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**1990
ANNUAL REPORT**



**COMMERCIAL FISHERIES
ENTRY COMMISSION**

State of Alaska

COMMERCIAL FISHERIES ENTRY COMMISSION

	Walter J. Hickel Governor State of Alaska
COMMISSION	Bruce Twomley, Chairman Rich Listowski, Commissioner Phil Smith, Commissioner
ADJUDICATIONS	Frank Glass Managing Hearing Officer
ADMINISTRATION AND DATA PROCESSING	Roger Kolden, Manager
LICENSING	Christine Kelly Licensing Administrator
RESEARCH	Kurt Schelle, Manager
OFFICE LOCATION	8800 Glacier Highway #109 Juneau, Alaska
MAILING ADDRESS	8800 Glacier Highway #109 Juneau, AK 99801
TELEPHONE	(907) 789-6160 - Main Number (907) 789-6150 - Licensing Only
FAX	(907) 789-6170
KODIAK LICENSING OFFICE	Beverly Burns c/o Department of Fish and Game 211 Mission Road Kodiak, AK 99615 Telephone (907) 486-4791
TYPIST FOR ANNUAL REPORT	Beccy Kalwara Commission Secretary
COVER	"Salmon Run" Designed by Sandy Samaniego

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The Commercial Fisheries Entry Commission operates all of its public programs and activities free from discrimination on the basis of race, religion, color, national origin, age, sex or handicap. Because the commission receives federal funding, any person who believes he or she has been discriminated against should write to:

O.E.O.
U.S. Department of Interior
Washington, D.C. 20240

(Pursuant to AS 16.48.980, this report is the Commission's annual report to the Legislature.)

INTRODUCTION

The Commercial Fisheries Entry Commission (CFEC) is an exempt, independent, quasi-judicial agency responsible for promoting the conservation and sustained yield management of Alaska's fisheries resources and the economic health and stability of commercial fishing in Alaska by regulating entry into the fisheries in the public interest.

To meet these responsibilities, the commission is organized into four operating Sections (Adjudications, Research, Licensing, and Administration/Data Processing; see, chart: "Organization by Agency Function") and engages in the following activities mandated by law (AS 16.43.010-990):

Establishes maximum numbers of entry permits for fisheries to be limited, and implements application processes and systems to rank eligible applicants according to the relative hardship they would suffer by not receiving an entry permit from the state for a limited fishery.

Processes entry permit applications and adjudicates claims not resolved in initial classification;

Issues entry permits in limited fisheries, interim-use permits in unlimited fisheries, and licenses for all vessels as required to legally participate in the State's commercial fisheries;

Processes requests for emergency and permanent transfers of entry and interim-use permits, and compiles data on all such transfers;

Enforces provisions of the Limited Entry Act by regulating permit transfer activities, conducting investigations, and initiating administrative enforcement proceedings;

Monitors unlimited fisheries to assess the rate of development and the potential need for limitation;

Monitors limited fisheries to obtain information needed for setting optimum numbers in those fisheries, and to determine the need for fleet reduction.

Participates in the research and development of comprehensive fisheries

economic data, and disseminates same to policy makers and members of the public; and,

Works with other State and Federal management agencies to develop and coordinate fisheries policies.

A brief outline of some of the major court decisions, commission activities, and other events affecting the operation of the commission during the past several fiscal years can be seen in the summary Table which follows this introduction.

In August of 1990 the commission's offices were moved from the Alaska Department of Fish and Game's (ADF&G) headquarters in the Capital Office Park building in Juneau to the Jordan Creek Center. This move was made to allow for the reorganization of office space at ADF&G headquarters.

Our new address and telephone numbers are shown on the first page of this report. The new office is located near Juneau's airport and near Juneau's population center in the Mendenhall Valley. The new office provides a convenient place for fishermen to visit and purchase their permits and licenses.

The move necessitated considerable planning on the part of our data processing and licensing staffs, to assure that our critical licensing functions could continue without any substantial downtime. Both sections did an outstanding job.

The move also necessitated many changes to the commission's computerized operations. Some of these developments are ongoing as the data processing staff continually works to improve our ability to handle important tasks more efficiently on our local area network.

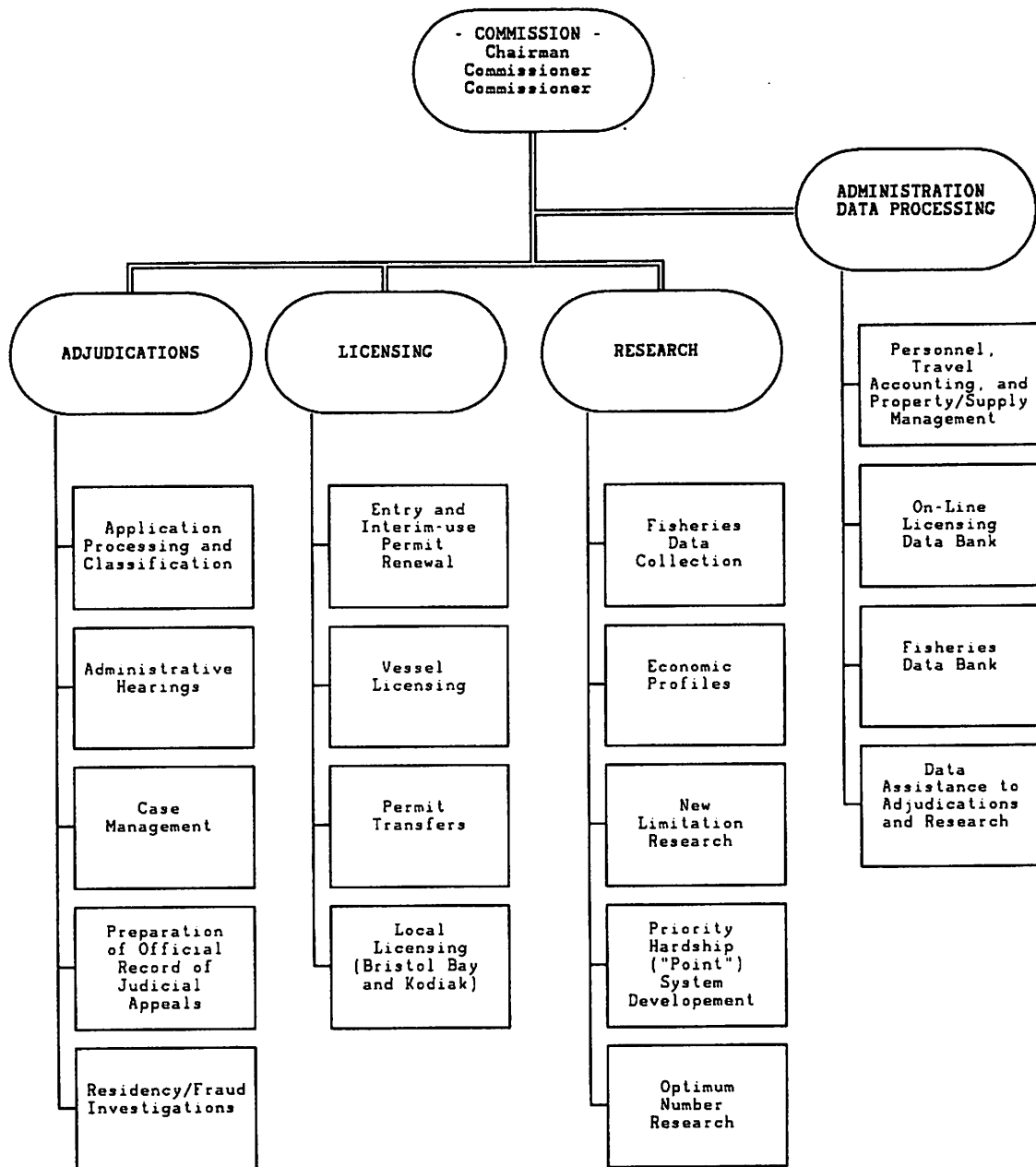
The commission and its staff had a busy and productive year in 1990. The adjudication section made substantial progress in processing applications and initially classifying applicants from recent limitations, including approximately half of the 1,813 applications received for entry permits in the Western Alaska herring fisheries. The hearing officers again conducted over 100 hearings and issued over 120 decisions for the third consecutive year. For the sixth consecutive year, the commission adjudicated and made final decisions in over 100 cases.

While no new limitations occurred, several limitation requests were received and the fisheries are being carefully examined by the research section. The point system for the Togiak herring spawn-on-kelp fishery was finalized. The research section completed a number of projects and reports, and made

considerable progress in a study to develop optimum numbers for the Southeastern Alaska roe herring purse seine fishery.

The following parts of this report provide a more thorough outline of some of the year's important events by operating section. The appendix provides summary data on Alaska's limited fisheries and permits. Questions or comments about the contents of this report are welcome and can be directed to the commissioners.

Organization by Agency Function



*NOTE: The above Organizational Chart presents a general view of the commission's primary functions. It by no means lists all activities undertaken to meet the commission's statutory responsibilities as set forth in AS 16.43.010 - 990.

Major Decisions/Activities Affecting Agency Operations
(Fiscal Years 1984 - 1991)

- FY84:** * Rutter, Wickersham, Byayuk Supreme Court decisions.
* Southeast crab fisheries researched, hearings held, and three fisheries limited.
- FY85:** * Roehl, Cashen, Deubelbeiss, & Chocknok/Andrew Supreme Court decisions.
* Southeast black cod (sablefish) fisheries researched, hearings held, and three fisheries limited.
* Research and hearings on new regulations pursuant to Supreme Court decisions.
* Research and hearings on Southeast crab fishery point systems begins.
- FY86:** * Research and hearings on Southeast black cod fishery point systems.
* Processing new/reopened applications (306 applications) pursuant to Supreme Court decisions begins (many existing open applications affected).
- FY87:** * Prince William Sound herring spawn on kelp pound fishery researched, hearings held, and fishery limited.
* Application processing for Southeast Crab fisheries (332 applications) begins.
* Loss of dedicated mini-computer due to budget reductions results in need to redesign data processing system.
- FY88:** * Research and hearings on PWS herring spawn on kelp pound fishery point system and application processing (140 applications) begins.
* Application processing for Southeast black cod fisheries (213 applications) begins.
* Western Alaska herring fisheries researched, extensive hearings in Western Alaska villages held, and five fisheries limited.
- FY89:** * Research and hearings on Western Alaska herring fisheries point systems.
* Wassillie settlement finalized, processing of 273 applications begins.
* Johns case finalized, extensive research and data analysis for optimum number determinations begins.
* *Exxon Valdez* oil spill in Prince William Sound creates significant demand for Data Processing services to assist affected fishermen.

- FY90:** *
- * *Exxon Valdez* oil spill continues to make demands on Data Processing; Research services required to respond to legal activity.
 - * Western Alaska herring fisheries point systems finalized, application period opens, processing applications begins (application period open through May 31, 1990; anticipate more than 1,200 applications for permanent permits in Western Alaska herring fisheries).
 - * Togiak herring spawn on kelp fishery researched, hearings held, and fishery limited.
- FY91:** *
- * Togiak herring spawn-on kelp fishery point system adopted, application period begins March 15, 1991, over 500 applications expected. Initial classification of approximately half of the 1,813 Western Alaska herring permit applications completed.
 - * A permit holder joined by the state as a friend of the court obtained a preliminary injunction from the Federal District Court against the Internal Revenue Service which blocked the IRS' scheduled sale of the holder's entry permit.

ADJUDICATIONS

Overview

The Adjudication Section at the commission is responsible for processing applications for entry permits in limited fisheries and conducting hearings for those who contest commission decisions affecting them. The section also conducts investigations into potential violations of the commission's statutes and regulations, and provides assistance to other enforcement agencies.

Entry permit applications are first evaluated by commission paralegals who classify applicants in a ranking system that measures each applicant's past participation and economic dependence on the fishery. Applicants who disagree with their initial classifications may request hearings. Hearings are also available to contest initial decisions about permit transfer requests or about qualifications for the lower permit renewal fees charged to Alaska residents.

Commission hearing officers conduct administrative hearings throughout the state and decide appeals of initial determinations about entry permit applications, permit transfer requests, and fee arrearages charged to those who wrongly claimed to be Alaska residents. The commissioners review and affirm or modify hearing officers' decisions on their own motion, or upon the request of an affected party.

Commission hearing officers also preside in "show cause" hearings. These hearings are held in the presence of the commissioners. In these proceedings, the commission may impose fines, or revoke or suspend the permits of those who attempt to mislead the commission with false information.

Administrative Proceedings and Decisions

During 1990, commission paralegals completed the initial classification of applications for Southeastern red/blue and brown king crab, Southeastern Tanner crab, Southeastern Inside sablefish entry permits, and the late entry permit applications accepted from Alaska Natives in the Wassillie v. Simon class action settlement. They also completed the initial classification of about half of the 1,813 applications for entry permits in the Western Alaska herring fisheries.

The hearing officers conducted 126 hearings in 1990: 90 on permit applications, 32 on permit transfers, 2 on fee arrearages, and 2 on miscellaneous actions. The hearing officers issued 126 decisions: 78 on permit applications, 27 on permit transfers, 4 on fee arrearages, 10 on show cause proceedings,

and 7 on miscellaneous actions. At the end of the year, 682 cases were in various stages leading to the issuance of a decision by a hearing officer.

The commissioners adjudicated a total of 101 cases during 1990: 63 permit applications; 28 permit transfers; 4 fee arrearages; 2 show cause proceedings; 4 miscellaneous. At the end of the year, 172 cases were in various stages of the adjudication process leading to the issuance of final decisions by the commissioners.

Investigations

During 1990, the commission received fines and fee arrearages of \$99,350 due to the successful settlement of nine developed actions. This compares with \$46,200 received in 1989. The commission continues to cooperate with state and federal law enforcement agencies.

Judicial Rulings and Appeals

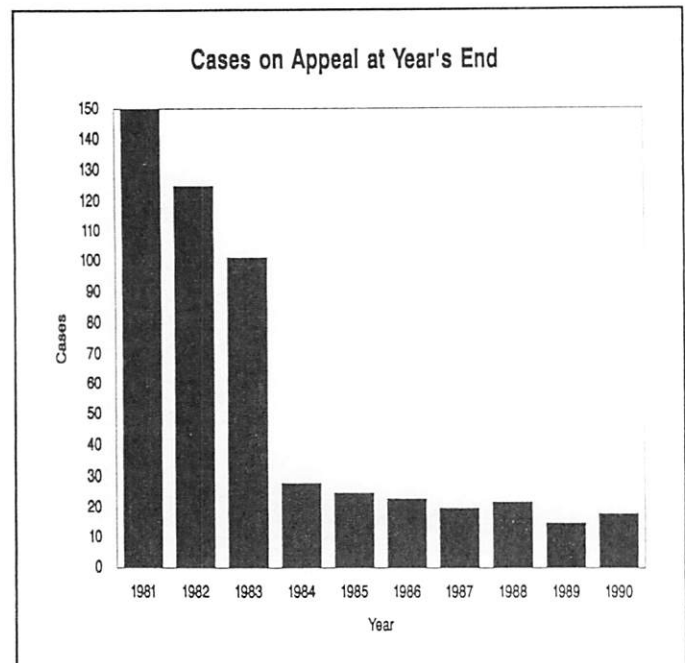
The Alaska Supreme Court issued three decisions in 1990 pertaining to the commission and entry permits:

Matson v. State, CFEC, 785 P.2d 1200 (Alaska 1990). The court upheld the commission's application of the same income dependence criteria to drift gill netters and set gill netters competing for Southeastern drift gill net entry permits, but remanded Matson's application back to the commission for a hearing and determination of what his income dependence percentage would have been if he had fished in 1972.

Riley et al. v. Simon, 790 P.2d 1339 (Alaska 1990). The Supreme Court upheld Superior Court decisions excluding from class membership in Wassillie v. Simon three fishermen who were not interested in applying or chose not to file original entry permit applications in 1975, or failed to make a timely response to exclusion from class membership.

Carlson et al. v. State, CFEC, 798 P.2d 1269 (Alaska 1990). The Supreme Court remanded this case to the Superior Court for further findings about the relative contribution by Alaska residents to the costs of fisheries conservation and management.

As this graph shows, the number of cases on appeal to the courts has declined markedly since the early 1980's.



Internal Revenue Service Seizures of Limited Entry Permits.

For ten years, the Internal Revenue Service (IRS) has attempted to seize and force the sale of Alaska limited entry permits as a means of collecting taxes owed. Because a limited entry permit is a necessary tool of trade required of commercial fishermen by the State of Alaska, the state has consistently resisted the IRS. A recent seizure of a set net permit belonging to an Eskimo grandmother in Bristol Bay helps to demonstrate that Alaskans wholly dependent upon their commercial fisheries could be extremely vulnerable if their entry permits become an enforcement tool of the IRS. At the present time, at the request of an Alaska fisherman and the State of Alaska as a friend of the court, the Federal District Court has issued a preliminary injunction ordering the IRS not to proceed with the scheduled sale of an entry permit. The underlying legal question in the action is whether Alaska limited entry permits constitute property under Alaska state law. AS 16.43.150(e) characterizes limited entry permits not as property, but as a "use privilege." This legal issue has now been certified by the Federal District Court to the Alaska Supreme Court. If and when the Alaska Supreme Court answers the question of law presented, the Federal District Court would then entertain motions for summary judgment. While the IRS issue remains pending, the commission's consistent advice to fishermen has been not to wager on an outcome favorable to the state and to get their affairs in order with the IRS.

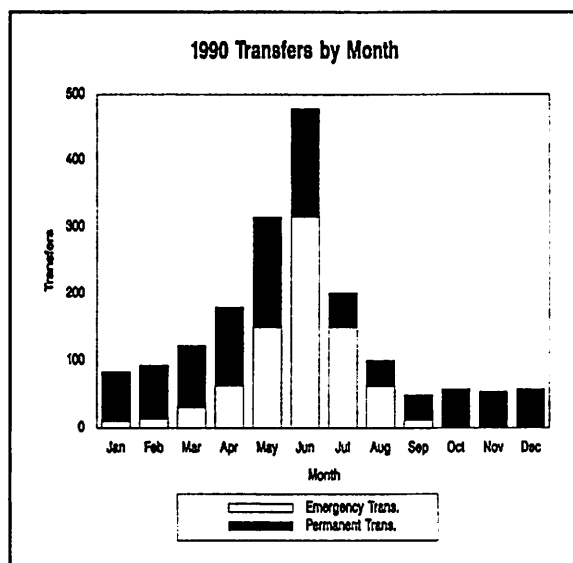
LICENSING

The Entry Commission's licensing section has responsibility for issuance of the commercial fishing permits and vessel licenses required annually for all fishermen and vessels that participate in Alaska's commercial fisheries. (Crew licenses, however, are issued by the Alaska Department of Fish and Game's licensing division through local vendors.)

Licensing activity is very seasonal with the vast majority of applications being received by mail at the commission's office in Juneau. A small percentage is processed at the Kodiak office and the field offices which are operated in Bristol Bay during the salmon season. In addition to issuing licenses, the section is responsible for reviewing and processing requests for permanent and emergency transfer of permits, as well as related activities such as certifying loan applicants' eligibility.

The licensing section takes in revenues from annual permit and vessel license fees, one-time limited entry permit application fees, fines and arrearages assessed pursuant to residency investigations or revocation actions, and user fees which are charged for the convenience of obtaining licenses at CFEC field offices rather than by mail from the Juneau office. Sixty percent of the \$30 or \$90 commercial fishing license fee paid annually by each resident or nonresident fishermen is transferred to the Fishermen's Fund insurance program which is administered by the Department of Labor. Following this summary are tables indicating revenues received during both fiscal and calendar year 1990 and the number of 1990 permits and vessel licenses issued.

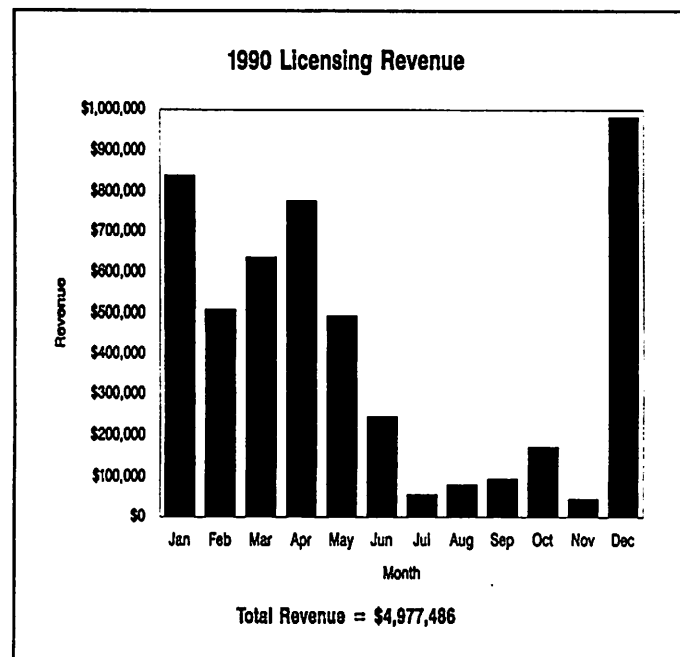
Permanent permit transfer activity remained very constant compared with 1989. 989 transfer requests received, of which 39 were denied and 950 approved. Emergency transfers increased significantly, rising from 683 in 1989 to 800 in 1990. Sixty of the emergency transfer requests were denied.



1990 Licensing Revenue

<u>REVENUE SOURCE</u> *	<u>FISCAL YEAR 90</u>	<u>CALENDAR YEAR 90</u>
Permit Fees	\$4,267,310	\$4,288,175
Vessel License Fees	346,946	346,412
Limited Entry		
Application Fees	77,980	47,880
Field Office User Fees	41,210	42,500
Fines/Arrearages	167,219	158,949
NSF Check Penalties	1,575	1,625
Misc. Revenue	73,113	91,945
GROSS REVENUE	\$4,975,353	\$4,977,486
(less refunds)	<u>- 107,453</u>	<u>- 106,422</u>
NET REVENUE	\$4,867,900	\$4,871,064
(less Fishermen's Fund transfer)	<u>- 467,586</u>	(see page 12 for FF transfer for 1990 permits)
	\$4,400,314	

* This report indicates total revenue received from each source regardless of the license year; it includes fees for permits and vessel licenses for 1989, 1990 and 1991, received during the fiscal year or calendar year, respectively.



Licenses Issued For 1990

Limited Entry Permits <u>Not</u> Renewed	397
Limited Entry Permits Revoked or Lapsed (since 1975)	<u>438</u>
Limited Entry Permits Renewed	12,650
Interim Permits in Limited Fisheries	1,465
Interim Permits in Open-to-Entry Fisheries	18,073
Special Harvest Area (Hatchery) Permits	22
Educational Entry Permits	<u>5</u>

PERMITS PAID FOR 1990 32,215

VESSELS LICENSED FOR 1990 17,417

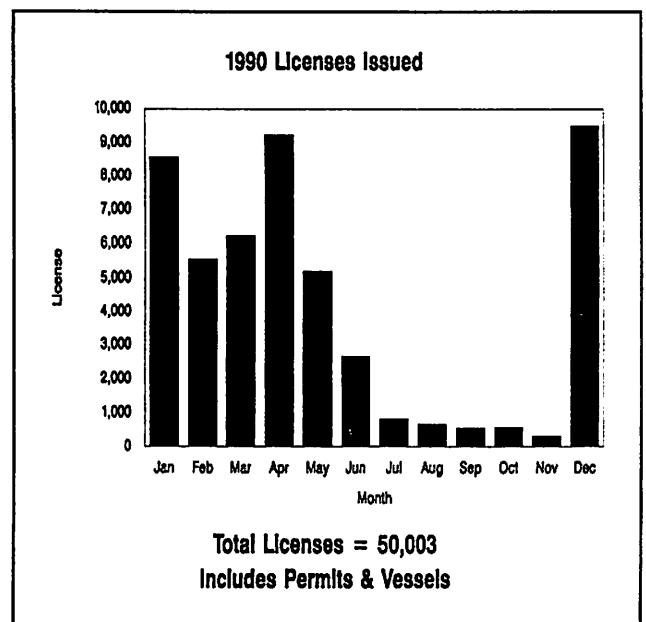
TOTAL PERMITS AND VESSEL LICENSES 49,632

Resident Permit Holders 14,062

Nonresident Permit Holders 4,053

TOTAL PERMIT HOLDERS 18,115

Revenue Transferred to the Fishermen's Fund
was \$471,978 (for 1990 permits only)



Licensing Field Office Activities

The Kodiak office is open throughout the entire calendar year, while the field offices in Dillingham and King Salmon are operated on a seasonal basis only. During 1990, CFEC staff provided licensing service in Dillingham for a few days immediately prior to the Togiak herring fishery and again for three weeks during the salmon season. The King Salmon office was staffed for approximately four weeks during the Bristol Bay salmon season.

The user fee is a surcharge of \$10.00 for each permit or vessel license obtained at a field office. User fees were implemented in 1988 to cover the costs of field office services which would otherwise have been eliminated due to budget reductions.

<u>Field Office Locations</u>	<u>Permits Issued*</u>	<u>Vessels Licensed</u>	<u>User Fees Collected</u>
Kodiak	2,510	1,047	\$35,570
Dillingham	279	88	3,670
King Salmon	235	91	<u>3,260</u>
TOTAL FIELD OFFICE USER FEES			\$42,500

* Permits Issued includes original cards and duplicates.

RESEARCH

The research section provides the background research and data analyses needed by the commission. In 1990, the commission's research staff was involved in a wide range of projects. These projects included efforts to monitor trends in Alaska's fisheries, to evaluate the need for limitation in particular fisheries, to develop a point system for the Togiak herring spawn-on-kelp fishery, to document and analyze changes occurring under the entry limitation program, to forecast permit values in newly limited fisheries, and to develop optimum number recommendations in the Southeastern Alaska roe herring purse seine fishery. The following section provides a brief overview of 1990 activities.

Togiak Herring Spawn-On Kelp Point System

In 1990, the commission completed work on a point system for the Togiak herring spawn-on-kelp fishery. Regulations for the point system became effective in early 1991. An application period for permanent permits begins March 15, 1991 and will extend through September 16, 1991.

Under Alaska's Limited Entry Act, the commission is directed to use a hardship ranking system (point system) to initially allocate permanent permits among eligible applicants in a newly limited fishery. An allocation mechanism is necessary because typically the number of eligible applicants will exceed the maximum number of permits established for a fishery.

By statute, these ranking systems are based upon the two broad concepts of past participation and economic dependence. The commission is asked to consider, where reasonable for a fishery, criteria such as number of years of participation within the fishery, consistency of participation during each year, percentage of income derived from the fishery, availability of alternative occupations, and investment in vessel and gear. Other criteria may also be considered.

The commission develops and evaluates alternative hardship ranking systems through a process called "priority testing". All available data on participants' earnings, fishing histories, and vessels are compiled into a computer data base. Different measures for each of the criteria are then tested as are alternative "weighting" schemes. Each criterion is weighted relative to other criteria through the assignment of "points". Hence, hardship ranking systems are commonly called point systems.

Once the commission develops a provisional point system they propose regulations and hold public hearings on the proposals. Based upon public testimony, the commission will often revise the point system proposals prior to adopting regulations.

The Togiak herring spawn-on-kelp fishery is a labor intensive fishery of short duration which provides supplemental income to its participants. Because of the nature of the fishery and the patterns of participation the commission felt that meaningful distinctions among applicants would best be achieved with a relatively simple point system. The simple point system which was adopted should also make the application process easier and less costly for both applicants and the State and reduce the time required to complete the initial allocation process.

Limitation Studies

Each year, as Alaska's high-valued unlimited fisheries face increasing fishing pressure, the commission receives requests to limit entry into additional fisheries. Several requests were received in 1990. However, no new limitations occurred in 1990.

When a petition is received, the commission must thoroughly examine the fishery(ies) to see if entry limitation is warranted. The commission's research staff conducts extensive background research on the fisheries in question to determine if access limitation is needed and to evaluate whether or not the existing limited entry program would produce significant benefits.

Data on the fisheries are gathered into computer files and reports are prepared which document historical developments and trends. The regulatory development of the fisheries is summarized and evaluated.

The nature of the fleet and the applicable regulations are evaluated to determine the extent to which limiting the number of participants will serve to contain the growth in effort. An effort is made to determine the best way to define the fisheries for limitation purposes to help prevent post-limitation increases in participation.

Other issues related to limitation may also be examined, such as jurisdictional conflicts, the potential for spill-over effects, and the types of problems which may need to be addressed in the initial allocation process. Based upon this research, public input, and other relevant information, the commission decides whether or not to propose and adopt a limited entry program.

In 1990 the commission again received requests to limit the Cook Inlet shellfish fisheries (king crab, Tanner crab, Dungeness crab, and shrimp) and the Southeastern Alaska Dungeness crab fishery. The commission also received requests to limit or to impose a moratorium on new entrants in several of the Southeastern Alaska diving fisheries (abalone, sea cucumbers, and sea urchins).

Commission staff updated reports on the Cook Inlet shellfish fisheries and a public meeting was held in Homer with fishermen at their request. Based on the available information at that time the commission believed that the existing limited entry program could do little good in these fisheries. As a result, no regulations have been proposed.

The commission continues to evaluate the Southeastern Alaska Dungeness crab fishery. Commission researcher, Susan Shirley completed an extensive background report titled Southeastern Alaska Dungeness Crab Fisheries 1974-75 To 1989-90 Seasons. Copies of the public report are available from the commission upon request. Due to the nature of the fishery, the commission still doubts that the existing limited entry program would produce long-term benefits in the fishery. As a result, no regulations have been proposed.

The commission is currently studying the Southeastern Alaska diving fisheries. Most of these fisheries have recently developed into high impact emerging fisheries which have given rise to concerns about conservation and concerns about the potential for conflicts with subsistence users. As the fisheries are evolving rapidly, the appropriate form of access management is still unclear.

The commission has received petitions to implement a "moratorium" on new entrants into some of the Southeastern Alaska diving fisheries. These petitions have been denied because the commission lacks the authority to implement a simple moratorium. Under the current statutes, the commission can only create a moratorium by committing to a full-scale, salmon-type limited entry program.

As of this writing, the Alaska legislature is considering remedial legislation to give the commission the authority to implement a temporary moratorium under certain conditions. A temporary moratorium would help contain increases in effort and "buy time" so that management alternatives could be more carefully considered. Unlike the existing limited entry program, a temporary moratorium would be relatively inexpensive to implement and would not require a permanent decision on a particular limited entry program.

Optimum Numbers

In 1990 the commission's research staff continued to work on optimum numbers for the purse seine roe herring fishery in Southeastern Alaska. This work was mandated by the decision of the Alaska Supreme Court in Johns v. State, CFEC, 758 P.2d 1256 (Alaska 1988).

The Johns case orders the commission to make an optimum number decision in the Southeastern

Alaska purse seine fishery for roe herring. Johns recognizes that more permits could be created and sold as a result. Because Johns is premised on a constitutional issue, the same claim can be brought in any limited fishery where there has been a substantial change in conditions since the time the fishery was limited.

The research staff hopes to be able to present preliminary recommendations on optimum numbers for the Southeastern roe herring purse seine fishery during the current fiscal year. The commission wants to take great care in making an optimum number decision to minimize the risk that any decision may be challenged in court.

Some of the research being undertaken in this fishery may be helpful in the optimum number process in other herring fisheries. The commission expects to move prudently with respect to optimum number research in other fisheries. Further, current research may well lead to legislative recommendations which could simplify and clarify this difficult area of the limited entry statutes.

Permit Distribution Patterns

In 1990, the commission continued to monitor and evaluate changes in the distribution of Alaska's limited entry permits. The report Changes In The Distribution Of Alaska's Limited Entry Permits, 1975-1989 (CFEC Report 90-6), co-authored by Elaine Dinneford and Rick Berning, provides extensive information and data on the topic.

This report updates previous studies by the commission. It provides data on the 42 limited fisheries for which permanent permits had been issued through year-end 1989. The report covers the 1975 through 1989 time period and includes detailed information on the changes in the number and type of entry permits held by Alaskans and nonresidents.

The report provides fishery-specific and statewide data on transfer incidence, the initial geographic distribution of permit holders, changes due to permit transfers, changes due to permit holder migrations, and the year-end 1988 geographic distribution of permit holders. Data are also provided on the age distribution of permit holders through time and age differences between transferors and transfer recipients.

Summary statistics are also reported from CFEC's transfer survey. These statistics provide information on the incidence of transfers between family members and business partners, transfer acquisition methods, and transfer financing methods. Copies of the report are available upon request.

Research On Permit Prices

There is widespread interest in the prices of limited entry permits and the determinants of a permit's market value. In 1990, in response to requests from the Department of Commerce and Economic Development (DCED), the commission developed some econometric models to help forecast permit values when actual market data were not available.

The Division of Investments of DCED requires estimates of entry permit values for many of its commercial fishing loans. Estimates are required for loan purposes when permits are purchased and/or used as collateral. By regulation, the commission provides DCED with ongoing estimates of permit values in limited fisheries.

CFEC's estimate of a permit's value typically is based on an average of recent market transactions. CFEC obtains information on actual permit sales through a mandatory transfer survey which must be completed when a permit is transferred. Where sufficient market values exist for a permit type, CFEC provides estimates of the average value of the permit. These estimates are updated monthly and are provided to DCED and other interested parties.

In some recently limited fisheries, DCED may receive loan requests prior to the consummation of a sufficient number of permit sales. In such cases, DCED still needs to have an independent estimate of the permit's value. In 1990, the issue arose with respect to limited entry permits in the Southeastern Alaska king and Tanner crab pot and sablefish longline fisheries.

In response to the need, Dr. Ben Muse, commission economist, developed an econometric model to predict the market value of limited entry permits. The parameters of the model were estimated using annual observations from limited fisheries where data on average prices and earnings were available. Dr. Muse then utilized the model to forecast average prices for a number of limited entry permits where market values were unavailable.

Dr. Muse's efforts resulted in the following background papers which are available from the commission upon request:

1. An Experimental Forecast of the 1990 Entry Permit Value for the Southern Southeast Black Cod Longline Fishery. (CFEC 90-3)

2. An Experimental Forecast of the 1990 Entry Permit Value for the Southeastern King and Tanner crab Permit. (CFEC 90-4)
3. An Experimental Forecast of the 1990 Entry Permit Value for the Southeastern Alaska Red and Blue King and Tanner Crab Pot Permit. (CFEC 90-8)
4. A Preliminary Forecast of the 1991 Entry Permit Value for the Southeast Alaska K49A Permit. (CFEC 90-10)

Dr. Muse also presented a paper titled Permit Values and Dynamic Stocks at the workshop on "Exploring a Multidisciplinary Approach to Fisheries Management Research" held in Fairbanks, Alaska on October 2, 1990. In the paper Dr. Muse used both his permit value research and previous results from pink salmon ex-vessel demand studies. The paper provides a simulation study of a hypothetical increase in pink salmon production of 25% in Southeastern Alaska. The paper examines the impact of the production increase on both pink salmon prices and permit values throughout the state. A revised version of the paper titled Permit Values and Fish Stocks is available at the commission upon request.

TABLE 1 — PERMIT AND PERMIT TRANSFER STATISTICS, 1975-1990 *

Fishery and Area	Year	Actual Transfer Information					Transfer Survey Information				
		Total Permanent Permits	Permanent Permits Held by Alaskans	Total Number of Transfers	Number of Permits Involved in Transfers	Change in Residency Due to Transfers	Permits with State Liens	Number of Non-mon. Transfers	Number of Monetary Transfers	Average Price Paid for Permits	Number of Financed Monetary Transfers
Sablefish Longline											
S. Southeastern	89	2	1	0	0	0	0	0	0	—	0
	90	3	2	1	1	0	1	0	1	***	0
N. Southeastern	88	16	14	0	0	0	0	0	0	—	0
	89	27	23	1	1	0	0	0	1	***	0
	90	27	23	2	2	0	1	0	2	***	0
Sablefish Pots											
S. Southeastern	88	1	1	0	0	0	0	0	0	—	0
	89	1	1	0	0	0	0	0	0	—	0
	90	1	1	0	0	0	0	0	0	—	0
Herring Purse Seine											
Southeastern	77	38	36	0	0	0	0	0	0	—	0
	78	41	37	2	2	- 1	0	0	0	—	0
	79	42	38	2	2	0	1	1	0	—	0
	80	42	38	2	2	+ 1	2	2	0	—	0
	81	41	38	1	1	0	5	1	0	—	0
	82	42	39	4	4	0	5	2	2	***	2
	83	42	37	3	3	- 2	6	1	2	***	1
	84	42	37	1	1	0	8	0	1	***	1
	85	43	38	2	2	0	9	0	2	***	2
	86	44	39	3	3	0	9	1	2	***	2
	87	44	39	3	3	0	10	1	2	***	2
	88	44	36	3	3	- 2	11	0	3	***	0
	89	44	35	0	0	0	11	0	0	—	0
90	44	35	2	2	0	11	0	2	***	1	
Prince Wm Sound	77	85	77	3	3	- 1	0	0	1	***	1
	78	91	78	7	6	- 1	0	0	1	***	0
	79	92	80	16	13	+ 1	0	1	2	***	1
	80	92	77	7	7	- 1	5	2	4	46,250	3
	81	92	76	4	4	0	8	2	2	***	2
	82	93	78	10	10	0	14	3	7	71,250	6
	83	97	83	2	2	+ 2	16	1	1	***	1
	84	100	86	16	15	+ 1	22	9	7	63,857	7
	85	102	86	16	14	- 1	25	4	12	66,375	5
	86	102	85	13	13	0	29	3	10	75,750	6
	87	103	84	6	6	0	29	2	4	96,250	1
	88	103	82	11	10	+ 1	34	1	10	160,500	3
	89	103	81	1	1	+ 1	37	0	1	***	1
90	103	81	8	8	+ 3	36	5	3	***	2	

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TABLE 1 — PERMIT AND PERMIT TRANSFER STATISTICS, 1975-1990 *

Fishery and Area	Year	Actual Transfer Information					Transfer Survey Information				
		Total Permanent Permits	Permanent Permits Held by Alaskans	Total Number of Transfers	Number of Permits Involved in Transfers	Change in Residency Due to Transfers	Permits with State Liens	Number of Non-mon. Transfers	Number of Monetary Transfers	Average Price Paid for Permits	Number of Financed Monetary Transfers
Herring Purse Seine											
Cook Inlet	77	61	57	1	1	0	0	0	1	***	0
	78	67	60	9	7	- 1	0	1	1	***	1
	79	68	59	10	7	0	0	0	4	27,500	1
	80	68	58	3	3	0	5	1	1	***	1
	81	68	56	4	4	- 1	6	1	3	***	1
	82	69	58	2	2	0	6	1	1	***	1
	83	70	59	1	1	0	6	1	0	—	0
	84	72	59	3	3	0	7	2	1	***	1
	85	73	59	12	12	+ 1	8	2	10	16,700	0
Cook Inlet	86	73	57	20	19	- 2	10	7	13	31,362	4
	87	73	56	14	14	- 2	12	3	11	111,364	3
	88	73	55	5	5	0	17	1	4	165,000	2
	89	73	53	5	3	0	16	1	4	211,250	3
	90	73	51	5	5	0	18	4	1	***	0
Kodiak	84	5	5	0	0	0	0	0	0	—	0
	85	42	39	6	6	0	2	2	4	36,250	2
	86	42	39	9	9	+ 1	4	2	7	23,286	3
	87	44	40	9	7	- 1	6	0	9	22,611	2
	88	45	42	4	4	+ 1	8	2	2	***	1
	89	46	44	7	7	+ 1	7	4	3	***	1
	90	46	42	7	7	0	10	2	5	70,500	2
Herring Beach Seine											
Norton Sound	90	2	1	0	0	0	0	0	0	—	0
Herring Seine/Gill Net											
Kodiak	87	1	1	0	0	0	0	0	0	—	0
	88	1	1	0	0	0	0	0	0	—	0
	89	1	1	0	0	0	0	0	0	—	0
	90	1	1	0	0	0	0	0	0	—	0
Herring Gill Net											
Southeastern	78	10	10	1	1	0	0	0	0	—	0
	79	39	35	2	2	0	1	0	0	—	0
	80	44	38	4	4	0	2	0	4	13,363	4
	81	45	39	4	4	+ 1	6	0	4	13,875	2
	82	59	47	6	6	- 1	10	1	5	27,500	5
	83	67	47	12	12	- 6	8	9	3	***	2
	84	82	62	11	11	+ 1	11	5	6	39,583	2
	85	87	61	16	16	- 5	11	4	12	45,000	4
	86	90	61	12	10	- 1	10	8	4	51,250	1
	87	91	60	15	14	0	13	3	12	48,542	6

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TABLE 1 — PERMIT AND PERMIT TRANSFER STATISTICS, 1975-1990 *

Fishery and Area	Year	Actual Transfer Information					Transfer Survey Information				
		Total Permanent Permits	Permanent Permits Held by Alaskans	Total Number of Transfers	Number of Permits Involved in Transfers	Change in Residency Due to Transfers	Permits with State Liens	Number of Non-mon. Transfers	Number of Monetary Transfers	Average Price Paid for Permits	Number of Financed Monetary Transfers
Herring Gill Net											
Southeastern											
	88	91	58	16	15	- 2	14	5	11	48,827	4
	89	92	60	6	6	+ 1	14	2	4	54,750	2
	90	98	64	5	5	0	12	3	2	***	1
Prince Wm Sound											
	82	24	22	4	4	+ 1	0	1	3	***	1
	83	24	23	4	4	+ 1	3	0	4	17,000	4
	84	24	22	5	5	0	7	1	4	24,000	4
	85	24	23	4	3	+ 1	9	1	3	***	2
	86	24	22	5	5	0	11	1	4	30,500	1
	87	24	22	1	1	0	10	1	0	—	0
	88	24	22	2	2	0	11	2	2	***	1
	89	24	21	3	3	- 1	10	0	3	***	0
	90	24	21	0	0	0	8	0	0	—	0
Kodiak											
	84	8	8	1	1	0	0	0	1	***	1
	85	54	53	12	11	0	3	2	10	15,600	4
	86	57	57	12	12	+ 1	11	2	10	16,600	4
	87	59	59	9	8	0	14	3	6	15,250	3
	88	64	64	21	20	0	15	3	18	16,511	3
	89	68	66	13	13	- 1	17	1	12	22,813	2
	90	72	69	13	12	0	18	5	8	29,000	0
Nelson Island											
	90	77	74	1	1	0	0	1	0	—	0
Nunivak Island											
	90	9	8	0	0	0	0	0	0	—	0
Lower Yukon											
	90	66	66	3	2	0	0	3	0	—	0
Norton Sound											
	90	211	163	31	29	- 7	0	5	26	29,731	4
King/Tanner Crab Pot											
SE Red/Blue King											
	89	1	1	0	0	0	0	0	0	—	0
	90	1	1	0	0	0	0	0	0	—	0
SE Brn King											
	90	1	1	0	0	0	0	0	0	—	0
SE R/B King + Tanner											
	89	4	4	0	0	0	0	0	0	—	0
	90	6	6	1	1	0	1	0	1	***	1
SE All King + Tanner											
	89	5	5	0	0	0	0	0	0	—	0
	90	14	14	1	1	0	1	0	1	***	1

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TABLE 1 — PERMIT AND PERMIT TRANSFER STATISTICS, 1975-1990 *

Fishery and Area	Year	Actual Transfer Information					Transfer Survey Information				
		Total Permanent Permits	Permanent Permits Held by Alaskans	Total Number of Transfers	Number of Permits Involved in Transfers	Change in Residency Due to Transfers	Permits with State Liens	Number of Non-mon. Transfers	Number of Monetary Transfers	Average Price Paid for Permits	Number of Financed Monetary Transfers
King/Tanner Crab Pot											
SE Tanner Crab	89	1	1	0	0	0	0	0	0	—	0
	90	3	3	1	1	0	0	0	1	***	0
Herring Pound											
Prince Wm Sound	88	128	97	36	34	+ 4	3	4	32	24,519	7
	89	128	101	14	14	+ 5	8	1	13	47,884	4
	90	128	100	4	4	- 1	9	2	2	***	1
Salmon Purse Seine											
Southeastern	75	398	198	51	51	- 4	0	8	15	10,633	12
	76	409	202	24	21	- 3	0	1	9	9,222	5
	77	411	196	53	50	- 6	0	6	21	16,667	14
	78	413	193	56	50	- 8	0	5	16	30,929	13
	79	413	189	38	36	- 2	1	3	12	39,917	10
	80	414	193	35	34	+ 3	13	12	15	39,600	9
	81	414	194	35	34	0	16	12	23	40,652	12
	82	414	186	31	31	- 6	24	10	21	40,286	11
	83	416	188	34	32	- 1	27	14	20	38,531	10
	84	417	186	55	52	- 1	33	17	38	40,884	18
	85	416	182	36	33	- 6	39	9	27	37,907	12
	86	416	185	26	23	+ 2	38	8	18	34,403	3
	87	416	183	36	33	+ 3	43	6	30	40,832	10
	88	416	182	30	29	- 3	45	12	18	65,833	5
	89	416	183	36	36	+ 5	47	7	29	78,448	13
	90	417	180	26	26	- 2	45	8	18	104,667	4
Prince Wm Sound											
	75	210	164	19	17	+ 2	0	0	7	8,000	5
	76	247	194	42	36	- 5	0	5	11	10,700	6
	77	255	198	28	24	- 3	0	1	6	29,800	5
	78	257	193	36	32	- 5	0	3	10	24,272	4
	79	258	192	47	41	- 3	5	3	13	33,846	5
	80	258	197	29	28	+ 1	15	12	14	40,154	6
	81	259	190	34	34	- 5	33	18	16	69,531	10
	82	259	188	26	26	+ 1	41	12	14	101,690	13
	83	259	187	29	28	- 1	53	11	17	142,384	14
	84	261	188	23	22	- 2	62	12	11	131,695	9
	85	261	191	27	25	+ 7	68	10	17	104,206	8
	86	262	190	26	24	+ 1	71	13	13	99,400	9
	87	262	191	36	35	+ 1	72	15	21	90,000	16
	88	263	184	32	30	- 3	71	13	19	135,158	7
	89	263	184	15	15	0	72	9	6	236,333	2
	90	264	184	16	15	0	71	11	5	228,000	3

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TABLE 1 — PERMIT AND PERMIT TRANSFER STATISTICS, 1975-1990 *

Fishery and Area	Year	Actual Transfer Information					Transfer Survey Information				
		Total Permanent Permits	Permanent Held by Alaskans	Total Number of Transfers	Number of Permits Involved in Transfers	Change in Residency Due to Transfers	Permits with State Liens	Number of Non-mon. Transfers	Number of Monetary Transfers	Average Price Paid for Permits	Number of Financed Monetary Transfers
Salmon Purse Seine											
Cook Inlet	75	49	49	3	2	0	0	0	0	—	0
	76	63	62	7	6	- 1	0	1	2	***	2
	77	72	72	12	11	0	0	2	4	10,625	2
	78	74	74	10	9	0	0	2	5	40,000	4
	79	75	74	9	8	0	1	2	1	***	1
	80	75	73	12	12	- 1	5	4	7	82,786	3
	81	75	73	10	9	0	10	3	7	83,714	5
	82	77	76	11	11	0	16	6	5	84,267	5
	83	78	78	15	14	+ 1	23	7	8	90,000	7
	84	78	77	10	8	- 1	24	9	1	***	1
	85	80	79	5	5	0	26	1	4	58,375	3
	86	82	81	9	9	0	27	4	5	60,000	4
	87	82	81	16	15	0	27	5	11	60,455	6
	88	82	81	14	14	0	31	5	9	66,089	6
	89	82	81	10	9	0	33	7	3	***	2
	90	82	81	6	5	0	32	2	4	177,500	0
Kodiak	75	334	242	22	22	+ 4	0	4	7	4,571	5
	76	358	262	42	40	- 1	0	6	13	9,736	5
	77	365	270	72	62	+ 3	0	13	19	17,611	7
	78	371	273	60	52	+ 3	0	11	9	47,611	9
	79	374	272	57	41	- 2	3	5	12	66,045	6
	80	375	275	35	34	+ 4	24	5	24	70,688	15
	81	375	280	37	36	+ 7	50	16	20	68,625	15
	82	376	284	43	42	+ 4	66	14	29	75,511	28
	83	377	289	47	47	+ 4	81	19	28	69,903	20
	84	378	286	29	29	- 2	91	12	17	61,265	7
	85	379	288	43	39	0	99	20	23	46,337	9
	86	380	293	52	46	+ 5	102	25	27	36,151	12
	87	381	293	61	53	+ 2	104	23	38	44,128	13
	88	382	288	55	50	- 5	113	21	34	66,491	15
	89	382	287	38	37	0	113	15	22	132,795	8
	90	382	283	25	25	0	114	8	17	146,588	4
Chignik	75	85	64	4	4	0	0	1	1	***	1
	76	90	72	4	4	0	0	2	0	—	0
	77	90	73	6	5	+ 1	0	2	1	***	1
	78	90	76	3	3	0	0	1	0	—	0
	79	90	76	1	1	+ 1	0	0	0	—	0
	80	90	76	1	1	0	2	1	0	—	0
	81	90	74	5	4	- 1	5	2	3	***	3
	82	90	74	7	6	0	5	5	2	***	1
	83	90	74	4	4	0	9	2	2	***	1
	84	90	76	9	8	+ 1	13	5	4	322,500	3

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Salmon Purse Seine											
Chignik	85	90	78	6	6	+ 1	15	3	3	***	2
	86	90	78	5	5	+ 1	16	3	2	***	1
	87	90	77	0	0	0	17	0	0	—	0
	88	90	75	4	3	- 1	19	3	1	***	1
	89	90	74	4	4	- 1	20	2	2	***	1
	90	90	74	4	4	+ 1	23	2	2	***	1
Alaska Peninsula											
	75	108	95	3	3	0	0	0	0	—	0
	76	112	99	6	5	0	0	3	0	—	0
	77	113	100	15	13	0	0	4	1	***	0
	78	115	104	12	12	+ 1	0	2	3	***	2
	79	117	102	13	12	- 3	0	3	5	66,000	1
	80	117	97	19	17	- 3	3	14	2	***	1
	81	117	98	9	9	+ 1	7	7	2	***	2
	82	118	99	5	5	0	6	3	2	***	0
	83	118	98	22	19	- 2	7	16	6	195,000	5
	84	118	98	8	8	+ 1	11	5	3	***	3
	85	119	100	3	3	0	15	3	0	—	0
	86	119	99	10	10	- 1	17	6	4	251,250	2
	87	119	96	10	10	- 2	18	6	4	145,000	2
	88	119	93	13	13	- 2	18	9	4	149,625	0
	89	119	92	5	5	- 1	19	3	2	***	0
	90	119	92	5	5	- 1	25	3	2	***	1
Salmon Beach Seine											
Kodiak	75	21	20	0	0	0	0	0	0	—	0
	76	23	22	2	2	0	0	0	0	—	0
	77	30	27	10	8	- 1	0	1	3	***	2
	78	33	30	16	14	0	0	4	3	***	1
	79	33	30	7	7	- 1	0	1	4	36,500	3
	80	34	31	9	9	- 1	0	1	4	42,625	2
	81	34	32	10	8	0	4	3	7	42,429	5
	82	34	32	4	4	0	3	2	2	***	2
	83	35	32	5	5	0	6	2	3	***	3
	84	35	32	3	3	0	7	1	2	***	1
	85	34	30	6	5	- 1	7	2	4	23,750	1
	86	34	30	3	3	0	6	1	2	***	0
	87	33	31	7	7	0	7	2	5	25,000	3
	88	33	30	8	8	- 1	5	3	5	28,400	0
	89	33	29	9	9	- 2	4	3	6	34,833	2
	90	33	29	3	3	+ 1	3	0	3	***	0

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Salmon Drift Gill Net											
Southeastern	75	431	293	94	89	+ 6	0	9	28	9,211	21
	76	449	313	59	48	+ 4	0	6	12	10,213	7
	77	460	323	71	68	+ 6	0	11	25	16,262	17
	78	463	329	81	67	+ 5	0	11	26	34,604	18
	79	464	324	72	60	- 6	10	8	19	41,763	14
	80	464	322	59	56	- 1	35	22	35	41,714	21
	81	464	319	66	61	- 1	56	25	40	43,920	30
	82	466	315	74	66	-10	68	33	41	38,495	30
	83	467	322	50	45	0	83	13	37	34,508	23
	84	467	316	64	60	- 9	85	21	43	32,898	14
	85	468	320	61	59	+ 1	92	18	43	35,623	21
	86	468	326	71	65	+ 1	108	26	45	44,849	22
	87	468	327	52	48	- 2	108	18	34	55,632	16
	88	468	316	50	41	-10	109	20	30	75,958	12
	89	468	309	25	23	- 4	114	9	16	125,625	9
	90	468	307	45	43	- 3	116	17	28	106,500	8
Prince Wm Sound	75	494	366	36	33	+ 1	0	4	9	3,089	6
	76	514	390	70	64	+ 3	0	10	18	4,500	15
	77	524	393	83	71	- 2	0	8	30	13,750	20
	78	528	384	84	69	- 4	0	8	25	27,742	19
	79	531	384	68	62	+ 1	4	11	22	35,632	13
	80	531	392	54	51	+ 4	16	19	26	27,288	17
	81	531	398	74	73	+ 8	56	20	54	32,204	30
	82	531	384	78	72	-10	74	27	51	46,461	32
	83	533	396	54	53	+ 1	105	17	37	61,450	24
	84	534	393	57	52	- 6	129	22	35	53,157	18
	85	534	386	70	66	- 5	138	17	53	55,679	25
	86	536	384	57	53	- 2	145	11	46	62,006	23
	87	536	386	57	55	+ 5	154	12	45	62,147	21
	88	536	386	68	60	+11	168	18	50	75,802	17
	89	537	393	29	28	0	158	14	15	137,833	8
	90	537	392	41	39	0	154	14	27	160,523	11
Cook Inlet	75	453	291	30	30	+ 3	0	3	10	3,911	3
	76	514	342	76	73	+ 2	0	9	29	5,552	12
	77	539	359	87	79	- 4	0	13	28	9,643	14
	78	549	365	87	82	0	0	20	21	36,825	15
	79	554	371	86	75	+ 3	6	13	24	82,636	18
	80	554	373	76	72	+ 2	42	36	34	67,290	28
	81	554	375	76	73	- 1	82	27	48	67,213	39
	82	554	382	64	61	+ 4	97	27	37	57,866	27
	83	555	390	72	69	+ 4	123	21	51	69,720	39

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Salmon Drift Gill Net											
Cook Inlet	84	556	399	48	48	+ 2	139	13	35	66,306	20
	85	557	394	62	58	- 1	156	23	38	62,884	21
	86	559	394	71	68	0	165	21	50	63,902	27
	87	560	399	44	42	+ 4	168	18	26	86,542	11
	88	561	403	35	33	+ 3	177	7	28	126,138	11
	89	561	398	53	53	- 2	169	18	35	168,400	14
	90	561	394	54	51	- 1	169	30	24	203,063	6
Alaska Peninsula	75	152	109	4	4	0	0	1	0	—	0
	76	153	110	17	17	0	0	1	4	6,333	1
	77	154	108	31	26	- 1	0	7	7	10,286	5
	78	156	109	27	25	- 5	0	6	5	15,000	3
	79	156	107	32	26	- 1	0	7	4	60,625	3
	80	156	103	28	25	- 4	12	16	8	95,875	5
	81	156	101	23	23	- 3	15	13	10	123,500	7
	82	156	98	25	24	- 2	19	12	13	119,000	8
	83	156	96	26	23	- 1	18	17	9	145,778	5
	84	156	96	15	15	- 1	23	8	7	186,429	5
	85	156	92	24	22	- 3	32	9	15	159,153	11
	86	157	95	22	22	+ 2	38	9	13	197,000	7
	87	158	94	9	9	0	40	2	7	215,429	4
	88	158	91	7	7	- 3	39	5	2	***	1
	89	158	88	13	13	- 2	39	8	5	344,000	2
	90	158	88	15	14	+ 1	45	4	11	356,136	4
Bristol Bay	75	1,416	767	81	80	+ 9	0	16	19	1,166	9
	76	1,622	918	126	124	0	0	34	30	2,536	10
	77	1,663	947	213	196	-11	0	47	63	6,180	40
	78	1,700	973	235	211	-12	0	49	78	21,638	52
	79	1,717	971	225	197	-14	8	44	51	64,588	37
	80	1,717	967	169	162	0	87	68	79	89,032	59
	81	1,720	964	168	161	- 3	142	77	89	82,107	59
	82	1,724	960	183	179	-13	191	70	113	94,344	77
	83	1,727	989	160	155	+15	284	63	97	99,072	78
	84	1,729	969	153	146	-17	356	65	88	117,036	52
	85	1,738	976	138	130	0	391	49	89	114,647	41
	86	1,743	978	155	144	+ 1	411	57	97	121,120	54
	87	1,746	967	129	125	-10	418	51	78	130,265	40
	88	1,749	954	126	121	-12	432	49	77	167,461	32
	89	1,776	959	116	112	+ 2	438	63	53	233,400	26
	90	1,785	961	107	103	- 3	435	47	60	212,855	20

* Please read "Notes for Table" at end of table.

TABLE 1 — PERMIT AND PERMIT TRANSFER STATISTICS, 1975-1990 *

Fishery and Area	Year	Actual Transfer Information					Transfer Survey Information				
		Total Permanent Permits	Permanent Permits Held by Alaskans	Total Number of Transfers	Number of Permits Involved in Transfers	Change in Residency Due to Transfers	Permits with State Liens	Number of Non-mon. Transfers	Number of Monetary Transfers	Average Price Paid for Permits	Number of Financed Monetary Transfers
Salmon Set Net Yakutat	75	147	131	9	8	+ 2	0	1	3	***	2
	76	156	140	15	15	+ 1	0	8	4	6,000	2
	77	158	141	16	15	- 1	0	2	5	7,000	1
	78	161	142	22	20	- 1	0	4	5	10,480	2
	79	164	143	13	12	- 3	0	3	3	***	1
	80	164	146	16	15	0	2	9	2	***	1
	81	164	146	23	20	0	6	11	11	26,682	6
	82	164	144	15	14	- 1	12	7	8	32,792	5
	83	164	144	18	17	- 1	13	14	4	27,250	2
	84	164	145	13	13	+ 1	11	9	4	23,750	2
	85	164	145	18	17	+ 1	15	9	9	25,862	7
	86	164	142	17	16	0	17	10	7	26,857	2
	87	164	139	17	16	- 2	14	12	5	27,200	0
88	164	135	27	27	- 3	17	10	17	28,279	7	
89	165	138	18	18	- 1	17	13	5	33,200	2	
90	165	139	22	22	+ 1	19	10	12	36,458	2	
Prince Wm Sound	75	26	21	2	2	+ 2	0	0	0	—	0
	76	28	23	0	0	0	0	0	0	—	0
	77	28	21	2	2	- 1	0	0	0	—	0
	78	28	23	5	4	+ 1	0	0	2	***	1
	79	28	23	2	2	0	0	0	1	***	1
	80	28	24	3	3	+ 1	0	3	0	—	0
	81	29	24	2	2	0	1	0	2	***	1
	82	30	27	5	5	+ 2	2	0	5	19,400	5
	83	30	28	9	8	+ 1	2	3	6	24,167	5
	84	30	28	6	6	0	3	2	4	31,250	1
	85	30	28	5	5	0	6	1	4	32,375	2
	86	30	28	1	1	0	7	0	1	***	1
	87	30	27	6	5	- 1	7	2	4	29,625	0
88	30	27	6	6	+ 1	6	4	2	***	1	
89	30	27	4	4	0	5	3	1	***	0	
90	30	28	1	1	+ 1	4	0	1	***	0	
Cook Inlet	75	652	608	47	46	0	0	7	9	2,250	6
	76	712	670	77	74	+ 9	0	14	14	1,778	7
	77	731	690	93	90	+ 3	0	12	29	4,821	15
	78	742	698	129	120	+ 1	0	23	46	9,824	15
	79	744	702	99	92	- 6	0	24	20	23,412	9
	80	744	697	89	87	+ 2	5	42	42	15,333	25
	81	744	685	110	103	- 7	18	50	59	15,322	31
	82	744	693	90	86	- 2	28	48	42	17,190	21
83	743	683	103	101	-11	34	52	51	18,340	19	

* Please read "Notes for Table" at end of table.

TABLE 1 — PERMIT AND PERMIT TRANSFER STATISTICS, 1975-1990 *

Fishery and Area	Year	Actual Transfer Information					Transfer Survey Information				
		Total Permanent Permits	Permanent Permits Held by Alaskans	Total Number of Transfers	Number of Permits Involved in Transfers	Change in Residency Due to Transfers	Permits with State Liens	Number of Non-mon. Transfers	Number of Monetary Transfers	Average Price Paid for Permits	Number of Financed Monetary Transfers
Salmon Set Net											
Cook Inlet	84	743	670	89	86	-11	41	44	45	17,078	15
	85	744	670	92	90	- 7	44	41	51	16,312	10
	86	743	665	102	97	- 2	46	42	60	18,310	10
	87	743	660	101	98	- 3	48	33	68	26,727	14
	88	743	660	79	77	- 1	50	33	46	41,151	4
	89	743	645	91	87	- 9	54	42	49	57,694	11
	90	743	644	83	80	- 3	68	41	42	91,171	9
Kodiak	75	139	103	22	22	+ 8	0	7	7	5,380	5
	76	176	133	37	34	- 2	0	4	10	3,900	2
	77	181	137	28	26	+ 1	0	5	7	6,600	4
	78	184	139	28	25	+ 2	0	9	6	19,800	4
	79	185	138	32	27	0	1	4	10	33,667	6
	80	186	138	34	33	+ 1	6	16	9	39,861	5
	81	186	141	25	25	+ 1	18	15	9	41,278	7
	82	186	138	28	28	- 3	21	16	12	39,817	7
	83	186	139	19	18	+ 1	23	13	6	57,033	5
	84	187	141	24	23	+ 1	30	13	11	57,200	5
	85	187	147	22	22	+ 3	34	15	7	56,357	3
	86	187	150	38	36	+ 3	32	19	19	61,792	8
	87	187	152	25	25	+ 3	29	17	8	60,122	3
	88	187	150	15	14	+ 1	31	12	3	***	1
	89	188	144	15	14	- 1	29	9	6	69,542	2
	90	188	143	16	16	+ 1	27	10	6	85,000	3
Alaska Peninsula	75	82	76	4	3	0	0	2	0	—	0
	76	105	98	5	5	0	0	2	3	***	1
	77	106	95	15	14	- 1	0	1	4	5,150	1
	78	108	99	14	13	0	0	3	2	***	0
	79	108	99	12	11	0	0	2	0	—	0
	80	109	98	17	14	- 2	1	7	5	14,500	3
	81	109	98	21	21	0	3	12	9	54,278	7
	82	109	96	19	19	- 1	5	8	11	54,636	6
	83	109	96	24	24	0	5	13	11	50,836	3
	84	109	95	18	18	- 1	7	9	9	45,332	2
	85	110	94	14	14	- 2	11	7	7	47,500	2
	86	113	92	11	10	- 4	13	4	7	56,357	4
	87	113	90	23	22	- 2	16	14	9	55,722	5
	88	113	94	13	12	+ 2	20	9	3	***	2
	89	113	94	9	9	0	19	8	1	***	0
	90	113	93	6	6	- 1	21	3	3	***	0

* Please read "Notes for Table" at end of table.

TABLE 1 — PERMIT AND PERMIT TRANSFER STATISTICS, 1975-1990 *

Fishery and Area	Year	Actual Transfer Information					Transfer Survey Information				
		Total Permanent Permits	Permanent Permits Held by Alaskans	Total Number of Transfers	Number of Permits Involved in Transfers	Change in Residency Due to Transfers	Permits with State Liens	Number of Non-mon. Transfers	Number of Monetary Transfers	Average Price Paid for Permits	Number of Financed Monetary Transfers
Salmon Set Net											
Bristol Bay	75	716	592	22	22	+ 2	0	9	0	—	0
	76	759	621	68	65	- 3	0	23	11	2,755	6
	77	824	669	76	74	- 6	0	21	19	2,695	4
	78	891	733	133	125	+ 4	0	39	27	8,507	9
	79	910	745	133	125	- 6	1	32	38	18,184	16
	80	913	728	113	111	-11	11	49	49	30,689	20
	81	914	714	112	106	-17	30	55	56	32,370	27
	82	916	705	118	115	-12	45	48	70	37,357	42
	83	929	711	97	94	- 4	63	48	49	41,680	27
	84	931	712	90	87	- 8	63	43	47	40,766	22
	85	931	714	98	96	0	75	50	48	35,974	22
	86	940	719	97	92	+ 5	86	36	61	33,300	18
	87	942	722	108	101	+ 1	89	44	64	34,453	20
	88	941	716	97	93	- 2	94	50	47	46,508	16
	89	1,007	772	95	92	- 6	86	55	39	63,731	11
	90	1,012	773	85	81	+ 2	94	52	33	60,545	9
Salmon Power Troll											
Southeastern	75	849	619	137	130	+23	0	11	52	5,303	27
	76	915	677	78	76	+ 2	0	14	29	5,065	18
	77	929	698	159	147	+15	0	11	64	8,831	25
	78	934	717	143	127	+13	0	13	78	15,457	39
	79	939	718	126	108	- 3	26	13	61	26,680	39
	80	939	703	97	94	-11	76	14	72	33,308	41
	81	939	712	95	92	+ 7	127	23	68	29,012	47
	82	940	717	86	83	- 3	153	15	71	21,630	44
	83	939	722	95	94	0	167	22	73	20,864	40
	84	940	720	83	81	-10	188	12	71	19,456	34
	85	942	729	83	82	+ 1	211	10	73	21,509	40
	86	942	729	88	85	+ 2	229	16	72	24,776	38
	87	942	748	75	72	+15	239	10	65	26,431	28
	88	942	755	83	80	+13	269	15	68	29,782	37
	89	942	756	63	61	+13	266	7	56	32,446	23
	90	942	754	65	61	0	266	14	51	33,142	17

* Please read "Notes for Table" at end of table.

TABLE 1 — PERMIT AND PERMIT TRANSFER STATISTICS, 1975-1990 *

Fishery and Area	Year	Actual Transfer Information					Transfer Survey Information				
		Total Permanent Permits	Permanent Permits Held by Alaskans	Total Number of Transfers	Number of Permits Involved in Transfers	Change in Residency Due to Transfers	Permits with State Liens	Number of Non-mon. Transfers	Number of Monetary Transfers	Average Price Paid for Permits	Number of Financed Monetary Transfers
Salmon Hand Troll											
Southeastern											
	82	696	660	56	53	- 2	0	24	32	4,036	4
	83	2,121	1,973	100	98	- 5	8	16	84	4,964	16
	84	2,120	1,954	75	73	-11	12	7	68	4,732	11
	85	1,984	1,837	110	105	- 9	17	21	89	5,109	7
	86	1,957	1,805	124	120	- 4	18	16	108	5,252	5
	87	1,919	1,758	109	106	- 7	16	16	93	5,551	8
	88	1,859	1,685	122	121	-10	22	25	97	6,446	7
	89	1,808	1,639	79	76	0	19	13	66	7,323	8
	90	1,772	1,602	116	108	- 5	20	18	98	8,322	11
Salmon Fishwheel											
Upper Yukon											
	76	80	80	2	2	0	0	0	0	—	0
	77	107	107	2	2	0	0	0	0	—	0
	78	108	107	11	10	0	0	0	0	—	0
	79	114	114	6	6	0	0	1	3	***	1
	80	114	114	9	9	0	0	4	5	9,320	2
	81	123	123	16	16	0	0	2	14	10,893	3
	82	130	130	12	12	0	0	4	8	10,500	2
	83	130	129	19	19	- 1	2	12	7	11,643	4
	84	130	129	10	10	0	4	4	6	12,333	0
	85	132	132	9	8	+ 1	4	6	3	***	0
	86	133	132	8	8	0	4	6	2	***	0
	87	133	133	13	13	+ 1	2	4	9	9,089	0
	88	133	133	12	11	0	2	7	5	8,700	0
	89	133	133	7	7	0	2	4	3	***	0
	90	133	132	11	11	0	2	5	6	11,667	1
AYK Salmon Gill Net											
Upper Yukon											
	76	35	35	1	1	0	0	0	0	—	0
	77	44	44	1	1	0	0	0	1	***	0
	78	47	46	2	2	0	0	0	0	—	0
	79	49	48	5	5	0	0	1	2	***	1
	80	48	47	6	5	0	0	6	0	—	0
	81	64	64	8	8	0	0	5	3	***	0
	82	72	71	9	8	0	0	3	6	8,367	0
	83	72	70	10	9	- 1	0	5	5	10,600	0
	84	70	69	4	4	0	0	3	1	***	1
	85	70	69	2	2	0	0	0	2	***	0
	86	70	69	6	6	0	0	3	3	***	0
	87	71	70	7	7	0	0	5	2	***	1
	88	70	68	5	5	0	0	2	3	***	0
	89	69	67	4	4	0	1	0	4	9,875	1
	90	70	68	4	4	0	2	0	4	11,250	1

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TABLE 1 — PERMIT AND PERMIT TRANSFER STATISTICS, 1975-1990 *

Fishery and Area	Year	Actual Transfer Information					Transfer Survey Information				
		Total Permanent Permits	Permanent Permits Held by Alaskans	Total Number of Transfers	Number of Permits Involved in Transfers	Change in Residency Due to Transfers	Permits with State Liens	Number of Non-mon. Transfers	Number of Monetary Transfers	Average Price Paid for Permits	Number of Financed Monetary Transfers
AYK Salmon Gill Net											
Kuskokwim	76	688	688	8	8	0	0	3	0	—	0
	77	761	761	18	18	0	0	11	0	—	0
	78	766	765	50	47	0	0	26	6	6,100	2
	79	781	780	39	37	+ 1	1	17	10	6,420	4
	80	782	782	59	56	0	3	33	16	6,875	5
	81	785	784	49	47	- 1	4	34	14	8,339	3
	82	831	829	44	44	- 1	4	36	8	9,563	3
	83	831	828	64	63	0	4	55	9	10,222	2
	84	831	829	52	52	0	9	37	15	9,893	7
	85	831	829	45	43	0	13	39	6	10,083	1
	86	829	828	43	42	+ 1	16	28	15	10,133	4
	87	829	828	42	40	0	15	34	8	9,563	0
	88	828	826	45	43	- 1	18	27	18	9,669	4
	89	828	826	55	54	0	20	35	20	12,050	1
	90	829	828	57	56	+ 1	22	39	18	12,056	2
Kotzebue											
	76	118	118	4	4	0	0	2	0	—	0
	77	175	175	2	2	0	0	0	0	—	0
	78	177	177	17	17	0	0	5	1	***	1
	79	180	180	18	18	0	0	3	8	5,200	2
	80	194	193	12	11	0	0	8	3	***	1
	81	211	208	18	18	- 1	0	10	8	7,813	0
	82	219	216	25	23	- 1	2	14	11	9,591	3
	83	219	216	17	17	- 1	5	5	12	13,083	4
	84	219	216	20	19	0	5	18	2	***	1
	85	219	215	13	13	0	11	10	3	***	1
	86	219	214	17	17	- 1	15	11	6	10,819	1
	87	219	211	15	15	0	16	11	4	9,500	1
	88	219	213	33	30	+ 2	14	21	11	7,505	0
	89	219	214	14	14	0	10	11	3	***	0
	90	218	212	17	17	0	8	9	8	8,250	2
Lower Yukon											
	76	678	677	6	5	0	0	4	0	—	0
	77	692	691	9	9	0	0	3	2	***	0
	78	695	691	26	25	- 1	0	14	5	6,700	3
	79	702	698	28	27	0	0	12	8	5,834	1
	80	703	700	45	44	0	1	29	9	9,289	2
	81	706	703	36	35	0	1	24	11	9,545	3
	82	707	703	40	38	0	2	28	12	18,250	5
	83	703	698	74	71	- 1	4	48	26	22,346	5
	84	704	699	41	41	0	10	24	17	28,441	8
	85	704	700	38	35	0	11	26	12	22,917	1
	86	703	696	36	36	- 1	16	25	11	22,455	3
	87	703	698	50	49	+ 2	16	38	12	20,688	2

* Please read "Notes for Table" at end of table.

TABLE 1 — PERMIT AND PERMIT TRANSFER STATISTICS, 1975-1990 *

Fishery and Area	Year	Actual Transfer Information					Transfer Survey Information				
		Total Permanent Permits	Permanent Permits Held by Alaskans	Total Number of Transfers	Number of Permits Involved in Transfers	Change in Residency Due to Transfers	Permits with State Liens	Number of Non-mon. Transfers	Number of Monetary Transfers	Average Price Paid for Permits	Number of Financed Monetary Transfers
AYK Salmon Gill Net											
Lower Yukon	88	704	697	37	35	0	19	24	13	20,669	3
	89	704	696	43	43	0	27	32	11	25,527	5
	90	704	694	28	28	- 2	34	19	9	24,778	3
Norton Sound											
	76	169	169	0	0	0	0	0	0	—	0
	77	176	174	2	2	- 1	0	0	0	—	0
	78	176	176	8	8	0	0	1	4	4,350	3
	79	177	175	11	11	- 2	1	2	5	6,300	1
	80	177	175	18	18	0	2	6	11	7,909	3
	81	195	194	17	16	0	3	7	10	9,450	4
	82	200	199	20	19	0	4	10	10	10,100	2
	83	201	199	22	20	- 1	8	15	7	11,429	2
	84	201	199	17	16	0	13	12	5	13,150	3
	85	202	200	13	13	0	13	7	6	12,167	2
	86	201	198	22	20	- 1	14	16	6	10,167	3
	87	201	199	15	15	0	14	11	4	9,750	1
	88	201	199	11	10	0	11	8	3	***	0
	89	201	198	14	13	- 1	11	7	7	9,214	1
	90	200	196	7	7	0	9	5	2	***	0
Totals											
	75	6,762	4,808	590	568	+58	0	83	167	5,694	102
	76	9,173	7,115	776	729	+ 6	0	152	199	5,455	99
	77	9,772	7,639	1,108	1,019	-10	0	181	341	10,013	178
	78	9,975	7,801	1,314	1,185	- 9	0	260	385	20,541	220
	79	10,104	7,867	1,209	1,071	-45	70	216	342	38,491	195
	80	10,132	7,855	1,060	1,017	-16	375	441	480	45,346	282
	81	10,204	7,903	1,092	1,047	-16	712	475	602	44,288	361
	82	11,030	8,650	1,144	1,100	-56	923	490	654	48,115	398
	83	12,488	10,024	1,211	1,169	- 9	1,196	535	675	48,573	371
	84	12,531	10,001	1,053	1,016	-72	1,424	444	609	49,800	279
	85	12,507	9,984	1,111	1,060	-23	1,610	421	689	46,862	271
	86	12,509	9,960	1,191	1,129	+ 7	1,741	440	750	48,986	282
	87	12,486	9,921	1,120	1,069	+ 5	1,791	422	698	50,769	242
	88	12,581	9,913	1,125	1,066	-22	1,913	428	695	61,858	210
	89	12,655	9,924	914	888	- 4	1,912	406	506	86,268	165
	90	13,025	10,198	950	912	-17	1,954	401	549	89,160	135

* Please read "Notes for Table" at end of table.

TABLE 1 — PERMIT AND PERMIT TRANSFER STATISTICS, 1975-1990 *

Notes for Table:

Total Permanent Permits — The number of permanent permits may decrease from one year to the next because of revocations.

Permanent Permits Held by Alaskans — Residency figures were calculated using the permit holder address from 1975-1978. After 1978 permit holders were required to declare their residency status on the renewal form and residency figures were taken from those declarations. These numbers may differ somewhat from those reported in "Changes in the Distribution of Alaska's Commercial Fisheries Entry Permits" published by CFEC. In that report all persons who declared Alaska residency status but had out-of-state addresses are counted as non-residents. Numbers shown in this annual report may differ from those in previous annual reports due to residency status changes resulting from residency investigations. Permits held by the Dept. of Commerce or C.F.A.B. are counted as resident permits.

Total Number of Transfers — Transfers reported here include forfeitures by the Dept. of Commerce or by C.F.A.B.

Change in Residency Due to Transfers — These figures may differ from figures reported in previous annual reports due to residency status changes resulting from residency investigations.

Permits with State Liens — These are permits which have been financed by the Dept. of Commerce or by CFAB or which have been used as collateral against a commercial fishing loan from one of these agencies. These numbers differ from those shown in past CFEC Annual Reports due to permit file corrections and changes in the accounting of forfeited permits.

Transfer Survey Information — These surveys were voluntary until January 1, 1980. Many transfers occurred without completion of a survey form during the years 1975-1979. A few surveys are missing for 1980 and 1981. In addition, there have been five administratively ordered transfers in the 1986-1990 period for which no surveys exist.

Non-monetary/Monetary Transfers — For the years 1980-1990 any transfer survey with a sale price greater than \$500 was counted as a monetary transfer. All other transfers were counted as non-monetary transfers. For the years 1975-1979 the number of monetary transfers reported here is the number of transfer surveys which were used to compute the average price of permits for use by the Dept. of Commerce and CFAB in their loan programs. These surveys were selected using exclusionary criteria different from the \$500 minimum.

Average Price Paid for Permits — These figures are the average of the sale price taken from all surveys counted as monetary transfers. For the years 1980-1990 they may vary slightly from the average prices used by the Dept. of Commerce and CFAB which are based on exclusionary criteria different from the \$500 minimum used in this report. A "—" indicates that there were no monetary transfers for this fishery. A "****" indicates confidential information because fewer than four surveys exist.

TABLE 2 — LOANS APPROVED BY THE DEPT. OF COMMERCE AND
ECONOMIC DEVELOPMENT FOR THE PURCHASE OF ENTRY PERMITS

BY ELECTION DISTRICT, 1990

House Election District	Permit Only		Permit Vessel/Gear		Total	
	No.	Amount	No.	Amount	No.	Amount
01 Ketchikan-Wrangell-Petersburg	16	\$1,370,627	0	\$0	16	\$1,370,627
02 Inside Passage	7	\$350,385	2	\$199,475	9	\$549,860
03 Baranof-Chichagof	5	\$183,244	2	\$125,264	7	\$308,508
04 Juneau	7	\$545,727	1	\$35,000	8	\$580,727
05 Kenai-Cook Inlet	28	\$4,412,842	2	\$143,084	30	\$4,555,926
06 Prince William Sound	11	\$1,642,617	0	\$0	11	\$1,642,617
07-15 Anchorage	14	\$1,752,511	0	\$0	14	\$1,752,511
16 Matanuska-Susitna	3	\$316,859	0	\$0	3	\$316,859
24 Interior Rivers	1	\$19,466	0	\$0	1	\$19,466
26 Bristol Bay-Aleut Isles	5	\$646,566	0	\$0	5	\$646,566
27 Kodiak-E Alaska Pen	2	\$230,600	0	\$0	2	\$230,600
1990 Total	99	\$11,471,444	7	\$502,823	106	\$11,974,267

BY CALENDAR YEAR 1972-1990

Calendar Year	Permit Only		Permit Vessel/Gear		Total	
	No.	Amount	No.	Amount	No.	Amount
1990	99	\$11,471,444	7	\$502,823	106	\$11,974,267
1989	106	\$10,836,615	2	\$171,463	108	\$11,008,078
1988	133	\$9,454,150	11	\$959,421	144	\$10,413,571
1987	123	\$7,680,632	6	\$489,710	129	\$8,170,342
1986	161	\$10,153,268	10	\$702,337	171	\$10,855,605
1985	159	\$9,682,703	22	\$1,509,168	181	\$11,191,871
1984	155	\$9,366,311	7	\$471,050	162	\$9,837,361
1983	147	\$7,697,720	7	\$411,465	154	\$8,109,185
1982	194	\$9,300,897	2	\$134,473	196	\$9,435,370
1981	223	\$10,222,651	13	\$946,591	236	\$11,169,242
1980	93	\$4,145,533	26	\$1,939,951	119	\$6,085,484
1972-79	82	\$3,083,775	63	\$4,706,533	145	\$7,790,308
Total, 1972-1990	1,675	\$103,095,699	176	\$12,944,985	1,851	\$116,040,684

TABLE 2 (cont.) — LOANS MADE BY THE DEPT. OF COMMERCE AND ECONOMIC DEVELOPMENT FOR THE PURCHASE OF ENTRY PERMITS

BY ELECTION DISTRICT FROM 7-1-82 TO 12-31-90 *

House Election District	Permit Only		Permit Vessel/Gear		Total	
	No.	Amount	No.	Amount	No.	Amount
01 Ketchikan-Wrangell-Petersburg	139	\$8,504,595	8	\$522,738	147	\$9,027,333
02 Inside Passage	107	\$4,322,264	17	\$1,197,973	124	\$5,520,237
03 Baranof-Chichagof	81	\$2,116,603	8	\$355,243	89	\$2,471,846
04 Juneau	68	\$3,776,372	5	\$254,080	73	\$4,030,452
05 Kenai-Cook Inlet	259	\$23,281,221	14	\$1,124,984	273	\$24,406,205
06 Prince William Sound	102	\$8,033,770	10	\$802,699	112	\$8,836,469
07-15 Anchorage	151	\$12,119,576	2	\$200,000	153	\$12,319,576
16 Matanuska-Susitna	33	\$2,762,445	1	\$82,000	34	\$2,844,445
17 Interior Highways	10	\$838,682	0	\$0	10	\$838,682
18-21 Fairbanks	20	\$1,136,177	1	\$92,893	21	\$1,229,070
22 North Slope-Kotzebue	5	\$163,688	0	\$0	5	\$163,688
23 Norton Sound	5	\$168,829	0	\$0	5	\$168,829
24 Interior Rivers	5	\$178,730	0	\$0	5	\$178,730
25 Lower Kuskokwim	14	\$789,142	1	\$100,000	15	\$889,142
26 Bristol Bay-Aleut Isles	56	\$4,691,505	2	\$183,000	58	\$4,874,505
27 Kodiak-E Alaska Pen	98	\$6,848,074	5	\$436,300	103	\$7,284,374
	1,153	\$79,731,673	74	\$5,351,910	1,227	\$85,083,583

BY ELECTION DISTRICT FROM 1-1-72 TO 6-30-82 **

House Election District	Permit Only		Permit-Vessel		Total	
	No.	Amount	No.	Amount	No.	Amount
01 Ketchikan-Prince of Wales	35	\$1,095,228	8	\$456,350	43	\$1,551,578
02 Wrangell-Petersburg	40	\$1,455,646	12	\$1,081,983	52	\$2,537,629
03 Sitka	40	\$1,259,203	4	\$155,030	44	\$1,414,233
04 Juneau-Lynn Canal	59	\$2,219,870	23	\$1,414,937	82	\$3,634,807
05 Cordova-Valdez-Seward	34	\$1,474,816	9	\$628,750	43	\$2,103,566
06 Palmer	15	\$700,921	1	\$160,000	16	\$860,921
07-12 Anchorage	93	\$4,492,966	8	\$606,200	101	\$5,099,166
13 Kenai-Cook Inlet	96	\$5,175,152	19	\$1,400,725	115	\$6,575,877
14 Kodiak	51	\$2,712,120	6	\$609,900	57	\$3,322,020
15 Aleutian Chain	8	\$589,500	4	\$363,000	12	\$952,500
16 Bristol Bay	28	\$1,373,829	7	\$661,200	35	\$2,035,029
17-19 Bethel/Wade Hamp./Yukon-Tanana	10	\$454,177	0	\$0	10	\$454,177
20 Fairbanks	9	\$334,100	1	\$55,000	10	\$389,100
21 Barrow-Kobuk	1	\$5,625	0	\$0	1	\$5,625
22 Nome	3	\$20,873	0	\$0	3	\$20,873
Total	522	\$23,364,026	102	\$7,593,075	624	\$30,957,101

* Based on the 27 election districts created by the 1980 reapportionment effective 7-1-82.

** Based on the 22 election districts created by the 1970 reapportionment.