial count - Poor		Bentz (1982)
	1982		450	115	996	31	220	Sport Fish Harvest Census	Angling, 3856 days fished	Mills (1983)
	1982		441					Creel census	1764 man/days fished	Bentz (1983)
	1982	7/21	982					Aerial count, helicopter - Fair		ADF&G (1983a)
	1982				2500	7500	52100		Upper Cook Inlet (UCI) surveys	ADF&G (1985c)-TALK.TAB
	1983		934	534	836	650	73	Sport Fish Harvest Census	Angling, 7564 days fished	Mills (1984)
	1983		938							Hepler & Bentz (1984)
	1983	8/01	806					Aerial count, helicopter - Good		Barrett et al. (1984)
	1983		1048					Creel census	2799 man/days fished, Talkeetna River drainage including Clear Ck	Hepler & Bentz (1984)
	1984	7/25	1520					Aerial count, helicopter - Poor		Barrett et al. (1985)
	1984		1320					Creel census	3730 man/days fished	Hepler & Bentz (1985)
247-41-10200-2370-3041-4010										
247-41-10200-2370-3041-4010-0010									Note - All Moma Bear & Popa Bear Lake data combined.	
Mama Bear lake	1976	8/23		30	100		7700			ADF&G (1982)
	1977	9/12		75						Namtvedt et al. (1979)
	1977	9/12			23					ADF&G (1985c)-TALK.TAB
	1978	8/29		310						Waltemyer et al. (1980)
	1978	8/29			250		20250			ADF&G (1985c)-TALK.TAB
	1980	8/18		300			10000			ADF&G (1982)
	1981	8/25		450			100			ADF&G (1982)
	1982	8/23		1315	100					ADF&G (1985c)-TALK.TAB
	1984	8/26		220					Visibility poor	ADF&G (1985c)-TALK.TAB
	1984	8/30		421			2500		Pinks in stream	ADF&G (1985c)-TALK.TAB
247-41-10200-2370-3041-4010-0015 Papa Bear Lake									Note - See Moma Bear Lake	
247-41-10200-2370-3041-4080										
247-41-10200-2370-3041-4101										

Appendix Table 1-3 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2370-3041-4131										
247-41-10200-2370-3041-4180										
247-41-10200-2370-3041-4190										
247-41-10200-2370-3041-4200										
247-41-10200-2370-3041-4200-5021										
247-41-10200-2370-3041-4200-5021-6020										
247-41-10200-2370-3041-4200-5021-6021										
247-41-10200-2370-3080										
247-41-10200-2370-3080-0010										
Larson Lake	Hist								Sockeye, coho, pinks and chums present	
	1972	9/07		300				Aerial count, Super Cub		Barrett (1973a)
	1973	9/06		20				Aerial count, Super Cub	Max. count 559 sockeye (1956)	Barrett (1973a)
	1974	9/09		19				Aerial count, Super Cub		Barrett (1975a)
	1975	8/30		32						ADF&G (1982)
	1975	7/06		63				Aerial count, Super Cub		Friese (1976a)
	1975	9/13		47						ADF&G (1982)
	1976	8/23		485						ADF&G (1982)
	1976	9/02		327						ADF&G (1982)
	1976			85				Aerial count, Super Cub	Peak count	Friese (1976b)
	1977			330				Aerial count		Namtvedt et al. (1979)
	1977	8/05		50					Entire System	ADF&G (1982)
	1977	8/10		150					Entire system	ADF&G (1982)
	1977	8/16		1300					Entire system	ADF&G (1982)
	1977	8/29		2500					Entire system	ADF&G (1982)
	1977	9/12		1655					Entire system	ADF&G (1982)
	1978			117				Aerial count	Peak survey count	Waltemyer et al. (1980)
	1979	8/28		160						Tarbox & Sanders (1980)
	1980								No count	Tarbox et al. (1983)
	1981			4600						Tarbox et al. (1983)
	1981	8/25		5500						ADF&G (1982)
	1982	8/23		1200						ADF&G (1985c)-TALK.TAB
	1982			2150	41	3	5000			ADF&G (1985c)-TALK.TAB
	1983	9/07		650						ADF&G (1985c)-TALK.TAB
247-41-10200-2370-3090										
Sheep River *	1973							Aerial surveyed	Glacially occluded, no count	Watsjold (1974)

Appendix Table 1-3 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
(Name correction)										
247-41-10200-2370-3090-4049										
247-41-10200-2370-3090-4049-0010										
Rainbow Lake										
247-41-10200-2370-3171										
Disappointment Creek	1958	8/01	5						Suspected aerial count	Kubik (1964)
	1962	7/19	0					Aerial count		Kubik (1964)
	1974		20					Aerial count, fixed wing		Watsjold (1974)
247-41-10200-2370-3301										
Prairie Creek	Hist								Max. count 275 chinook (1963) sockeye present	
	1962	7/30	142					Aerial count		Kubik (1963)
	1963	8/07	275					Aerial count		Kubik (1964)
	1964	7/17	138					Aerial count		Kubik (1965)
	1965	7/11	30					Aerial count		Kubik (1966)
	1966		153					Aerial count		Kubik (1967)
	1970	7/29	675							ADF&G (1982)
	1970		820					Ground survey		Watsjold (1973)
	1971		40							ADF&G (1982)
	1972		630					Ground survey		Watsjold (1973)
	1972	8/21		202				Ground survey		Barrett (1973a)
	1973	7/29	3286							ADF&G (1982)
	1973	8/23		21				Ground survey		Barrett (1973a)
	1973	9/06		21				Ground survey		Barrett (1973a)
	1973	9/17		7				Ground survey		Barrett (1973a)
	1973		4190					Ground survey		Watsjold (1974)
	1974	7/26	1498					Ground survey		Watsjold (1975)
	1974	8/25		37				Ground survey		Barrett (1975a)
	1974	9/05		12				Ground survey		Barrett (1975a)
	1974	9/17		2				Ground survey		Barrett (1975a)
	~~1975~~	~~8/04~~	~~369~~					~~Ground survey~~		~~Watsjold (1976)~~
	1975	8/23		36						ADF&G (1982)
	1975	9/02		49	44			Ground survey		Friese (1976a)
	1975	9/26		5	12					ADF&G (1982)
	1976	7/20	6513					Ground survey		Watsjold (1977)
	1976	8/25		81	2			Ground survey		Friese (1976b)
	1976	9/03		80	36					ADF&G (1982)
	1976	9/10		60	11					ADF&G (1982)
	1976		339							ADF&G (1982)
	1977		5790					Ground survey		Watsjold (1978)

Appendix Table 1-3 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1977	8/27	9	120					Chinook data source unknown	Namtvedt et al. (1979)
	1978			120				Ground survey		Waltemyer et al. (1980)
	1978		5154					Ground survey		Watsjold (1979)
	1980								No count - high, turbid water	Bentz (1982)
	1981	7/30	1900					Aerial count, fixed wing - Poor	Less than 10% mortality at this time	ADF&G (1981)
	1981		1875							Bentz (1982)
	1982	7/31	3844					Aerial count, helicopter - Excellent		ADF&G (1983a)
	1983	7/20	871					Ground survey - Excellent		Barrett et al. (1984)
	1983		3200					Aerial count, fixed wing	Estimate based on ground & aerial counts	Barrett et al. (1984)
	1984	7/24	9000					Aerial count, fixed wing - Good		Barrett et al. (1985)
	1984	8/08		85						ADF&G (1985c)-TALK.TAB
	1984	8/15		40						ADF&G (1985c)-TALK.TAB
247-41-10200-2370-3301-0010										
247-41-10200-2370-3301-0020										
Stephan Lake	Hist								Max. count 6,500 sockeye (1951)	
	1972	8/21		38				Boat survey		Barrett (1973a)
	1972	9/07	0	0	0	0	0	Aerial count, Super Cub		Barrett (1973a)
	1972			166					Peak survey count	ADF&G (1982)
	1973	8/23		85				Boat survey		Barrett (1973a)
	1973	9/06		106				Boat survey		Barrett (1973a)
	1973	9/17		128				Boat survey		Barrett (1973a)
	1973			234					Peak survey count	ADF&G (1982)
	1974	8/25		13				Boat survey		Barrett (1975a)
	1974	9/05		18				Boat survey		Barrett (1975a)
	1974	9/17		27				Boat survey		Barrett (1975a)
	1974			78					Peak survey count	ADF&G (1982)
	1975	8/24		124						ADF&G (1982)
	1975	9/03		155						ADF&G (1982)
	1975	9/27		136						ADF&G (1982)
	1975			212				Boat survey	Peak survey count	Friese (1976a)
	1976	8/25		197						ADF&G (1982)
	1976	9/10		346	11					ADF&G (1982)
	1976			381				Boat survey	Peak survey count	Friese (1976b)
	1977	8/27		419					Peak survey count	Namtvedt et al. (1979)
	1978	9/12		1022	2					Waltemyer et al. (1980)
	1980	8/18		220					Includes Praire Ck & Murder Lakes	Tarbox et al. (1983)
	1981	8/25		475					Includes Praire Ck & Murder Lakes	Tarbox et al. (1983)
	1983	8/23	0	0	0	0	0		No counts, bad weather	ADF&G (1985c)-TALK.TAB
	1984	8/08		0					Visibility poor	ADF&G (1985c)-TALK.TAB
	1984	8/15		150					Includes 140 fish in Murder Lake	ADF&G (1985c)-TALK.TAB

Appendix Table 1-3 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2370-3301-4021										
247-41-10200-2370-3301-4034										
247-41-10200-2370-3301-4044										
247-41-10200-2370-3320										
247-41-10200-2370-3328										
247-41-10200-2370-3332										
247-41-10200-2370-3340										
247-41-10200-2370-3350										

Appendix Table 1-4. Escapement survey counts of adult salmon in the Chulitna River drainage.

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2381										
Chulitna River	Hist								Chinook, coho, pinks and chinook	
	1958	7/11	3						Suspected aerial count, peak	Kubik (1964)
	1973		42					Aerial count, helicopter	East Fork	Watsjold (1974)
	1973		219					Aerial count, helicopter	West Fork	Watsjold (1974)
	1976	7/23	124					Aerial count, fixed wing		Watsjold (1977)
	1977		229					Aerial count, fixed wing		Watsjold (1978)
	1978		62					Aerial count, fixed wing		Watsjold (1979)
	1979								No count conducted	Watsjold (1980)
	1980								No count - high, turbid water	Bentz (1982)
	1981								No count - high, turbid water	Bentz (1982)
	1982	8/12	100					Aerial count, helicopter - Excellent		ADF&G (1981)
	1983		213							Hepler & Bentz (1984)
	1984	7/24	4191					Boat survey, raft - Excellent		Barrett et al. (1985)
	1984	8/12	1036					Boat survey, raft - Excellent		Barrett et al. (1985)
247-41-10200-2381-3051										
247-41-10200-2381-3090										
247-41-10200-2381-3130										
Troublesome Creek	Hist								Max. count 100 chinook (1958)	
	1958	7/07	100						Suspected aerial count	Kubik (1964)
	1970		5					Ground survey		Watsjold (1972)
	1971	7/21	5							ADF&G (1982)
	1971	7/27	5							ADF&G (1982)
	1971	9/08	5			70				ADF&G (1982)
	1972	8/26		182						ADF&G (1982)
	1972	7/30	5					Aerial count, fixed wing		Watsjold (1973)
	1973	7/26	7					Aerial count, fixed wing		Watsjold (1974)
	1973	9/05		141						ADF&G (1982)
	1973	9/26			5					ADF&G (1982)
	1974	7/25	0	0	0	0	0			ADF&G (1982)
	1974		14					Aerial count, fixed wing		Watsjold (1975)
	1976	7/23	92					Aerial count, fixed wing		Watsjold (1977)
	1977		95					Aerial count, fixed wing		Watsjold (1978)
	1978		192					Ground survey		Watsjold (1979)
	1979		58					Aerial count, fixed wing		Watsjold (1980)
	1979	10/29				100			Cook Inlet Aquaculture Assoc.	
	1980								No count - high, turbid water	Bentz (1982)
	1981								No count - high, turbid water	Bentz (1982)
	1982	8/12	36					Aerial count, helicopter - Excellent		ADF&G (1983a)

Appendix Table I-4 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1982				39	585	172		Upper Cook Inlet Survey	ADF&G (1985c)-CHUL.TAB
247-41-10200-2381-3161										
Tokositna River									Also spelled "Tokichitna River"	
	Hist								Max. count 97 sockeye (1954)	
	1958	7/25	0						Suspected aerial count	Kubik (1964)
	1981								Sockeye & coho present	Kubik (pers. comm.)
247-41-10200-2381-3161-4016										
Alder Creek	1958	7/22	0						Suspected aerial count	Kubik (1964)
	1963	8/19	0					Aerial count		Kubik (1964)
247-41-10200-2381-3161-4016-5010									Note - Trib. of Alder Creek, TALK C-1	
Unnamed Creek *	1982				3					ADF&G (1983a)
247-41-10200-2381-3161-4071										
247-41-10200-2381-3161-4071-0010										
Swan Lake									Max. count 150 sockeye (1954)	
	Hist									
	1972			302					Includes Slim Creek and T-Creek	Tarbox & Sanders (1980)
	1973			310					Includes Slim Creek and T-Creek	Tarbox & Sanders (1980)
	1974			386					Includes Slim Creek and T-Creek	Tarbox & Sanders (1980)
	1975			465					Includes Slim Creek and T-Creek	Tarbox & Sanders (1980)
	1975	8/22		229						ADF&G (1982)
	1975	8/30		289						ADF&G (1982)
	1975	9/25		90						ADF&G (1982)
	1976			516					Includes Slim Creek and T-Creek	Tarbox & Sanders (1980)
	1977			827					Includes Slim Creek and T-Creek	Tarbox & Sanders (1980)
	1978	8/25-8/26		734						ADF&G (1982)
	1978	9/14		263						ADF&G (1982)
	1978	9/21-9/22		234						ADF&G (1982)
	1978			917					Includes Slim Creek and T-Creek	Tarbox & Sanders (1980)
	1979			40					Includes Slim Creek and T-Creek, low visibility, & turbid water	Tarbox & Sanders (1980)
	1980	8/18		1						ADF&G (1982)
	1981			505					Includes Slim Creek and T-Creek	ADF&G (1985c)-CHUL.TAB
	1981	8/20		660						ADF&G (1985c)-CHUL.TAB
	1981	8/25		350					Includes Slim Creek and T-Creek	Tarbox et al. (1983)
	1983	8/23	0	0	0	0	0		Visibility poor, turbid H2O	ADF&G (1985c)-CHUL.TAB
	1983	9/07		340						ADF&G (1985c)-CHUL.TAB
	1984	8/26		48					S. lake and stream to Tokositna River occluded	ADF&G (1985c)-CHUL.TAB
	1984	8/30		21					SAA, visibility poor Editors Note - What is SAA ?	ADF&G (1985c)-CHUL.TAB

Appendix Table 1-4 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
247-41-10200-2381-3161-4071-5020									Note - NW end of Swan Lake, TALK C-1 overgrown, not surveyed in '84 - '85	
Slim Creek *	Hist								Max. count 150 sockeye (1954)	
	1970	8/24		516						
	1972	8/25		63				Ground survey		Barrett (1973a)
	1973	8/22	0	0	0	0	0	Ground survey		Barrett (1973a)
	1973	9/05		53				Ground survey		Barrett (1973a)
	1973	9/18		168				Ground survey		Barrett (1973a)
	1973			195				Ground survey	Peak survey count	Barrett (1973a)
	1974	8/24	0	0	0	0	0	Ground survey		Barrett (1975a)
	1974	9/06		83				Ground survey		Barrett (1975a)
	1974	9/17		195				Ground survey		Barrett (1975a)
	1975			176				Ground survey	Peak survey count	Friese (1976a)
	1975	9/25		50						ADF&G (1982)
	1975	8/30		50						ADF&G (1982)
	1975	9/26		75						ADF&G (1982)
	1976	8/24		69				Ground survey		Friese (1976b)
	1976	9/08		64						ADF&G (1982)
	1977	8/24		755	3					ADF&G (1982)
	1977	9/12-9/13		739						ADF&G (1982)
	1977			82						Nemtvedt et al. (1979)
	1978			253						Waltemyer et al. (1980)
	1978			263					Peak survey count	ADF&G (1982)
	1979	8/28		40						ADF&G (1982)
247-41-10200-2381-3161-4071-5031									Note - S end of Swan Lake, TALK C-1	
T-Creek *	Hist								Max. count 400 sockeye (1954)	
	1972	8/26		182				Ground survey		Barrett (1973a)
	1972			239					Peak survey count	ADF&G (1982)
	1973	8/22		35				Ground survey		Barrett (1973a)
	1973	9/05		88				Ground survey		Barrett (1973a)
	1973	9/18		57				Ground survey		Barrett (1973a)
	1973			115					Peak survey count	ADF&G (1982)
	1974	8/24		103				Ground survey		Barrett (1975a)
	1974	9/05		118				Ground survey		Barrett (1975a)
	1974	9/17		42				Ground survey		Barrett (1975a)
	1974			191					Peak survey count	ADF&G (1982)
	1975	8/22		229						ADF&G (1982)
	1975	8/30		223						ADF&G (1982)
	1975			289				Ground survey	Peak survey count	Friese (1976a)
	1976	8/24		447				Ground survey		Friese (1976b)
	1976	9/08		39	50					ADF&G (1982)

Appendix Table 1-4 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1977			745					Peak survey count,chum & pink present	Nemtvedt et al. (1979)
	1978			654						Waltemyer et al. (1980)
247-41-10200-2381-3161-4071-5031-0020										
247-41-10200-2381-3161-4085										
Bunco Creek	1973	8/02	34					Aerial count, fixed wing		Watsjold (1974)
	1976	7/23	112					Aerial count, fixed wing		Watsjold (1977)
	1977		136					Aerial count, fixed wing		Watsjold (1978)
	1978		153					Aerial count, fixed wing		Watsjold (1979)
	1980								No count - high, turbid water	Bentz (1982)
	1981								No count - high, turbid water	Bentz (1982)
	1982	8/07	198					Aerial count, helicopter - Fair		ADF&G (1983a)
	1983	8/02	279					Ground survey - Good		Barrett et al. (1984)
	1983		523					Aerial count	Estimate based on ground & aerial counts	Barrett et al. (1984)
	1984	8/10	51					Aerial count, helicopter - Good		Barrett et al. (1985)
247-41-10200-2381-3161-4085-0010										
Bunco Lake	Hist								Good escapement of pinks In 1964	
247-41-10200-2381-3179										
Spink Creek	1958	7/07	60						Suspected aerial count	Kubik (1964)
	1963	8/19	0					Aerial count		Kubik (1964)
	1982	8/07		12				Aerial count, helicopter - Excellent		ADF&G (1983a)
247-41-10200-2381-3179-0010										
Spink Lake										
247-41-10200-2381-3180										
Byers Creek	Hist								Few chinook, 1,200 sockeye (1964); good pink escapement (1964)	
	1964	8/27	2					Aerial count		Kubik (1965)
	1965	8/06	4					Aerial count		Kubik (1966)
	1971		3					Ground survey/Aerial count		Watsjold (1972)
	1971	8/29	2					Aerial count		ADF&G (1982)
	1971	9/08			35	1100				ADF&G (1982)
	1972	7/30	7					Aerial count		Watsjold (1973)
	1973	7/26	1					Aerial count		Watsjold (1974)
	1973	9/26			49					ADF&G (1982)
	1974	7/25	0					Aerial count, fixed wing		Watsjold (1975)
	1976	7/23	53					Aerial count, fixed wing		Watsjold (1977)
	1976	8/23		50			39			ADF&G (1982)

Appendix Table 1-4 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1977		69					Aerial count, fixed wing	Peak survey count	Watsjold (1978)
	1977	8/04	1							ADF&G (1982)
	1977	8/05	2	300						ADF&G (1982)
	1977	8/10		200						ADF&G (1982)
	1977	8/16		100						ADF&G (1982)
	1977	9/12		6	314					ADF&G (1982)
	1979	10/29		1000	500	0			Cook Inlet Aquaculture Ass'n (CIAA)	
	1979		28					Aerial count, fixed wing		Watsjold (1980)
	1980								No count - high, turbid water	Bentz (1982)
	1981								No count - high, turbid water	Bentz (1982)
	1982		15		36	417	1110			ADF&G (1985c)-CHUL.TAB
	1982	8/12	7					Aerial count, helicopter - Excellent		ADF&G (1983a)
247-41-10200-2381-3180-0010										
Byers Lake	1976			50						Nemtvedt et al. (1979)
	1977			300					Peak survey count	Nemtvedt et al. (1979)
	1981	8/27		275	100		200		Coho & pink data source unknown	Tarbox et al. (1983)
247-41-10200-2381-3220										
Horseshoe Creek										
247-41-10200-2381-3223 *									Note - TALK MTS D-6	
Coal Creek *	1962	7/30	5					Aerial count	Peak	Kubik (1963)
	1963	8/19	0					Aerial count	Peak	Kubik (1964)
247-41-10200-2381-3223-4023 *									Note - TALK MTS D-6	
West Fork Coal Creek *	Hist								Chinook, pinks present	
	1976	8/17	0	0	0	0	0			ADF&G (1982)
	1976	8/26	0	0	0	0	0			ADF&G (1982)
	1976	9/14	0	0	0	0	0			ADF&G (1982)
	1977	8/25		47					Lake and creek	ADF&G (1985c)-CHUL.TAB
	1977	9/01		151					100 fish in lower creek	ADF&G (1985c)-CHUL.TAB
	1978			2388					Includes Coal Creek Lake and mainstem West Fork Coal Creek	Tarbox et al. (1983)
	1979	9/19		500					Includes Coal Creek Lake and mainstem West Fork Coal Creek	Tarbox et al. (1983)
	1980	8/22		600					Includes Coal Creek Lake and mainstem West Fork Coal Creek	Tarbox et al. (1983)
	1981			1100					Includes Coal Creek Lake and mainstem West Fork Coal Creek	Tarbox et al. (1983)
	1982	8/23		1200					West Fork Coal Creek	ADF&G (1985c)-CHUL.TAB
	1982	8/23		240					Coal Creek Lake	ADF&G (1985c)-CHUL.TAB
247-41-10200-2381-3223-4023-0010 *									Note - See Coal Creek, TALK MTS D-6	

Appendix Table 1-4 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
Coal Creek Lake *										
247-41-10200-23B1-3234 *									Note - TALK MTS D-6	
Pass Creek	1962	7/30	15					Aerial count	Peak count	Kubik (1963)
	1963	8/19	6					Aerial count	Peak count	Kubik (1964)
	1973		8					Aerial count, fixed wing		Watsjold (1974)
247-41-10200-23B1-3240										
Honolulu Creek	1973	7/26	17					Aerial count, fixed wing		Watsjold (1974)
	1973	7/29	8							ADF&G (1982)
	1974	7/25	12					Aerial count, fixed wing		Watsjold (1975)
	1976	7/23	24					Aerial count, fixed wing		Watsjold (1977)
	1977		36					Aerial count, fixed wing		Watsjold (1978)
	1978		13					Aerial count, fixed wing		Watsjold (1979)
	1979		37					Aerial count, fixed wing		Watsjold (1980)
	1980								No count - high, turbid water	Bentz (1982)
	1981								No count - high, turbid water	Bentz (1982)
	1982	8/12	27					Aerial count, helicopter - Excellent		ADF&G (1983a)
247-41-10200-23B1-3240-4020										
Little Honolulu Creek										
247-41-10200-23B1-3260										
East Fork Chulitna River	Hist								Chinook present, maximum sockeye count 500 (1964)	
	1973	8/02	42					Aerial count		ADF&G (1982)
	1974	7/25	41					Aerial count, fixed wing		Watsjold (1975)
	1975	8/04	7					Aerial count, fixed wing		Watsjold (1976)
	1976	7/23	112					Aerial count, fixed wing		Watsjold (1977)
	1977		168					Aerial count, fixed wing		Watsjold (1978)
	1978		59					Aerial count, fixed wing		Watsjold (1979)
	1979								No count - high, turbid water	Bentz (1982)
	1980								No count - high, turbid water	Bentz (1982)
	1982	8/12	119					Aerial count, helicopter - Excellent		ADF&G (1983a)
247-41-10200-23B1 *									Note - HEALY A-6	
Middle Fork Chulitna River *	1973		219					Aerial count		ADF&G (1982)
	1973	8/02	206							ADF&G (1982)
	1974	7/25	159					Aerial count, fixed wing		Watsjold (1975)
	1975	8/04	55					Aerial count, fixed wing		Watsjold (1976)
	1976	7/23	1870					Aerial count, fixed wing		Watsjold (1977)
	1977		1782					Aerial count, fixed wing		Watsjold (1978)
	1978		900					Aerial count, fixed wing		Watsjold (1979)

Appendix Table 1-4 (Continued).

LOCATION CODE / STREAM NAME	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD	COMMENTS	DATA SOURCE
	1980								No count - high, turbid water	Bentz (1982)
	1981								No count - high, turbid water	Bentz (1982)
	1982		863							ADF&G (1985c)-CHUL.TAB
	1982	8/12	644					Aerial count, helicopter - Excellent		ADF&G (1983a)
	1983	7/19	3846					Boat survey, raft - Excellent		Barrett et al. (1984)
	1983	8/03	958					Boat survey, raft - Excellent		Barrett et al. (1984)
	1984		4191							Hegler & Bentz (1985)

* - These new location codes and names have been submitted to the editors of the Anadromous Waters Catalog in October 1985. Upon varification they will be included in the next printing of the Anadromous Waters Catalog.

Appendix Table I-5. Escapement survey counts of adult salmon in Susitna River sloughs, side channels, and the mainstem between river mile (RM) 28.0 and RM 161.0. All data presented for 1981-1984 represent the peak total counts (live fish + dead fish) observed.

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
Rustic Wilderness Slough (RM 57.0)	1984	10/13	0	0	6	0	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
Caswell Side Channel Mouth (RM 62.1)	1984	10/09	0	0	0	8	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
Caswell Creek Slough (RM 63.2)	1984	10/11	0	0	0	4	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
Mainstem (RM 68.3)	1981	9/21	0	0	0	6	0	Ground survey - 0.5 miles	S22 N05 W13 AAB, Spawning	ADF&G (1981)
Unnamed Side Channel (RM 71.6)	1984	10/09	0	0	0	4	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
Mid-Chan W Goose Sl (RM 73.9)	1984	10/10	0	0	0	3	0	Ground survey - Poor, 100%	Spawning site	Barrett et al. (1985)
SW of Circular Side Chan (RM 74.4)	1984	9/25	0	0	0	36	0	Ground survey - Good, 100%		Barrett et al. (1985)
Goose Creek Slough (RM 74.5)	1984	10/01	0	0	4	0	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
	1984	10/08	0	0	0	16	0	Ground survey - Fair, 100%	Spawning site	Barrett et al. (1985)
Circular Side Channel (RM 75.3)	1984	9/18	0	0	0	0	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
	1984	9/25	0	0	0	89	2	Ground survey - Good, 50%	Spawning site	Barrett et al. (1985)
Mainstem (RM 76.6)	1981	9/21	0	0	2	1	0	Electroshocking - 1.0 mile	S23 N04 W07 BBD, Spawning	ADF&G (1981)
	1981	9/27	0	0	0	16	0	Ground survey - 0.5 miles	S23 N04 W07 BBD, Spawning	ADF&G (1981)
Sauna Slough Mouth (RM 79.2)	1984	9/18	0	0	4	18	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
	1984	10/08	0	0	0	7	0	Ground survey - Fair, 100%	Spawning site	Barrett et al. (1985)
Whitefish Slough (RM 79.4)	1984	8/16	0	0	0	0	0	Ground survey - Poor, 100%		Barrett et al. (1985)
	1984	8/25	0	0	0	1	2	Ground survey - Poor, 15%		Barrett et al. (1985)
	1984	9/18	0	0	0	1	0	Ground survey - Good, 22%		Barrett et al. (1985)
	1984	9/28	0	0	0	0	0	Ground survey - Excellent, 100%		Barrett et al. (1985)
Mainstem (RM 83.3)	1981	9/05	0	0	0	17	0	Ground survey - 0.5 miles	S24 N05 W15 BCC Spawning	ADF&G (1981)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
Sunset Side Channel	1984	9/21	0	0	0	173	14	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
(RM 87.0)	1984	9/28	0	0	5	165	10	Ground survey - Excellent, 100%	Spawning site	Barrett et al. (1985)
North Sunset Side Channel	1984	9/21	0	0	5	0	0	Ground survey - Good, 60%	Spawning site	Barrett et al. (1985)
(RM 87.5)										
Birch Creek Slough	1984	7/23	126	375	0	3	437	Ground survey - Excellent, 22%	Surveyed from	Barrett et al. (1985)
(RM 88.2)	1984	7/29	0	0	0	0	0	Ground survey - Poor, 7%	mouth to confluence	Barrett et al. (1985)
	1984	8/02	4	230	0	0	3304	Ground survey - Good, 7%	with stream.	Barrett et al. (1985)
	1984	8/09	13	93	234	1064	9917	Ground survey - Good, 7%	Only pink	Barrett et al. (1985)
	1984	8/16	0	6	75	476	6518	Ground survey - Good, 22%	salmon observed	Barrett et al. (1985)
	1984	8/23	17	22	112	326	1350	Ground survey - Good, 17%	spawning.	Barrett et al. (1985)
	1984	8/31	4	0	119	175	507	Ground survey - Poor, 22%		Barrett et al. (1985)
	1984	9/09	0	0	79	156	359	Ground survey - Poor, 17%		Barrett et al. (1985)
	1984	9/16	0	0	40	117	161	Ground survey - Good, 7%		Barrett et al. (1985)
	1984	9/25	0	0	0	60	15	Ground survey - Excellent, 22%		Barrett et al. (1985)
	1984	10/01	0	0	16	538	0	Ground survey - Good, 22%		Barrett et al. (1985)
Lower Birch Mainstem	1984	10/09	0	0	0	23	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
(RM 88.7)	1984	10/11	0	0	0	23	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
Upper Birch Camp	1984	9/29	0	0	0	12	0	Ground survey - Excellent, 100%	Spawning site	Barrett et al. (1985)
(RM 89.5)	1984	10/09	0	0	0	12	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
Upper Birch Side Channel	1984	10/09	0	0	0	68	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
(RM 90.1)										
Trapper Creek Side Channel	1984	9/23	0	0	0	795	0	Ground survey - Excellent, 100%	Spawning site	Barrett et al. (1985)
(RM 90.3)	1984	9/26	0	0	2	141	2	Ground survey - Excellent, 100%	Spawning site	Barrett et al. (1985)
	1984	9/28	0	0	0	4	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
	1984	10/01	0	0	24	149	0	Ground survey - Fair, 15%	Spawning site	Barrett et al. (1985)
	1984	10/02	0	0	45	121	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
	1984	10/04	0	0	23	0	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
	1984	10/09	0	0	0	58	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
	~~1984~~	~~10/10~~	~~0~~	~~0~~	~~117~~	~~0~~	~~0~~	~~Ground survey - Good, 100%~~	~~Spawning site~~	~~Barrett et al. (1985)~~
	1984	10/11	0	0	0	12	0	Ground survey - Poor, 100%	Spawning site	Barrett et al. (1985)
Mainstem	1981	10/09	0	0	0	11	0	Ground survey - 0.3 miles	S25 N05 W13 BCC	ADF&G (1981)
(RM 92.2)									Spawning	
Beaver Dam Channel	1984	9/27	0	0	0	3	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
(RM 95.0)										
Musher Slough	1984	9/27	0	0	0	65	0	Ground survey - Excellent, 100%	Spawning site	Barrett et al. (1985)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
(RM 95.2)	1984	9/28	0	0	0	84	0	Ground survey - Excellent, 100%	Spawning site	Barrett et al. (1985)
Cache Creek Slough (RM 95.4)	1984	9/27	0	0	0	160	2	Ground survey - Excellent, 100%	Spawning site	Barrett et al. (1985)
Mainstem (RM 96.8)	1981	9/02	0	0	0	1	0	Ground survey - 0.3 miles	S26 N05 W25 BAA Spawning	ADF&G (1981)
Mainstem (RM 97.0)	1981	9/17	0	0	0	20	0	Ground survey - 0.1 miles	S26 N05 W26 AOB Spawning	ADF&G (1981)
Perdidula Slough (RM 98.0)	1984	9/14	0	4	2	439	0	Ground survey - Good, 100%	Spawning site	Barrett et al. (1985)
Slough 1 (RM 99.6)	1981	8/21	0	0	0	0	0	Ground survey - Poor, 50% surveyed		ADF&G (1981)
	1981	8/29	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	9/06	0	0	0	6	0	Ground survey - Good, 100% surveyed		ADF&G (1981)
	1981	9/16	0	0	0	1	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/24	0	0	0	1	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	10/02	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/13	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/20	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	8/26	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/01	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/29	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Good, 100% surveyed		ADF&G (1983b)
	1983	7/27	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/07	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/15	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/29	0	0	0	0	0	Ground survey - Excellent, 60% surveyed		Barrett et al. (1984)
	1983	9/05	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/12	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/19	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/09	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/06	0	10	0	12	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/24	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
Slough 2 (RM 100.4)	1981	8/02	0	0	0	0	0	Ground survey - Poor, 50% surveyed		ADF&G (1981)
	1981	8/21	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/29	0	0	0	3	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/06	0	0	0	27	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/16	0	0	0	6	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/24	0	0	0	5	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	10/02	0	0	0	3	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/08	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	8/13	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	8/20	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	8/26	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/01	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/29	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Fair, 100% surveyed		ADF&G (1983b)
	1983	7/27	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/07	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/15	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/22	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/29	0	0	0	10	0	Ground survey - Excellent, 20% survey		Barrett et al. (1984)
	1983	9/05	0	0	0	23	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/12	0	0	0	49	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/19	0	0	0	21	0	Ground survey - Good, 80% surveyed		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/09	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/15	0	0	0	2	0	Ground survey - Good, 20% surveyed		Barrett et al. (1985)
	1984	8/17	0	0	0	13	0	Ground survey - Excellent, 50% survey		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/06	0	7	0	129	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/15	0	4	0	26	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/17	0	5	0	55	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/24	0	4	0	32	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/28	0	2	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/30	0	2	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	10/07	0	4	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Mainstem (RM 100.5)	1981	9/24	0	0	0	0	0	Ground survey - 0.1 miles	S26 N05 N02 CDD, Redds observed	ADF&G (1981)
Mainstem	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
(RM 101.2)	1984	9/01	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/08	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/15	0	0	0	89	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	16	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Slough 3B (RM 101.4)	1975	9/03		15		50			Peak count	Friese (1975)
	1981	8/05	0	0	0	0	0	Ground survey - Fair, 100% surveyed		ADF&G (1981)
	1981	8/11	0	0	0	0	0	Ground survey - Fair, 100% surveyed		ADF&G (1981)
	1981	8/21	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/29	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	9/06	0	1	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/17	0	1	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/24	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	10/02	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1981)
	1982	8/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/13	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	8/23	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/01	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/07	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/21	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/29	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Good, 100% surveyed		ADF&G (1983b)
	1983	7/27	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/04	0	0	0	1	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/12	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/26	0	0	0	3	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/05	0	1	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/19	0	5	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	1	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/09	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/17	0	0	0	1	0	Ground survey - Good, 10% surveyed		Barrett et al. (1985)
	1984	8/26	0	10	0	21	1	Ground survey - Excellent, 70% survey		Barrett et al. (1985)
	1984	9/06	0	20	0	56	0	Ground survey - Excellent, 70% survey		Barrett et al. (1985)
	1984	9/17	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/24	0	0	0	0	28	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/30	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Slough 3A	1981	8/04	0	4	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
(RM 101.9)	1981	8/11	0	7	0	0	0	Ground survey - Fair, 100% survey		ADF&G (1981)
	1981	8/21	0	3	0	0	1	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/29	0	0	0	0	0	Ground survey - Fair, 100% survey		ADF&G (1981)
	1981	9/06	0	1	0	0	0	Ground survey - Fair, 100% survey		ADF&G (1981)
	1981	9/17	0	0	0	0	0	Ground survey - Fair, 100% survey		ADF&G (1981)
	1981	9/24	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1981)
	1981	10/02	0	0	0	0	0	Ground survey - Fair, 100% survey		ADF&G (1981)
	1982	8/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/13	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/20	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/01	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/07	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/21	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/25	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1983	7/15	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	7/27	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/04	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/12	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/05	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/19	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/17	0	11	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/15	0	11	0	1	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/17	0	8	0	17	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/24	0	3	0	7	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/30	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Slough 5 (RM 107.2)	1981	8/07	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1981)
	1981	8/19	0	0	0	0	0	~~Ground survey - Fair, 100% survey~~		~~ADF&G (1981)~~
	1981	8/25	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1981)
	1981	8/28	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	9/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/07	0	0	0	2	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	8/13	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	8/19	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	8/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1982	9/01	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/07	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/21	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Poor, 100% surveyed		ADF&G (1983b)
	1983	7/27	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/07	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/15	0	0	0	1	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/22	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/29	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/05	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/12	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/19	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/07	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/09	0	0	0	0	4	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/28	0	1	0	0	2	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/04	0	0	0	0	0	Ground survey - Fair, 100% surveyed		Barrett et al. (1985)
	1984	9/17	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/24	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
Slough 6 (RM 108.2)	1974	8/28				1		Ground survey	Peak count	Barrett (1974)
	1981	8/07	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/19	0	0	0	0	0	Ground survey - Fair, 100% surveyed		ADF&G (1981)
	1981	8/23	0	0	0	0	0	Ground survey - Fair, 100% surveyed		ADF&G (1981)
	1981	8/28	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	9/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/13	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	8/19	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	8/26	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/01	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/07	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/21	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Fair, 100% surveyed		ADF&G (1983b)
	1983	7/27	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/07	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/15	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/22	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/29	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1983	9/05	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/12	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/19	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/07	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/28	0	0	0	1	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/04	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/17	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/24	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
Mainstem (RM 110.0)	1984	9/01	0	0	0	4	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 110.1)	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/08	0	0	0	2	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Slough 6A (RM 112.3)	1981	8/19	0	1	0	11	0	Ground survey - Good, 100% surveyed		ADF&G (1981)
	1981	8/23	0	0	0	11	0	Ground survey - Fair, 100% surveyed		ADF&G (1981)
	1981	8/29	0	1	0	3	0	Ground survey - Fair, 100% surveyed		ADF&G (1981)
	1981	9/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/07	0	0	0	0	35	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	8/13	0	0	35	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/19	0	0	30	2	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/25	0	0	0	0	1	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/31	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/07	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/14	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/21	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/27	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Good, 100% surveyed		ADF&G (1983b)
	1983	7/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/05	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/15	0	0	2	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/29	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/05	0	0	0	6	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1983	9/12	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/19	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/07	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/14	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/21	0	0	3	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/05	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/16	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/24	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
Slough 8	1981	8/07	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
(RM 113.7)	1981	8/09	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/29	0	0	0	268	25	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/05	0	0	0	302	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/13	0	0	0	151	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/21	0	0	0	96	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/28	0	0	0	16	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	7/28	0	0	0	0	0	Ground survey - Fair, 100% surveyed		ADF&G (1983b)
	1982	8/02	0	0	0	0	0	Ground survey - Fair, 100% surveyed		ADF&G (1983b)
	1982	8/07	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/13	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/19	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/31	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/14	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/21	0	0	0	0	0	Ground survey - Fair, 100% surveyed		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Excellent, 100% survey		ADF&G (1983b)
	1983	8/05	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/15	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/29	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/05	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/12	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/18	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/07	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1984	8/14	0	0	0	15	1	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/21	0	0	0	52	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/05	0	2	0	65	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/16	0	0	0	46	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/21	0	1	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/24	0	0	0	11	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
Mainstem (RM 114.0)	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/08	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/15	0	0	0	46	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem (RM 114.4)	1982	9/02	0	0	1	8	0	Electroshocking - 200 yards	S28 N04 W06 CAB, Spawning	ADF&G (1983a)
	1982	9/02	0	0	0	10	0	Boat survey - 200 yards	S28 N04 W06 CAB, Spawning	ADF&G (1983a)
	1984	9/01	0	0	0	8	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	69	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	5	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 114.5)	1984	9/08	0	0	0	8	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 115.0)	1983	9/12	0	0	0	20	0	Ground survey - 300 yards	S07 N28 W04 BCD, Spawning	Barrett et al. (1984)
	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	15	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	7	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	6	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 115.4)	1984	9/08	0	0	0	50	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 117.6)	1981	9/23	0	0	6	0	0	Drift gill net - 0.01 miles	S29 N13 W28 BBC	ADF&G (1981)
Bushrod Slough (RM 117.8)	1984	8/13	0	0	0	27	10	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/20	0	0	0	90	6	Ground survey - Excellent, 100% survey		Barrett et al. (1985)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1984	8/27	0	0	0	22	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/05	0	0	0	24	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/16	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/24	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
Mainstem (RM 118.9)	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	5	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	21	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	10	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem (RM 119.0)	1983	9/19	0	0	0	17	0	Ground survey - 1/8 mile	S16 N29 W04 CDD Spawning	Barrett et al. (1984)
Mainstem (RM 119.1)	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	6	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	15	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	2	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem (RM 119.4)	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/08	0	0	0	2	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem (RM 121.6)	1984	9/15	0	0	0	2	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Slough 8D (RM 121.8)	1981	8/01	0	0	0	0	0	Ground survey - Fair, 100% surveyed		ADF&G (1981)
	1981	8/07	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/27	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/15	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/29	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/12	0	0	0	0	0	Ground survey - Excellent, 50% surveyed		ADF&G (1983b)
	1982	9/14	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD ¶	COMMENTS	DATA SOURCE
	1982	9/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	9/25	0	0	0	23	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Poor, 100% surveyed		ADF&G (1983b)
	1983	7/26	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/03	0	0	0	1	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/12	0	0	0	0	0	Ground survey - Fair, 100% surveyed		Barrett et al. (1984)
	1983	8/18	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/25	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/01	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/09	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/17	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/25	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/13	0	0	0	2	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/17	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/21	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/31	0	0	0	11	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/06	0	0	0	49	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/13	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/28	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
Slough 8C (RM 121.9)	1981	8/01	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1981)
	1981	8/07	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/27	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/15	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/29	0	0	0	23	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/12	0	2	0	48	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/14	0	1	0	31	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	9/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Poor, 100% surveyed		ADF&G (1983b)
	1983	7/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/03	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/12	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1983	8/18	0	0	0	0	0	Ground survey - Fair, 100% surveyed		Barrett et al. (1984)
	1983	8/25	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/01	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/09	0	0	0	4	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/17	0	0	0	1	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/25	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/06	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/13	0	0	0	0	1	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/17	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/21	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/31	0	0	0	68	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/06	0	0	0	110	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/13	0	0	0	121	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/22	0	0	0	116	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/28	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
Slough BB (RM 122.2)	1981	8/01	0	0	0	1	0	Ground survey - Fair, 100% surveyed		ADF&G (1981)
	1981	8/07	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/27	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1982	8/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/19	0	0	0	2	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/22	0	0	0	1	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/29	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/31	0	5	0	23	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/06	0	2	0	80	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/12	0	2	0	46	0	Ground survey - Excellent, 50% surveyed		ADF&G (1983b)
	1982	9/14	0	1	0	31	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	9/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Good, 100% surveyed		ADF&G (1983b)
	1983	7/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/03	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/12	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/18	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/25	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/01	0	0	0	1	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/09	0	0	0	104	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1983	9/17	0	0	0	93	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/25	0	0	0	19	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	10/01	0	0	0	20	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	3	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/06	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/13	0	0	0	5	3	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/17	0	1	0	176	68	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/21	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/31	0	0	0	400	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/06	0	0	0	349	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/08	0	0	0	187	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/13	0	0	0	335	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/15	0	0	0	76	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/22	0	0	0	149	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/28	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
Moose Slough (RM 123.5)	1981	8/27	0	0	0	139	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/04	0	0	0	167	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/12	0	0	0	153	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/21	0	0	0	92	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/27	0	0	0	4	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/06	1	0	0	2	8	Ground survey - Fair, 100% surveyed		ADF&G (1983b)
	1982	8/12	0	0	0	7	6	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/19	0	8	0	9	1	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/25	0	0	0	9	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	8/31	0	5	0	23	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/06	0	0	0	14	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	9/25	0	0	0	23	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Poor, 100% surveyed		ADF&G (1983b)
	1983	7/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/05	0	0	0	68	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/13	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/14	0	3	0	7	0	Ground survey - Poor, 20% surveyed		Barrett et al. (1984)
	1983	8/15	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/17	0	0	0	8	0	Ground survey - Poor, 75% surveyed		Barrett et al. (1984)
	1983	8/18	0	4	0	15	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/21	0	2	0	17	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)

Appendix Table I-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1983	8/23	0	6	0	33	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/27	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/30	0	7	0	30	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/01	0	1	0	18	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/02	0	2	0	12	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/03	0	1	0	17	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/05	0	13	0	19	0	Ground survey - Fair, 100% surveyed		Barrett et al. (1984)
	1983	9/07	0	19	0	12	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/09	0	22	0	15	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/11	0	18	0	13	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/18	0	2	0	8	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/06	0	0	0	3	25	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/13	0	4	1	150	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/19	0	8	0	87	2	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/03	0	0	0	76	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/09	0	0	0	49	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/20	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/27	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Mainstem (RM 124.0)	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/08	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/22	0	0	0	18	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Slough A' (RM 124.6)	1981	8/27	0	0	0	39	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/04	0	0	0	140	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/12	0	0	0	92	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/21	0	0	0	34	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	7/29	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/12	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/19	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/23	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/31	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/06	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/13	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/19	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Poor, 100% surveyed		ADF&G (1983b)
	1983	7/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/05	0	0	0	4	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/15	0	0	0	77	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/17	0	0	0	69	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/19	0	0	0	56	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/20	0	0	0	52	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/21	0	0	0	55	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/23	0	0	0	55	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/27	0	0	0	10	0	Ground survey - Excellent, 20% surveyed		Barrett et al. (1984)
	1983	8/28	0	0	0	4	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/30	0	0	0	13	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/01	0	0	0	17	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/02	0	0	0	22	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/03	0	0	0	11	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/05	0	0	0	16	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/07	0	0	0	21	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/11	0	0	0	43	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/18	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/06	0	0	0	13	24	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/13	0	0	0	111	23	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/19	0	0	0	109	3	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/03	0	0	0	53	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/09	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/20	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/27	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Slough A (RM 124.7)	1981	8/07	0	0	0	20	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/11	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/19	0	0	0	26	2	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/27	0	0	0	34	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/04	0	0	0	23	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/12	0	0	0	23	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/24	0	0	0	4	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	7/29	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/12	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/17	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)

Appendix Table I-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1982	8/23	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/31	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/06	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/13	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/19	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Poor, 100% surveyed		ADF&G (1983b)
	1983	7/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/05	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/13	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/27	0	0	0	2	1	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/02	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/11	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/18	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/13	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/26	0	0	0	2	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/04	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Mainstem	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
(RM 124.9)	1984	9/01	0	0	0	4	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	8	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	4	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Slough 8A	1981	8/07	0	0	0	16	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
(RM 125.1)	1981	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/27	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	9/04	0	177	0	620	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/12	0	105	0	311	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/21	0	38	0	7	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/27	0	9	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/06	0	0	0	1	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/12	0	68	0	80	0	Ground survey - Fair, 100% surveyed		ADF&G (1983b)
	1982	8/17	0	62	0	190	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	8/23	0	23	0	308	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/31	0	27	0	336	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1982	9/06	0	35	0	305	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/13	0	17	0	230	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/20	0	20	3	25	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/25	0	15	3	13	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/02	0	2	4	1	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Fair, 100% surveyed		ADF&G (1983b)
	1983	7/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/05	0	1	0	2	3	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/13	0	0	0	16	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/14	0	0	0	25	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/15	0	0	0	29	1	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/17	0	0	0	31	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/19	0	30	0	17	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/20	0	0	0	26	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/21	0	0	0	29	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/23	0	0	0	25	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/27	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/28	0	0	0	19	0	Ground survey - Fair, 100% surveyed		Barrett et al. (1984)
	1983	8/30	0	32	0	37	0	Ground survey - Fair, 100% surveyed		Barrett et al. (1984)
	1983	9/01	0	30	0	34	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/03	0	36	0	36	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/05	0	54	0	19	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/07	0	42	0	21	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/09	0	57	0	18	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/11	0	66	0	11	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/18	0	56	0	2	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	28	0	1	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	8	0	1	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/06	0	3	0	46	5	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/13	0	17	0	280	46	Ground survey - Excellent, 75% survey		Barrett et al. (1985)
	1984	8/19	0	59	0	593	134	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/03	0	128	0	917	3	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/09	0	125	0	562	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/20	0	40	0	20	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/26	0	45	0	27	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	10/04	0	3	0	1	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	10/11	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Slough B	1982	8/12	0	0	0	1	32	Ground survey - Excellent, 100% survey		ADF&G (1983b)
(RM 126.3)	1982	8/19	0	2	0	11	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/23	0	1	0	47	12	Ground survey - Excellent, 100% survey		ADF&G (1983b)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD #	COMMENTS	DATA SOURCE
	1982	8/31	0	0	0	25	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/05	0	8	0	58	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/13	0	6	0	22	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/02	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Poor, 100% survey		ADF&G (1983b)
	1983	7/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/13	0	0	0	0	0	Ground survey - Poor, 100% survey		Barrett et al. (1984)
	1983	8/20	0	0	0	0	0	Ground survey - Poor, 100% survey		Barrett et al. (1984)
	1983	9/03	0	0	0	0	0	Ground survey - Poor, 100% survey		Barrett et al. (1984)
	1983	9/11	0	2	0	7	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/18	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/06	0	0	0	0	0	Ground survey - Poor, 100% survey		Barrett et al. (1985)
	1984	8/13	0	0	0	0	0	Ground survey - Poor, 100% survey		Barrett et al. (1985)
	1984	8/20	0	0	0	0	0	Ground survey - Poor, 100% survey		Barrett et al. (1985)
	1984	8/21	0	0	0	32	0	Ground survey - Good, 50% surveyed		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 100% survey		Barrett et al. (1985)
	1984	9/04	0	9	0	108	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/11	0	4	0	30	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/21	0	1	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/27	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Mainstem (RM 127.8)	1984	9/15	0	0	0	4	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 128.3)	1984	9/08	0	0	0	73	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Slough 9 (RM 128.3)	1974	9/5				511		Ground survey	Peak count	Barrett (1974)
	1974	9/5&9/12		8				Ground survey	Peak count	Barrett (1974)
	1975	9/27				181				Friese (1975)
	1981	8/07	0	0	0	0	0	Ground survey - Poor, 10% surveyed		ADF&G (1981)
	1981	8/11	0	0	0	5	0	Ground survey - Fair, 100% surveyed		ADF&G (1981)
	1981	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/23	0	0	0	0	0	Ground survey - Excellent, 50% surveyed		ADF&G (1981)
	1981	9/04	0	10	0	260	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/12	0	6	0	71	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/20	0	10	0	16	0	Ground survey - Excellent, 100% survey		ADF&G (1981)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1981	9/27	0	0	0	2	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/06	0	0	0	1	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/17	0	0	0	21	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/23	0	1	0	47	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/30	0	5	0	211	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/05	0	3	0	300	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/13	0	3	0	295	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/19	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	9/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Fair, 100% surveyed		ADF&G (1983b)
	1983	7/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/13	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/18	0	0	0	5	0	Ground survey - Poor, 50% surveyed		Barrett et al. (1984)
	1983	8/20	0	0	0	51	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/27	0	0	0	0	0	Ground survey - Poor, 100% survey		Barrett et al. (1984)
	1983	9/03	0	0	0	0	0	Ground survey - Poor, 100% survey		Barrett et al. (1984)
	1983	9/05	0	0	0	152	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/07	0	2	0	162	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/09	0	0	0	156	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/11	0	1	0	169	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/18	0	0	0	165	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/06	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/13	0	0	0	4	1	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/04	0	6	0	350	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/11	0	0	0	138	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/21	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Mainstem (RM 128.6)	1982	9/05	0	0	0	10	0	Ground survey - 200 yards	S30 N03 W16 BCA Spawning	ADF&G (1983a)
	1982	9/07	0	0	0	7	0	Ground survey - 200 yards	S30 N03 W16 BCA Spawning	ADF&G (1983a)
	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	27	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	15	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	77	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1984	9/29	0	0	0	6	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 128.7)	1984	9/15	0	0	0	10	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 129.2)	1981	9/08	0	0	1	2	0	Drift gill net - 0.1 miles	S30 N03 W09 B Numerous redds seen	ADF&G (1981)
Slough 9B (RM 129.2)	1981	8/11	0	27	0	58	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/23	0	47	0	90	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/27	0	81	0	71	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/04	0	71	0	49	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/12	0	62	0	26	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/20	0	54	0	7	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/27	0	35	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/30	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/19	0	1	0	5	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Fair, 100% survey		ADF&G (1983b)
	1983	7/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/13	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/27	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/11	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/18	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/10	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/14	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/21	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/26	0	7	0	73	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/01	0	6	0	63	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/08	0	7	0	25	0	Aerial count, helicopter - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/21	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Mainstem (RM 129.8)	1982	9/12	0	0	0	5	0	Ground survey - 800 yards	S30 N03 W09 DAB Spawning	ADF&G (1983a)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	18	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/15	0	0	0	1	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem (RM 130.0)	1984	9/08	0	0	0	5	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 130.5)	1981	9/08	0	0	0	3	0	Drift gill net - 0.1 miles	S30 N03 W10 B Redds not visible	ADF&G (1981)
	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	16	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	36	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	1	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem (RM 131.0)	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good	Left bank	Barrett et al. (1985)
	1984	9/01	0	0	0	32	0	Aerial count, helicopter - Good	Left bank, spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	0	0	Aerial count, helicopter - Good	Left bank	Barrett et al. (1985)
	1984	9/15	0	0	0	10	0	Aerial count, helicopter - Good	Left bank, spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good	Left bank	Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good	Left bank	Barrett et al. (1985)
Mainstem (RM 131.0)	1984	9/15	0	1	0	0	0	Aerial count, helicopter - Good	Right bank, spawning	Barrett et al. (1985)
Mainstem (RM 131.1)	1981	9/07	0	0	0	3	0	Drift gill net - 0.2 miles	S30 N03 W03 DA Redds not visible	ADF&G (1981)
	1983	10/01	0	0	2	4	0	Ground survey - 200 yards	S03 N03 W03 DAB, Spawning	Barrett et al. (1984)
	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good	Left bank	Barrett et al. (1985)
	1984	9/01	0	0	0	11	0	Aerial count, helicopter - Good	Left bank, spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	81	0	Aerial count, helicopter - Good	Left bank, spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good	Left bank	Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good	Left bank	Barrett et al. (1985)
Mainstem (RM 131.2)	1984	9/08	0	0	0	18	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	15	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1984	9/29	0	0	0	2	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 131.3)	1982	8/19	0	0	0	3	0	Electroshocking - 80 yards	S30 N03 W03 DAD, Spawning	ADF&G (1983a)
	1982	9/04	0	0	0	12	0	Boat survey - 100 yards	S30 N03 W03 DAD, Spawning	ADF&G (1983a)
	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/08	0	0	0	57	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	13	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem (RM 131.5)	1984	8/24	0	0	2	5	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	102	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 131.6)	1984	9/08	0	0	0	60	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 131.7)	1984	9/08	0	0	0	19	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	20	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	7	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 132.9)	1984	9/15	0	0	0	28	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Slough 9A (RM 133.3)	1981	7/31	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/27	0	2	0	71	0	Ground survey - Excellent, 20% survey		ADF&G (1981)
	1981	9/04	0	1	0	68	0	Ground survey - Excellent, 20% survey		ADF&G (1981)
	1981	9/12	0	2	0	64	0	Ground survey - Poor, 80% surveyed		ADF&G (1981)
	1981	9/20	0	0	0	182	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/27	0	0	0	94	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/06	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	8/12	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	8/17	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	8/23	0	0	0	25	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	8/30	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	9/05	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	9/06	0	0	0	118	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/13	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	9/19	0	1	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/25	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1982	10/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Good, 100% surveyed		ADF&G (1983b)
	1983	7/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/13	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/27	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/11	0	1	0	97	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/18	0	0	0	105	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	10/08	0	0	0	14	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/06	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/10	0	0	0	46	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/13	0	0	0	41	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/04	0	0	0	303	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/11	0	0	0	170	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/21	0	0	0	14	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/27	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Slough 10 (RM 133.9)	1981	7/31	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/10	0	0	0	0	0	Ground survey - Fair, 100% survey		ADF&G (1981)
	1981	8/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/27	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/12	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/17	0	0	0	2	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/23	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/30	0	0	0	1	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/05	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	~~1982~~	~~9/13~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~Ground survey - Excellent, 100% survey~~		~~ADF&G (1983b)~~
	1982	9/19	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Excellent, 100% survey		ADF&G (1983b)
	1983	7/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/13	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/27	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1983	9/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/11	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/18	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/01	0	1	0	1	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/11	0	0	0	1	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/06	0	0	0	2	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	8/13	0	0	0	5	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/18	0	0	0	10	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/21	0	0	0	26	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/26	0	0	0	36	0	Ground survey - Fair, 100% survey		Barrett et al. (1985)
	1984	9/01	0	0	0	29	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/03	0	0	0	32	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/04	0	0	0	32	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/11	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/21	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/27	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Mainstem (RM 134.7)	1984	9/08	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/15	0	0	0	2	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 135.0)	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/08	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/15	0	8	0	0	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem (RM 135.1)	1984	9/01	0	2	0	8	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 135.2)	1981	9/06	0	0	0	6	0	Drift gill net - 0.1 miles	S31 N02 W19 ADA Redds not observed	ADF&G (1981)
Slough 11 (RM 135.3)	1974	9/17				33		Ground survey	Peak count	Barrett (1974)
	1974	9/22		79				Ground survey	Peak count	Barrett (1974)
	1975	9/04		84						Friese (1975)
	1981	7/31	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/06	0	100	0	0	0	Ground survey - Fair, 100% survey		ADF&G (1981)
	1981	8/10	0	50	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/20	0	0	0	1	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/22	0	259	0	282	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/27	0	378	0	411	0	Ground survey - Excellent, 100% survey		ADF&G (1981)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1981	9/01	0	635	0	384	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/11	0	893	0	343	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/20	0	806	0	306	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/26	0	603	0	32	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/02	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/06	0	40	0	10	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/11	0	116	0	20	39	Ground survey - Fair, 100% survey		ADF&G (1983b)
	1982	8/17	0	196	0	43	131	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/23	0	299	0	165	113	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/30	0	456	0	411	87	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/05	0	368	0	377	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/13	0	434	0	459	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/19	0	335	0	223	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/25	0	205	0	130	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/01	0	168	0	68	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/05	0	111	0	12	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Excellent, 100% survey		ADF&G (1983b)
	1983	7/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/05	0	68	0	71	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/11	0	48	0	12	7	Ground survey - Excellent, 50% surveyed		Barrett et al. (1984)
	1983	8/12	0	52	0	33	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/13	0	36	0	55	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/14	0	40	0	52	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/15	0	27	0	91	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/18	0	4	0	71	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/20	0	34	0	75	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/22	0	64	0	108	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/25	0	56	0	78	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/27	0	98	0	125	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/28	0	92	0	138	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/30	0	105	0	151	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/01	0	109	0	138	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/03	0	130	0	183	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/05	0	138	0	165	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/07	0	197	0	200	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/09	0	241	0	187	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/11	0	248	0	150	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/18	0	238	0	238	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/25	0	201	0	161	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/03	0	124	0	80	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/11	0	73	0	75	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)

Appendix Table L-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1984	8/06	0	0	0	54	6	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	8/13	0	3	0	422	102	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/19	0	18	0	1235	121	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	8/26	0	93	0	1583	27	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/03	0	351	0	1560	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/09	0	564	0	1066	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/17	0	507	1	1586	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/21	0	244	0	22	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/26	0	156	0	5	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	10/04	0	18	0	1	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	10/10	0	4	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Slough 13 (RM 135.7)	1975	9/25				1				Friese (1975)
	1981	7/31	0	0	0	0	0	Ground survey - Poor, 15% surveyed		ADF&G (1981)
	1981	8/06	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/27	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/04	0	0	0	4	0	Ground survey - Fair, 100% surveyed		ADF&G (1981)
	1981	9/11	0	0	0	3	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/11	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/17	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/23	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/30	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/05	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/13	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/19	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Fair, 100% surveyed		ADF&G (1983b)
	1983	8/20	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/27	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/01	0	0	0	4	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/11	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/18	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/06	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/18	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1984	8/21	0	0	0	12	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/27	0	0	0	22	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/04	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/21	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Slough 14 (RM 135.9)	1974	8/30				2		Ground survey	Peak count	Barrett (1974)
	1981	7/31	0	0	0	0	0	Ground survey - Fair, 100% surveyed		ADF&G (1981)
	1981	8/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/27	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/04	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/19	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/11	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/17	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/23	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/30	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/05	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/13	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/19	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Fair, 100% surveyed		ADF&G (1983b)
	1983	8/20	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/27	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/01	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/11	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/18	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/06	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/18	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	8/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/27	0	0	2	1	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/04	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/21	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Mainstem (RM 136.0)	1982	8/12	0	0	4	14	20	Electroshocking - 400 yards	S31 N02 W19 AD Spawning	ADF&G (1983a)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1982	9/04	0	0	0	50	0	Boat survey - 150 yards	S31 N02 W19 AD Spawning	ADF&G (1983a)
Mainstem Side Channel (RM 136.1)	1983	9/09	0	0	0	110	0	Ground survey - 50 yards	S20 N31 W02 BBD, Spawning	Barrett et al. (1984)
	1983	9/17	0	0	0	67	0	Ground survey - 50 yards	S20 N31 W02 BBD, Spawning	Barrett et al. (1984)
	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	131	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	49	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem (RM 136.3)	1984	9/08	0	0	0	31	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 136.5)	1984	9/15	0	0	0	6	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Mainstem (RM 136.8)	1983	9/09	0	0	0	12	0	Ground survey - 100 yards	S20 N31 W02 BAA, Spawning	Barrett et al. (1984)
Slough 15 (RM 137.2)	1975	9/06				1				Friese (1975)
	1981	7/31	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1981)
	1981	8/06	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/10	0	0	0	0	0	Ground survey - Fair, 100% surveyed		ADF&G (1981)
	1981	8/21	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/26	0	0	0	1	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/19	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/04	0	0	0	0	24	Ground survey - Fair, 100% surveyed		ADF&G (1983b)
	1982	8/11	0	0	14	0	132	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/17	0	0	5	1	2	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/23	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/30	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/04	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/12	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/18	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Poor, 100% surveyed		ADF&G (1983b)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1983	7/25	1	0	0	0	0	Ground survey - Fair, 100% surveyed		Barrett et al. (1984)
	1983	8/04	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/11	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/18	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/25	0	0	0	2	1	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/03	0	0	14	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/09	0	0	0	1	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/15	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/24	0	0	2	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/08	0	1	10	100	500	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/17	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/24	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/02	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/10	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Slough 16	1974	8/19&8/30				2		Ground survey	Peak count	Barrett (1974)
(RM 137.3)	1975	8/26				12				Friese (1975)
	1981	8/06	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/10	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/21	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/26	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	9/03	0	0	0	3	0	Ground survey - Fair, 100% surveyed		ADF&G (1981)
	1981	9/19	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/04	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	8/11	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/17	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/23	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/30	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/04	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/12	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/18	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Good, 100% surveyed		ADF&G (1983b)
	1983	7/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1983	8/04	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/11	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/18	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/25	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/03	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/09	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/15	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/08	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/17	0	0	0	14	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/24	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/01	0	0	0	15	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/02	0	0	0	7	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/10	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Mainstem (RM 137.4)	1982	8/19	0	0	0	25	0	Electroshocking - 200 yards	S31 N02 W17 DBB, Spawning	ADF&G (1983a)
Mainstem (RM 138.2)	1982	9/27	0	0	0	0	0	Ground survey - 200 yards	S31 N02 W16 BBB, Eyed egg found	ADF&G (1983a)
Mainstem (RM 138.3)	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	3	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem (RM 138.6 - RM 138.9)	1983	9/15	0	11	0	56	0	Ground survey - 1/4 mile	S09 N31 W02 DCB, Spawning	Barrett et al. (1984)
Mainstem (RM 138.7)	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/08	0	0	0	21	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	5	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem (RM 138.8)	1984	9/15	0	4	0	36	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
Mainstem (RM 138.9)	1982	9/04	0	0	0	16	0	Ground survey - 200 yards	S31 N02 W09 DBD Spawning	ADF&G (1983a)
Slough 17 (RM 138.9)	1974	9/13				24		Ground survey	Peak count	Barrett (1974)
	1981	8/06	0	0	0	9	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/10	0	0	0	3	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/21	0	1	0	33	0	Ground survey - Excellent, 75% survey		ADF&G (1981)
	1981	8/26	0	0	0	38	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/03	0	5	0	37	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/11	0	6	0	30	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/19	0	3	0	4	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/04	0	0	0	0	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	8/11	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/16	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/30	0	0	0	4	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/04	0	0	0	2	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/12	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/18	0	0	0	2	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/23	0	0	0	21	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/30	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Excellent, 100% survey		ADF&G (1983b)
	1983	7/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/04	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/11	0	0	5	28	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/18	0	1	0	33	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/25	0	2	0	90	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/03	0	1	0	2	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/09	0	3	0	6	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/15	0	0	0	3	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/22	0	6	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	2	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/08	0	16	0	39	1	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/17	0	1	0	29	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/24	0	15	0	70	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/02	0	3	0	66	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/10	0	0	0	0	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1984	9/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	10/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Mainstem	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
(RM 139.0)	1984	9/01	0	2	0	46	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	87	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	3	0	15	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
(RM 139.4)	1984	9/01	0	0	0	6	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	37	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Slough 19	1974	8/21		3				Ground survey	Peak count	Barrett (1974)
(RM 139.7)	1974	9/24				4		Ground survey	Peak count	Barrett (1974)
	1975	8/26		20						Friese (1975)
	1981	8/06	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/10	0	0	0	0	0	Ground survey - Fair, 100% surveyed		ADF&G (1981)
	1981	8/21	0	13	0	3	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	8/26	0	20	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/03	0	23	0	1	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/11	0	18	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/19	0	8	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/26	0	6	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/04	0	0	0	0	1	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/11	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/16	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/30	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/04	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/12	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/18	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/23	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/30	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Excellent, 100% survey		ADF&G (1983b)
	1983	7/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1983	8/04	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/11	0	0	0	0	1	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	8/18	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/25	0	0	0	2	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/03	0	1	0	3	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/09	0	5	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/15	0	3	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/22	0	3	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/08	0	0	0	19	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	8/17	0	0	0	3	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/24	0	4	0	40	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/02	0	9	0	45	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/10	0	11	0	5	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/20	0	6	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/26	0	4	0	1	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	10/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Slough 20 (RM 140.1)	1974	9/05				107		Ground survey	Peak count	Barrett (1974)
	1981	8/06	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/10	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/21	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/26	0	2	0	11	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/03	0	0	0	14	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/11	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/19	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/04	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/11	0	0	0	0	51	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/16	0	0	0	0	64	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/22	0	0	0	3	50	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/30	0	0	0	3	8	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	~~1982~~	~~9/04~~	~~0~~	~~0~~	~~0~~	~~30~~	~~0~~	~~Ground survey - Excellent, 100% survey~~		~~ADF&G (1983b)~~
	1982	9/12	0	0	0	9	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/18	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1983b)
	1982	9/23	0	0	0	2	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/30	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Fair, 100% surveyed		ADF&G (1983b)
	1983	7/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/04	0	0	0	7	7	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/11	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1983	8/18	0	0	0	62	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/25	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/03	0	0	0	63	0	Ground survey - Good, 100% surveyed		Barrett et al. (1984)
	1983	9/09	0	0	0	39	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/15	0	0	0	23	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/08	0	0	0	39	37	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	8/17	0	0	0	138	85	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/24	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/02	0	0	0	280	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/10	0	0	0	116	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Mainstem (RM 140.5)	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	6	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem (RM 140.8)	1984	9/15	0	0	0	2	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Slough 21 (RM 141.0)	1974	9/18		13		668		Ground survey	Peak count	Barrett (1974)
	1975	9/06				250			Peak count	Friese (1975)
	1975	9/25		75						Friese (1975)
	1981	8/06	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/10	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/21	0	0	0	0	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	8/26	0	1	0	169	0	Ground survey - Excellent, 50% surveyed		ADF&G (1981)
	1981	9/03	0	26	0	274	0	Ground survey - Excellent, 75% surveyed		ADF&G (1981)
	1981	9/11	0	38	0	136	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/19	0	33	0	67	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/26	0	3	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/04	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/11	0	0	0	7	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	8/16	0	0	0	0	64	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/22	0	10	0	235	7	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/29	0	15	0	613	6	Ground survey - Good, 100% surveyed		ADF&G (1983b)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1982	9/04	0	44	0	736	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/12	0	53	0	508	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/18	0	32	0	36	0	Ground survey - Good, 100% surveyed		ADF&G (1983b)
	1982	9/23	0	19	0	31	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/30	0	5	0	3	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Fair, 100% surveyed		ADF&G (1983b)
	1983	7/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/04	0	0	0	1	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/11	0	0	0	4	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/18	0	45	0	154	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/20	0	0	0	1	0	Ground survey - Poor, 2% surveyed		Barrett et al. (1984)
	1983	8/22	0	34	0	81	0	Ground survey - Poor, 75% surveyed		Barrett et al. (1984)
	1983	8/23	0	53	0	118	1	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	8/25	0	1	0	7	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/02	0	86	0	81	0	Ground survey - Excellent, 50% survey		Barrett et al. (1984)
	1983	9/09	0	197	0	319	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/15	0	169	0	247	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/22	0	78	0	200	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/03	0	10	0	16	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/08	0	0	0	1	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/08	0	0	0	12	0	Ground survey - Excellent, 35% survey		Barrett et al. (1985)
	1984	8/17	0	58	0	981	8	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/24	0	12	0	458	0	Ground survey - Good, 35% surveyed		Barrett et al. (1985)
	1984	9/02	0	115	0	2354	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/10	0	122	0	1520	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/20	0	62	0	823	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/26	0	40	0	605	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	10/03	0	20	0	1	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	10/08	0	6	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Mainstem (RM 141.4)	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	45	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/08	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/15	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem (RM 141.6)	1984	8/24	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/01	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/08	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
	1984	9/15	0	9	0	1	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
	1984	9/22	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)

Appendix Table 1-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1984	9/29	0	0	0	0	0	Aerial count, helicopter - Good		Barrett et al. (1985)
Mainstem (RM 143.3)	1982	9/04	0	0	0	22	0	Ground survey - 100 yards	S32 N01 W31 BCB Spawning	ADF&G (1983a)
	1984	9/01	0	0	0	45	0	Aerial count, helicopter - Good	Spawning	Barrett et al. (1985)
Slough 22 (RM 144.5)	1983	8/18	0	0	0	114	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/25	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/02	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1984)
	1983	9/09	0	0	0	98	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/15	0	0	0	51	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/22	0	0	0	11	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/08	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/17	0	0	0	38	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	8/24	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/02	0	2	0	151	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/10	0	1	0	7	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Slough 21A (RM 145.3)	1981	8/26	0	0	0	5	0	Ground survey - Poor, 100% surveyed		ADF&G (1981)
	1981	9/02	0	0	0	8	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1981	9/11	0	0	0	5	0	Ground survey - Excellent, 100% survey		ADF&G (1981)
	1982	8/04	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/09	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	8/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	9/23	0	0	0	0	0	Ground survey - Excellent, 100% survey		ADF&G (1983b)
	1982	10/25	0	0	0	0	0	Aerial count, helicopter - Fair, 100% surveyed		ADF&G (1983b)
	1983	8/18	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	8/25	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/02	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/09	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/15	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	9/22	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1983	10/03	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1984)
	1984	8/08	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	8/17	0	0	0	10	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)

Appendix Table I-5 (Continued).

LOCATION NAME / (RIVER MILE)	YEAR	DATE	CHINOOK	SOCKEYE	COHO	CHUM	PINK	SURVEY METHOD *	COMMENTS	DATA SOURCE
	1984	8/24	0	0	0	0	0	Ground survey - Poor, 100% surveyed		Barrett et al. (1985)
	1984	9/01	0	0	0	6	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/02	0	0	0	6	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/08	0	0	0	7	0	Aerial count, helicopter - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/10	0	0	0	7	0	Ground survey - Good, 100% surveyed		Barrett et al. (1985)
	1984	9/20	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
	1984	9/26	0	0	0	0	0	Ground survey - Excellent, 100% survey		Barrett et al. (1985)
Mainstem (RM 148.2)	1982	8/18	0	0	0	400	0	Electroshocking - 125 yards	S32 N01 W26 DCA Spawning	ADF&G (1983a)
	1982	9/05	0	1	1	4	0	Electroshocking - 100 yards	S32 N01 W26 DCA Spawning	ADF&G (1983a)

* - Additional survey method information obtained from the original field data forms and interviews with Susitna Aquatic Studies staff.

ANADROMOUS FISH HABITAT SURVEY OF THE PATTON BAY / BEACH RIVER TIMBER HARVEST AREA, MONTAGUE ISLAND

by

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FEBRUARY 4, 1992

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DEPARTMENT OF FISH AND GAME

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1.0 EXECUTIVE SUMMARY

During the period of September 9-13, 1991 the Alaska Department of Fish and Game with assistance from Timber Trading Company (TTC), a subsidiary of Koncor Forest Products Company conducted a field survey to document and map anadromous fish streams within TTC's proposed Patton Bay / Beach River timber harvest area. Timber harvesting is scheduled to begin in 1993 on Montague Island lands owned by Chugach Alaska Corporation, a Regional Corporation formed under the Alaska Native Claims Settlement Act. The purpose of the survey was to identify streams qualifying for protection under the provisions of Anadromous Fish Act and the Forest Practices Act in order to enhance pre-planning for timber harvest in this area.

This survey documented 62 anadromous fish streams totalling 27.6 miles. Fish species observed included coho salmon, pink salmon, and Dolly Varden. Anadromous stream channel measurements found approximately 74% of the total stream length greater than 10 feet in width. Approximately 10% of the streams were less than 5 feet in width. Classification of streams using the criteria in the December, 1991 draft Forest Practice Act (FPA) regulations resulted in 60 Type A streams, 2 Type B streams, and 7 Type C streams.

Using draft FPA riparian buffer regulations, an estimated 266.3 acres consisting of 8.82 million board feet of standing timber were identified for retention in buffers. This represents approximately 4.6% of TTC's estimated acreage of commercial timber in the Patton Bay / Beach River harvest area and 4.8% of their estimated timber volume.

2.0 INTRODUCTION AND PURPOSE

On September 5, 1991, Koncor Forest Products Company (Koncor) entered into a cooperative agreement with the Alaska Department of Fish and Game, Habitat Division to perform a fish survey on approximately 9,000 acres of forested lands in the Patton Bay and Beach River drainages of Montague Island, Prince William Sound. The lands are owned by the Chugach Alaska Corporation which sold the timber rights to Timber Trading Company (TTC) a wholly-owned subsidiary of Koncor in 1988. TTC intends to begin construction of a 38-mile haul road linking Patton Bay with a MacLeod Harbor log transfer facility in 1992. TTC plans to log the Patton Bay / Beach River area once the road is completed.

The purpose of this survey was to attempt to identify all rivers, lakes, and streams within the study area[1] that support anadromous fish and to specify those waters which are afforded protection under the Anadromous Fish Act (AS 16.05.870) and the Forest Practices Act (FPA, AS 41.17.116). Fish habitat protection standards, including riparian buffers, are contained in the December, 1991 draft Forest Resources and Practices Regulations (11 AAC 95) which are pending final promulgation by the Alaska Department of Natural Resources.

Lands to the south and east of the Patton River and Beach River drainages were the subject of a previous anadromous fish survey (Sundberg 1989). That survey focused primarily on CAC lands in MacLeod Harbor and U.S Forest Service lands along the proposed timber haul road. Approximately 81 streams supporting anadromous fish were documented in that survey. Fish species found included coho salmon (*Oncorhynchus kisutch*), pink salmon (*O. gorbuscha*), sockeye salmon (*O. nerka*), Dolly Varden (*Salvelinus malma*), cutthroat trout (*O. clarki*), threespine stickleback (*Gasterosteus aculeatus*), and coastrange sculpin (*Cottus aleuticus*).

Prior to this survey, minimal information existed on fish distribution and habitat in the study area. The Catalog of Waters Important for the Spawning, Rearing, or Migration of Anadromous Fish (ADF&G 1990) listed 21 streams in the study area totalling approximately 15 miles. All of these streams were mapped prior to 1984. The U.S. Forest Service (USFS) Copper River Delta Institute provided several documents from their files that physically describe portions of the Beach River and Nellie Martin River and including escapement estimates for 1960, '61, and '78.

---

[1] In this report, "study area" refers to rivers, lakes, and streams on CAC lands in the Patton Bay and Beach River areas that are connected to the Nellie Martin River, Patton River, or Beach River drainages.

Pink salmon escapement estimates ranged from 250 to 5000; and there was a single coho salmon escapement estimate of 3450 for the Nellie Martin River in 1978. Field notes dated August 20, 1980 describe portions of the Beach River as being unstable with eroding banks. In addition, the USFS conducted a "Level Three" Habitat Survey (no date) of the Upper Nellie Martin River and Braided Creek to the west of the study area. That survey recorded information on gradient, water quality, bank and channel morphology, riparian vegetation, debris loading, substrate composition, and fish habitat quality.

3.0 METHODS

Streams were surveyed during September 9-13, 1991 using a Bell 206 helicopter and two-person teams equipped with backpack electrofishers (Smith and Root, Model #s 11-A, 12, & 15-A). Streams were located on plastic-coated color mosaic aerial photomaps (approximate scale 1 inch = 1,000 feet) and overflown to determine the stream course, location of tributaries, and suitable landing sites. Once the general location and channel patterns of each stream was determined, the helicopter would land near an upper reach suspected of containing anadromous fish. If anadromous fish were found, the team would explore the stream course on foot to determine upper limits of fish usage and to sample associated tributaries. Helicopter and foot surveys continued until all streams with potential fish habitat were located, sampled, and mapped within the study area.

Stream courses, sampling stations, barriers, and other pertinent information were recorded directly on the photomaps with waterproof marking pens. Additional stream sampling data were recorded on two-sided waterproof data forms (Figure 3.0.1). Air and water temperatures were determined using a hand-held thermometer. Stream widths at each station were determined by a fiberglass tape or a "string box" distance measurer using June 7, 1991 draft FPA regulation procedures (11 AAC 97.150(g)). Other stream widths were estimated by visual observation. Substrate, habitat quality, and water clarity were qualitatively rated using the criteria on the survey forms. Stream gradient was determined with a hand-held clinometer. Site photographs were taken using a 35mm camera and ASA 400 color negative film. Channel diagrams illustrating typical cross sections, bed and bank morphology, instream habitat features such as woody debris, and riparian vegetation were sketched at each sampling station. Streams were classified as Type A, B, or C using December, 1991 draft FPA regulations (11 AAC 97.210(c)).

In addition, latitude and longitude coordinates were obtained for many stations using a handheld Magellan Nav 1000 Plus Global Positioning System (GPS) receiver and

Figure 3.0.1 Field Data Form

FISH HABITAT SURVEY Rev. 9/6/91

DATE:_____/ September / 1991 TIME:_____ PLACE: MONTAGUE I.

OBSERVERS:_____ TEAM: A B WATERSHED NO:_____

STREAM NO:_____ STATION NO:_____

WEATHER:	STREAM STAGE:	PRECIP:	
CLEAR	HIGH	TODAY	_____
PRT. CLDY.	MEDIUM	YESTERDAY	_____
CLOUDY	LOW	THIS WEEK	_____

LAT: __ __ ° __ __ . __ __ N LONG: 147 ° __ __ . __ __ W

TEMP °F: AIR __ __ WATER __ __ GRADIENT:____ ° STREAM TYPE: A B C ?

WATER CLARITY:	HABITAT QUALITY: POOR=1...EXCELLENT=5		SUBSTRATE:	
MUDDY	SPAWNING	___	MUD	___
MURKY	REARING	___	SAND	___
STAINED	MIGRATION	___	GRAVEL	___
CLEAR			COBBLE	___
			BLDR/B-ROCK	___
				100 %

CHANNEL DIAGRAM (INCLUDE BANK & STREAM FEATURES, VEGETATION):

STREAM CLASSIFICATION:

STA.	GRADIENT		INCIS.		SUBST.		OBSTRUCT		STR. TYPE		
	≤ 8	> 8	Y	N	S	L	Y	N	A	B	C
0											
1											
2											
3											
4											
5											

STREAM WIDTH: UPSTREAM (+) DOWNSTREAM (-)

STATION	WIDTH			
	0.0	0 +/- 100	0 +/- 200	AVERAGE
0				
1				
2				
3				
4				
5				

FISH SAMPLING: GEAR:_____ TIME:_____ sec AREA:_____ ft² EFFIC:_____ %

CO									
DV									
CT									

WILDLIFE OBSERVATIONS:

an identical backup unit mounted in the helicopter with an external antenna. The receivers were both set to obtain position fixes in the two dimensional (2-D) mode. In 2-D mode, the Magellan Nav 1000 Plus provides a reported absolute accuracy of about ± 34 meters (Practical Sailor 1991). Although the absolute accuracy of these units was not tested in the field, both units provided nearly identical position fixes when tested side-by-side and when they were returned to the same location such as the cabin and helicopter fuel site. When fixes could not be obtained with the handheld unit because of tree trunks, canopy closure, or other obstructions to satellite signals (about 20% of attempted fixes), stations were marked with surveyor's tape and a fix was later obtained by hovering over the marker with the helicopter.

Fish capture techniques involved electrofishing upstream while wading, shocking, and dipnetting likely juvenile fish rearing areas, e.g., undercut banks, woody debris, pools, and backwaters. High pulse frequencies were used (100-120Hz) and voltages were varied depending upon the individual stream conductivity (800-1200VDC) to minimize injury to fish. Following capture, fish were identified to species and measured from the tip of the snout to the fork in the tail. Fish were returned alive to the stream following measurement. Shocking times (number of seconds that voltage was applied to the stream) were recorded from the electrofisher's counter.

Streams were mapped by transferring information from the field photomaps directly to a 1:12,000 scale enlargement of a mylar base map provided by Koncor entitled "Patton Bay Timber Harvest Area". This base map was purportedly developed by scan digitizing U.S. Geological Survey 15-minute quadrangles (Blying Sound D1 & D2, and Seward A2) and enlarging to a scale of 1:31,680.

Once transferred to a registered mylar, the stream course overlay was digitized in AutoCAD (Version 10) and the two files (streams and base map) were mated. Timber volume information was provided by Koncor in a separate digital file registered to the base map. Because of distortion present in the field photomaps, the timber volume map, and the scan digitized base map, it was not possible to precisely register all of the data layers together. In order to produce a map that would convey necessary information, the stream course layer was "rubber sheeted" to provide a best fit to the base map and timber type layers. The required adjustments were relatively minimal and the resulting maps provide a reasonably accurate portrayal of the area. Optimally, orthophoto base maps and field maps are used to ensure precise registry of information layers. However, orthophotos were not available for this area and high precision mapping was not a requirement for this project.

4.0 RESULTS

Field surveys occurred during the period of September 9-13, 1991. Travel from Anchorage via Seward to Montague Island occurred on September 8 and the crew stayed in the CAC "middle" cabin in Patton Bay administered by Harbor Air Service. Rainfall prior to and during the survey was occasionally heavy and the streams were frequently high and murky. However, September 12 was an exceptionally clear day and stream levels dropped and cleared until rain began again on September 13. Daytime air temperatures varied from a high of 62°F to a low of 44°F. Stream temperatures varied from 42°F. to 50°F. Immediately following completion of the field work on September 13, a violent storm with winds in excess of 40 knots and heavy rain extended through September 14 making air travel impossible. Once the weather moderated, the crew was able to return to Anchorage via Seward on September 15.

The following is a daily chronology of the field work:

Field Crew

Christopher Estes, Fishery Biologist, ADF&G Sport Fish Division
Kim Sundberg, Habitat Biologist, ADF&G Habitat Division
Ed Weiss, Habitat Biologist, ADF&G Habitat Division
Mike Wiedmer, Habitat Biologist, ADF&G Habitat Division
Rick Jandreau, Forest Manager, Timber Trading Company
Howard Topley, Pilot, Maritime Helicopters

Sunday, September 8

Sundberg, Weiss, and Wiedmer met at Fish and Game at 1100 to pack food and equipment into the Suburban. The crew departed Anchorage at approximately 1230 and arrived at in Seward at 1500. Jandreau was waiting at Harbor Air and Estes arrived shortly thereafter. Maritime Helicopters' Bell 206 (N301MH) arrived at approximately 1530. We were advised by Harbor Air that the weather between Seward and Montague Island was marginal, with low ceilings and wind, and that we might have to wait until Monday to fly. Topley suggested that we make an attempt because he had recently observed the weather improving from the west. After some discussion, we decided to make an attempt to fly the Beaver and helicopter together to Montague. Harbor Air advised that there would only be enough daylight to complete a single flight and they would attempt to fly the remainder of our gear on Monday. Wiedmer, Weiss and Jandreau in the Beaver and Estes and Sundberg in the helicopter, after loading the essential gear and fueling, left Seward at

approximately 1700. The Magellan was installed in the helicopter and tested OK. The flight enroute was uneventful except for low clouds along the route from Cape Resurrection to Latouche Island.

We landed at Patton Bay at approximately 1800. There were nine drums of Jet A-50 fuel cached above the high tide line, flown in previously by Harbor Air during the week. Sundberg and Wiedmer helicoptered to the cabin and began setting up. The cabin was in fairly good condition but was heavily overgrown with shrubs and grass. Wiedmer had to crawl onto the roof to replace the stove pipe that had blown off. After clearing the area in front of the cabin, the helicopter was used to sling in our gear and supplies. Estes, Weiss, and Jandreau arrived shortly thereafter. We spent the rest of the evening unpacking gear and setting up the cabin.

Monday, September 9

Weather was cloudy with occasional rain. Heavy rain in previous days had left streams high and muddy. After assembling gear we went over sampling procedures and divided into two teams: Team A - Sundberg, Estes, and Jandreau and Team B - Wiedmer and Weiss. The sampling crews were both transported by helicopter to Braided Creek (Stream #227-30-17790-2042-3010) to complete a trial station (0901.0). Each station was numbered by a four digit number and a dot extension. The first two digits were for the day of the month, the second two digits were the sequential order of streams sampled that day, e.g. 01, 02, 03 ..., and the extension was for multiple stations along a stream. Each station number was additionally prefixed with A or B by the respective team doing the sampling. Team A used a handheld Magellan Nav 1000 Plus to determine the position of stations. After going through the complete procedures at the trial station, both teams split up to begin sampling.

The remainder of the day was spent sampling streams on the southwest portion of TTC's timber holdings including Braided Creek and the Patton River. Team A concentrated on clear water streams and Team B concentrated on turbid (Patton River) distributaries. Team A found that one major clear water drainage of the timber stand west of the Patton River (#227-30-17790-2032-3004-4011-5076 & 5078) was partially obstructed by two falls approximately 40 inches high that flowed over a muskeg escarpment. These falls were initially thought to block anadromous fish migration upstream. However, Team B documented a coho salmon juvenile in one tributary upstream of these falls. The remainder of the day was spent shocking clearwater tributaries to locate the upper limit of anadromous fish and to delineate distributaries of the Patton River.

Rain was heavy overnight.

Tuesday, September 10

Weather was cloudy with rain, occasionally heavy. Sampling concentrated in central and northern portions of TTC's timber holdings including several distributaries of the Patton River (#s 227-30-17790-2028 & 2032) and a major Nellie Martin River tributary (#227-30-17790-2018). We found that many of the Patton River "streams" that show on the 1990 aerial photos were old overflow channels that were dry despite the heavy rains. The central portion of the Patton River drainage consists of a wide alluvial fan of gravel and cobble that absorbs surface water from the upper Patton River drainage basin, flows subsurface in places, and resurfaces downstream into new streams. This alluvial fan forms the upper limit of many of the fish streams. At least three main channels of the Patton River traverse the alluvial fan and provide access for pink and coho salmon to the upper Patton River. The lower portion of stream #227-30-17790-2028 which appears turbulent from the air was inspected for obstructions to migration. No obstructions were found although the channel is actively eroding its muskeg banks and velocities are high in this reach of the stream. The Patton River was high and milky at the time. The turbidity of the Patton River originates in small hanging glaciers and permanent snow fields in the Patton River valley.

A major anadromous stream was found along the eastern and northern perimeter of the timber stand east of the Patton River (#227-30-17790-2018). Several thousand live and dead pink salmon were found spawning up to base of the mountains. Another extension of this tributary was found to contain both pink and coho salmon.

An aerial survey to locate stream channels was conducted over the timber stand east of the Patton River by flying slowly (approximately 30 knots) in a zig-zag pattern. This survey revealed that many of the channels showing on aerial photos are dry and do not contain fish.

Rain was occasionally heavy overnight.

Wednesday, September 11

Weather was cloudy with rain, heavy at times. Sampling concentrated on the central and upper portions of the Patton River and on lower tributaries that drain the central portion of the Patton River timber stand. The upper-most identified limit of pink spawning in the Patton River was documented in a tributary within the upper Patton River valley. Coho salmon were documented in another clear water tributary

within the valley. Coho and pink salmon were not previously documented in the Patton River above the valley mouth (Sundberg 1989).

Surveys of tributaries to #227-30-17790-2018 found hundreds of live and dead pink salmon and coho juveniles up to the Patton River alluvial fan. During aerial surveys to locate sampling locations, three brown bears were observed fishing for salmon on the middle reach of #227-30-17790-2018-3041-4031. All streams were walked and sampled to the upper limit of fish habitat. We noted that streams in this area flow subsurface at the boundary of the lower area of the timber stand and the Patton River alluvial fan.

The sky began to clear by evening and there was no rain overnight.

Thursday, September 12

Weather was clear and calm all day. Stream levels continued to drop and water clarity improved. Sampling concentrated on tributaries to the middle section of Beach River and short coastal streams draining the northern portion of Koncor's timber holdings in the Beach River basin. At the head of Beach River, spawning pink salmon were observed 1.5 miles below a small hanging glacier. This observation extended the range of pink salmon 5.5 miles above the previously documented upper limit.

Stream #227-30-17779 was walked and the upper limit of pink spawning was documented. This stream is braided with an unstable gravel and cobble bed; little rearing habitat is available. A clear water side tributary on the south side of this stream has a falls and velocity chute flowing over clay that creates a fish migration block.

Friday, September 13

Weather turned cloudy during the morning with periodic drizzles. However, stream levels did not significantly rise and water clarity remained good. Surveys concentrated on streams flowing through heavily forested areas north of the middle and lower sections of Beach River.

Spawning pink and rearing coho salmon were documented to the base of the mountains in two northern tributaries to Beach River (#s 227-30-17780-2038 & 3010). However, no anadromous fish were observed in the upper portions of the main northern tributary (#227-30-17780-2038-3019). This system was found to be

very flashy, had unstable channels, and recent floods had moved a large amount of bed load.

Stream surveys were completed this afternoon.

During the afternoon, westerly winds began to increase. The National Weather Service forecasted gale warnings. During the return flight from Beach River to Patton Bay we circled over Box Point and noted that the cove inside of Box Point afforded moderate protection from winds and seas in Patton Bay. Based on the helicopter's air speed indicator, the winds were estimated from the west at 30 to 40 knots.

High winds and heavy rain occurred overnight.

Saturday, September 13

Strong winds, heavy rain, and low ceilings prevented Harbor Air from meeting our scheduled noon pickup. The day was spent in the vicinity of the cabin.

Sunday, September 14

The winds and rain abated in the morning. Fog and low clouds in Seward prevented Harbor Air from arriving during the noon low tide. Faced with a forecasted storm on Monday and the prospects of spending several more days waiting for a fixed-wing pickup, we decided to leave via the helicopter.

After slinging the gear from the cabin to the beach, Weiss, Estes, and Jandreau left on the first helicopter flight with personal gear at 1400. Sundberg and Wiedmer left on the second flight with additional personal gear at 1700. Equipment, non-essential gear, and six empty fuel drums were tarped and left in a cache above high tide for later pickup by Harbor Air. In addition, three full fuel drums were cached above the storm tide line.

After arriving in Seward at 1800, we loaded the Suburban and returned to Anchorage at 2100. The cached gear and empty drums were picked up by Harbor Air on the following Wednesday.

4.1 Fish Distribution

Sixty-two anadromous fish streams totalling 27.6 miles were identified within the study area. Fish species observed included coho salmon, pink salmon, and Dolly Varden.

Maps 6.1, 6.2 and 6.3 show the distribution of fish habitat in the study area. The timing of this survey appears to have coincided with the maximum seasonal freshwater distribution of anadromous fish. In many streams accessible to fish, pink salmon were found spawning up to the base of the mountains. Judging from the large number of adult pink salmon observed, their occurrence in the upper reaches of the streams, and the large proportion of live spawners to dead, this survey appears to have coincided with the peak of pink salmon spawning in this area.

All coho salmon captured were either 0+ or 1+ age juveniles; no adult coho spawners were found. This suggests that coho spawning occurs here later than September 13. Heavy rains before and during the survey occasionally caused high water conditions that made wading and electrofishing difficult. However, the high water allowed both adult and juvenile fish access to upper reaches of streams which may otherwise be inaccessible at other times in the year.

4.2 Stream Widths

Tables 4.2.1 and 4.2.2, Figure 4.2.1, and Maps 6.4 and 6.5 summarize stream lengths and widths for the study area. Approximately 74% of the total stream length is greater than 10 feet in width. Approximately 10% of the streams are less than 5 feet in width. The FPA (AS 41.17.087) requires the Division of Forestry to grant a variance for reduced riparian buffer widths on low gradient streams five feet or less in width and for "other appropriate water body types" defined in regulation. The definition of other appropriate water body types and the application of prescriptive variances in the FPA regulations were not resolved at the time of this report.

Table 4.2.1 Anadromous Stream Lengths by Width Class

PATTON BAY					BEACH RIVER				
STREAM #	STREAM LENGTH BY WIDTH CLASS (FEET)				STREAM #	STREAM LENGTH BY WIDTH CLASS (FEET)			
	<5	5-10	10-20	>20		<5	5-10	10-20	>20
2018			10,118	4,143	2004			3,733	
2028				9,489	2010	1,308	1,195		
2032				5,719	2018		1,995	1,095	
2042				912	2020			468	
3004			846	5,761	2028		2,783	3,585	
3010				1,571	2009			277	
3025	3,183				2038				7,098
3033	2,139				2046		1,125	1,602	979
3041(2018)			3,378		2047				2,572
					2055				688
3041(2028)			1,014	1,702	2057				729
3044			789		3010			6,029	
3051	1,315	3,710			3012		1,165		
					3019(2078)				1,659
3054	1,135	1,001			3019(2047)			377	
3066			983		3020(2018)	351	1,084		
4007	655				3020(2028)		2,351		

Table 4.2.1 (Continued) Anadromous Stream Lengths by Width Class

PATTON BAY				
STREAM #	STREAM LENGTH BY WIDTH CLASS (FEET)			
	<5	5-10	10-20	>20
4011(2018)	578			
4011(2032)		1,113	972	1,402
4026		718		
4031		833		
4035		601		
4040(2028)			212	
4040(2042)			2,583	
4046		197	710	
5040	138	593		
5060		284		
5075	360			
5076		355	1,388	
5078		480		
6031	159			
6035	150			
6039	153			

BEACH RIVER				
STREAM #	STREAM LENGTH BY WIDTH CLASS (FEET)			
	<5	5-10	10-20	>20
3025	1,253			
3035	596	816		
3036		933		
3037	301			
3045	194			
3067			326	
3079				227
4031	708			
5020	148			
5024	172			
17780				21,447
17783				3,667
17779			454	1,601

Table 4.2.1 (Continued) Anadromous Stream Lengths by Width Class

PATTON BAY					BEACH RIVER				
STREAM #	STREAM LENGTH BY WIDTH CLASS (FEET)				STREAM #	STREAM LENGTH BY WIDTH CLASS (FEET)			
	<5	5-10	10-20	>20		<5	5-10	10-20	>20
6060			596						
TOTAL FT.	9,965	9,885	23,589	30,699		5,031	13,614	17,679	40,667
TOTAL MI.	1.75	1.74	4.15	5.40		0.95	2.58	3.35	7.70

Figure 4.2.1 Proportion of Anadromous Stream Lengths by Width Class

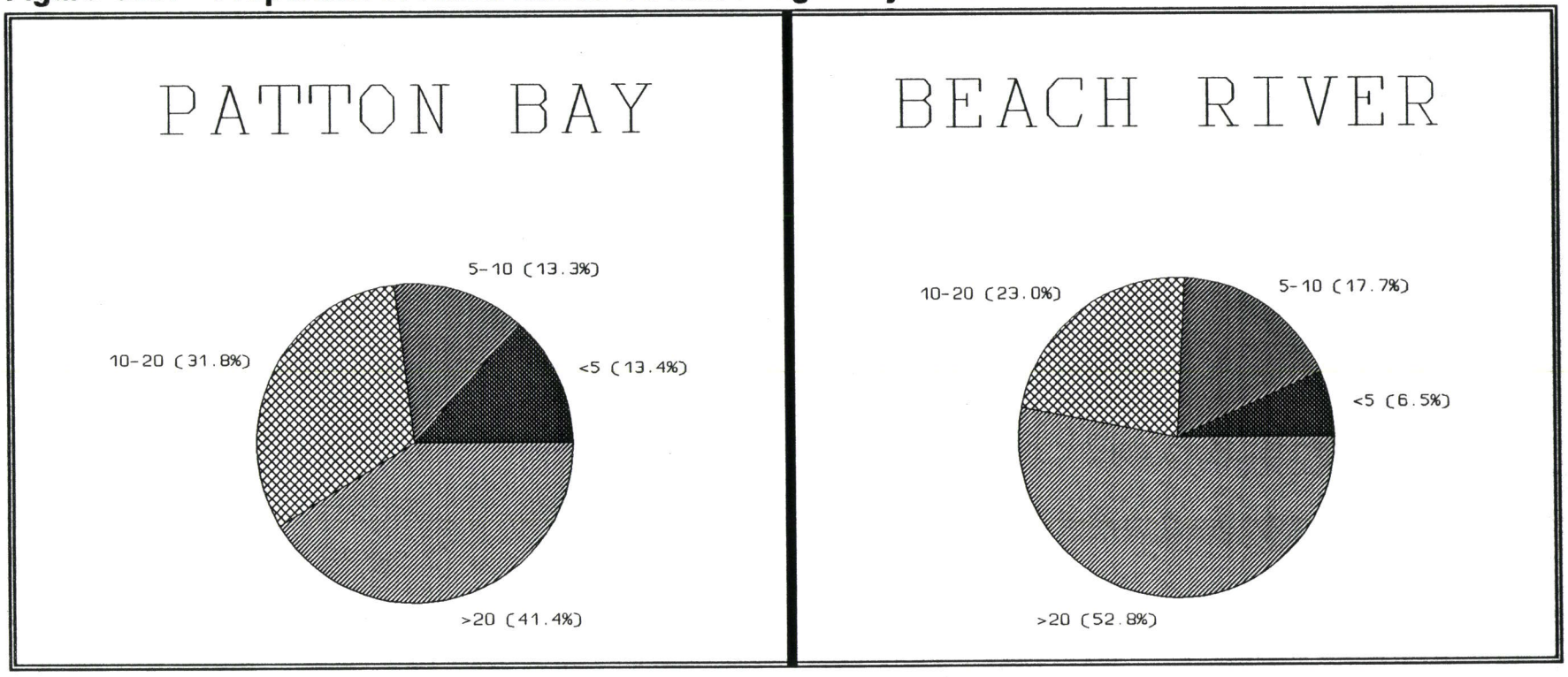

Table 4.2.2 shows the application of proposed FPA stream measurement regulations (11 AAC 97.820) to 53 sampling stations. The location of sampling stations and associated stream measurement reaches was generally governed by the upper limits of fish distribution and suitable conditions for fish sampling. If other criteria were used for locating stream measurement reaches, the resultant average widths could vary. Incremental stream width measurements varied as much as 50% from the average. However, in most cases, standard deviations were low and the procedure of averaging three measurements over 200 feet appears to provide a reasonable approximation of stream width for a given reach.

Table 4.2.2 Stream Widths Measured at Sampling Stations

STATION NUMBER	WIDTH IN FEET				
	0 ± 0	0 ± 100	0 ± 200	AVERAGE	STANDARD DEVIATION
A0901.0	28	37	31	32.0	10.1
A0902.1	9	11	14	11.3	2.1
A0903.0	7	22	13	14.0	6.2
A0903.1	10	5	7	7.3	2.1
A1003.2	12	18	8	12.7	4.1
A1004.2	7	9	8	8.0	0.8
A1101.1	9	7	10	8.7	1.2
A1102.1	14	11	5	10.0	3.7
A1103.1	2	5	3.5	3.5	1.2
A1104.1	4	6	5	5.0	0.8
A1201.1	11	28	18	19.0	7.0
A1202.1	7	4	5	5.3	1.2
A1203.1	12	7	11	10.0	2.2
A1203.2	9	66	42	39.0	23.4
A1203.3	3	6	6	5.0	1.4
A1301.1	3	3	5	3.7	0.9
A1302.1	5	4	5	4.7	0.5

Table 4.2.2 (Continued) Stream Widths Measured at Sampling Stations

STATION NUMBER	WIDTH IN FEET				
	0 ± 0	0 ± 100	0 ± 200	AVERAGE	STANDARD DEVIATION
A1303.1	4	4	5	4.3	0.5
A1304.1	3	4	4	3.7	0.5
A1305.1	3	5	7	5.0	1.6
A1306.1	3	2	3	2.7	0.5
A1307.1	2	4	4	3.3	0.9
B0901	12.7	15.6	11.7	13.3	1.7
B0902	14.3	28.9	21.8	21.7	6.0
B0903	14	15.3	15.6	15.0	0.7
B0904	24.4	22.4	32.5	26.4	4.4
B1001	7	7.3	6.7	7.0	0.2
B1002	8.4	7.5	10.3	8.7	1.2
B1003	3	2.4	4.5	3.3	0.9
B1004	3	4	7	4.7	1.7
B1005	5.3	3	4.2	4.2	0.9
B1005.1	8	7	5	6.7	1.2
B1101.0	2	1	2.5	1.8	0.6
B1101.1	7.2	8.4	8	7.9	0.5
B1103	700	700	700	700.0	0.0
B1104.0	23.9	21.7	26.5	24.0	2.0
B1104.1	9.5	15.1	27.3	17.3	7.4
B1104.2	27	22.1	20.4	23.2	2.8
B1105.0	14	11.7	12	12.6	1.0
B1105.1	11	11.8	7.2	10.0	2.0
B1105.2	7	5.3	7	6.4	0.8

Table 4.2.2 (Continued) Stream Widths Measured at Sampling Stations

STATION NUMBER	WIDTH IN FEET				
	0 ± 0	0 ± 100	0 ± 200	AVERAGE	STANDARD DEVIATION
B1201.0	15	17	18.5	16.8	1.4
B1201.1	30.5	38	26.5	31.7	4.8
B1201.2	24	45	36	35.0	8.6
B1202	20	16	15	17.0	2.2
B1203	160	120	140	140.0	16.3
B1204	6.8	5.9	7.8	6.8	0.8
B1301.0	34.8	22.2	20.2	25.7	6.5
B1301.1	12.5	24	18	18.2	4.7
B1301.2	32.3	12.5	19.4	21.4	8.2
B1301.3	3.5	4.5	5	4.3	0.6
B1303.0	59	120	130	103.0	31.4
B1303.1	19	28.7	23	23.6	4.0

4.3 Stream Habitat Factors

Tables 4.3.1 and 4.3.2 summarize stream habitat factors observed at 59 sampling stations. Stream classification using December, 1991 draft FPA regulation criteria in 11 AAC 97.210(c) resulted in 60 Type A streams, 2 Type B streams and 7 Type C streams. Habitat quality ratings varied from non-existent to excellent with averages ranging from fair to slightly above average. When considering habitat ratings, two important qualifiers should be kept in mind. First, sampling stations were usually located near the upper extremes of fish usage. Consequently, habitat ratings are biased towards lower ratings at sampling stations relative to the entire stream. Second, habitat factors are based on subjective criteria that can vary with the observer and stream conditions at the time of the survey. Habitat ratings provide only a general indication of a stream's importance to fish usage and production.

Table 4.3.1 Stream Habitat Factors at Patton Bay Sampling Stations

STATION	STREAM NUMBER	TYPE	FISH SPECIES OBSERVED	HABITAT RATING			WATER CLARITY	OBSERVERS
				S	R	M		
A0901.0	3010	A	CO	5	4	5	Turbid	KS, CE, RJ
A0902.1	4040(2042)	A	P, CO, DV	4	5	5	Turbid	KS, CE, RJ
A0903.0	4011(2032)	A	P, CO	2	4	5	Murky	KS, CE, RJ
A0903.1	4011(2032)	A	P	1	4	2	Stained	KS, CE, RJ
A1001.3	5076	C	DV	2	4	1	Clear	KS, CE, RJ
A1003.2	2018	A	CO	3	4	4	Clear	KS, CE, RJ
A1004.2	3051	A	P, CO, DV	3	5	4	Clear	KS, CE, RJ
A1004.3	3051	C	NONE	0	3	1	Clear	KS, CE, RJ
A1101.1	4031	A	P, CO, DV	3	4	3	Clear	KS, CE, RJ
A1102.1	3041(2018)	A	CO	2	2	2	Clear	KS, CE, RJ
A1103.1	3033	A	P, CO	1	4	3	Stained	KS, CE, RJ
A1104.1	3025	A	P, CO, DV	1	4	3	Stained	KS, CE, RJ
B0901	3004	A	CO	4	4	4	Turbid	MW, EW
B0902	6060	A	P	4	4	4	Clear	MW, EW
B0903	4040(2042)	A	CO	4	3	3	Turbid	MW, EW
B0904	3004	A	P	3	2	2	Turbid	MW, EW
B1001	4046	A	P, CO	1	3	3	Clear	MW, EW
B1002	5060	A	P, CO	2	4	4	Clear	MW, EW

Table 4.3.1 (Continued) Stream Habitat Factors at Patton Bay Sampling Stations

STATION	STREAM NUMBER	TYPE	FISH SPECIES OBSERVED	HABITAT RATING			WATER CLARITY	OBSERVERS
				S	R	M		
B1003	6031	A	P, CO	2	4	2	Clear	MW, EW
B1004	6035	A	P, CO	3	4	2	Clear	MW, EW
B1005	6039	A	P, DV	2	3	3	Clear	MW, EW
B1005.1	4046	A	CO	4	3	3	Clear	MW, EW
B1101.0	3028	A	P, CO	2	3	2	Clear	MW, EW
B1101.1	3028	A	P	3	3	4	Clear	MW, EW
B1102	NONE	C	NONE	4	3	4	Clear	MW, EW
B1103	2028	A	CO	1	1	2	Turbid	MW, EW
B1104.0	3041(2028)	A	CO	4	2	4	Clear	EW, MW
B1104.1	3041(2028)	A	CO	4	4	4	Clear	EW, MW
B1104.2	3041(2028)	A	CO	4	4	4	Clear	EW, MW
B1105.0	3044	A	CO, DV	4	2	4	Clear	EW, MW
B1105.1	3044	A	CO, DV	4	4	4	Clear	EW, MW
B1105.2	3044	A	CO, DV	2	2	2	Clear	EW, MW
AVERAGE				2.8	3.4	3.2		

Spawning(S), Rearing(R), Migration(M) Rating: 0=Non-existent, 1=Poor, 2=Fair, 3=Average, 4=Good, 5=Excellent
Observers: KS=K.Sundberg, CE=C.Estes, RJ=R.Jandreau, MW=M.Wiedmer, EW=E.Weiss

Table 4.3.2 Stream Habitat Factors at Beach River Sampling Stations

STATION	STREAM NUMBER	TYPE	FISH SPECIES OBSERVED	HABITAT RATING			WATER CLARITY	OBSERVERS
				S	R	M		
A1201.1	17779	B	CO	2	1	3	Clear	KS, CE, RJ
A1202.1	2020	B	CO, DV	3	4	2	Clear	KS, CE, RJ
A1203.1	2004	A	P, CO, DV	2	5	4	Clear	KS, CE, RJ
A1203.2	3079	A	CO	2	1	3	Clear	KS, CE, RJ
A1203.3	2004	A	P, CO	2	4	2	Clear	KS, CE, RJ
A1301.1	2010	A	P	1	4	3	Clear	KS, CE, RJ
A1302.1	3025	A	CO, DV	2	3	2	Clear	KS, CE, RJ
A1303.1	3020	A	P, CO	1	3	2	Clear	KS, CE, RJ
A1304.1	4031	A	P	1	3	3	Clear	KS, CE, RJ
A1305.1	2018	A	P, CO	2	4	3	Clear	KS, CE, RJ
A1306.1	3037	A	P, CO	2	3	2	Clear	KS, CE, RJ
A1307.1	3035	A	P, CO	1	5	4	Stained	KS, CE, RJ
B1201.0	ABOVE 2047	C	DV	1	1	2	Clear	MW, EW
B1201.1	2047	A	CO, DV	2	3	2	Clear	MW, EW
B1201.2	2047	A	CO	2	2	3	Clear	MW, EW
B1202	3019	A	CO	5	3	3	Clear	MW, EW
B1203	17780	A	CO	3	2	5	Clear	MW, EW
B1204	2046	A	P	1	5	1	Clear	MW, EW

Table 4.3.2 (Continued) Stream Habitat Factors at Beach River Sampling Stations

STATION	STREAM NUMBER	TYPE	FISH SPECIES OBSERVED	HABITAT RATING			WATER CLARITY	OBSERVERS
				S	R	M		
B1205	NONE	C	NONE				Clear	MW, EW
B1206	NONE	C	DV				Clear	MW, EW
B1301.0	3010	A	CO	4	5	4	Clear	MW, EW
B1301.1	3010	A	CO	4	4	4	Clear	MW, EW
B1301.2	3010	A	P, CO	4	5	4	Clear	MW, EW
B1301.3	3010	A	P, CO	3	3	2	Clear	MW, EW
B1302	ABOVE 3019	C	NONE	0	0	0	Turbid	EW, MW
B1303.0	2038	A	P, CO	3	1	4	Clear	EW, MW
B1303.1	2038	A	P, CO	3	3	3	Clear	EW, MW
AVERAGE				2.2	3.1	2.8		

Spawning(S), Rearing(R), Migration(M) Rating: 0=Non-existent, 1=Poor, 2=Fair, 3=Average, 4=Good, 5=Excellent
Observers: KS=K.Sundberg, CE=C.Estes, RJ=R.Jandreau, MW=M.Wiedmer, EW=E.Weiss

4.4 Buffer Analysis

The Forest Practices Act (FPA) and associated draft regulations require the retention of riparian buffers along anadromous and high value resident fish streams. These buffers are required to maintain, among other things, water quality, bank cover, riparian vegetation, temperature moderation, and a long-term source of large woody debris for protection of aquatic habitat. On private lands, including the lands involved in this survey, riparian buffers 66 feet in width are required on both sides of type A streams greater than 5 feet in width. On Type A streams less than 5 feet, and "other appropriate water bodies" (which have not been defined at the time of this report), a prescriptive variance reduces the no-harvest buffer to 25 feet on each side of the stream. Harvesting of up to 25% of the available trees between 25 to 66 feet of the stream is allowed automatically for streams less than 5 feet and other appropriate water bodies; and through an application for a variance according to procedures in the FPA regulations for Type A streams greater than 5 feet in width.

TTC and Koncor have estimated timber volumes within the study area based upon air photo interpretation and several on-ground timber cruises. This information was provided to ADF&G by Koncor for the purposes estimating timber volumes contained in riparian buffers required under the FPA. The timber volume data, provided in an AutoCAD file, consisted of mapped polygons depicting four volume classes: 60 MBF/acre (thousand board feet per acre), 33 MBF/acre, 26 MBF/acre, and 20 MBF/acre. The volume class polygons were registered to Koncor's base map. As described previously, the stream map was adjusted with the timber volume map to achieve a best fit because of a small degree of distortion in registration between the timber volume, stream and base map layers.

Sixty-six foot buffers were inscribed along Type A streams greater than 5 feet in width and 25 foot buffers were inscribed along the remaining Type A streams. The areas within the resultant buffer corridors were then calculated by volume class for each stream and summed for the Patton Bay and Beach River harvest areas. No attempt was made to estimate timber volumes within the 25 to 66 foot portion of buffers where up to 25% of the trees can be harvested because the data needed to correlate tree numbers to timber volume will not be available until the trees allowed for removal are identified during the FPA notification process.

Tables 4.4.1 and 4.4.2 and Maps 6.6 and 6.7 show the results of the buffer analysis. A total of 266.3 acres consisting of 8.82 MMBF (million board feet) were estimated for retention in buffers. These totals assume that no trees would be retained within 25 to 66 feet along streams less than 5 feet in width (about 10% of the total stream

length in the study area) and all trees would be retained within 25 to 66 feet along the remaining Type A streams. As described previously, the actual buffer volume may be less. It was not possible to calculate precise volumes in buffers given the combined uncertainties of volume per retained tree and unresolved variance provisions in the FPA regulations. Riparian buffers estimated in this analysis encompass approximately 4.6% of TTC's estimated acreage of commercial timber in the Patton Bay/Beach River harvest area (5,785 acres) and 4.8% of the estimated volume (182.65 MMBF). Buffers were not calculated for stream #s 221-30-17788 & 17786 because width data were not available.

Table 4.4.1 Estimated Area And Timber Volume Within Patton Bay Riparian Buffers

STREAM NUMBER	BUFFER AREA (FT^2) BY VOLUME CLASS			
	20 MBF/A	26 MBF/A	33MBF/A	60MBF/A
3044		23,754	73,220	
4026			47,156	
3041			34,041	
2028	111,933		285,534	130,468
2032+			1,728,619	
4040	104,379		214,353	
3025		179,615	4,894	
3033		74,376	56,682	
3041	12,100	205,803	122,992	85,787
4020	1,799			
3011	14,796			
2018+	19,335	389,120	807,485	569,171
3051		60,719	355,639	85,023
TOTAL SQUARE FEET	288,096	909,633	3,730,615	870,449
TOTAL ACRES	6.1	21.4	85.6	20.0
TOTAL ACRES IN BUFFERS	133.1			
TOTAL BUFFER VOLUME BY CLASS (MBF)	121.4	557.1	2,826.2	1,199.0
TOTAL VOLUME IN BUFFERS (MMBF)	4.70			

Table 4.4.2 Estimated Area And Timber Volume Within Beach River Riparian Buffers

STREAM NUMBERS	BUFFER AREA (FT^2) BY VOLUME CLASS			
	20 MBF/A	26 MBF/A	33 MBF/A	60 MBF/A
17779		261,479		
2004		600,348		
3045		8,870		
3025		3,038		
3020		16,151		
3037		39,375		
3035		57,754		
2028			1,001,218	
2032			223,748	
3010		92,746	553,159	
3019			201,383	
2038			314,863	
2047	53,178			
17780		522,532	1,851,069	
TOTAL SQUARE FEET	53,178	1,602,293	4,145,440	0
TOTAL ACRES	1.2	36.8	95.2	0
TOTAL ACRES IN BUFFERS	133.2			
TOTAL BUFFER VOLUME BY CLASS (MBF)	24.4	956.4	3,140.5	0
TOTAL VOLUME IN BUFFERS (MMBF)	4.12			

5.0 DISCUSSION

5.1 Stream Protection Measures

Approximately 28 miles of anadromous fish streams were documented on CAC lands in the TTC's Patton Bay / Beach River timber harvest area. These streams produce salmon and char resources that are harvested in commercial and sport fisheries and provide an important source of food for wildlife indigenous to Montague Island including brown bear, bald eagles, waterfowl, mink, river otter, harbor seal, and Steller sea lion. The provisions of the Forest Practices Act and Title 16 prescribe protective measures for fish habitat that include, among other things, requirements for permits for instream work, felling and yarding near streams, and retention of riparian buffers. There are no statutory requirements for protection of wildlife habitat.

This survey documented the high value of riparian areas in this area to fish and wildlife. In particular, we observed that juvenile coho salmon were most often associated with large woody debris and instream habitats controlled by large woody debris including pools, undercut banks, and root wads. Other studies have documented that streamside timber may benefit pink salmon productivity by enhancing bed stability and constancy of flow and water temperature. Observations made during this survey support these findings. In areas of extreme channel instability caused by high bedload movement, particularly portions of the Patton River and Beach River tributaries, streamside timber and associated root complexes were observed to be providing the only natural resistance to additional braiding and stream fragmentation that would otherwise block or hinder the migration of pink salmon and coho salmon to upstream spawning and rearing habitat. Additionally, wildlife and their sign including brown bear, bald eagle, and deer were regularly observed along streams and riparian areas. Riparian vegetation in addition to Sitka spruce included western hemlock, alder, willow, salmonberry, currant, huckleberry, devil's club, ferns, skunk cabbage, grass, sedge, and moss.

It was not possible during this survey to determine the optimum configuration of buffers; that is best accomplished during the Forest Practices Notification process when needed information is available including proposed road layouts, harvest techniques, wind firmness, and other factors. At this point in the planning process, maintaining 66 foot buffers along either side of the identified anadromous fish streams greater than 5 feet in width and 25 foot buffers along streams less than 5 feet in width would be expected to provide a moderate level of protection for fish habitat. Widening buffer widths in some areas to compensate for windthrow and instability and allowing selective harvest in other buffers where fish habitat needs can

be met can be addressed through additional site-specific evaluation and the Forest Practices variance procedures. Wildlife needs can be partially met through riparian buffers prescribed by Forest Practices. Widening riparian buffers, particularly at lower elevations and adding beach fringe buffers would likely add the greatest additional benefit to wildlife.

5.2 Enhancement Opportunities

During the survey, field crews looked for opportunities where fish habitat could be enhanced through removal of stream blockages, development of spawning channels and rearing areas, stabilizing stream beds, etc. Enhancement is defined as actions that could be taken by Koncor and/or TTC to benefit fisheries production that are in addition to meeting basic Forest Practices and Title 16 requirements.

Previous surveys (Sundberg 1989) identified opportunities for fish habitat enhancement along the proposed MacLeod Harbor - Patton Bay road. That report recommended off-channel rearing ponds and spawning channels in MacLeod Harbor streams and the Patton River and log-jam barrier removal in two unnamed streams in Jeanie Cove.

During this survey, two sites with potential for fish habitat enhancement were identified. In the Patton River system, stream #s 227-30-17790-2032-3004-4011-5076 & 5078 are partially obstructed by falls at their outlets. The falls are formed by a muskeg terrace which is perched approximately 40 inches above the level of stream #4011. The falls are a migration block for pink salmon and appear to inhibit, but not prevent upstream migration by coho salmon as evidenced by one juvenile coho salmon which was sampled upstream in stream #6060. Stepping or removal of these barriers would improve anadromous fish access to about 2819 feet of available upstream spawning and rearing habitat.

Portions of the Patton River exhibit heavy braiding, extensive bedload movement, and widely fluctuating flows; conditions which are adverse to optimum spawning and rearing conditions. However, effectively stabilizing the channel and stream bed to enhance fish production would be an extensive undertaking and is probably not cost effective. Development of off-channel groundwater-fed ponds to provide additional spawning and rearing habitat may be feasible and should be investigated in conjunction with identification of gravel sites for road and pad construction.

5.3 Wildlife Observations

Wildlife and signs of wildlife were observed incidental to stream surveys. Most streams had well-traveled game trails along the banks. Partially eaten pink salmon carcasses and brown bear tracks were regularly observed on stream banks and along trails in nearly all riparian areas adjacent to pink spawning. A bear food cache in a hollow stump was found with the remains of a deer along stream #227-30-17780-2010-3025. A group of three brown bears were observed from the helicopter feeding on salmon on a tributary to the Nellie Martin River (#227-30-17790-2018-3041-4031). Our observations indicate that both the Patton Bay and Beach River areas are important feeding areas for brown bears and may seasonally attract bears from other areas of Montague Island.

Sitka black-tailed deer were observed primarily in the Beach River system and in alpine areas between Patton Bay and the Beach River drainage. Deer sign (tracks and pellets) were frequently seen along streams in both Patton Bay and Beach River. The highest observed density of deer associated with stream surveys (primarily does and fawns) was in the middle Beach River timber stand north of the main channel and south of stream #227-30-17780-2038-3010. Judging from the frequency of sign, the deer population appears to be healthy.

Birds noted included bald eagle, Steller's jay, chestnut-backed chickadee, woodpecker (drumming), hermit thrush, varied thrush, and brown creeper. One suspected active bald eagle nest was observed within the Patton Bay beach forest fringe along stream #227-30-17790-2018.

5.4 Literature Cited

Alaska Department of Fish and Game (ADF&G). 1990. An atlas to the catalog of waters important for the spawning, rearing, or migration of anadromous fish. Southcentral Region, Resource Management, Region II. Map Nos. 50 - D1 & D2, and 53 - A2.

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