

SCOMM

147:1

Rep. Paul Seaton

From: Louie Flora
Sent: Friday, February 02, 2007 5:31 PM
To: Rep. Paul Seaton
Subject: FW: House Fisheries Committee Documents
Attachments: Permanent Identification Card.doc; SF Enhancement Surcharge Proposal.doc; fee schedule license.pdf; Fishing LicKS Stamp Sales 2001-2006.xls; resurvey.pdf

From: Tim M Barry [mailto:tim_barry@fishgame.state.ak.us]
Sent: Friday, February 02, 2007 5:10 PM
To: Louie Flora
Subject: FW: House Fisheries Committee Documents

Hi,

Attached is the follow up information asked by members of the House Fisheries Committee on January 17. I have referenced the specific documents with the specific questions below in red. I will bring hard copies to you Monday morning. We are still working on answers to questions 1, 4, 5 and 7. If you have any questions, please let me know.

Tim

2. Rep. Seaton requested the legal opinion or memo regarding the ADF/G position on the International Pacific Halibut Commission setting bag-limits for halibut. Also there was the question whether or not the IPHC has authority to delve into allocation issues (I assume the question was whether or not the commission was somehow treading on the state's authority in allocation decisions, but you probably have a better idea what they were talking about....so I'll leave this one up to you) At this time, there has been no legal opinion or memo issued by the Department of Law regarding ADF&G's position on the IPHC decision.

10. Rep. Seaton asked for any information we have about the "Permanent I.D." program (the lifetime license for seniors), especially any data we have on abuses in the program, by, for example, people getting lifetime licenses who don't really live in Alaska. See attached Permanent Identification Card document.

11. Rep. LeDoux asked what is in the angler satisfaction survey. If possible, a copy of the entire survey should be provided to the committee members. See attached Resurvey document plus detailed information below:

There is no report that focuses on reporting angler satisfaction in any detail (because it hasn't been a focus of the previous surveys-----the OMB measures came later.) A copy of the 1997 survey instrument which contained the question about angler satisfaction is attached. It is question #14 on page 8 of the instrument. (pages are not in order because it was a booklet format).

Since the angler satisfaction question was asked there has been more research on how to measure angler satisfaction and although we might use a similarly-worded question, the response scale would likely be different. The SFD is using this research, to develop a survey instrument that will provide us with a meaningful measurement of angler satisfaction and will likely accomplish the following:

1. estimate the overall level of angler satisfaction among resident and non-resident anglers with their 2006 sport fishing experiences at the statewide and regional level.

2. estimate resident and nonresident angler satisfaction with key aspects of recreational fisheries management in Alaska in 2006 at the statewide and regional level including:
 - a) the diversity of fishing opportunities available in terms of species types and fishery type (harvest-oriented, experience-oriented, trophy waters)
 - b) public access to recreational fishing opportunities
 - c) opportunity to harvest fish for consumption
 - d) availability of recreational fisheries that meet or exceed their expectations.

Funding for this survey was provided to the SFD by the legislature last year....

12. Rep. Edgmon would like more information on the bond issue for hatchery construction – history, current situation, etc. See attached SF Enhancement Surcharge Proposal and fee schedule license documents.

13. Rep. Thomas asked if sport fish license sales went down after the recent license fee increase. See attached Fishing License and King Salmon Stamp Sales document.

From: Tim M Barry [mailto:tim_barry@fishgame.state.ak.us]
Sent: Thursday, January 18, 2007 2:43 PM
To: 'Rob Bentz'; 'Hepler, Kelly'; 'Patti Nelson'; 'Geron Bruce'
Cc: 'Louie Flora'
Subject: FW: materials for tomorrow and do you need PowerPoint etc.

Hi everybody,

Below is a list that was compiled by Louie Flora and me that reflects our best recollection of what was asked for by the members of the House Special Committee on Fisheries yesterday. Please get this information together as soon as is practicable and get it to me. I will see to it that it gets to all members of the committee. Feel free to add to this list based on your recollections of yesterday's discussion, and call me with questions.
 Thanks. Talk to you soon.

Tim Barry

From: Louie Flora [mailto:Louie_Flora@legis.state.ak.us]
Sent: Thursday, January 18, 2007 1:37 PM
To: tim_barry@fishgame.state.ak.us
Subject: FW: materials for tomorrow and do you need PowerPoint etc.

From: Louie Flora
Sent: Thursday, January 18, 2007 9:08 AM
To: 'Barry, Timothy'
Subject: materials for tomorrow and do you need PowerPoint etc.

Buenos Dias,

Will you be needing me to set up a power point and otherwise getting anything ready for the overview tomorrow?

Also, just to recap the questions/materials request from yesterday before I forget:

1. Rep. Johansen had the question regarding the 5.9 thousand from the Commercial Fish Revolving Loan Fund.

2/2/2007

Not sure the exact question, but it might be good to perhaps provide a history of Sport Fish use of CFRLF funds.

2. Rep. Seaton requested the legal opinion or memo regarding the ADF/G position on the International Pacific Halibut Commission setting bag-limits for halibut. Also there was the question whether or not the IPHC has authority to delve into allocation issues (I assume the question was whether or not the commission was somehow treading on the state's authority in allocation decisions, but you probably have a better idea what they were talking about.....so I'll leave this one up to you)

3. Rep. LeDoux requested a clarification on the numbers presented in the Comm Fish presentation regarding direct payments to resident and non-resident labor (from the 2003 Northern Economics study) I have a 2003 study by Northern Economics entitled "Economic Impact of the Seafood Industry on Alaska's Economy" and will make copies of this for the committee if it is what the numbers were taken from in the power point. Let me know. Her other question was similar...How much of the money went to resident vs. non-resident permit holders

4. There was a request for a salary and benefits comparison between state and federal biologists and also for comparative data between sport fish and comm fish biologists.

5. Rep. Seaton requested a list of the people in the Retire/Rehire program and an explanation of why the positions were not able to be filled by normal hiring practices.

6. Rep. Seaton asked about direct marketing reporting problems, or what the Division's experience has been so far with the direct marketers reporting.

7. Rep. Seaton would like more information about escapement in general – a comparison of overall statewide escapement success versus information on individual river systems and how well or poorly we did in meeting escapement goals by river system – as well as some information about Upper Cook Inlet in particular. The committee will schedule a meeting for sometime in the next few weeks to discuss Cook Inlet issues – stock assessment, run timing, the use/non-use of emergency orders, management challenges of recent years and proposals for the future, etc.. Louie will tell us when this is going to happen and what he wants in time for us to prepare for that meeting.

8. Rep. Holmes requested a description (maybe a list of bullet points would work) of the permitting steps that a permit applicant must go through to get a permit for an aquatic farm.

9. Can you provide further data on recent oyster and Geoduck farm permitting too.

10. Rep. Seaton asked for any information we have about the "Permanent I.D." program (the lifetime license for seniors), especially any data we have on abuses in the program, by, for example, people getting lifetime licenses who don't really live in Alaska.

11. Rep. LeDoux asked what is in the angler satisfaction survey. If possible, a copy of the entire survey should be provided to the committee members.

12. Rep. Edgmon would like more information on the bond issue for hatchery construction – history, current situation, etc.

13. Rep. Thomas asked if sport fish license sales went down after the recent license fee increase.

I think that about does it.

Louie

MEMORANDUM

TO: Louie Flora
Representative Seaton's staff
FROM: Tim Barry
Legislative Liaison, ADF&G
DATE: February 5, 2007
RE: Materials requested by House Fisheries Committee

Attached with this memo are the following materials requested by one or more members of the House Special Committee on Fisheries in recent weeks:

1. Two background papers and two charts on the Sport Fish enhancement surcharge and the Fairbanks and Anchorage hatcheries it is intended to help pay for.
2. A copy of the Resident Angler survey.
3. A packet of materials for applying for an aquatic farm permit; the first one is a good overview of the process.

Alaska Department of Fish and Game

Sport Fishery Enhancement Surcharge Proposal

A critical mission of the Division of Sport Fish is to sustain and enhance the opportunities and the social and economic benefits that recreational fisheries provide. Hatchery production is key to meeting these objectives in many parts of our state. However, the Sport Fish hatchery facilities that ADF&G owns and operates water limited, and now without affordable heat sources and as a result, are unable to meet current or future demands. In order to rebuild and refurbish the state's hatchery infrastructure, and thereby ensure sport fishing opportunity, ADF&G, through SB147, instituted a sport fishery enhancement surcharge on sport fishing licenses in January of 2006. Without the revenues generated by this surcharge, the means to sustain sport fishing opportunity will be in jeopardy.

Sport Fishing Opportunities are at Stake

With many of our wild trout and salmon stocks already fully utilized, hatcheries play an important role in Alaska by providing additional stocks for angling by sport fishermen.

Production from our hatcheries:

- Generates roughly \$45 million annually for Alaska's economy.
- Accounts for between 10-15% of all the angling effort in Alaska.
- Reduces pressure on our wild stocks by creating new fisheries, thereby adding to conservation for fully utilized stocks.

Hatchery operations are essential and must continue. Without the increase in revenues, we will be forced to reprioritize our expenditures in order to address our aging hatchery infrastructure. This reprioritization will result in reduced expenditures on other programs that are essential, such as our:

- Ability to monitor wild stocks and fisheries statewide.
=> Resulting in more conservative management and potential lost fishing opportunity.
- Ability to assess and restore damaged habitats statewide.
=> Resulting ultimately in reduced production and associated loss of sport fishing opportunity.
- Ability to support management activities statewide. => Resulting in reduced public outreach.

Invest Now to Protect Current and Future Opportunities

\$6 million in additional revenues annually is required to adequately address our aging hatchery infrastructure. To generate this revenue, SB 147 allowed ADF&G to institute a modest surcharge on both nonresident and resident sport fishing license fees. These funds are being used to leverage other federal funds to meet the needs.

Failure to address this problem in a timely manner will demand increased expenditures to maintain angling

facilities; increase pressure on wild stocks (many of which are fully allocated); and increase our need to monitor and assess wild stocks and associated fisheries.

Funding Construction with Revenue Bonds

As the Fish and Game Fund is dedicated per federal law, and the enhancement of fishing opportunity spurs license fee collection, the use of revenue bonds is an appropriate financing tool. The sport fish portion of the Fish and Game Fund is a discreet component that has been pledged to repayment of the bonds that will be used to fund construction. The direct benefactors of the fish raised at these hatcheries over the coming decades will be paying a portion of the hatcheries' cost through a surcharge on licensing fees.

Sport Fishery Enhancement Surcharge

The mission of the Division of Sport Fish is to sustain and enhance the opportunities and the social and economic benefits that recreational fisheries provide. Hatchery production is critical to meeting these objectives in many tide water and inland fisheries. The Anchorage based hatchery facilities are aged, water and heat limited. Although ADF&G has attempted to mitigate these problems through programmatic and facility modifications, at best they have been minimally effective and hatchery production is unable to meet current let alone future demands. In order to rebuild and refurbish the state's hatchery infrastructure, and thereby ensure sport fishing opportunity, ADF&G has secured revenue bond monies in the amount of \$68,030,000 that will be repaid by the sport fishery enhancement surcharge on sport fishing licenses.

The development of the bond package was premised upon a need for \$6.0 million in additional revenues annually to adequately address our aging hatchery infrastructure. The bonds, for which the enhancement surcharge are collected, will be used to build a new hatchery in Fairbanks, build a second and larger facility in the Anchorage area, as well as address hatchery related needs in Southeast Alaska.

Before the enhancement surcharge could be imposed on sport fishing license holders, the Alaska Legislature first passed legislation establishing the surcharge and authorized the Commissioner of the Alaska Department of Fish and Game (ADF&G) to implement the surcharge by regulation. Simultaneously, the Legislature passed legislation giving the Division of Sport Fish the authority to bond for the construction of sport fish enhancement facilities. SB 147 was approved by the legislature during the 2005 session and signed into law in September 2005. The surcharge was implemented in January of 2006 and the actual sale of the bonds occurred on May 2006, allowing for the first use of these funds for construction activities on July 1, 2006. The surcharge Revenues collected in 2006 met the target needed to fully satisfy the annual bond debt and provide an additional \$350,000 of revenue that is being used to conduct enhancement projects in S.E Alaska. The revenue collections also generated a surplus which will be used to retire the bond earlier than the 20 year repayment period. Ultimately the surcharge will be terminated by regulation when the ADF & G Commissioner determines that the surcharge is no longer necessary to repay the revenue bonds issued for construction or renovation of sport fishery enhancement facilities.

Sport Fishery Enhancement Surcharge FAQ's

Why are hatcheries important?

The Alaska Department of Fish and Game (ADF &G) Division of Sport Fish currently owns and operates two hatcheries in Anchorage. These hatcheries produce sport fish that are stocked in creeks and lakes from Kodiak and Southcentral Alaska all the way up into Alaska's Interior. Production from these hatcheries contributes roughly \$45 million of angler derived benefit annually to Alaska's economy; accounts for between 10-15% of all the angling effort in Alaska; and reduces pressure on our wild stocks, thereby adding to conservation for fully utilized stocks.

Why does the State of Alaska need to build/refurbish its hatcheries?

The two existing hatcheries (one at Fort Richardson and one at Elmendorf Air Force Base) are over 30 years old, water limited, inefficient and have deteriorated to the point where they can no longer meet current, let alone future projected production demand. These factors in and of themselves present immense challenges, however, the decisive factor precipitating the need to rebuild the sport fish hatchery infrastructure was the closure of military power plants that had historically provided the heat these hatcheries had used for fish culture activities. The loss of that heat has affected brood stock maturation, incubation, fish growth and fish health. Fish require water temperatures above 50 degrees to grow within a time period where that matches stocking goals of time and size. Without heat the hatcheries are attempting to produce fish with water that this time of year averages from 32 degrees to 40 degrees. The colder water temperatures have resulted in significant loss of hatchery production, and as a result, sport fishing opportunity.

How does ADF&G's Division of Sport Fish propose to address this problem?

ADF &G is well on its way to building a new hatchery in Fairbanks, and in the concept design phase for a hatchery in Anchorage. The department is also addressing additional hatchery-related needs in Southeast Alaska. The new hatcheries in Fairbanks and Anchorage will be designed to meet projected demand in Southcentral and Interior Alaska over the next 20 years or more.

How much will it cost and where will the money come from?

Various funding sources will be used to finance this package. ADF&G has already received \$6.2 million of federal funds for the new hatchery in Fairbanks. However there remains a shortfall of \$4.0 million of federal dollars that have been requested and as yet have not been received. The bond sales have provided an additional \$62.14 million to build these new hatcheries and make hatchery-related improvements in Southeast Alaska.

Who approved the revenue bonds?

After SB 147 was signed into law, the State of Alaska's State Bond Committee approved a revenue bond package on behalf of ADF&G's Division of Sport Fish. The final amount was \$68,060,000

million in revenue bonds to fund the construction of the hatcheries.

Why was the revenue bond authorization greater than the construction cost?

Bond proceeds will be used to pay for construction and also for costs of issuing bonds and providing an advance funded debt service reserve account. The debt service reserve account is a security feature found on nearly all revenue bonds whereby an amount equal to one year's worth of payments is deposited in a pledged account to ensure bond purchasers they would have at least a one year window to seek remedy if a given revenue system failed. This money is then used to make the final payment on the bond issue. The balance of the bond is used to pay brokerage fees, and purchase insurance

How are the revenue bonds being paid back?

In order to meet the \$5.3 million annual debt payments on the bond as well as an additional \$500,000 that will be used for projects in SE Alaska, ADF&G instituted a new sport fish enhancement surcharge on sport fishing licenses. (see attached schedule) The proposed surcharge has been structured so that it will generate roughly \$6 million annually - the same amount required to pay debt service on the bond, conduct SE programs and provide a surplus that will be used to pay down the bond. These revenues will be used, in combination with federal funds, to retire the bond debt.

Did these revenue bonds impact the State's credit?

These bonds will be limited obligations of the State with a pledge of the sport fish portion of the dedicated Fish and Game Fund. The only source of repayment for purchasers of these bonds will be the sport fish portion of the Fish and Game Fund, and no commitment or pledge of the State's General Fund will be made. This same type of bond is used by the State for the Alaska International Airports System (\$427.1 million outstanding) and by many municipalities for a variety of enterprise fund activity (\$513.8 million outstanding).

Is it worth the cost?

Based upon a \$2.0 million dollar annual hatchery budget, the production from the Division's hatchery program generates roughly \$45 million of angler generated benefit annually to Alaska's economy. Over the life of this bond issue, this translates into roughly \$1 billion. When you compare the \$69 million cost to the \$1 billion return, this is a good deal.

How will ADF & G pay for the additional increase in operating costs?

ADF & G already spends \$2.0 million annually to fund the operation of our two sport fish hatcheries in Anchorage and estimates that it will cost an additional \$1.5 million annually to operate these new facilities. We will use available license income and federal aid dollars to finance these additional costs.

How will different regions of Alaska benefit from these activities?

This is a statewide proposal that is a win-win situation for everyone. Sport anglers in Southcentral and the Interior will benefit directly because they will have two new hatcheries designed to meet current and future demands tailored to meet their specific stocking needs.

ADF&G currently spends \$750,000 annually in Southeast to support private non-profit hatcheries that

produce fish and provide sport fishing opportunities. ADF&G plans to spend \$500,000 annually, for the term of the bond, from the revenues generated by the enhancement surcharge to further expand sport fishing opportunities in Southeast - bringing our total annual expenditure to roughly \$1.25 million.

Residents from rural Alaska will also benefit. When anglers are fishing in stocked waters, they are fishing on hatchery produced fish. If the hatchery fish are no longer available or cease to exist, then logically sport fishing pressure would shift to wild stocks, many of which are located in rural areas. Likely this would result in increased harvests and to save the resource, fisheries managers would implement more restrictive harvest limits. Subsistence fishermen are not required to purchase a sport fishing license to take advantage of these fish.

How many of the hatchery fish will be harvested by commercial fisherman?

The Sport fish stocking program is designed to minimize commercial harvest so sport fish anglers get the maximum benefit for the fees they pay. As a result, a very low percentage of stocked fish are commercially harvested. In the Cook Inlet area, sport and personal use fisherman catch 96% of the adults returning from ADF&G hatchery releases. Commercial fishermen typically harvest 4%. The main reason that the commercial harvest is so low is that the vast majority of adult kings have entered fresh water drainages by the time the major commercial fisheries begin and are therefore unavailable for harvest by this user group.

What impact has the surcharge had on Charter operators or fishing guides?

As expected, the hatchery surcharge on non-resident anglers has not had a negative impact on this industry. ADF&G has in the past increased license/tag fees and the number of license sales has continued to grow despite the increases. The license sales history tracks with historical trends so far.



Foundation of Security Surcharge Schedule

The surcharge becomes effective on January 1, 2006

License Type	License Fee ⁽¹⁾		King Salmon Stamp ⁽²⁾
	Base Fee	Surcharge	
Resident sport fishing license	\$15	\$9	\$10
Resident hunting and sport fishing license	39	9	10
Resident hunting, trapping, and sport fishing license	39	9	10
Non-resident 14-day sport fishing license	50	30	50
Non-resident 7-day sport fishing license	30	25	30
Non-resident 3-day sport fishing license	20	15	20
Non-resident 1-day sport fishing license	10	10	10
Non-resident annual sport fishing license	100	45	10
Special non-resident military small game and sport fishing license	39	9	
Special non-resident military sport fishing license	15	9	

(1) Required for all sport fishing activity.

(2) Additional stamp and fee required to fish for King salmon.

**Alaska Department of Fish and Game
Division of Sport Fish License Sale Information**

	Number of Licenses Sold					
	2001	2002	2003	2004	2005	2006
Sport Fishing Licenses						
Resident SF	178251	187031	190751	191373	191022	183983
Nonresident SF	274968	287834	292844	318056	335327	315231
Total	453219	474865	483595	509429	526349	499214
%Inc/Dec		4.78%	1.84%	5.34%	3.32%	-5.16%
King Salmon Stamps						
Resident KS	78647	84781	94413	92627	93630	91882
Nonresident KS	107871	111411	114763	125728	131541	134129
Total	186518	196192	209176	218355	225171	226011
% Inc/Dec		5.19%	6.62%	4.39%	3.12%	0.37%
Total Licenses/KS Stamps	639737	671057	692771	727784	751520	725225
Total % Inc/Dec		4.90%	3.24%	5.05%	3.26%	-3.50%

Any additional comments you have will be greatly appreciated.

Please return your completed questionnaire in the enclosed
postage-paid envelope or mail to:

Alaska Department of Fish and Game
Division of Sport Fish
Research and Technical Services
333 Raspberry Road
Anchorage, AK 99518-1599
attn: Allen Howe



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FISHING IN ALASKA



RESIDENT ANGLER PREFERENCES AND OPINIONS

It is very important that this questionnaire be completed by the person to whom it is addressed. Please try to answer what you believe to be true for you. The best answers are the ones which most closely reflect your own feelings, opinions, experiences, and knowledge.

Please return your completed questionnaire in the enclosed envelope.

INSTRUCTIONS

This questionnaire has four sections:

- Section 1: 1997 Fishing Trips
- Section 2: Fishing Experience and Preferences
- Section 3: Sport Fishing Management
- Section 4: Demographic Information

Instructions for Completing this Questionnaire

Most of our questions ask about your recent sport fishing activities in Alaska. What we are looking for is your best recollection of these sport fishing activities. We are also interested in knowing your fishing preferences and opinions regarding the management of sport fishing in Alaska. Please answer all questions to the best of your ability.

Your Participation is Needed to Maintain Sport Fishing Opportunities in Alaska



Brook Trout: spots on body pale or red with blue halos, but never brown or black; dark green wavy marks on back and dorsal fin; 8-12 anal fin rays.



Arctic Grayling: dorsal fin typically with dark purple edge and much longer (18 or more rays) than in whitefish and fan-like; rows of reddish to orange and/or purple to green spots on dorsal fin; sides of fish are black spotted; scales larger than in trouts.



Cutthroat Trout: spots on body dark brown or black; anal fin rays 8-12; no red band on sides; red to orange slash on underside of lower jaw; upper jaw extends well behind eye in adults.



"Whitefish": several common species that occur in Alaska are the round whitefish, humpback whitefish, least cisco, and sheefish. Whitefish are distinguished from the trout and salmon by the small, weak, or absent teeth and the presence of large scales; distinguished from the arctic grayling by the much smaller dorsal fin (15 or fewer rays). A round whitefish is shown.



Rainbow Trout: spots on body dark brown or black; anal fin rays 8-12; reddish band on sides; no red slash under jaw; upper jaw usually does not extend behind eye in adults. NOTE: Steelhead are sea-run rainbows, and should be recorded separately in the booklet.



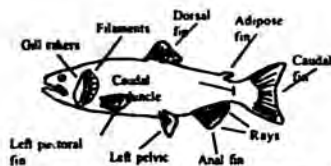
Barbel: two dorsal fins and one anal fin present; no adipose fin as in the trouts, salmon, grayling and whitefish; pelvic fins very far forward and just under head; body long and tapering; barbel on chin.



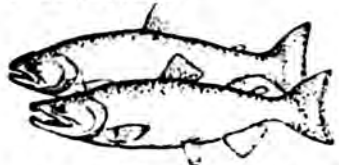
Northern Pike: dorsal and anal fins positioned rearward; no adipose fin as in the trouts, salmon, grayling and whitefish; long flattened jaws with large mouth and many large, sharp teeth, sides are yellowish-gray.



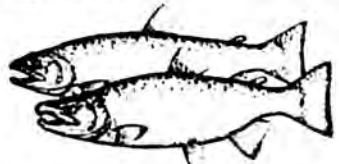
"Rockfish": several species of marine fish also referred to as black bass, sea bass, and red snapper. Rockfish may be distinguished from sculpins (Irish Lords) by the dorsal fin, which has spines on the front half and soft rays on the rear half in the rockfish. NOTE: Handle with care because of spines.



General Characteristics of Fish: cut away of operculum (gill-cover) showing one gill arch, filaments, and gill rakers.



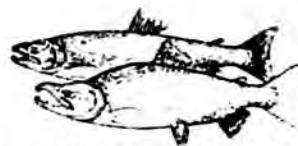
King (Chinook) Salmon: small black spots on back and on both lobes of caudal fin; gum line of lower jaw black; scales large; gill rakers less than 25; anal fin rays 15-17.



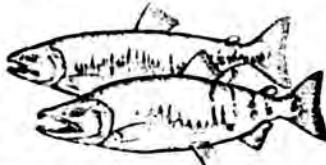
Silver (Coho) Salmon: small black spots usually occur only on upper lobe of caudal fin and on back; gum line on lower jaw not black; scales large; gill rakers less than 25; anal fin rays 13-15.



Pink (Humpback) Salmon: large oval black spots on back and on both lobes of caudal fin; scales very small; usually over 12 anal fin rays; males develop a pronounced hump during spawning.



Sockeye (Red) Salmon and Kokanee (landlocked form): no distinct black spots on back or tail; 30-40 long, fine, and serrated, closely spaced gill rakers over 12 anal fin rays. **NOTE:** Kokanee should be recorded separately in the booklet.



Chum (Dog) Salmon: no distinct black spots on back or tail; 18-28 smooth, short, stout, and widely spaced gill rakers; usually over 12 anal fin rays.



Dolly Varden/Arctic Char: round, red, pink or yellow spots on sides, caudal fin slightly forked, 8-12 anal fin rays, no dark green wavy marks on back or dorsal fin.



Lake Trout: body dark green to grayish with oval or irregular white to yellowish spots on sides and back; caudal fin deeply forked, 8-12 anal fin rays; no dark green wavy marks on back or dorsal fin.

Mark all checkboxes in this survey by placing an "x" in the appropriate box. Please do not allow marks to stray into other boxes if possible.

SECTION I 1997 Fishing Trips

This section asks for information about sport fishing trips you took in 1997. If you did not sport fish in 1997 but fished in previous years, you are asked to complete only specific sections of the survey.

Q-1. Did you go sport fishing in Alaska in 1997?

- ☐ Yes → If you answered "Yes", please skip to Question 3.
☐ No → If you answered "No", please answer Question 2.

Q-2. Have you sport fished in Alaska in any previous year?

- ☐ Yes → If "Yes", please skip to Section 2 on page 7.
☐ No → If "No", please skip to Section 4 on page 14.

Q-3. Please estimate the total number of days you spent sport fishing in each of the following locations during the past year (Jan-Dec 31, 1997). (Count each partial day of fishing as one day and write in the estimated total on the blank line.)

Number of days fished in Alaska _____

Number of days fished in other states/provinces/countries _____

Q-4. Which of the following statements best characterizes your fishing participation reported above? (Please mark the one most appropriate box.)

- ☐ 1997 represents a typical fishing year for me
☐ I generally fish fewer days than I did last year
☐ I usually fish more days than I did last year
☐ 1997 was my first year of fishing

Yes No

Q-5. Did you purchase a king salmon tag in 1997? ☐ ☐

Q-6. Please tell us about your 1997 Alaska sport fishing. For each fishery you visited, please record the following.

- 1) In the **FISHERY RECORD** grid: Write the area and the specific location fished and the type of fish targeted.
- 2) In the **ANNUAL DAYS FISHED** grid: Write the total number of days fished and total guided days fished by fishery under the appropriate period (Jan-Apr, May, June, etc.).

- A **FISHERY** is defined as a location plus a target species, for example: Kenai River—king salmon or Kenai River—rainbow trout. Please use one line for each target species at the same location.
- A **GUIDED DAY** includes fishing on a charter boat or in the company of an individual who assisted you in the taking of sport fish in exchange for a fee.

FISHERY RECORD

Use one line per fishery (target species + location). If no target at a given location, use "X" = "no target".

[illegible]**TARGET SPECIES CODES** (Refer to the fish identification pictures inside the back cover)

KS - King (Chinook) Salmon Chinook

RS = Red (Sockeye) Salmon

SS = Silver (Coho) Salmon

PS = Pink (Humpback) Salmon

CS = Chu_m (Dog) Salmon

S = Any Sea-run Salmon

HLA - Halibut

LC = Lincode

RF = Rockfish ("Sea Bass")

L.L. = Land-Locked Salmon

SH = Steelhead trout

RT = Rainbow trout

CT - Cutthroat Trout

BT - Brook Trout**DV - Dolly Varden/Arctic Char**

I.T = Lake Trout

GR = Arctic Grayling

2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 26

OTHER COMMENTS

Please use the following space for any additional comments you would like to make about fishing in Alaska or Alaska's fishery resources.

[illegible]

Thank you for your time and assistance!



The following information is needed for statistical purposes only and will be kept strictly confidential. We would appreciate your answering of these questions, but if you feel this is a private matter, we respect your decision not to answer.

Q-26. What is the highest level of formal education you have completed? (Please mark one box.)

- ☐ Some high school ☐ Some college
☐ High school degree ☐ College degree
☐ Vocational/technical degree ☐ Post graduate study

Q-27. Which of the following do you consider yourself?

- ☐ Native American Indian or Native Alaskan
☐ Asian or Pacific Islander
☐ Black, not of Hispanic origin
☐ Hispanic
☐ White, not of Hispanic origin
☐ Other: _____

Q-28. Which category best describes your household's 1997 income before taxes?

- ☐ Less than \$10,000 ☐ \$75,000-99,999
☐ \$10,000-24,999 ☐ \$100,000-199,000
☐ \$25,000-49,999 ☐ More than \$200,000
☐ \$50,000-74,999



15

EXAMPLE: J. Fisher participated in two different fisheries in 1997. In June, she spent one day fishing for king salmon in saltwater off Deep Creek/Ninlichik with a local guide. She also spent two days fishing for halibut off Deep Creek in mid-July, and another two days fishing for halibut in the same area in August. Her Alaska sport fishing experiences are recorded in the example lines in the table below.

*Please record your total days fished and guided days fished in the appropriate monthly periods below (May, June, etc.).

ANNUAL DAYS FISHED (for each Fishery listed on the facing page)[illegible]**TARGET SPECIES CODES (CONTINUED)**

BJ1 = Burbot
 WF = Whitefish
 SF = Sheefish
 NP = Northern Pike
 SM = Smelt/Hooligan/Capeelin
 OF = Other fin fish
 RC = Razor Clams
 OS = Other Shellfish
 X = No target

Continue on the following page, if necessary.

FISHERY RECORD

[illegible]

KS = King (Chinook) Salmon	HA = Halibut	CT = Cutthroat Trout
RS = Red (Sockeye) Salmon	LC = Lingcod	BT = Brook Trout
SS = Silver (Coho) Salmon	RF = Rockfish ("Sea Bass")	DV = Dolly Varden/Arctic Char
PS = Pink (Humpback) Salmon	LL = Land-Locked Salmon	LT = Lake Trout
CS = Chum (Dog) Salmon	SH = Steelhead Trout	GR = Arctic Grayling
S = Any Sea-run Salmon	RT = Rainbow trout	

	STRONGLY DISAGREE	DISAGREE	NEITHER AGREE OR DISAGREE	AGREE	STRONGLY AGREE
Annual (sport) harvest limits for <u>residents</u> and <u>nonresidents</u> should be the same. . . .	☐	☐	☐	☐	☐
Annual (sport) harvest limits for <u>residents</u> should be <u>higher</u> than annual harvest limits for <u>nonresidents</u>	☐	☐	☐	☐	☐
Annual (sport) harvest limits for <u>residents</u> should be <u>lower</u> than annual harvest limits for <u>nonresidents</u>	☐	☐	☐	☐	☐
There should be limits on the <u>number of people</u> that are allowed to participate in some Alaska sport fisheries to provide opportunities for high quality sport fishing experiences.	☐	☐	☐	☐	☐

Q--23. In what year were you born?

Q-24. How long have you lived in Alaska? (Please write in the total number of years.) _____ years

Q-25. Are you:

- 5

Q-19. What is your general impression of how well the Alaska Department of Fish and Game is doing its job of managing Alaska's sport fisheries? (Please check one box.)

- ☐ Excellent ("A")
☐ Good ("B")
☐ Fair ("C")
☐ Poor ("D")
☐ Very Poor ("F")
☐ Not Sure

Q-20. Do you own or work for a sport fishing-related business in Alaska?

- ☐ No → If "NO", please skip to Question 21.
☐ Yes

If "Yes," what type(s) of business(es) do you own or work for? (Mark all that apply.)

- ☐ Guide service
☐ Sport fishing lodge
☐ Charter boat
☐ Other:

SECTION 3

Sport Fishing Management

Q-21. Do you think the Alaska Board of Fisheries should establish statewide limits on the total number of sport-caught fish NONRESIDENT ANGLERS can harvest in Alaska each year?

- ☐ Yes ☐ No → If "No", then skip to Question 22.

If you answered "Yes", for what species of fish should annual harvest limits be established for nonresident anglers?

- ☐ King (Chinook) Salmon
☐ Coho (Silver) Salmon
☐ Sockeye (Red) Salmon
☐ Halibut
☐ Rainbow Trout
☐ Grayling
☐ Other (please specify)

ANNUAL DAYS FISHED (for each Fishery listed on the facing page)[illegible]**TARGET SPECIES CODES (CONTINUED)**

BB = Burbot	OF = Other fin fish
WF = Whitefish	RC = Razor Clams
SF = Sheefish	OS = Other Shellfish
NP = Northern Pike	
SM = Smelt/Hooligan/Capelin	X = No target

SECTION 2

Fishing Experience and Preferences

Next, we would like to ask you a few questions about your sport fishing background and preferences related to fishing in Alaska. This information will help the Alaska Department of Fish and Game provide sport fishing opportunities that match the desires of Alaska's diverse angling interests.

Q-7. How many years have you fished in Alaska or elsewhere? (Write in the total number of years.) _____ Years

Q-8. What types of sport fishing did you engage in during the past year (in Alaska or elsewhere)? (Mark as many as apply.)

- | | |
|--|---|
| ☐ Ice fishing | ☐ Shore/bank fishing |
| ☐ Fly fishing | ☐ Fishing from a boat or raft |
| ☐ Artificial lure/spin casting | ☐ Float tube |
| ☐ Bait fishing | ☐ Other (please specify) _____ |
| ☐ Saltwater fishing from a boat | |

Q-9. How would you rate your expertise as an angler?

Beginner Intermediate Advanced Don't know

☐ ☐ ☐ ☐

Q-10. When you go sport fishing, who do you usually fish with? (Mark all that apply.)

- ☐ Family members who live in Alaska
☐ Friends who live in Alaska
☐ Family/friends visiting Alaska
☐ People I work with/business associates
☐ I usually fish alone
☐ Other: _____

Q-18. How important is catching fish for you? For each of the following statements about catching fish please tell us how strongly you agree or disagree? (Please mark one box for each statement)

Statement	STRONGLY DISAGREE	DISAGREE	NEITHER AGREE OR DISAGREE	AGREE	STRONGLY AGREE
A successful fishing trip is one in which I catch many fish.	☐	☐	☐	☐	☐
I like to fish where there are several kinds of fish to catch. ...	☐	☐	☐	☐	☐
Keeping the fish I catch is more enjoyable than releasing them.	☐	☐	☐	☐	☐
Catching a trophy fish is the biggest reward for me.	☐	☐	☐	☐	☐
A fishing trip can be successful even if I catch no fish.	☐	☐	☐	☐	☐
A full stringer is the best indicator of a good fishing trip.	☐	☐	☐	☐	☐
When I go fishing, I'm not satisfied unless I catch at least something.	☐	☐	☐	☐	☐
Bringing fish home to the table is an important outcome of fishing.	☐	☐	☐	☐	☐
The more fish I catch, the happier I am.	☐	☐	☐	☐	☐
I'm just as happy if I don't keep the fish I catch.	☐	☐	☐	☐	☐
The bigger the fish I catch, the better the trip.	☐	☐	☐	☐	☐
When I go fishing, I'm just as happy if I don't catch a fish.	☐	☐	☐	☐	☐
I am happiest with a fishing trip when I catch fish that are hard to catch and land.	☐	☐	☐	☐	☐

Q--17. Below is a list of possible reasons for fishing. Please tell us how important each one is to you as reason for fishing. (Please mark the most appropriate box for each reason.)

Reason	UNIMPORTANT	SOMEWHAT IMPORTANT	IMPORTANT	VERY IMPORTANT	EXTREMELY IMPORTANT
Testing and using my fishing equipment.	☐	☐	☐	☐	☐
Experiencing natural surroundings.	☐	☐	☐	☐	☐
Obtaining fish to eat.	☐	☐	☐	☐	☐
Developing my fishing skills.	☐	☐	☐	☐	☐
For the stimulation and excitement of fishing.	☐	☐	☐	☐	☐
Releasing or reducing built-up tensions while I fish.	☐	☐	☐	☐	☐
Competing against other anglers (e.g. fishing tournaments, derbies).	☐	☐	☐	☐	☐
Being on my own.	☐	☐	☐	☐	☐
Catching any fish.	☐	☐	☐	☐	☐
Being with friends or family.	☐	☐	☐	☐	☐
Sharing what I know about fishing with others.	☐	☐	☐	☐	☐
Learning more about fish.	☐	☐	☐	☐	☐
Getting away from other people.	☐	☐	☐	☐	☐
Catching trophy fish.	☐	☐	☐	☐	☐
For the challenge or sport of fishing.	☐	☐	☐	☐	☐

Q--11. On a scale of 1 to 10, how important is fishing as a source of satisfaction in your life? (Please circle the most appropriate number.)

NOT AT ALL IMPORTANT 1 2 3 4 5 6 7 8 9 10 EXTREMELY IMPORTANT

Yes No

Q--12. Are you a member of a fishing club or sporting organization? ... ☐ Yes ☐ No

Q--13. Do you subscribe to any sport fishing magazines? ☐ Yes ☐ No

Q--14. In general, how satisfied were you with your 1997 sport fishing experiences in Alaska?

- ☐ Very Dissatisfied
- ☐ Somewhat Dissatisfied
- ☐ Somewhat Satisfied
- ☐ Very Satisfied

Q-15. What would have made your Alaska sport fishing more satisfying?

Q-16. In order to improve fishing opportunities, we need to know what factors are important to you in selecting where to sport fish in Alaska. (For each characteristic below, please mark one box indicating how important the characteristic is to you when selecting where to fish.)

In deciding where to sport fish, I consider...	UNIMPORTANT	SOMEWHAT IMPORTANT	IMPORTANT	VERY IMPORTANT	EXTREMELY IMPORTANT
Chance to catch large or trophy-sized fish	☐	☐	☐	☐	☐
Natural beauty of the area	☐	☐	☐	☐	☐
Being in an area with few other anglers	☐	☐	☐	☐	☐
Chance to catch a variety of fish	☐	☐	☐	☐	☐
Availability of guiding services	☐	☐	☐	☐	☐
Being in a wilderness area	☐	☐	☐	☐	☐
Having a good chance to catch a daily bag limit ...	☐	☐	☐	☐	☐
Availability of campground/cabin facilities	☐	☐	☐	☐	☐
Presence of favorite (preferred) types of fish.	☐	☐	☐	☐	☐
Opportunity for solitude ..	☐	☐	☐	☐	☐
Catch rate of keepable fish	☐	☐	☐	☐	☐

In deciding where to sport fish, I consider...

	UNIMPORTANT	SOMEWHAT IMPORTANT	IMPORTANT	VERY IMPORTANT	EXTREMELY IMPORTANT
Catch rate of <u>all</u> fish	☐	☐	☐	☐	☐
An area with fly-in access	☐	☐	☐	☐	☐
Not having to travel a long time	☐	☐	☐	☐	☐
Familiarity with the area	☐	☐	☐	☐	☐
Boat launching facilities	☐	☐	☐	☐	☐
Chance to catch wild fish	☐	☐	☐	☐	☐
Bank fishing opportunity	☐	☐	☐	☐	☐
Nearness to second home or cabin	☐	☐	☐	☐	☐
Accessibility	☐	☐	☐	☐	☐
Opportunities to view wildlife	☐	☐	☐	☐	☐



2007 AQUATIC FARM PROGRAM

Application Opening Period
January 1, 2007 through April 30, 2007

PART I APPLICATION PROCESS GUIDELINES AND CONTACTS

This application packet provides you with information about the Alaska Aquatic Farm Program application process, requirements, restrictions and guidance for farm site development, the application for suspended and/or on-bottom aquaculture, and agency contact information. It is designed to help you obtain the authorizations initially required by the Alaska Departments of Natural Resources (ADNR), Fish and Game (ADFG), Environmental Conservation (ADEC), and the Office of Project Management and Permitting, Alaska Coastal Management Program (OPMP/ACMP), to site, develop, and operate your aquatic farm project. The aquatic farm program is administered through a batch processing method wherein all applications received during the opening period are processed on the same schedule. The application package is presented in three parts: Part I (this section) – application process guidelines and contacts; Part II - Instructions and Application; Part III - a list and descriptions of the authorizations required to operate an aquatic farm in the State of Alaska, including other information pertinent to operating an aquatic farm.

Written authorizations are required from all agencies before any aquatic farm activities may begin. During later stages of aquatic farming operations, authorizations are required to stock and sell your aquatic farm products. You must apply separately to the ADFG and ADEC for these authorizations after you complete this application process. These later authorizations are described further on page 3.

If you require technical assistance to complete the application (Part II), please contact any of the agency representatives who are listed on page 10 of this document.

Potential applicants should be aware that the ADNR also offers an Over-The-Counter (OTC) Program for aquatic farm sites that currently has 128 pre-approved sites available on a first-come, first-served basis and, upon approval of the required operation and development plan, authorizations in most cases can be obtained after 4-6 weeks. The OTC Program offers a more streamlined method outside the standard opening of obtaining an aquatic farm site because the public process has been completed for that program. OTC sites are located throughout Southcentral and Southeast Alaska. For more information on the OTC program, please contact the aquatic farm program manager at (907) 269-8543 or visit the following website:
www.dnr.state.ak.us/mlw/aquatic/otc/index.cfm

A. Application Process

The Alaska Department of Natural Resources (ADNR) holds an aquatic farm application opening every other year. This year Aquatic Farm Applications will be accepted by the ADNR from January 1, 2007 to April 30, 2007. It is highly recommended that applicants seek a pre-application meeting prior to submitting an application to ensure that your application is complete and you understand the requirements and restrictions that apply to your proposed site selection. Regulatory agencies request that applicants provide as much detailed information concerning their project as possible. Additionally, applicants should discuss their proposal with U.S. Army Corps of Engineers (USACOE) to obtain information on their requirements and authorizations.

The following information outlines the application process involved for an ADNR aquatic farm lease and an ADFG aquatic farm operation permit. For more specific information, refer to the ADNR regulation, Chapter 11 AAC 63.030 and ADFG regulation, Chapter 5 AAC 420 and 616 40.110. A flowchart of the application process (Figure 1) can be found on page 4.

1. **Pre-Application Meeting.** Applicants may request a pre-application meeting through OPMP and the regulatory agencies to discuss their proposal before initiation of the state's ACMP consistency review. If interest is shown, application workshops will be scheduled at the beginning of the application opening period. If you are interested in attending a workshop, please call either the ADNR or ADFG representative listed on page 10.
2. **Submit Application and Fees to DNR.** Applicants submit their application to the ADNR. ADNR makes copies and distributes to the OPMP (ACMP), ADFG and ADEC for review to determine whether or not the application is complete. If incomplete, OPMP (ACMP) will consolidate requests from the review agencies and send a letter to the applicant to request additional information (RAI). The applicant is given 30 days to respond. Failure to respond may result in the file being closed.

Application, lease and permit fees:

ADNR Application Fee.....	\$100 to be included with application
ADNR Lease Fee.....	\$450 up to one acre plus \$125 each additional acre per year due at the time the lease is issued
ADNR Bond.....	\$2500 Bond per farm site (may be increased for facilities) due at the time the lease is issued
ADFG Survey Fee.....	\$2000 Inter-tidal survey fee to Fish and Game at time of and included with the application** \$5000 Sub-tidal survey fee to Fish and Game at time of and included with the application**

**Actual cost may vary by site, please refer to Part III, pages 3 & 4.

3. **DNR Preliminary Decision, Public Review and Comment.** Preliminary decisions are made by utilizing information from the applicant, input from state agencies and by following statutory and regulatory requirements. ADNR preliminary decisions include proposed action and preliminary findings and recommended a decision on whether to grant approval or deny the lease based on information provided up to this time. Public meetings or public hearings can be requested by contacting ADNR. The applicant is asked to attend in person or via teleconference to address questions from the public.
4. **ACMP Consistency Determination.** Concurrent with the review of this application, state agencies, affected coastal districts, and the public will be reviewing your proposal for consistency with Alaska Coastal Management Program (ACMP) statewide standards and, if applicable, individual coastal district enforceable policies. Based on received comments, OPMP (ACMP) will make a "proposed" (preliminary) consistency determination on whether the project meets the Alaska Coastal Management Program (ACMP) statewide standards under 11 AAC 112. OPMP will send a "proposed consistency determination" to an applicant that indicates if standards are met and if not, what alternative measures need to be incorporated for the project to achieve consistency. OPMP's "proposed consistency determination" will also include other participating review agency anticipated stipulations necessary to get authorized under their own regulations.

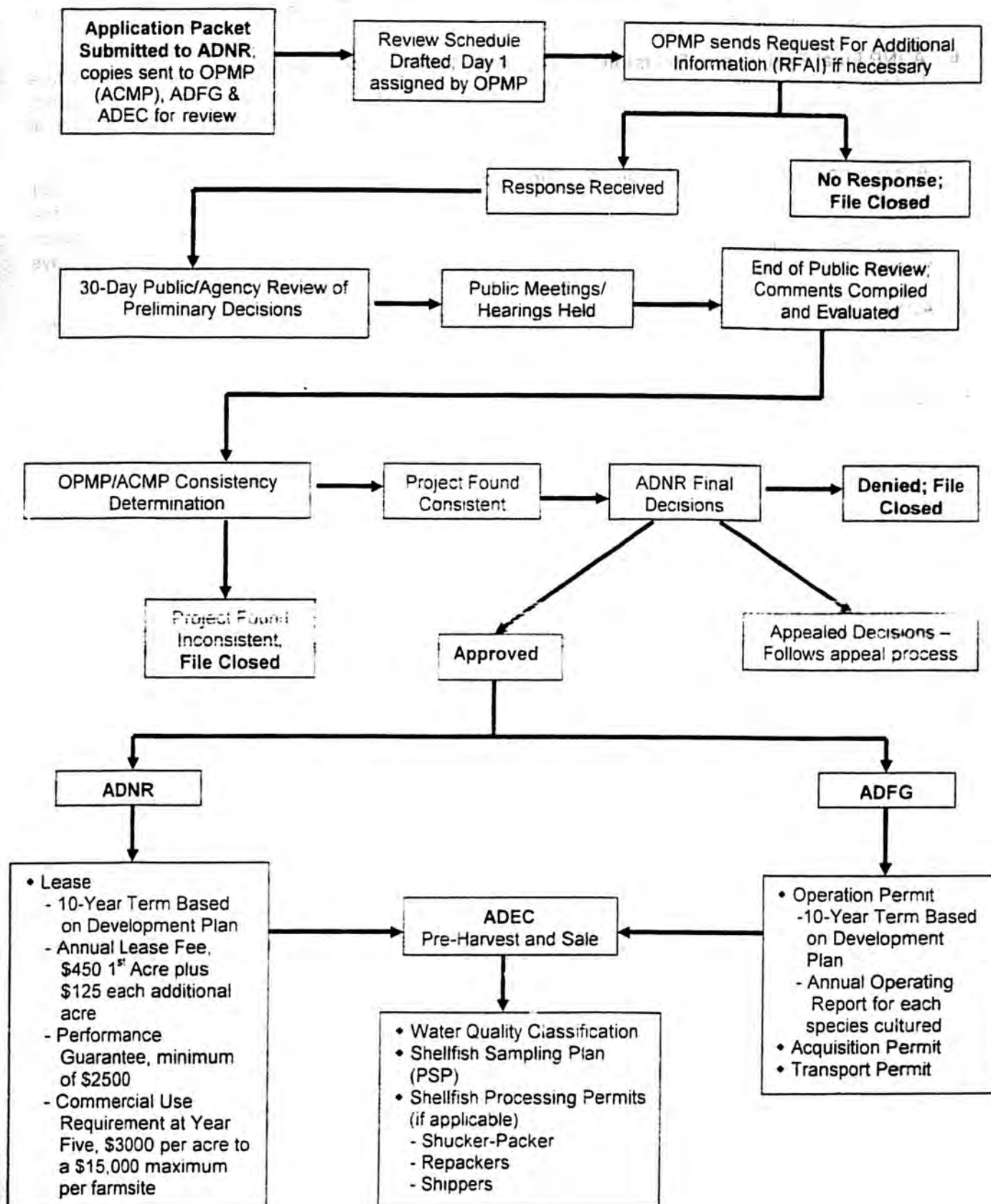
Within five calendar days, a response to the proposed consistency determination has to be submitted to OPMP (ACMP) by the applicant or the ACMP consistency review file will be closed. If the applicant agrees to incorporate the measures required for consistency, OPMP will then issue an appropriate final consistency determination. If the applicant does not agree with the necessary alternative measures, they may request an elevation of the OPMP determination to the Commissioner of DNR. In some cases, OPMP may terminate a consistency review if a resource agency denies an authorization during the consistency review process. If a site is found inconsistent in the final consistency determination, the review file is closed and the review is terminated.

5. **ADF&G Site Survey and Review.** For on-bottom aquatic farm projects, ADFG requires that a site biomass survey be completed to determine whether or not the proposed aquatic farm contains an insignificant population of wild stock shellfish (see Part III, page 3, Authorizations and Attachments for more information). You will be contacted to schedule a site biomass survey for your proposed farm site. Your presence at the survey will be requested.
6. **ADNR Final Finding and Decision.** The ADNR Aquatic Farm Program Manager will prepare a final findings and decision document to grant or deny the lease. It will include participating agency stipulations the applicant is required to adhere to. The final decision will be sent to the applicant and all interested parties with required appeal instructions.
7. **ADFG Final Review and Determination Decision.** The ADFG Mariculture Program Coordinator will prepare a letter to the applicant that will include the findings of the review and determination of the proposed aquatic farm project, the final survey results, and a decision to grant or deny the operation permit. The final decision will be sent to the applicant and all interested parties, and will have 30 days to comment and respond in writing to request ADFG to reconsider the final decision.
8. **ADNR Lease.** The ADNR Aquatic Farm Program Manager will send the lease to the applicant for signature. The applicant must return the signed lease to DNR within 30 days along with required yearly lease fees.
9. **ADFG Operation Permit.** The ADFG Mariculture Program Coordinator will send the operation permit to the applicant.
10. **ADEC Pre-Harvest and Sale Requirements.** ADEC requires a Growing Area Classification, a Shellfish Shipper Permit, and a Harvest permit prior to placing any product into commerce. Without a passing water classification and shellfish sampling plan, none of the shellfish from the farm site can be harvested. Prepare ahead and complete this requirement before you sign the lease and the operation permit. **You also need to obtain a harvester permit or a shellstock shipper permit from ADEC in order to sell an aquatic farm product. DEC requires a fee of \$500 for the initial water classification. If applicable, \$162 for a Shellfish harvest permit, \$162 for the Shellfish Shipper permit, \$649 for a Shellfish Shucker Packer permit, and \$325 for a Shellfish Repacker permit.**
11. **Federal Authorizations.** A number of federal authorizations may also be required for aquatic farm operations. Applicants should confer with the following agencies to determine which federal applications are necessary:
 - United States Army Corps of Engineers (COE) for uses within navigable waterways COE Permits are required for any structures to be used at the proposed farm site such as mooring buoys in navigable waters.
 - United States Forest Service (USFS) for associated upland use within national forests
 - United States Fish and Wildlife Service (USFWS) for wildlife refuges, and fish and wildlife siting restrictions

If your proposal requires a federal authorization, submit copies of the applicable federal applications along with the state Aquatic Farm Application to the Alaska Department of Natural Resources. Authorizations and applications can be found in Part III. Federal contact information can be found on page 10.

Under this program, final decisions can take approximately nine months to complete for a suspended aquatic farm and up to fifteen months for an on-bottom aquatic farm due to the additional ADFG survey requirement. Farming operations can begin when all necessary authorizations are issued, in most cases between January and March of 2008 for suspended aquatic farm projects and between June and September of 2009 for on-bottom aquatic farm to provide time for the site survey.

Alaska's Aquatic Farmsite Program Application Review Process



B. AQUATIC FARM SITING RESTRICTIONS

The following ADNR and ADFG farm siting restrictions are offered to assist the applicant in selecting an aquatic farm site that has the **best chance** for approval. The restrictions are not meant to be all inclusive and are in addition to any prohibitions or mitigating requirements that may be included in a district coastal management plan, a state land use plan, municipal or borough land use plans and/or local ordinances or zoning requirements. If your project is located within an area subject to plans/restrictions, **you should consult the appropriate document and/or agency before you submit your application**. A short phone call may alert you to circumstances with a particular site that may not be ideal for locating an aquatic farm. For instance, siting aquatic farm facilities may be more difficult on tidelands designated in an ADNR land management plan for log transfer or storage, anchorage, recreation, and/or settlement. It may be more difficult to site a farm not only because of potential conflicts with existing uses at the site, but also due to water quality degradation from those uses.

If an application is determined to be within an Unacceptable Area, it will be rejected. The responsible resource agency is listed in parentheses after each item.

1. **Seabird Colonies:** No aquatic farms or facilities will be sited within one mile of seabird colonies. (ADFG)
2. **Eagle Nests:** The Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d) prohibits molesting or disturbing bald and golden eagles, their nests, eggs or young. The U.S. Fish and Wildlife service recommends that aquatic farms or facilities be sited at least 330 feet from eagle nest trees to reduce the likelihood of disturbance. (ADFG)
3. **Sea Lion Haulouts and Rookeries:** No aquatic farms or facilities will be sited within one mile of sea lion haulouts or 3 miles of rookeries. (NMFS)
4. **Seal Haulouts and Pupping Areas:** No aquatic farms or facilities will be sited within one mile of seal haulouts or pupping areas. (NMFS)
5. **Anadromous Fish Streams:** No aquatic farms or facilities will be sited within 300 feet of anadromous fish streams. (ADFG)

Applicants are encouraged to contact resource agencies for current information on species and identifying the location of habitat types that fall in Unacceptable and Sensitive categories. The Catalog of Waters Important to the Spawning, Rearing or Migration of Anadromous Fishes (Anadromous Waters Catalog) and the map atlas to that catalog show documented anadromous fish streams and are available for viewing at all ADFG offices. You may also view this information at the following website: <http://www.sf.adfg.state.ak.us/SARR/FishDistrib/anadcat.cfm>

6. **Sites with Significant Existing Geoduck Biomass Areas:** No aquatic farms or facilities will be sited in areas where the ADFG has determined by conducting a biomass survey that significant geoduck biomass exists. Significant populations are equal to or more than 12,000 lbs of geoducks on a six acre farm site or equal to or more than an average of 2,000 lbs per acre of an aquatic farm site. (ADFG)
7. **Certain Legislatively Designated Special Areas:** No aquatic farms or facilities are allowed within the following legislatively designated areas:

- State game refuges under AS 16.20.010-080, 5 AAC 95;
- State critical habitat areas under AS 16.20.500-690, 5 AAC 95;
- State game sanctuaries under AS 16.20.090-162, 5 AAC 95; and
- State parks and marine parks under AS 41.21,

Excepting Fox River Flats Critical Habitat Area under AS 16.20.580 and Kachemak Bay Critical Habitat Area under AS 16.20.590, which allow aquatic farms and/or facilities but limited to suspended culture only, per 5 AAC 95.300.

In addition to the areas listed above, applications will not be accepted in the following areas:

- * **Peterson Bay, China Poot Bay, Bear Cove, Southcentral Alaska** - Prohibited in ADFG Kachemak Bay & Fox River Flats Special Use Area Critical Habitat Management Plan.
- * **Day Harbor, Southcentral Alaska** - Prohibited due to an existing seal haul-out area.
- * **Pt. Couverden, Southeast Alaska** - Area identified in the Northern Southeast Area Plan as recommended for inclusion in the state park system. (Application previously denied by ADNRM, Division of Mining, Land & Water; same application was found inconsistent with the standards of the Alaska Coastal Management Program (ACMP) by the Office of Project Management and Permitting)
- * **Commercial Geoduck Harvest Areas:** No aquatic farms or facilities will be sited in geoduck commercial harvest areas or those areas that have been selected for future commercial geoduck harvests.

C. GROWING AREA CLASSIFICATION CRITERIA (ADEC)

You must obtain a growing area classification and either a harvester permit or a shellstock shipper permit from ADEC in order to sell an aquatic farm product. As stated previously, a shellfish growing area is closed to shellfish harvesting for commercial sales unless the area has been classified by the ADEC. Without an ADEC classification of your farm site area, you cannot sell your product. The ADEC will use the following items to determine whether your growing area can be classified. You should consider these items before completing the aquatic farm application. If you have any questions about the classification process or requirements, you should contact ADEC directly at the number noted below.

1. Commercial fishing or personal use fishing/hunting in the immediate area or close proximity to the growing area may cause conditions that will prevent classification of the growing area. Avoid siting facilities near hatcheries.
2. Areas used by boats for recreation, moorage and anchorage, or in close proximity to a proposed growing area may cause conditions that will prevent classification of the growing area.
3. No airplane or boat fueling should occur at the growing area site.
4. Petroleum products must be used and stored in a manner that prevents spillage or leakage to assure that discharges of petroleum products into adjacent waters do not occur.
5. Facilities should not be sited in areas with waste discharge. Caretaker housing and boats must be a minimum of 300 feet from the boundary of a growing area if sewage is discharged. A sewage disposal system adequate to protect shellfish from contamination will be required for any caretaker facilities associated with an aquatic farm operation.
6. All pets and other animals must be excluded from the growing area structures. Waste from these animals must be prevented from discharging into the growing area.
7. Large wildlife populations in the area and/or the presence of anadromous streams may cause conditions that will affect classification of the growing area by limiting harvest times.
8. An upland area where cabins and homes exist may cause conditions that will prevent classification of the growing area. Note that previously existing facilities may have septic tanks that have been permitted by ADEC with in-water discharge of sewage, which may prevent classification of the growing area. If this condition exists, contact ADEC-Environmental Health for consultation.

For additional information and assistance regarding these health classification guidelines, please contact the ADEC Shellfish Program Coordinator, Division of Environmental Health, at 907-269-7638.

D. SENSITIVE AREAS AS SET FORTH BY THE ADNOR, ADFG and ADEC

Each of the following sensitive areas has a set of concerns that, while not insurmountable, must be considered when choosing an aquatic farm site. Applicants who apply in one or more of these sensitive areas should contact the responsible resource agency to determine what issues must be addressed in their application. The applicant must then address the applicable sensitive issue to demonstrate that the proposed farm is feasible and can be sited in the area without significant impact.

1. **Herring Spawning Areas** (ADFG)
2. **Shorebird Concentration Areas** (ADFG)
3. **Waterfowl Concentration Areas** (ADFG)
4. **Sea Otter Concentration Areas** (ADFG)
5. **Shallow Areas - Less Than 40 Feet at MLW** (mean low water) utilizing suspended culture - certain shallow areas serve as nursery areas for fish, shellfish or aquatic plants (ADFG)
6. **Poor Current Circulation Areas** - currents may be too weak to disperse biological wastes (ADEC)
7. **Kelp and Eelgrass Beds** (ADFG)
8. **Black and Brown Bear Concentration Areas and Travel Corridors** (ADFG)
9. **Subsistence Harvest Areas** (ADFG)
10. **Recreational or Personal Use Harvest Areas** within or adjacent to:
 - Intensively used non-commercial hunting and fishing areas
 - Intensively used non-commercial harvest areas for fish and shellfish (ADFG)
11. **Commercial Harvest Areas** within or adjacent to:
 - Intensive commercial fish harvest areas
 - Purse seine hook offs (ADFG)
12. **Heavily Used Anchorages** of local or regional importance (ADFG, Sport Fisheries Division; ADNOR, Mining, Land and Water Division - management plans, and/or the applicable U.S. Coast Pilot)
13. **Floatplane Access Areas** (ADEC; ADNOR)
14. **Oiled Areas** as depicted on maps as lightly, moderately or heavily oiled in Southcentral coastal waters from the 1989 oil spill (Alaska Resources Library and Information Services - ARLIS)

Upland management intent of parcels subject to Exxon-Valdez Oil Spill Purchase Agreements and/or federal conservation units such as national parks, forests, and wildlife refuges, adjacent to state tide and submerged land, will be considered when processing an application for aquatic farming, in accordance with 11 AAC 63.050(b)(4). The ADNOR will consult with the upland manager when determining compatibility of activities.

Prince William Sound applicants are cautioned that the issuance of state authorizations will not guarantee that aquatic farms can operate free of impact from the 1989 Exxon-Valdez oil spill. The state makes no warranty, expressed or implied, nor assumes any liability, whatsoever, regarding the environmental quality of the proposed site. This includes, without limitation, the presence of hydrocarbons now or in the future, the capability of the shellfish growing site, the product to be free from the effects of the 1989 oil spill, and/or meeting the requirements under the National Shellfish Sanitation Program. If you have questions regarding a specific area, please contact the Pipeline Corridor Regional Office at 907-271-4336 for assistance or you may visit the Exxon Valdez Oil Spill Trustee Council's website at: <http://www.evostc.state.ak.us/>

15. **Hatchery Harvest Areas:** Aquatic farms or facilities sited within Special Harvest Areas (SHA) or Terminal Harvest Areas (THA) must have the approval of the hatchery operator/manager. Applications for sites within SHAs and THAs will be rejected unless the applicant requests, and receives, written permission from the Private Non-Profit (PNP) hatchery operator and the major fishing group(s) using the area. (ADFG)

E. AREAS WHERE PREVIOUS APPLICATIONS HAVE BEEN DENIED

Applications were received during previous openings in the following locations and denied due to land use conflicts. If you wish to apply in any of the following areas you are encouraged to contact the responsible agency to determine what issues need to be addressed in your application. The reasons for application denial are included for each site.

Southeast Alaska

- **Dunbar Inlet, Sukkwan Island** - Project found inconsistent with ACMP. Conflicts found with: existing subsistence use of clams; designation of Area Meriting Special Attention in the Hydaburg Coastal Management Plan; and the Southwest Prince of Wales Island Area Plan; and the proximity to anadromous streams in the area. (ADFG/ADNR/ACMP)
- **William Henry Bay** - Conflicts found with the heavily used anchorage at the project location; site identified by ADFG for salmon release; state selection of the area to be used for the purposes of community expansion and a possible state ferry terminal site. (ADNR/ADFG)
- **Stedman Cove** - Area found to be at capacity with one existing suspended culture farmsite. (ADNR)
- **Idaho Inlet** - Project found inconsistent with ACMP. Conflicts found with clam harvest from Elfin Cove residents; previous applicants required upland facilities - USFS denied upland Special Area Permit. Applicants did not provide an adequate development plan with their application. (ADNR/ACMP)
- **North Bight, Neka Bay** - Conflicts found with existing subsistence uses and traditional uses of recreation, hunting, and safe anchorage. (ADNR/ADFG)
- **Van Sant Cove** - Conflicts found with existing uses of clam harvest (application was for on-bottom culture only). (ADFG/ADNR)
- **Clam Cove** - Conflicts found with existing uses of clam harvest (on-bottom culture only). (ADNR/ADFG)
- **Port Santa Cruz** - Application from 1999 opening was found incompatible with traditional and existing uses of Aguada Cove as an anchorage; no mitigation measures were identified that would make the proposal compatible. (Application for on-bottom farming of geoduck denied by the ADNR, Division of Mining, Land & Water; decision appealed to Commissioner of ADNR - Commissioner upheld the original decision). (ADNR)
- **Coffman Cove** - Conflicts with gear and gillnet commercial fishery use and anchorage (2005 application for on-bottom culture only). (ADNR/ADFG)
- **South McHenry** - Conflicts with existing sea cucumber commercial fishery use and seal haulouts (2005 application for on-bottom culture only). (ADNR/ADFG)
- **Ruth** - Conflicts with existing geoduck commercial dive fishery use (2005 application for on-bottom culture only). (ADNR/ADFG)
- **Onslow Island** - Conflicts with geoduck commercial dive fishery (2005 application for on-bottom culture only). (ADNR/ADFG)
- **North McHenry** - Conflicts with existing sea cucumber commercial dive fishery, anchorage and seal haul out (2005 application for on-bottom culture only). (ADNR/ADFG)
- **South Etolin** - Conflicts with existing geoduck commercial dive fishery use (2005 application for on-bottom culture only). (ADNR/ADFG)
- **Mosman Burnett** - Conflicts with anchorage and seal haul out (2005 application for on-bottom culture only). (ADNR/ADFG)
- **Kassan** - Inclusion within state park (2005 application for on-bottom culture only). (DNR/ADFG)
- **Hessa Island** - Conflicts with anchorages and existing geoduck commercial dive fishery use (2005 application for on-bottom culture only). (ADNR/ADFG)
- **Deer Island** - Conflicts with anchorages and sea lion haul outs (2005 application for on-bottom culture only). (ADNR/ADFG)
- **Coronation Island** - Conflicts with anchorages and sea lion haul outs (2005 application for on-bottom culture only). (ADNR/ADFG)

- **Corner Bay** - Conflicts with anchorages and seal haul outs (2005 application for on-bottom culture only). (ADNR/ADFG).
- **Kasiana Island/Sitka Sound** - Conflicts with herring subsistence fishery use (2005 application for on-bottom culture only). (ADNR/ADFG)
- **Hayward Strait/Eastern Channel** - Conflicts with existing sea cucumber commercial fishery use (2005 application for on-bottom culture only). (ADNR/ADFG)

Southcentral Alaska

- **Paradise Cove** – Area identified from 2001 application process to be limited in anchorage capacity for smaller recreational vessels. (Application for suspended farming of oysters denied by the ADNR.) (ADNR)

Upland management intent of parcels subject to Exxon-Valdez Oil Spill Purchase Agreements and/or federal conservation units such as national parks, forests, and wildlife refuges, adjacent to state tide and submerged land, will be considered when processing an application for aquatic farming, in accordance with 11 AAC 63.050(b)(4). The ADNR will consult with the upland manager when determining compatibility of activities.

Table 1: AQUATIC FARM AGENCY CONTACTS

State Agency	Permit type	Contact information
ADNR: Division of Mining, Land & Water (DMLW)	Aquatic Farm Lease	John Thiede - 907-269-8543 john_thiede@dnr.state.ak.us www.dnr.state.ak.us/mlw/aquatic/index.htm
ADNR: Office of Project Management & Permitting (OPMP) / AK Coastal Management Program (ACMP)	ACMP Coastal Consistency Determination	Southeast: Joe Donohue - 907-465-4664 joe_donohue@dnr.state.ak.us www.alaskacoast.state.ak.us South central: Tom Atkinson - 907-269-7468 tom_atkinson@dnr.state.ak.us www.alaskacoast.state.ak.us
ADFG: Commercial Fisheries	Aquatic Farm & Hatchery Operation Permit; Shellfish or Aquatic Plant Transport Permit; Aquatic Stock Acquisition Permit; Surveys	Cynthia Pring-Ham - 907-465-6150 cynthia_pring-ham@fishgame.state.ak.us www.cf.adfg.state.ak.us/geninfo/enhance/maricult/maricult.htm
ADFG: Sport Fish Division	Special Area Permit (specific to Kachemak Bay & Fox River Flats Critical Habitat Mgt Areas)	Mark Fink - 907-267-2338 mark_fink@fishgame.state.ak.us www.sf.adfg.state.ak.us/SARR/SpecialAreas/sapermit.cfm
ADEC: Division of Environmental Health	Water Quality Classification	George Scanlan - 907-269-7638 george_scanlan@dec.state.ak.us http://www.dec.state.ak.us/eh/

Federal Agency	Contact Information
U.S. Army Corps of Engineers (COE)	Southeast and Prince William Sound: John Leeds - 907-753-2712 John.C.Leeds@poa02.usace.army.mil Southcentral and Kachemak Bay: Jack Hewitt - 907-753-2708 Jack.J.Hewitt@poa02.usace.army.mil www.poa.usace.army.mil/hm.default.htm
U.S.D.A. Forest Service	Chugach National Forest: 907-743-9500 www.fs.fed.us/r10/chugach Tongass National Forest: 907-225-3101 www.fs.fed.us/r10/tongass
U.S. Fish & Wildlife Service (USFWS)	Ecological Services: www.r7.fws.gov Southeast: 907-586-7240 Southcentral: 800-272-4174 Refuge Operations: 907-786-3354 http://refuges.fws.gov Subsistence Management: 800-478-1456 http://alaska.fws.gov/asm/index.htm
National Marine Fisheries Service (NMFS)	www.nmfs.noaa.gov 907-586-7221



2007 AQUATIC FARM PROGRAM

Application Opening Period
January 1, 2007 through April 30, 2007

PART II INSTRUCTIONS AND APPLICATION

1. Answer ALL questions using the blanks provided or include additional pages.
2. If additional pages are included, write the corresponding question number from the application on the appropriate page(s).
3. Type or print answers clearly in black ink.
4. An agent cannot sign the application form for the applicant; the applicant must submit the application with an original signature.
5. **APPLICATION FEES**

Alaska Department of Fish and Game: The ADFG requires **survey fees** for any on-bottom farm proposal to cover the cost of a biomass survey to determine the abundance of wildstock shellfish on the farm site. Your **check or money order for the survey fee must be made out to the ADFG and submitted with your application.** The following fees apply:

Inter-tidal Culture If you are applying for an inter-tidal culture site the survey fee is \$2,500**
Sub-tidal Culture If you are applying for a sub-tidal culture site the survey fee is \$5,000**
 ** Actual cost may vary by site, please refer to Part III, Pages 3 and 4.

Alaska Department of Natural Resources: Submit the completed application packet (**checklist on page 12**) and the non-refundable application filing fee (\$100 individuals/\$200 corporations along with an additional check made out to ADFG for on-bottom survey fees) to either of the following offices:

State of Alaska
 Department of Natural Resources
 Division of Mining, Land and Water
 Public Information Center
 550 W. 7th Avenue, Suite 1260
 Anchorage, AK 99501-3557

State of Alaska
 Department of Natural Resources
 Division of Mining, Land and Water
 Southeast Region Office
 400 Willoughby Avenue, Suite 400
 Juneau, AK 99801

3. If you are applying for more than one site and the boundaries of any additional sites are more than three nautical miles apart, you must submit a separate application for these sites. Alternate sites will not be accepted on the same application.

PLEASE NOTE: The aquatic farm review is for the specific project that you identify in your application. If later you decide to change the location or increase the footprint of your operation during the review period, processing of your application will stop, and you will need to re-apply during a subsequent filing period. Contact the ADNRR representative listed in Part I, Table 1, Page 10, or access the information at the individual agency websites listed below. Additional program information can also be obtained from the websites:

ADNR, Div. of Mining, Land and Water-
 ADNR, Office of Project Management and Permitting-
 ADFG, Div. of Commercial Fisheries-
 ADFG, Sport Fish Division-
 DEC, Div. of Environmental Health-

www.dnr.state.ak.us/mlw/aquatic/index.htm
www.alaskacoast.state.ak.us
www.cf.adfg.state.ak.us
www.sf.adfg.state.ak.us/SARR/SpecialAreas/SpecialAreas.cfm
www.state.ak.us/dec/deh

The original application must be signed by the applicant and be physically present in either of the ADNRR offices listed above by 5:00 PM, April 30, 2007.

AS 38.05.035(a) authorizes the director to decide what information is needed to process an application for the sale or use of state land and resources. This information is made a part of the state public land records and becomes public information under AS 09.25.110 and 09.25.120 (unless the information qualifies for confidentiality under AS 38.05.035(a)(9) and confidentiality is requested). Your operation and development plan is considered confidential information. Public information is open to inspection by you or any member of the public. A person who is the subject of the information may challenge its accuracy or completeness under AS 44.99.310, by filing a written description of the challenged information, the changes needed to correct it, and a name and address where the person can be reached. False statements made in an application for a benefit are punishable under AS 11.56.210.

ADNR File No: ADL _____
(For office use only)

DATE STAMP ►
(For office use only)



2007 AQUATIC FARM PROGRAM APPLICATION

Application Fee - \$100 individual/\$200 corporations (11 AAC 05.010(a)(6)(K)) paid to the ADNR

Survey Fee - \$2,000 for inter-tidal / \$5,000 for sub-tidal (5 AAC 41.220(e)) paid to the ADFG**

**Actual cost may vary by site, please refer to Part III, pages 3 and 4

The current 2007 application form must be used and properly completed before state agencies can process your proposal. **Incomplete applications will not be processed.** You are encouraged to submit the completed application as early in the filing period as possible. A checklist is included at the end of the application form/instructions to assist you in meeting this requirement.

A. APPLICANT INFORMATION

Business Name _____

Name _____ Contact Person, if different from applicant _____ Contact Phone _____

Doing Business As _____

Mailing Address _____

City _____ State _____ Zip Code _____ (Alternative Address) _____

Phone _____ Fax _____ E-mail Address _____ Cell Phone _____

If partnership, please list other partner names, addresses, etc. on a separate sheet.

B. PROJECT LOCATION

1. Attach a copy or original portion of a **nautical/navigational chart and USGS map** that shows your proposed site location. Clearly indicate the site boundaries of your proposed aquatic farm and **write the chart reference number and USGS quadrangle name** on each copy. Navigational/nautical charts can be obtained from various suppliers around the state. A list is included in Part III for your convenience or you may find a supplier listing at the following website: http://www.naco.faa.gov/agents_acc.asp (Also refer to Section G.1.a. and b.)

2. Please list the section(s), township(s), range(s), and meridian of your proposed site(s)/component(s) below, numbering each, if applicable. For example, Site 1 may be the area used for growout, Site 2 may be used for hardening

Site No. _____	Township _____	Range _____	Meridian _____	Section(s) _____
Site No. _____	Township _____	Range _____	Meridian _____	Section(s) _____
Site No. _____	Township _____	Range _____	Meridian _____	Section(s) _____
Site No. _____	Township _____	Range _____	Meridian _____	Section(s) _____
Site No. _____	Township _____	Range _____	Meridian _____	Section(s) _____

3. Please provide latitude and longitude coordinates of all four corners of each component of the proposed aquatic farm site, with the northeast corner of each separate site identified as Corner Number 1. Identify Corner Numbers 2, 3 and 4 in a

clockwise direction. The coordinates must be specified to the nearest second. Separate sites must be identified, for example: Site 1- growing area, Site 2- hardening area, etc. Since these corners identify the actual farm site boundaries, please indicate the distance you propose between the boundaries and gear/structures.

Latitude and longitude coordinates must be in **degrees and decimal minutes, to the nearest .001 (Example: Longitude - 133° 17.345)**, obtained using a Global Positioning System (GPS), **NAD 83**. You may obtain one, with a secured loan, from ADFG, Commercial Fisheries Division, Juneau office. Please contact the ADFG mariculture coordinator listed in Part I, Table 1, page 10.

Site 1 - _____	- NE Corner No. 1: Latitude _____	Longitude _____
	- SE Corner No. 2: Latitude _____	Longitude _____
	- SW Corner No. 3: Latitude _____	Longitude _____
	- NW Corner No. 4: Latitude _____	Longitude _____
Site 2 - _____	- NE Corner No. 1: Latitude _____	Longitude _____
	- SE Corner No. 2: Latitude _____	Longitude _____
	- SW Corner No. 3: Latitude _____	Longitude _____
	- NW Corner No. 4: Latitude _____	Longitude _____
Site 3 - _____	- NE Corner No. 1: Latitude _____	Longitude _____
	- SE Corner No. 2: Latitude _____	Longitude _____
	- SW Corner No. 3: Latitude _____	Longitude _____
	- NW Corner No. 4: Latitude _____	Longitude _____

(Use additional pages as necessary)

4. What are the nearest communities and their approximate distance to your proposed farm site? Please list _____

5. If your proposal involves use of the uplands, describe the type of use below, e.g. housing, storage shed, etc. Label and mark the location of each facility on a USGS quadrangle map and attach to this application USGS quadrangle maps can be obtained from U.S. Geological Survey, 4230 University Drive, Room 101, Anchorage, AK 99508, and phone 907-786-7011. (Also refer to Section G.1.a. and b.)

C. PROJECT INFORMATION

Complete the following questions related to your proposal:

1. How many total acres of state-owned lands are you applying for? _____

Number of tidelands? _____

Number of uplands? _____

*** Please note the number of acres must correspond to your farm site diagram and map.**

2. Please check (✓) all species that you intend to farm as well as the gear type you intend to use for each farmed species. This must correspond with your development plan(s) and all drawings.

✓	Scientific Name	Common Name	Gear Type (mexican trays, lantern nets, etc.)
_____	<i>Crassostrea gigas</i>	Pacific oyster	_____
_____	<i>Mytilus edulis</i>	Blue mussel	_____
_____	<i>Protothaca staminea</i>	Littleneck clam.....	_____
_____	<i>Clinocardium nuttalli</i>	Cockles.....	_____
_____	<i>Panopea abrupta</i>	Geoducks.....	_____

_____	<i>Strongylocentrotus</i>	_____
_____	<i>droebachiensis</i>	Green sea urchin
_____	<i>Strongylocentrotus</i>	_____
_____	<i>purpuratus</i>	Purple sea urchin
_____	Class Holothuroidea	Sea cucumbers
_____	<i>Siliqua patula</i>	Pacific razor clam
_____	<i>Saxidomus giganteus</i>	Butter clams
_____	<i>Crassodoma gigantean</i>	Purple-hinge rock scallop
_____	<i>Patinopecten caurinus</i>	Weather-vane scallop
_____	<i>Porphyra yezonensis</i>	Nori or Purple Laver (Seaweed)
_____	<i>Macrocystis Pyrifera</i>	Giant Perennial Kelp
_____	Other	_____

3. Are you proposing to utilize a:

- a. hardening area? Yes___ No___ Size: _____ (e.g. 50' X 50')
- b. floating work raft(s)? Yes___ No___ How many? ___ Size: _____
- c. personnel housing or support facilities on: Federal uplands? Yes___ No___ Private uplands? Yes___ No___
If any of your proposed facilities will be on federal or private uplands, provide the upland owner's name and address below:

UPLAND OWNER(S)

ADDRESS

_____	_____
_____	_____
_____	_____

If you are unable to acquire the upland to build or install the facilities you need, is your farm's operation plan still feasible?
Yes___ No___ If YES, describe your alternate operation plan: _____

- d. personnel/caretaker housing? Yes___ No___ Size: _____
(You may stay a maximum of 14 consecutive days at your site on state-owned land without applying for personnel/caretaker housing.)

Personnel housing associated with aquatic farm operations may be approved only if: (1) the level of site development will require personnel be present on a daily basis, 2) personnel cannot reasonably commute to the site by road, boat, or aircraft on a daily basis, and 3) nearby land suitable for housing is not available for sale or lease. This applies to upland facilities as well as floating facilities. The housing facility may not be used as the personnel's permanent place of abode, must be temporary in nature, and must be designed and constructed so it can be removed and the site completely restored within 30 days if the lease terminates or housing ceases to be necessary. The housing facility may not be placed on a permanent foundation. (Refer to 11 AAC 63.040(b).) In the Kachemak Bay and Fox River Flats Critical Habitat Areas, only those float structures essential to the farm operation may be permitted, per the policies of the Kachemak Bay and Fox River Flats Critical Habitat Areas Management Plan.

If you have answered yes to any personnel housing or support facilities in your development plan narrative, describe all your proposed facilities (e.g. size, purpose, etc.) and attach labeled diagrams/drawings clearly showing the housing and/or facilities. Be sure to include caretaker facilities on the site plan required in Section G2.

- e. potable water source near the proposed operations? Yes___ No___ If yes, describe the source, the method used to collect water and an estimate of gallons per day of use: _____

If you propose to use a potable water source near the proposal, you are required to apply for a Water Right. Please refer to the Water Rights in Alaska Fact Sheet included with this packet. If you need additional information, please contact the Water Resources Section within the Division of Mining, Land and Water at the office nearest to your proposed site - Anchorage (907) 269-8503 or Juneau (907) 465-3400, or you may visit their website for further information and/or to download a water right application at: <http://www.dnr.state.ak.us/mlw/water/index.htm>

4. a. Do you currently own _____ or lease _____ upland property adjacent to, or near, the proposed farm site that you plan to use in conjunction with your proposal? Yes _____ No _____ **If no, go directly to question no. 6.**
- b. If you are the adjacent upland owner are you applying for a preference right under 11 AAC 63.040(f)? Yes _____ No _____
- c. Do you agree to contain your aquatic farm support facilities (storage, dwellings, etc.) on these privately owned or leased uplands? Yes _____ No _____ If yes, attach a copy of the ownership deed or lease agreement.
6. If you are not applying for personnel housing, do you intend to anchor or stay at the farm site for periods of more than 14 consecutive days? Yes _____ No _____
7. In order to process your application, it is necessary to notify the adjacent upland owners within one-half mile on each side of the proposed farm site. Please provide the names and addresses of the upland owners within one-half mile on each side of your proposed farm site. **This information may be obtained through borough/city property tax records, state, or federal land records.**

UPLAND OWNER(S)

ADDRESS

8. If you are applying within a recognized first class city or borough, please contact the Planning Section as they may require additional authorizations. Please provide the name, address, and telephone number of the person(s) you contacted and list any required authorizations.

☒ CITY/BOROUGH	PHONE	Contacted?	
_____ Ketchikan Gateway Borough – Planning & Community Development..	228-6625	Yes _____	No _____
_____ City and Borough of Juneau – Permit Center.....	586-0770	Yes _____	No _____
_____ City and Borough of Sitka – Planning & Community Development.....	747-1824	Yes _____	No _____
_____ City of Thorne Bay -	828-3380	Yes _____	No _____
_____ City and Borough of Yakutat – Planning & Zoning Commission.....	784-3281	Yes _____	No _____
_____ Kenai Peninsula Borough – Land Management Division.....	714-2200	Yes _____	No _____

Type of authorization required: _____

D. SITE SUITABILITY

Physical and Biological Characteristics

- a. Provide any information you may have regarding water exchange, water temperatures, currents, salinity, primary productivity, and turbidity/sedimentation at the site. Include the dates (and stage of tide, if available) the data were recorded. _____

- b. Are there areas on the proposed site particularly unsuitable for culture of the intended species? Yes _____ No _____ If yes, please describe and indicate on the site plan where these areas are (these may include areas of eel grass, rocks, etc).

- c. Describe the bottom composition at the site (e.g. sand, mud, rock, gravel, eelgrass). Please also note on photograph(s) and/or site plan the locations as required in Section G. _____

- d. Describe winter conditions at the site (e.g. water temperatures, icing, storms, wind direction, etc.) and the means of protecting the site and cultured species from harm by storms, icing and other weather conditions. Please also note on

photograph(s) and/or site plan as required in Section G _____

e. Do anadromous fish (e.g. salmon) use any streams in the area for spawning? Yes ___ No ___ If yes, list below and identify on the site plan, indicating which streams are used as stated in Section G.2.n. _____

f. Is the site located within the natural range of the species intended for culture (other than the Pacific oyster) as required under 5 AAC 41.240(3)(B)? Yes ___ No ___

g. Is the target species naturally present in the area? Yes ___ No ___ If yes, describe distribution and abundance (e.g. density per square foot). _____

h. Please list any potential predators, such as marine mammals and seabirds at your proposed site, indicate how the information was gathered, (i.e. books, periodicals, management plans, etc.) and how you intend to protect your target species: _____

i. Describe the biotic community(ies) (i.e. plants and animals) within your proposed farm boundary(ies). _____

j. Please provide dates on which the proposed site(s) were surveyed and assessed. Please list diver name(s). _____

E. CURRENT LAND USE

1. Please list existing human and/or wildlife uses observed at the proposed site and in the surrounding three mile outer boundaries of your proposed farm site area. Existing uses may include:

- | | |
|--|--|
| ☐ mining | ☐ commercial fishing |
| ☐ timber harvest or transfer | ☐ sport fishing |
| ☐ salmon hatcheries | ☐ residential use |
| ☐ seafood processing plants | ☐ historical/cultural/archeological sites |
| ☐ harbor development | ☐ other aquatic farm projects |
| ☐ sheltered boat anchorage | ☐ seaplane landing |
| ☐ sightseeing | ☐ commercial lodges |
| ☐ tourism | ☐ recreation |
| ☐ hunting | ☐ wildlife uses, e.g. shorebird concentration |
| ☐ upland access route(s) areas, bear trails, etc. | |
| ☐ navigational channels; describe: _____ | |
| ☐ subsistence; species and frequency: _____ | |
| ☐ other, list: _____ | |

* Please indicate on your site plan where the uses indicated above are located. (refer to Section G.2.q)

2. a. Describe how existing land and resource uses checked above may impact your project feasibility. _____

- b. If you have described potential impacts to your project feasibility above, please describe actions you propose to use to mitigate or eliminate those impacts. _____

3. Describe how your project may impact any of the existing uses checked above. Please consider navigational channels, especially in cases where they may be limited. _____

F. WATER QUALITY

Sewage or industrial discharge(s) may accumulate in, harm the growth or consumptive use of, your shellfish product. Mollusks, including oysters, clams, mussels and scallops, are filter feeders and may accumulate fecal coliform bacteria and associated pathogens from sewage discharges. If a caretaker facility is necessary in your operations and its discharge is located near the culturing operation, there may be a risk of contamination. Any discharge must meet the ADEC water quality standards (18 AAC 70), wastewater disposal regulations (18 AAC 72), and requirements of the National Shellfish Sanitation Program (incorporated by reference in 18 AAC 34.200). To ensure that your growing area can meet water quality standards and be classified by the ADEC, the department has developed the following criteria:

- No sewage discharge from a caretaker facility (floathomes or houseboats) will be allowed within 300 feet from the boundary of the ADEC classified growing area. (The area boundaries are established during the classification process) All other discharges will be evaluated separately.
- Outhouse and septic systems must maintain a minimum 100-foot horizontal separation distance from surface waters and a minimum 4-foot vertical separation distance from the high ground water table. The ADEC will require a wastewater discharge system plan review for all sewage discharges. Additional information may be required by the ADEC depending on the type and complexity of the wastewater system proposed. After review of application materials, the ADEC will decide if your system requires a wastewater discharge permit. A permit may not be necessary for facilities generating very small daily volumes of sewage and grey water.

1. Wastewater Discharge and System Plan Review

If you answered yes to questions related to personnel housing/caretaker facilities, will wastewater be discharged from any of these facilities? Yes _____ No _____ If yes, provide the following information:

- a. What are the daily maximum and average discharge volumes?
Maximum _____ Average _____

SUBMIT THE FOLLOWING INFORMATION ON SEPARATE PAGES (Contact the ADEC representative in Part I, Table 1, page 10 to determine submittal requirements for your specific proposal.)

- b. Wastewater system design plans consisting of reports and/or drawings that clearly and legibly depict the design, type, and volume of discharge. (Design plans may require preparation by a registered engineer.)
- c. A description of proposed and existing wastewater treatment works, disposal systems, or sewers.
- d. Sufficient soils and topographic information to allow evaluation of the soil type, absorption area, depth to water table and impervious surfaces, and topography, if treatment or disposal (other than a conventional on-lot soil absorption system) is into or onto land or subsurface land.

2. If you plan to use a boat on your farm site, indicate the type of marine sanitation device. _____

3. Were there any sources of past pollution at the site, such as a shore-based seafood processor, log transfer facility, industrial facility, oil spill contamination, or a town or village? Yes _____ No _____ If you answered yes to the above, identify:

- a. The type of previous use (e.g. mine, village, seafood processor, oil spill). _____
 - b. The last known date of use _____
 - c. The distance from the site previously used to your proposed site _____
4. Are there any current potential sources of human or industrial pollution in the area? (For example, sewage outfalls, oil contamination, industrial transfer facilities or upland operations, boat harbors, etc.) Yes ___ No ___ If yes, describe:
- a. The type of discharge(s). _____
 - b. The location and distance from your site _____
 - c. The name of the discharger(s), if known _____
5. Are you aware of any other planned development in the general area of your proposed site? Yes ___ No ___ If yes, describe the planned development.
- _____
- _____
- _____

G. SITE PLAN AND PHYSICAL DESCRIPTION

THE FOLLOWING INFORMATION MUST BE INCLUDED WITH YOUR APPLICATION. YOUR APPLICATION WILL BE REJECTED IF ANY OF THE FOLLOWING INFORMATION IS NOT INCLUDED.

The four types of maps/drawings and photographs required to make your application complete are further described below, and include: 1) a colored vicinity map; 2) a site plan; 3) a cross-sectional diagram; 4) a detailed drawing, and 5) an 8" by 10" photograph of each component of your application, i.e. growout area, hardening area, etc. All drawings must be on 8½" x 11" paper.

Please check off each item below as you complete each requirement.

1. Vicinity Map

- ___ a. Provide a **colored** copy of the appropriate portion of the USGS Topographic map and draw in your proposed farm site and the location of any upland components. The colored copy should be no larger than 8½" x 11" (standard letter size). (Refer to Section C.1.) Map Name: _____ (e.g. Seldovia B-4) Use a 1" = one mile (1:63,360) USGS topographic map. (A vicinity map example is attached.)
- ___ b. Provide a **colored** copy of the appropriate portion of the **Nautical Chart**, (8½" x 11" standard letter size) and again, draw in your proposed farm site on the chart. National Oceanic and Atmospheric Administration (NOAA) Nautical Chart Number: _____. (Refer to Section B.2.)
- ___ c. Indicate the distance and direction to the nearest community from your site on each map. (e.g., Petersburg- 25 miles north, Ketchikan- 30 miles southwest, etc.)

2. Site Plan

Provide a **Site Plan** (overhead view) drawn to scale, which shows the layout, location, and dimensions of the following items within your proposed farm boundary. (A site plan example is attached.)

- ___ a. Boundaries of the farm area for all proposed uses of tide/submerged lands and uplands. (All anchoring systems must be inside the farm boundary.) Indicate, in feet, the distances between corners. To compute acreage, multiply the width by the length of the site and divide by 43,560. Verify this acreage with number of acres requested on page 3, Section B.3.
- ___ b. Clearly label **all four corners of your farm proposal** that were used for the coordinates on page 2, Section B.3.
- ___ c. Workrafts or other related facilities to be utilized.
- ___ d. Docks, floating structures, caretaker housing - including upland or tideland.
- ___ e. Wastewater disposal systems, including both sewage and grey water discharge points (grey water means domestic wastewater from laundry, kitchen, etc., which does not contain human waste).
- ___ f. The location of water, including any drinking water wells or other drinking water system sources, fresh water and salt water, within 200 feet of any proposed or existing wastewater disposal system(s).

- ___ g. Solid waste storage and disposal sites. (Note: you are encouraged to use existing permitted sites for the disposal of solid wastes. If there are not any existing permitted disposal sites in the area and they are necessary in your operations, you must contact the ADEC for authorization.)
- ___ h. Other upland or tideland facilities at the site associated with the farming operation.
- ___ i. Fuel and chemical storage.
- ___ j. Properties referenced on page 5, Section C.7. (adjacent property owners).
- ___ k. Draw lines to identify the tide level at the following stages based on USGS and Nautical Charts:
 - (1) Mean Lower Low Water (MLLW)
 - (2) Mean High Water (MHW)
 - (3) Representative water depths, in feet, inside the farm boundaries corrected to the zero tide level, Mean Lower Low Water (MLLW). (A minimum of six depth measurements are required.)
- ___ l. Water circulation patterns, including prevailing direction of the surface water flows at the ebb (outgoing) and flood (incoming) tides.
- ___ m. Prevailing direction of winds and storms and the known or inferred meteorological extremes affecting the site.
- ___ n. Anadromous streams. (This information can be obtained from a local ADFG, Division of Habitat and Restoration office, Catalog of Anadromous Streams.)
- ___ o. Points where your cross-sectional diagram(s) are being depicted from and label each end beginning with "A". (Please refer to the site plan example.)
- ___ p. Major natural and man-made features on, or proposed for the site.
- ___ q. Areas on the proposed site occupied by dominant species of plants and animals, including beds of eelgrass, kelp, barnacles, or mussels.
- ___ r. Nearest holding location of commercially harvested wild stock acquired under an ADFG regulated fisheries program (AS 16).

3. Cross-Section Diagram

- ___ Provide a **Cross-Section Diagram** (side view) of the culture gear/facilities and identify the construction materials. Be sure to give the dimensions of all gear/facilities. A separate diagram is required for each species to be cultured. Include a corresponding line, from your site plan ("A" - "A'", "B" - "B'", etc.), which depicts the major natural and man-made features on or proposed for the site, as well as sub-tidal resource and habitat information. The scale for the site plan and cross-section diagram should be close, if not exact. (Please refer to the cross-section diagram examples attached.)

4. Detailed Drawing

- ___ Provide a **Detailed Drawing** to scale (with scale indicated) of all facilities on your site plan showing their placement, construction materials, and anchoring systems. More than one drawing may be required. The total area must correspond to the total number of acres you are applying for on page 3, Section C.1. The entire anchoring system must be located inside the farm boundary(ies). (A detailed drawing example is attached)

5. Photograph

- ___ Provide an 8" x 10" color **Photograph** of your proposed farm site. If not all of the sites/parcels of your proposal can be included in one photograph, please provide additional photographs showing the locations of the other components, for example, the area proposed for hardening or the area proposed for caretaker facilities. On the photo, clearly indicate all four corners, the date, time and tide level when the photograph was taken. Low tide is preferred. Also, indicate north or the direction that the photographer was facing while taking the photo. If you are applying for a suspended culture facility, please compose the photo so the nearest shoreline is visible in the background.

H. FARM DEVELOPMENT AND OPERATING PLAN

1. Provide an estimate of the total days and number of people (including yourself) that will be needed to operate your farm site for each year:

Year 1: Number of Days _____	Number of People _____
Year 2: Number of Days _____	Number of People _____
Year 3: Number of Days _____	Number of People _____
Year 4: Number of Days _____	Number of People _____
Year 5: Number of Days _____	Number of People _____

2. Describe your operating plan, including any facilities and equipment you propose to use and how you propose to:

- a. access the site (transportation means, route and frequency of site monitoring); _____
- b. house personnel while working at the site; _____
- c. store gear and equipment when not in use; _____
- d. conduct winter operations and protect your farm from adverse weather or oceanographic conditions; _____
- e. harvest product (means, methods and frequency); _____
- f. hold your product prior to sale and where; _____
- g. transport your product to point of sale; _____
- h. deploy seed collection devices, if applicable, and list type, quantity and dimensions; _____
- i. acquire seed stock – include the facility name and quantity of each species; _____
- j. acquire wild stock; _____
- k. differentiate between wild and cultivated stock at the site; _____
- l. measure the success of your culture methods; _____
- m. supplement feeding, if necessary; _____
- n. manage incidental species over the course of operations - describe by individual species; _____
- o. locate and operate your farm to avoid predators; _____
- p. utilize predator exclusion devices, if applicable, and explain:
 - (1) where they would be used _____
 - (2) types _____
 - (3) configurations intended for use _____
 - (4) dimensions of the devices (mesh size, materials used in fabrication, size of the panel or bag) _____
 - (5) seasonality of use _____
 - (6) means of transport _____
 - (7) installation _____
 - (8) storage _____

For legal types of control measures, please contact a representative of either the ADFG or the U. S. Fish and Wildlife Service listed on page 10 of the application instructions.

- q. alter any other physical or biological characteristic of the site; _____

Additional information you consider pertinent to your operating plan should be included. (Use additional sheets of paper as necessary.) Please note: Detailed information enables agencies to comprehensively evaluate your proposal in a timely manner, negating the need to seek additional information from you.

3. An Aquatic Farm Development Plan form is attached to this application. Submit a completed development plan for each species being proposed, including the method or means that will be used to measure the success of your culture methods and the projected operating costs. Please make additional copies as needed, or you may obtain additional copies at the ADNR, Public Information Center. The development plan must result in commercial use of the site no later than the beginning of the fifth year of lease operations and continuing each year for the remaining lease term. Commercial use of the site means annual sales of aquatic farm products, as defined in AS 16.40.199, of at least \$3,000 per acre or fraction of an acre, or \$15,000 per farm, whichever is less. The commercial use requirement applies to the combined total of all species and is not a "per species" requirement.

4. Are you applying for an area listed as "sensitive" in the application guidelines, Part I, Section D? Yes ___ No ___ If yes, please describe how your proposed farm site is feasible and can be sited without significant impact to the applicable sensitivity issue in the area.

5. Do you plan to hold commercially harvested wild stock acquired under AS 16 (ADFG fisheries programs) at the proposed farm site? Yes ___ No ___ If yes, what species? _____

Depict the location on your site plan where the commercially harvested wild stock were acquired under a fisheries program. (Refer to Section G.2.r.)

I. APPLICATION SIGNATURE AND ALASKA COASTAL MANAGEMENT PROGRAM CERTIFICATION

AQUATIC FARM APPLICATION SIGNATURE AND THE ALASKA COASTAL MANAGEMENT PROGRAM CERTIFICATION STATEMENT

The information contained herein is true and complete to the best of my knowledge. I certify that the proposed activity complies with, and will be conducted in a manner consistent with, the Alaska Coastal Management Program. Modifications to the proposed activity may require another consistency review.

This certification statement does not pertain to the later authorizations necessary in aquatic farming operations and I understand that I must separately apply for, and hold, a permit from the Department of Fish and Game in order to hold, transport, and raise shellfish or aquatic plants, and a Growing Area Certification and a Harvesters Permit from the Department of Environmental Conservation in order to sell my product.

Printed Name _____

Signature of Applicant _____ Date _____

For your convenience, the Alaska Coastal Management Program statewide standards (6 AAC 80) are included in this packet. If your proposed aquatic farm is within the boundaries of a coastal district, additional enforceable policies may apply. For more information, please contact a regional OPMP representative, listed on page 10. Part 1 of the application guidelines/contacts, or visit their website at: <http://www.alaskacoast.state.ak.us>

A list of attachments can be found on page 7 of Part III, Aquatic Farm Authorizations and Attachments.



2007

AQUATIC FARM APPLICATION CHECKLIST

The following items are required to be considered a complete application

(✓ off each item when finished to assure your application is complete)

___ Check or money order for the non-refundable application filing fee (\$100 individuals/\$200 corporations)

___ On-bottom survey fee (\$2,500 inter-tidal survey fee / \$5,000 sub-tidal survey fee)

___ Vicinity map (USGS topographical/nautical chart)

___ Authorization/conveyance document for any upland facility use not on state lands, if applicable

___ Site plan

___ Cross-section diagram(s)

___ Environmental Risk Questionnaire

___ Detailed drawing(s)

___ Army Corps of Engineers Applicability Certification for General Permit 91-7N, or

___ Army Corps of Engineers Individual Permit Application, if applicable

___ Photograph(s)

___ Development plan(s)

___ Authorization from City or Borough Planning Departments



2007 AQUATIC FARM PROGRAM

Application Opening Period
January 1, 2007 through April 30, 2007

PART III AUTHORIZATIONS AND ATTACHMENTS

The following sections provide a summary of authorization requirements for each agency that are necessary to operate an aquatic farm in the state of Alaska including attachments of pertinent information for your reference and use.

The authorizations routinely required by the State of Alaska, Departments of Natural Resources (ADNR), Fish and Game (ADFG), and Environmental Conservation (ADEC) and Federal agencies, to site and operate an aquatic farm project can be found in Table 1, on Page 10, of Part 1 of this packet. Contact information for all state and federal agencies is also included in Table 1.

ALASKA DEPARTMENT OF NATURAL RESOURCES, OFFICE OF PROJECT MANAGEMENT AND PERMITTING, ALASKA COASTAL MANAGEMENT PROGRAM SECTION

► Alaska Coastal Management Program Requirements

In order for state and federal agencies to issue aquatic farming authorizations, the project must be consistent with the standards of the Alaska Coastal Management Program (ACMP; per 11 AAC 112). State agencies, affected coastal districts, and the public will be reviewing your proposed activity for consistency with these standards and with the enforceable policies of the affected coastal district. The Office of Project Management and Permitting (OPMP) is responsible for coordinating this review and determining whether your project is consistent with this program.

During the ACMP review process reviewers have opportunity to request from applicants any additional information that is relevant to the consistency review and individual resource agencies' own statutory and regulatory authorities. **Please Note:** If an applicant does not respond to a reviewer's request for additional information within 30 days, their file may be closed and the applicant may not receive their requested site.

The Aquatic Farm joint-agency application serves as the Coastal Project Questionnaire. For more information on ACMP standards, to verify if your project lies within a coastal district, the consistency review process, and appeals to ACMP consistency determinations, contact OPMP at 907-465-3562 in Southeast Alaska or 907-269-7470 for all other sites in Alaska. The statewide ACMP consistency standards are attached. For individual coastal district enforceable policies, please visit the website at: <http://www.alaskacoast.state.ak.us/Explore/alldistEPS.html>

ALASKA DEPARTMENT OF NATURAL RESOURCES, DIVISION OF MINING, LAND AND WATER
► Aquatic Farm Ten-Year Lease Requirements

Shortly after approval of an application in a final best interest finding (if any appeals were upheld by the commissioner), ADNR grants a ten-year property lease to operate an aquatic farm. Before the lease is issued, items are required in advance including the first year's annual lease fee. The charge for the lease will be based on a fair market value appraisal or the division's current fee schedule. Currently, the fee schedule is \$450 for the first acre, or portion thereof, plus an additional \$125 per acre, or portion thereof. Additional fees are required for any associated caretaker facilities, floating or upland, as set out in regulations or fee schedules. As with any lease, an applicant is not required to use the fee schedule and may choose to obtain an independent appraisal. The appraisal must be done in accordance with appraisal instructions issued by ADNR.

Because leases are issued for a term of ten years, a boundary survey is not required. However, the department reserves the right to require one should boundary conflicts or disputes over acreage arise.

A bond is required before issuance of the lease and is determined by such factors as projected site cleanup and restoration should the lessee fail to do so at lease expiration, termination, or abandonment. The minimum bond amount is \$2,500. However, if three or more lessees post an association bond to cover all of their leases, the minimum-security amount is 50 percent of the amount individually calculated for each lease. Bonds are subject to periodic review and adjustment, if necessary.

The definition of aquatic farm in the enabling legislation states that aquatic farms must produce a product that is "sold or offered for sale". The ADNR regulations require that the aquatic farm meet commercial use of the site beginning no later than the fifth year of the lease. This requirement must be reflected in the required development plan, which is incorporated as a provision of the lease. The commercial use requirement was implemented in an effort to prevent "hobbyists" from speculating and not using an area for the commercial purposes intended. If the commercial use requirement is not met by year five of the lease and continued each year for the remaining term, the lease will be terminated. The ADNR defines commercial use as: the minimum annual sales of aquatic farm product (total of all species combined) of at least \$3,000 per acre or fraction of an acre, or \$15,000 per farm, whichever is less. (11 AAC 63.030(b))

Personnel housing associated with aquatic farm operations may be approved only if: (1) the level of site development will require personnel be present on a daily basis, 2) personnel cannot reasonably commute to the site by road, boat, or aircraft on a daily basis, and 3) nearby land suitable for housing is not available for sale or lease. This applies to upland facilities as well as floating facilities. **Any housing facility may not be used as a permanent place of abode, must be temporary in nature, and must be designed and constructed so it can be removed and the site completely restored within 30 days if the lease terminates or housing ceases to be necessary. The housing facility may not be placed on a permanent foundation.** (Refer to 11 AAC 63.040(b)) In the Kachemak Bay and Fox River Flats Critical Habitat Areas, only those float structures essential to the farm operation may be permitted, per the policies of the Kachemak Bay and Fox River Flats Critical Habitat Area Management Plan.

A lease that is in good standing may be assigned. "Good standing" as described in 11 AAC 63.900(a)(8) means being in compliance with all provisions of all required authorizations.

Applicants are cautioned that the issuance of state authorizations will not guarantee that aquatic farms can operate free of impact from the 1989 Exxon-Valdez oil spill. The state makes no warranty, expressed or implied, nor assumes any liability, whatsoever, regarding the environmental quality of the sites offered at auction. This includes, without limitation, the presence of hydrocarbons now or in the future, the capability of the shellfish growing site, the product to be free from the effects of the 1989 oil spill, or meet the requirements under the National Shellfish Sanitation Program. If you have questions regarding oiling in a

specific area, please contact the Pipeline Corridor Regional Office at 907-271-4336 for assistance or you may visit the Exxon Valdez Oil Spill Trustee Council's website at: <http://www.oilspill.state.ak.us/>

Annual inspections are conducted by the ADFG and the ADNR to the extent possible to monitor compliance with authorized aquatic farm activities.

If a potable water source is to be used near an aquatic farm, a Water Right must be obtained. Please refer to the Water Rights in Alaska Fact Sheet attached. If you need additional information, please contact the Water Resources Section with the Division of Mining, Land and Water at the office nearest to your proposed site - Anchorage (907) 269-8503 or Juneau (907) 465-3400, or you may visit their website for further information and/or to download a Water Right application at: <http://www.dnr.state.ak.us/mlw/water/index.htm>

ALASKA DEPARTMENT OF FISH AND GAME, DIVISION OF COMMERCIAL FISHERIES

► Aquatic Farm Operation Ten-Year Permit and Transport/Acquisition Permit Requirements

The ADFG Aquatic Farm Operation Permit is issued subsequent to the ADNR lease. The operation permit allows an applicant to construct and operate an aquatic farm (or a hatchery that supplies aquatic plants or shellfish to an aquatic farm) if the technical and operational feasibility of the venture and the physical and biological suitability of an area to support the operation can be determined without making significant alterations in traditional fisheries or other existing uses of fish and wildlife resources or the habitats that support those resources. (AS 16.40.100-105)

Once you obtain an Aquatic Farm Operation Permit for your farm, statute requires the issuance of a Shellfish/Aquatic Plant Transport Permit and/or an Aquatic Stock Acquisition Permit before you transfer or acquire shellfish or aquatic plants (seed or brood stock). Applications for transport and/or acquisition permits for these activities must be submitted to the ADFG for approval. Copies of the permits must accompany the seed or brood stock. You must contact the ADFG approximately 30 days before your aquatic farm authorizations are scheduled to be issued to apply for transport and/or acquisition permits for your proposed activities. Please contact the Mariculture Coordinator in Juneau at (907) 465-6150 for more information. A transport and/or acquisition permit application should NOT be submitted with the aquatic farm application form in Part II of this packet.

Please note that currently, the Alaska Department of Fish and Game only allows for the importation of Pacific oyster seed. All other species proposed for culture must be from a certified hatchery or nursery operating within the state of Alaska. A list of certified seed sources is found on the ADFG website at: <http://www.cf.adfg.state.ak.us/geninfo/enhance/maricult/certsrce.php> It is the applicant's responsibility to research the intended species for culture to ensure seed for this species is available for this activity.

The ADFG regulations at 5 AAC 41.240(a) prohibits the permitting of farm sites where significant wild stock populations of the species intended for culture occur. On-bottom aquatic farm proposals for limited entry commercial fishery species should be sited where there are minimal numbers of the species intended for culture, which demonstrates the potential of the habitat to support that particular species while at the same time, would not support and attract a limited entry commercial fishery. The ADFG has determined that an insignificant population of geoducks is no more than 12,000 pounds of geoducks on a six acre farm site and an average of no more than 2,000 pounds per acre of an aquatic farm site. Other shellfish insignificant population threshold determinations will be made by ADFG on a case by case basis.

For aquatic farm projects proposing to use on-bottom culture, the ADFG requires that a user fee for a survey of the initial abundance of the species intended for culture be submitted with the 2007 aquatic farm opening application. The user fee for a sub-tidal, on-bottom culture aquatic farm site survey is \$5,000 per site and for an inter-tidal, on-bottom culture aquatic farm site survey is \$2,000 per site. Any remaining

funds will be returned to the applicant in the event that the department does not complete the survey, if costs for completing the survey are less than the maximum cap amount, or for sub-tidal surveys, if the applicant identifies a surveyor that meets specific department eligibility criteria and is approved by the department to conduct the sub-tidal survey. A user fee will still be required to be submitted with the application even if a surveyor is identified by the applicant. The department will work with the applicant to reduce the cost of the user fee for the survey where possible.

The farmer is required to notify the department of each landing event and record on fish tickets the number of wild stock shellfish harvested at the farm site, in order to maintain an account of wildstock over the five year harvest window for department use to ensure that the farmer meets provisions in 5 AAC 41.250, a regulation that requires an aquatic farmer to leave the same number of wild stock of the species approved for culture on the site as were present when aquatic farm operations began. In addition, a performance-based security for wild stock restoration, the amount of which is based on department replacement costs of the wild stock taken in the event that the farmers fail to perform, will be required to be filed with the department within 30 days after the harvest of wild stock in the amount specified by the department. The security will be released to the farmer within six months after termination of the farm site when the department determines that the wild stock restoration provision has been met at the farm site.

The aquatic farmer is responsible for obtaining water quality certification and it is recommended that applicants obtain this certification before the lease and operation permit is issued. There is no guarantee how long it will take for an area to become ADEC certified. **Please note: The lessee is still responsible for payment of the ADNR's lease fees** even though they may not be able to begin operations due to other agencies' authorization requirements.

Annual inspections are conducted by the ADFG and the ADNR to the extent possible to monitor compliance with authorized aquatic farm activities.

ALASKA DEPARTMENT OF FISH AND GAME, SPORT FISH DIVISION

► Special Area Permit Requirements

An ADFG Special Area Permit (5 AAC 95.300 – 990) is required to establish and operate an aquatic farm within a special area. A "special area" is defined as a state game refuge, a state game sanctuary, or a state fish and game critical habitat area, established under AS 16.20. Currently, aquatic farming activities for suspended culture sites are only allowed within the Kachemak Bay and Fox River Flats Critical Habitat Areas. Applications will be reviewed for consistency with the goals and policies of the Kachemak Bay and Fox River Flats Critical Habitat Areas Management Plan.

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL HEALTH

► Growing Area Classification, Shellstock Shippers and Shellfish Harvester's Permit Requirements

A Growing Area Classification determines that your growing or harvesting water meets the water quality standards set out in the National Shellfish Sanitation Program.

A Shellstock Shippers Permit authorizes individuals/businesses to grow, harvest, buy, or repack and sell shellstock. While this authorization does not allow the shucking of shellfish, it does allow shipping of shucked shellfish.

A Shellfish Harvester's Permit allows a person to take shellstock from a growing area that has been classified by the ADEC. Please be aware that persons holding a Shellfish Harvester's Permit may only sell product to a processor or shipper who is also permitted by the ADEC.

Each of the ADEC authorizations listed above must be obtained **PRIOR** to placing your product into commerce. The applications for the Shellstock Shipper and Harvester permits can be found in the 2007 ADEC Seafood Processors Permit Application and the 2007 Shellfish Harvester Application packets available on the ADEC website at: www.state.ak.us/dec/eh/fss/seafood/processingguide.htm or from any ADEC or ADFG office statewide. A brochure outlining the details of the ADEC's shellfish permits is attached.

Water quality in the growing area must meet the standards of the National Shellfish Sanitation Program (NSSP), incorporated by reference in 18 AAC 34.200. The full text of the NSSP is available on the internet at www.issc.org (select "NSSP" from the left-hand column). Once the growing area has been found to meet the NSSP standards, ADEC issues a Growing Area Classification. The Growing Area Classification ensures that the growing or harvesting area(s) is within the acceptable limits for fecal coliform. A shellfish growing area is closed to shellfish harvesting for commercial sales unless classified by the ADEC. Therefore, aquatic farm product may only be sold from sites that have an ADEC water quality classification. In general, the growing area must be free of sewage discharges. Please refer to the joint-agency application in Part II, under the ADEC, Environmental Health Classification Guidelines, for a listing of items that should be considered when selecting a site for aquatic farming operations.

The ADEC charges \$500 per growing area classification, which can be pro-rated among two or more farms within the same classified area. Through a Memorandum of Understanding (MOU) between the individual and the ADEC, most of the water quality sampling can be done by the individual under the procedures described in the MOU. Depending on the location of your farm, 15 or 30 water samples will be required from selected sampling sites to initially classify the area. Samples must be collected in both wet and dry weather, during low and high tides, and during the period you intend to harvest. Unless adverse pollution events occur, such as periods of high rainfall or animal activity in the area, it generally takes a minimum of 30 days to collect all the water samples necessary for classification.

Growing areas must be reclassified annually. Five days of sampling is required for approved areas unless it has a "remote" status, meaning the area has no human habitation and is not impacted by any actual or potential pollution sources. Remote areas require only two days of sampling. The fee for reclassification is \$150 per day and also can be pro-rated among two or more farms within the same classification area.

Presently, only the ADEC Environmental Health Lab located at 5251 Hinkle Road, Anchorage, Alaska is authorized to analyze the water samples. Water samples must arrive in Anchorage within 30 hours of being collected, therefore Gold Streak or some other air package service will be required to get the samples to the lab on time. The individual(s) submitting the samples for analyses bears the cost of shipping daily water samples to the lab in Anchorage. If the samples arrive more than 30 hours after being collected, they cannot be tested and more samples must be submitted. This is another important aspect to consider when selecting an aquatic farm site. More details about water quality classification requirements can be found in the attached brochure, by contacting George Scanlan at the ADEC in Anchorage at (907) 269-7638, or you may contact the Lab staff directly at (907) 375-8200 for information.

In addition to water quality classification, testing for Paralytic Shellfish Poison (PSP) is required before any commercial sales are authorized. Currently, the only laboratory approved in the state for PSP testing is the ADEC Lab in Anchorage. Levels cannot exceed the NSSP standard of 80 ug/100 g of tissue. For your information, a Uniform Shellfish Sampling Plan for Paralytic Shellfish Poison is also attached. This plan describes a four level sampling method used for monitoring PSP at your farm.

Eventually you will be placing the shellfish into commerce as required by the ADNR lease. Therefore, you are also required to have a Hazard Analysis Critical Control Point (HACCP) Plan. A HACCP plan describes the types of hazards that are reasonably likely to occur that could affect the safety of your product and the strategies for controlling those hazards. You must monitor those control strategies and

keep written records. The University of Alaska, Marine Advisory Program, periodically offers HACCP training and can be contacted at (907) 274-9691. Additional HACCP training courses are available on the internet at: <http://seafood.ucdavis.edu/haccp/training/masterca.htm>. More information about HACCP plans is available either from the Marine Advisory Program or by contacting George Scanlan, ADEC in Anchorage, at (907) 269-7638.

If you plan to sell your product out of state, you will also need to be placed on the Interstate Certified Shellfish Shippers List. The ADEC must perform an inspection of your facility within the 30 days preceding the date you are listed. Therefore, if you plan to ship out of state, you will need to contact the department in a timely manner to make those arrangements.

Depending on your aquatic farm operation, there may be other authorizations necessary from the ADEC, Division of Environmental Health. The following is a list of possible authorizations that may be required:

- Shellfish Shucker Packer (allows a person to shuck and pack shellfish or may act as a Shellstock Shipper or a reshipper or may repack shellfish originating from other certified dealers).
- Export Certification (provided as a service by the ADEC, Division of Environmental Health, to assist shellfish shippers). The issuance of export certifications is dependent upon the harvester's and shipper's compliance with 18 AAC 34 and the NSSP requirements.

The ADEC website at www.state.ak.us/dec/deh has all of the information needed to obtain approval from the department as well as links to other important sites.

List of Attachments

General Information

- Available Resources for Aquatic Farming Operations

ADNR/OPMP/ACMP

- Standards of the Alaska Coastal Management Program

ADNR/Mining, Land and Water

- Water Rights in Alaska Fact Sheet

ADFG

- Special Area Permit Application for Kachemak Bay & Fox River Flats Critical Habitat Management Areas
- Shellfish/Aquatic Plant Transport Permit Application
- Aquatic Stock Acquisition Permit
- Commercial Shellfish Permits Brochure

ADEC

- Classification of Commercial Shellfish Growing & Harvest Areas Brochure
- Uniform Shellfish Sampling Plan for Paralytic Shellfish Poison

Alaska Dept. of Commerce, Community and Economic Development, Division of Occupational Licensing

- Alaska Business License Instructions and Application

The following federal authorizations and applications are enclosed for your convenience:

USCOE

- U.S. Army Corps of Engineers General Permit No. 91-7N
- U.S. Army Corps of Engineers Applicability Certification for GP 91-7N

COE Applicability Certification for GP 91-7N; Structures in navigable waters east of Cape Resurrection. Structures include associated float houses and mooring buoys, in navigable waters east of Cape Resurrection

COE Applicability Certification for GP 91-7N; Individual Permit Application for structures, including associated float houses and mooring buoys, in navigable waters west of Cape Resurrection

- Instructions and Application for Department of the Army Permit (individual)
For structures in navigable water west of Cape Resurrection
- U.S. Army Corps of Engineer's Nationwide Permit No. 4
For on-bottom activities in intertidal/submerged areas

US Forest Service

- Application Form for Transportation and Utility Systems and Facilities on Federal Lands
for associated aquatic farming facilities on uplands within a national forest

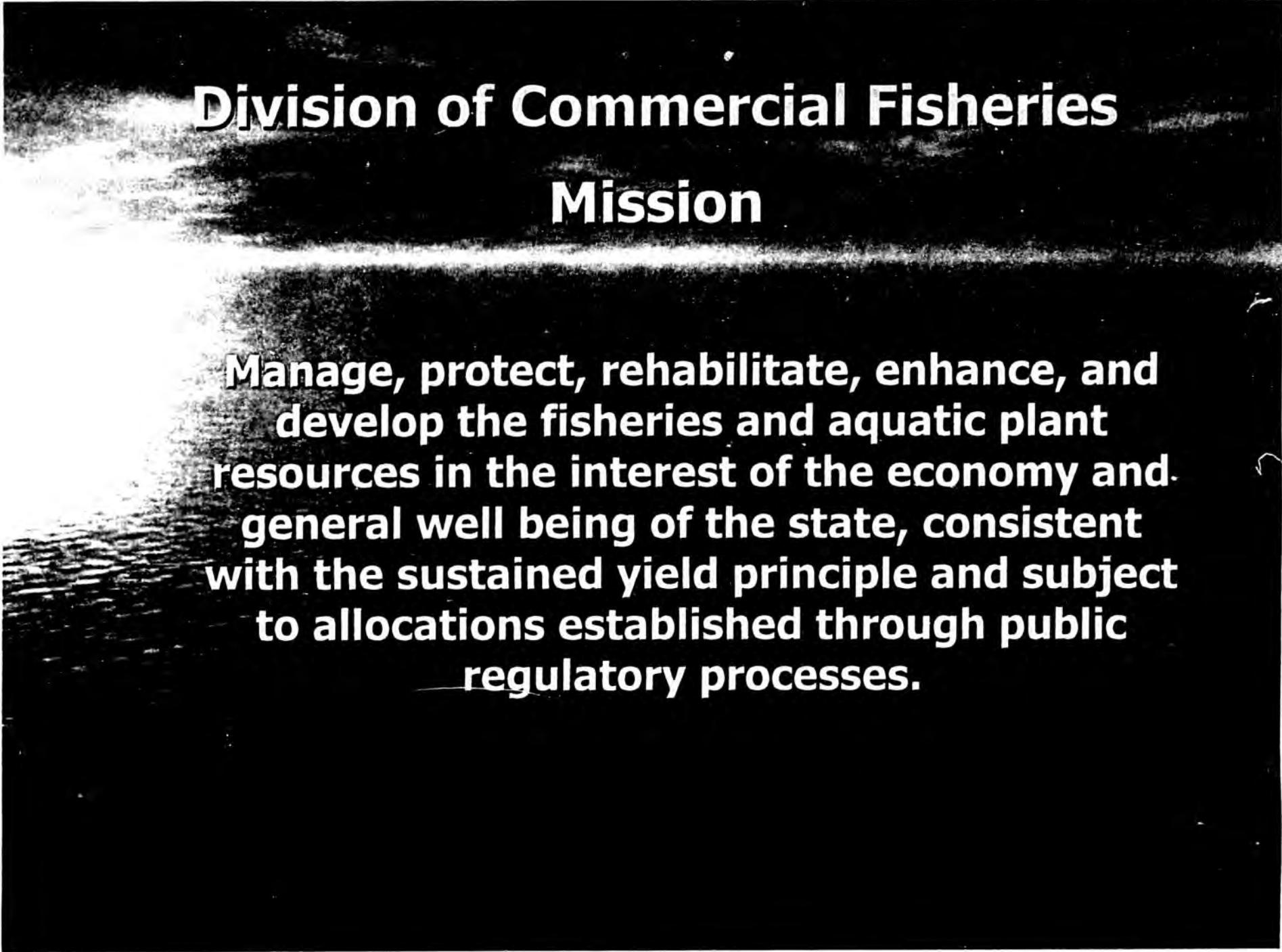
National Ocean and Atmospheric Administration (NOAA)

- Navigational nautical charts can be obtained from various suppliers around the state. A list is included as an attachment for your convenience or you may find a supplier listing at the following website: http://www.naco.faa.gov/agents_acc.asp

Overview of the Division of Commercial Fisheries



Patricia Nelson
Acting Director



Division of Commercial Fisheries

Mission

Manage, protect, rehabilitate, enhance, and develop the fisheries and aquatic plant resources in the interest of the economy and general well being of the state, consistent with the sustained yield principle and subject to allocations established through public regulatory processes.



Division of Commercial Fisheries

Primary Responsibilities

- **Manage commercial, personal use, and subsistence fisheries within state waters**
- **Manage shellfish species and some groundfish out to 200 miles**
- **Conduct applied research on Alaska's aquatic resources**
- **Plan and permit fish hatcheries and mariculture operations**
- **Negotiate fishing agreements subject to the Pacific Salmon Treaty and Alaska-Yukon Treaty**
- **Coordinate with Federal and International Fisheries Management Agencies**

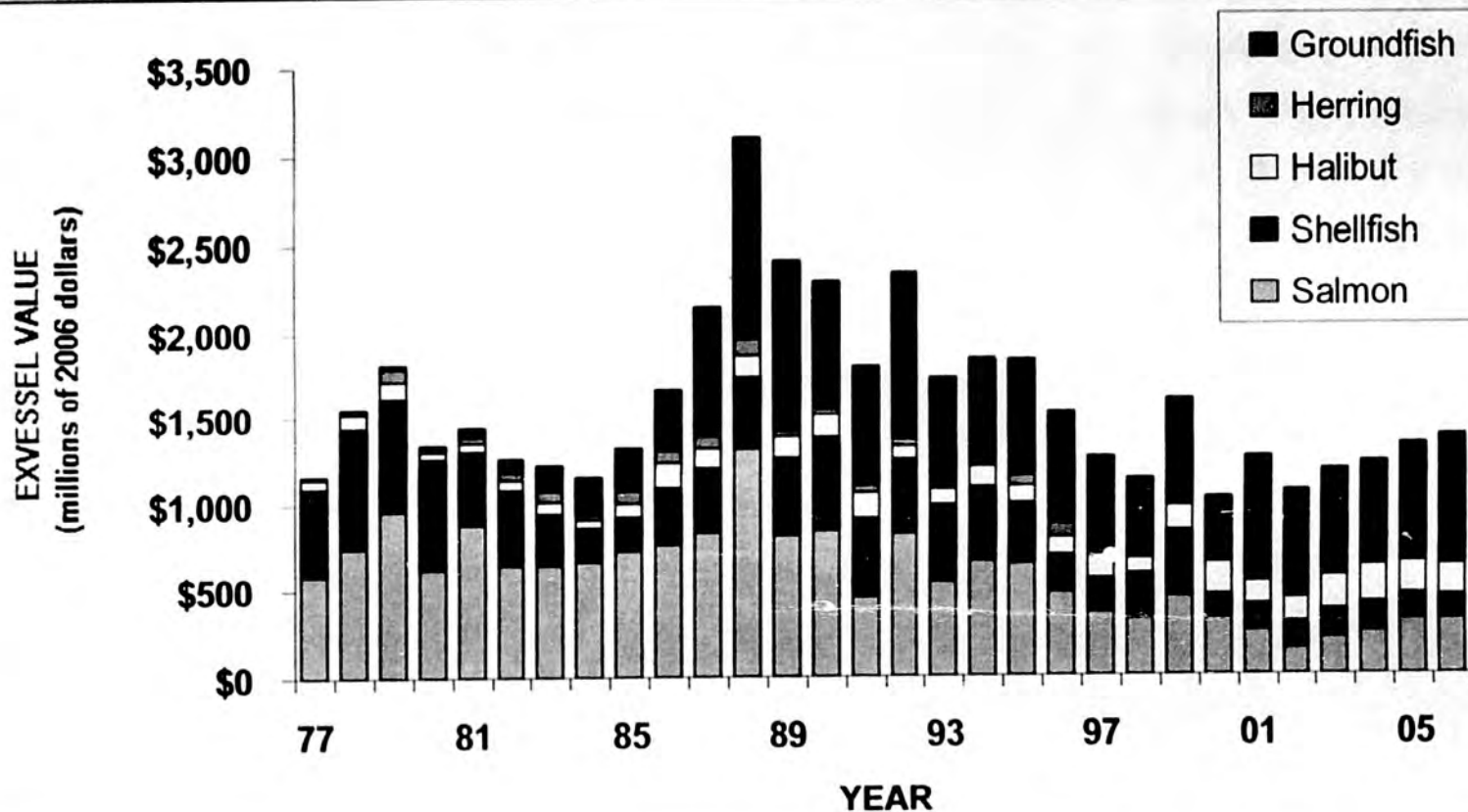
Kuskokwim Bay Salmon Fishermen Delivering In Quinahak



Crab Boat Setting Pots In The Bering Sea



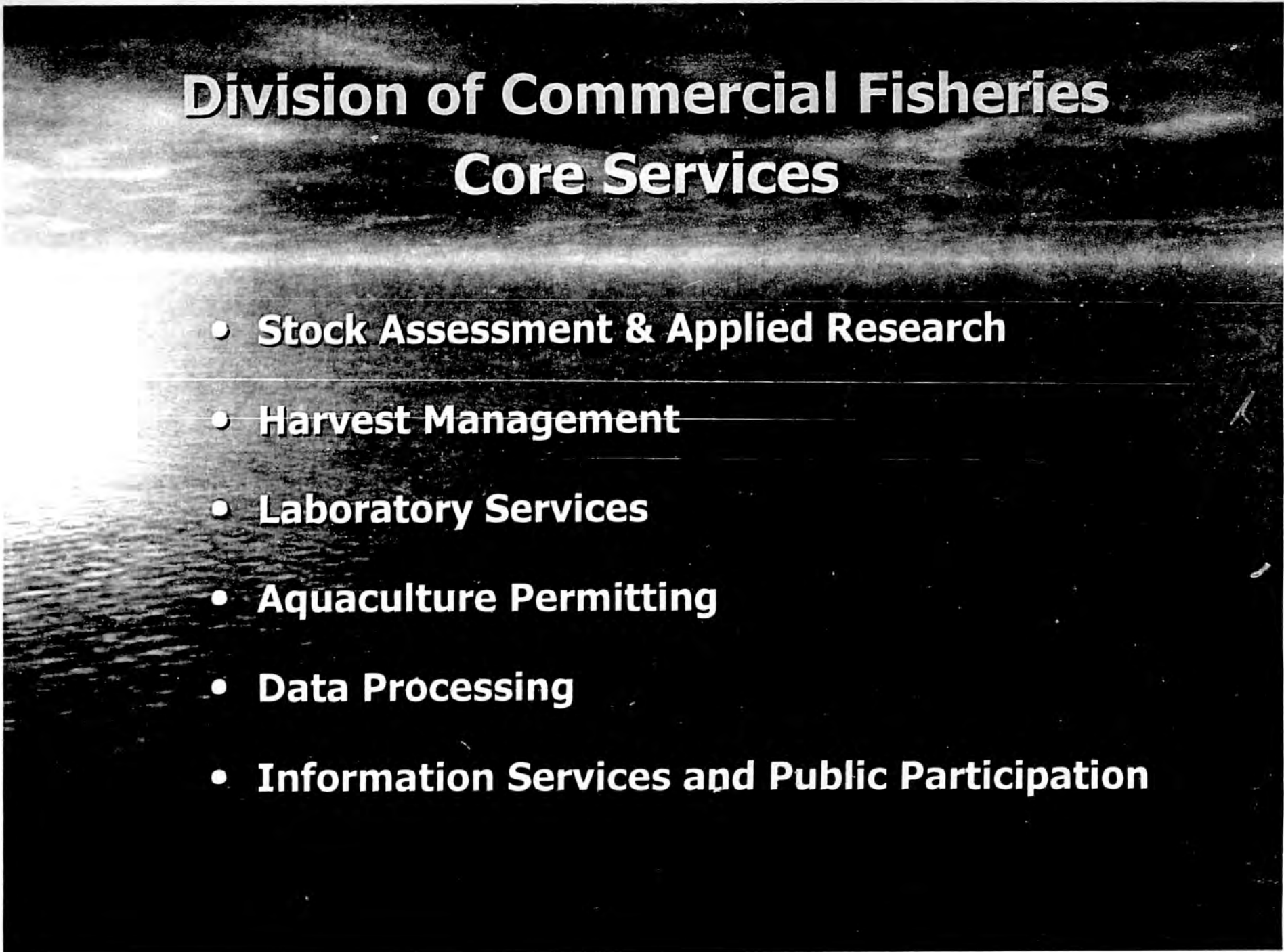
Exvessel Value Of Alaska's Commercial Fisheries (Adjusted to Constant 1977 Dollars)



Economic Impact of Seafood Industry on Alaska's Economy in 2001

(Source: Northern Economics, Inc. 2003)

- **Generated 36,900 full-time equivalent jobs in seafood harvesting, processing sectors, and support industries**
- **Approximately 23,100 of these jobs were held by Alaskans**
- **Generated \$932 million in direct payments to labor with \$370 million going to Alaska residents**
- **Generated total sales of \$3.0 billion within Alaska**
- **Paid more in taxes to state general fund than any other industry except oil and gas**



Division of Commercial Fisheries

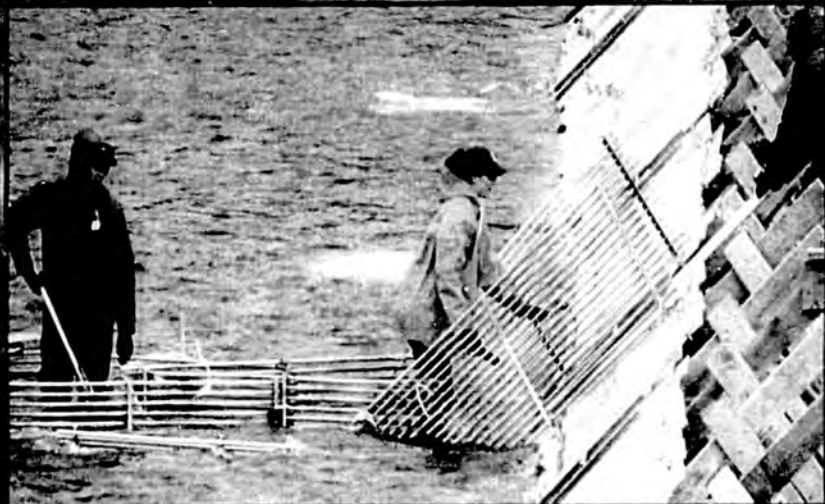
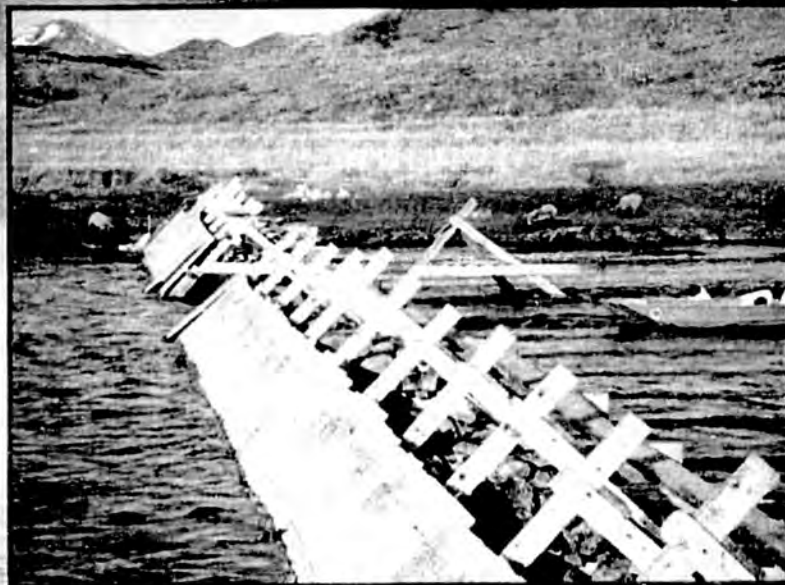
Core Services

- **Stock Assessment & Applied Research**
- **Harvest Management**
- **Laboratory Services**
- **Aquaculture Permitting**
- **Data Processing**
- **Information Services and Public Participation**

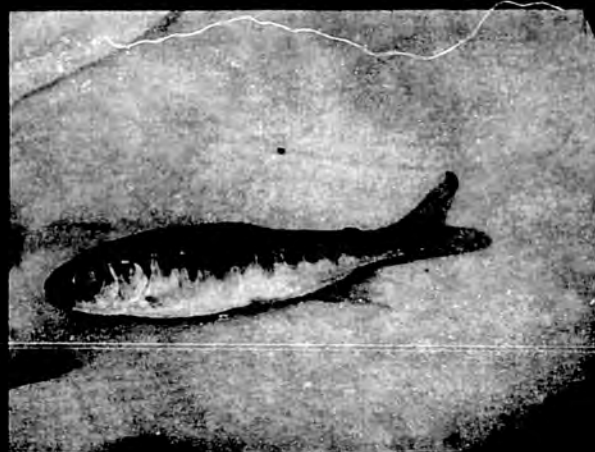
Stock Assessment and Applied Research

- **Salmon Escapement Enumeration**
 - **Weirs, Towers, Sonar, Foot/Aerial Surveys**
- **Juvenile Salmon Estimation**
- **Groundfish and Shellfish Surveys**
- **Herring Spawn Deposition and Hydroacoustic Surveys**
- **Aerial Herring Surveys**
- **Dive Surveys**
- **Biological, Genetic, Coded-Wire Tag Sampling**

Salmon Enumeration and Sampling



Salmon Enumeration and Sampling



Other categories and examples of stock assessment

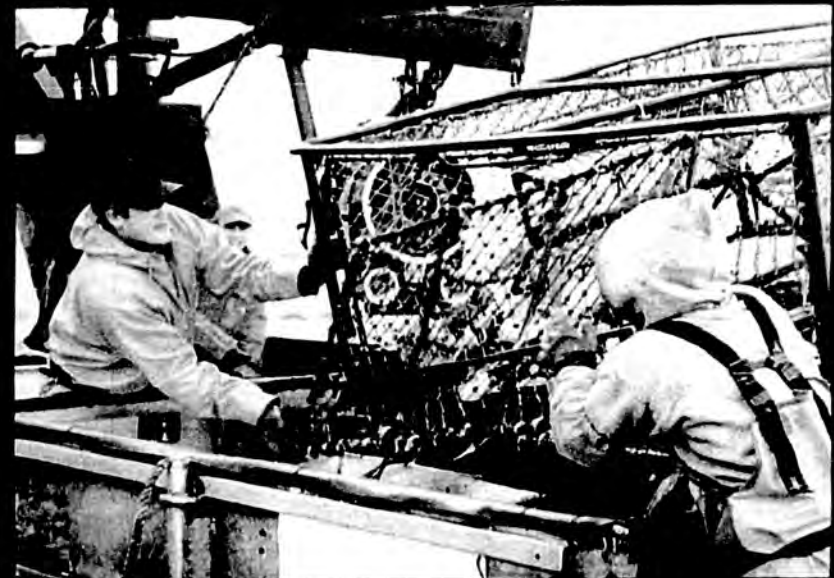


Intertidal littleneck clam surveys in
Prince William Sound.



Harvest Management

- Assisting the Board of Fisheries in Establishing Regulations and Management Plans
- Opening and Closing Fishing Areas and Setting Fishing Time
- Collecting Harvest and Biological Data
- Writing Annual Management Reports



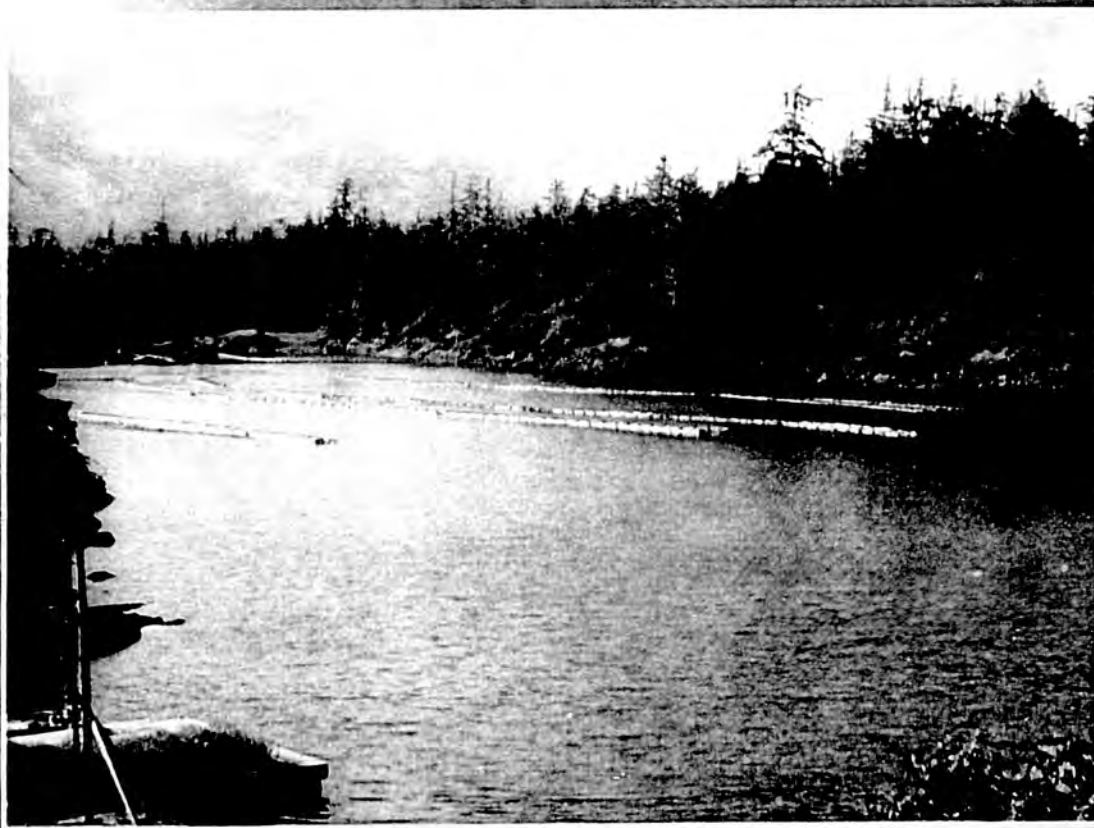
Laboratory Services

- Pathology Laboratory
- Coded-Wire Tag and Otolith Aging Laboratory
- Genetic Stock Identification Laboratory



Otoliths or Ear Bones

Aquaculture Permitting



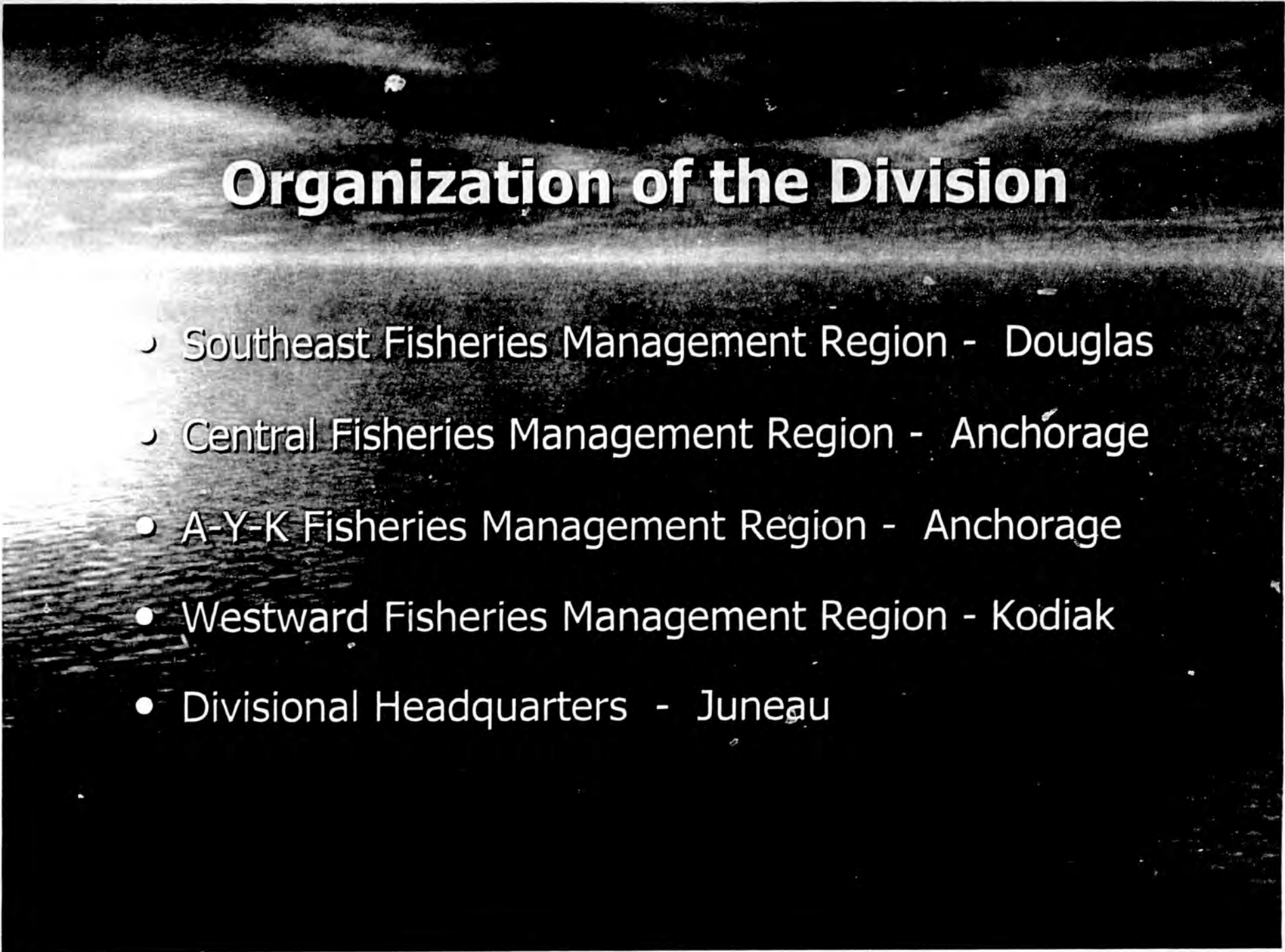
- Private Non-Profit Salmon Hatcheries
- Aquatic Shellfish Hatchery
- Aquatic Shellfish Farms

Data Processing

- Fish Tickets Systems
- eLanding Electronic Catch Reporting System
- Internet Accessible Inseason Catch and Escapement Databases
- Geographical Information System Databases
- Internet Accessible News Release Database
- Seafood Processor/Buyer Intent to Operate System
- Commercial Operator Annual Reports (COAR)
- Databases for Biological Data

Information Services and Public Information

- Design and Maintain Division Website
- Publish Brochures and Other Informational Materials on Divisional Programs
- Produce Upon Request Custom Reports from Fish Ticket and COAR Databases
- Administer Divisional Confidentiality Policies
- Develop and Administer Divisional Publication Policies and Procedures



Organization of the Division

- Southeast Fisheries Management Region - Douglas
- Central Fisheries Management Region - Anchorage
- A-Y-K Fisheries Management Region - Anchorage
- Westward Fisheries Management Region - Kodiak
- Divisional Headquarters - Juneau

Permanent and Seasonal Staff

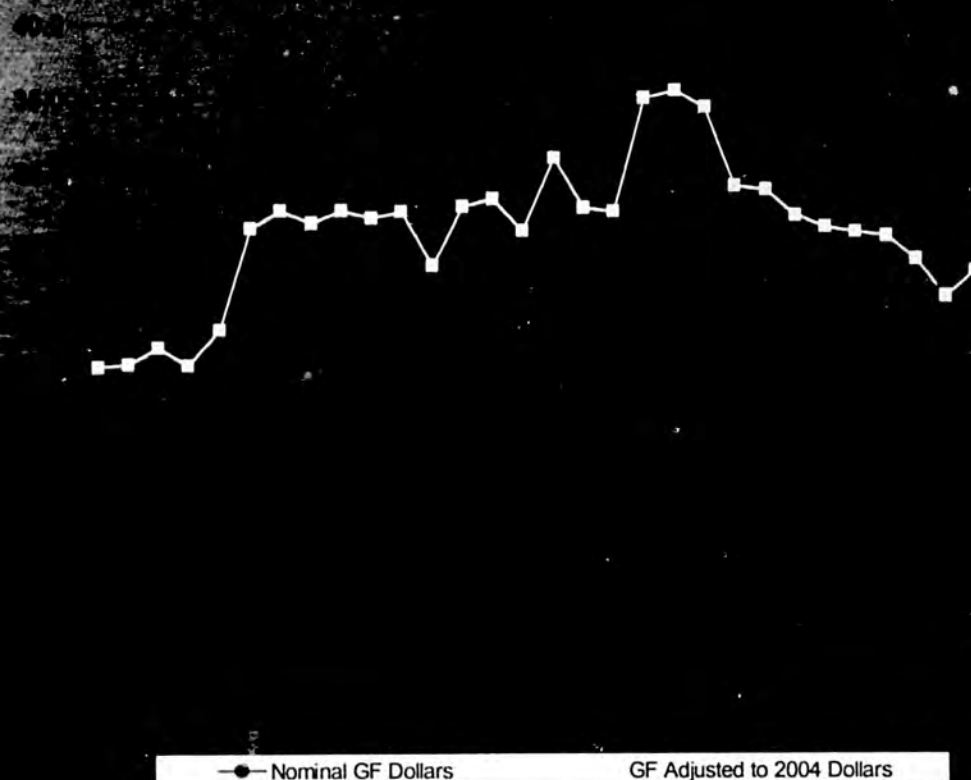


Bethel Office June 2006

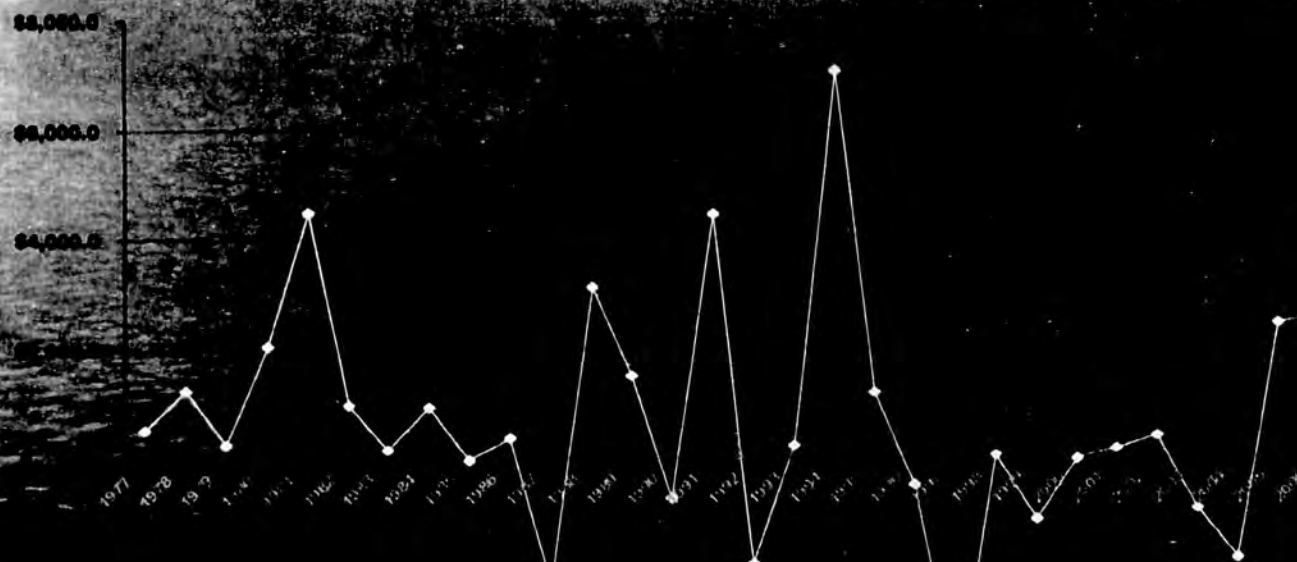
In fiscal year 2007:

- 306 permanent staff
- 499 seasonal staff
- 20 permanent offices
- 84 seasonal offices/field camps
- 4 large research vessels

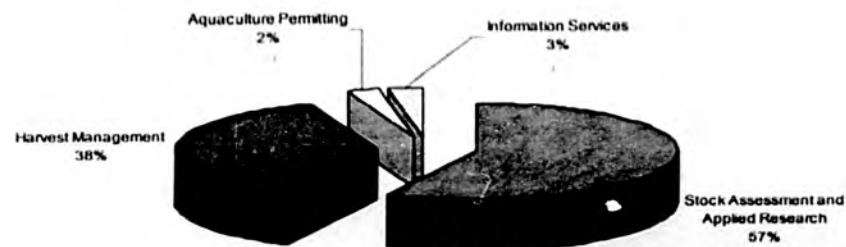
General Fund Appropriations for the Division of Commercial Fisheries Fiscal Years 1977-2007



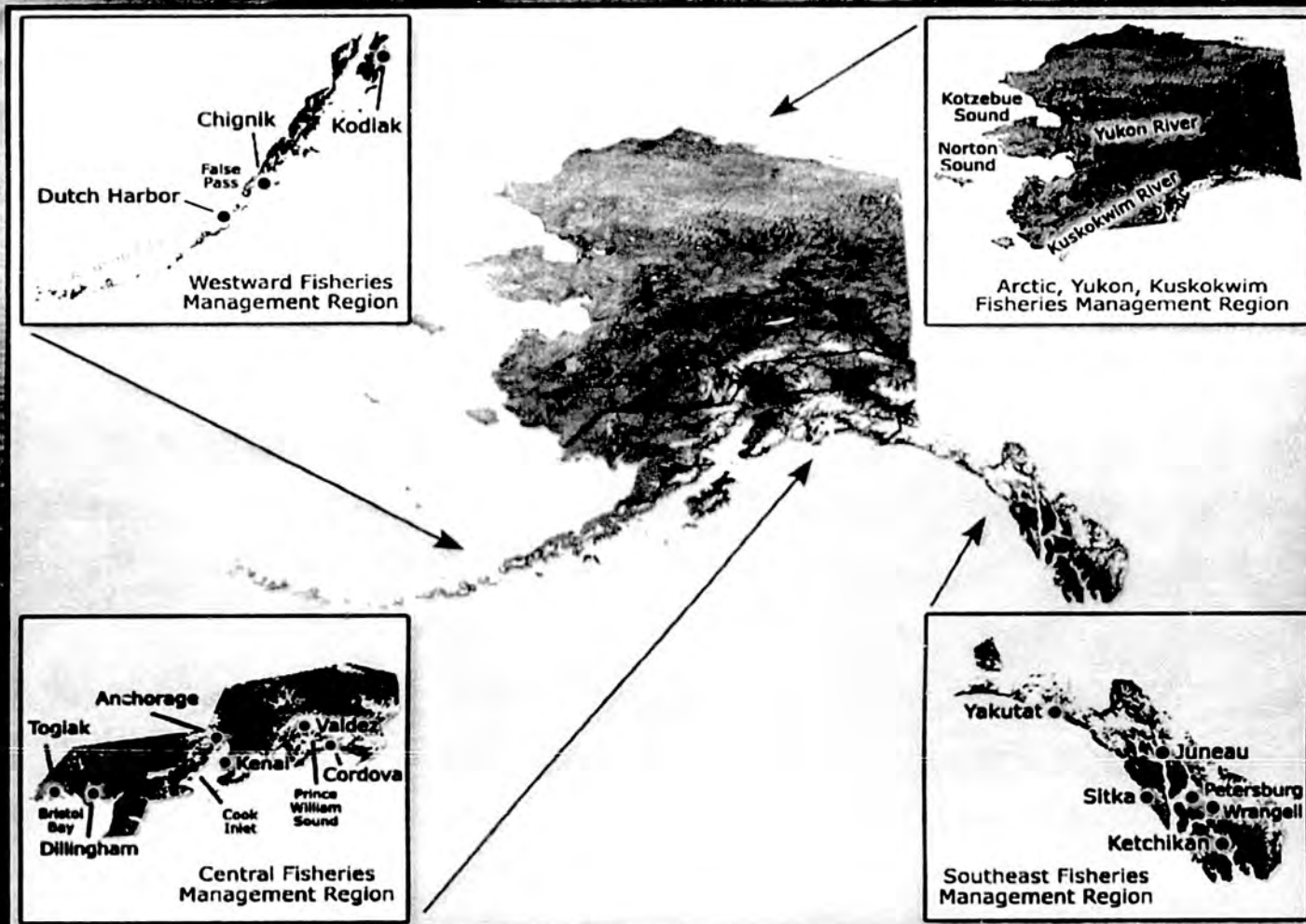
Year to Year Change in Appropriations to Division of Commercial Fisheries Fiscal Years 1977 to 2007



Percentage of Total Expenditures for Core Services



Fisheries Management Regions



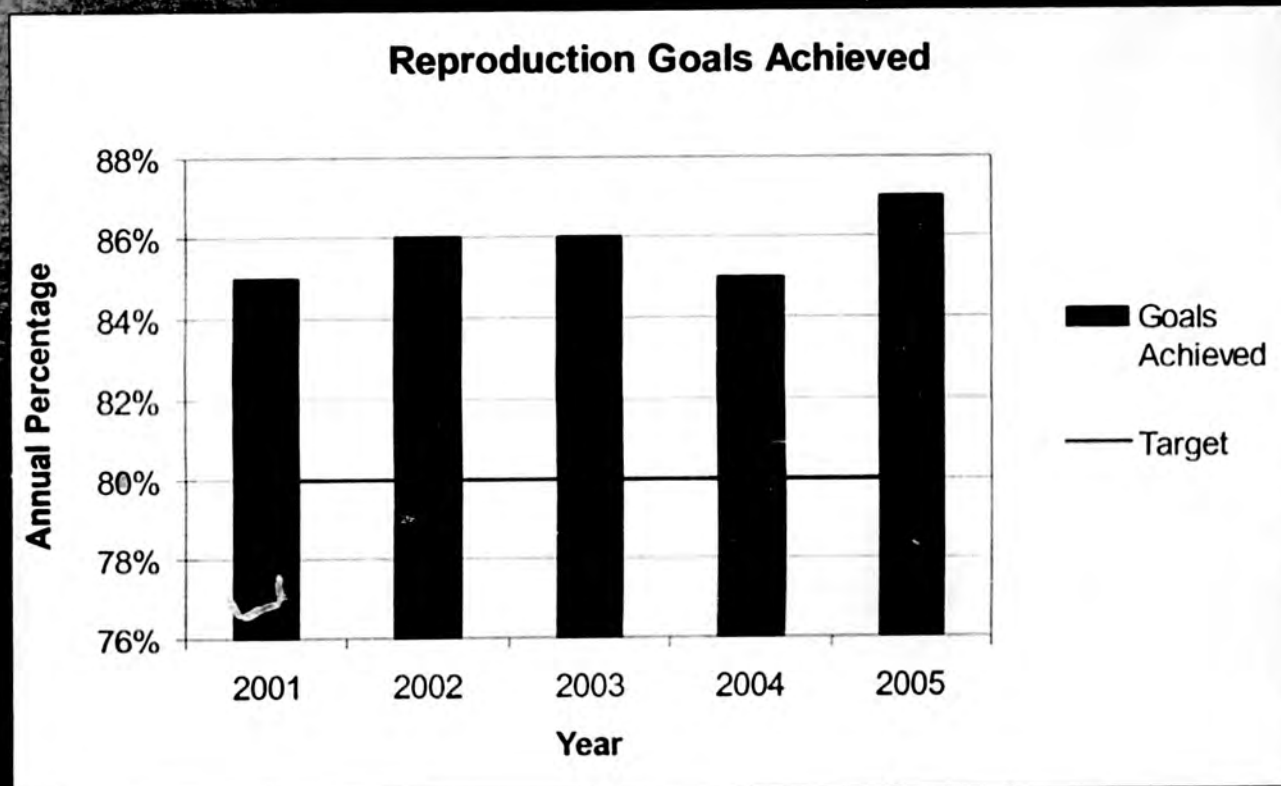
Missions and Measures

Targets

1. Exvessel value of commercial harvests and mariculture production above \$1 billion
2. Reproductive goals achieved for more than 80% of monitored stocks
3. Develop genetic baselines for Alaskan Chinook, chum, and sockeye stocks that will include 100 stocks in each baseline
4. All aquatic farms operating with current permits

Missions and Measures

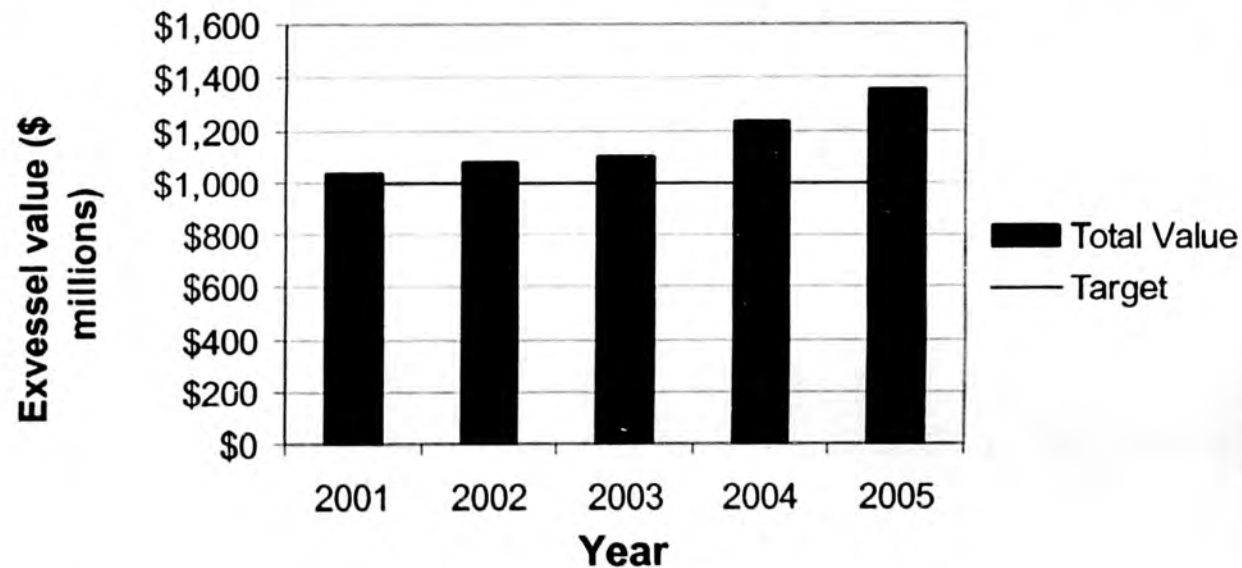
2. Reproductive goals achieved for more than 80% of monitored stocks



Missions and Measures

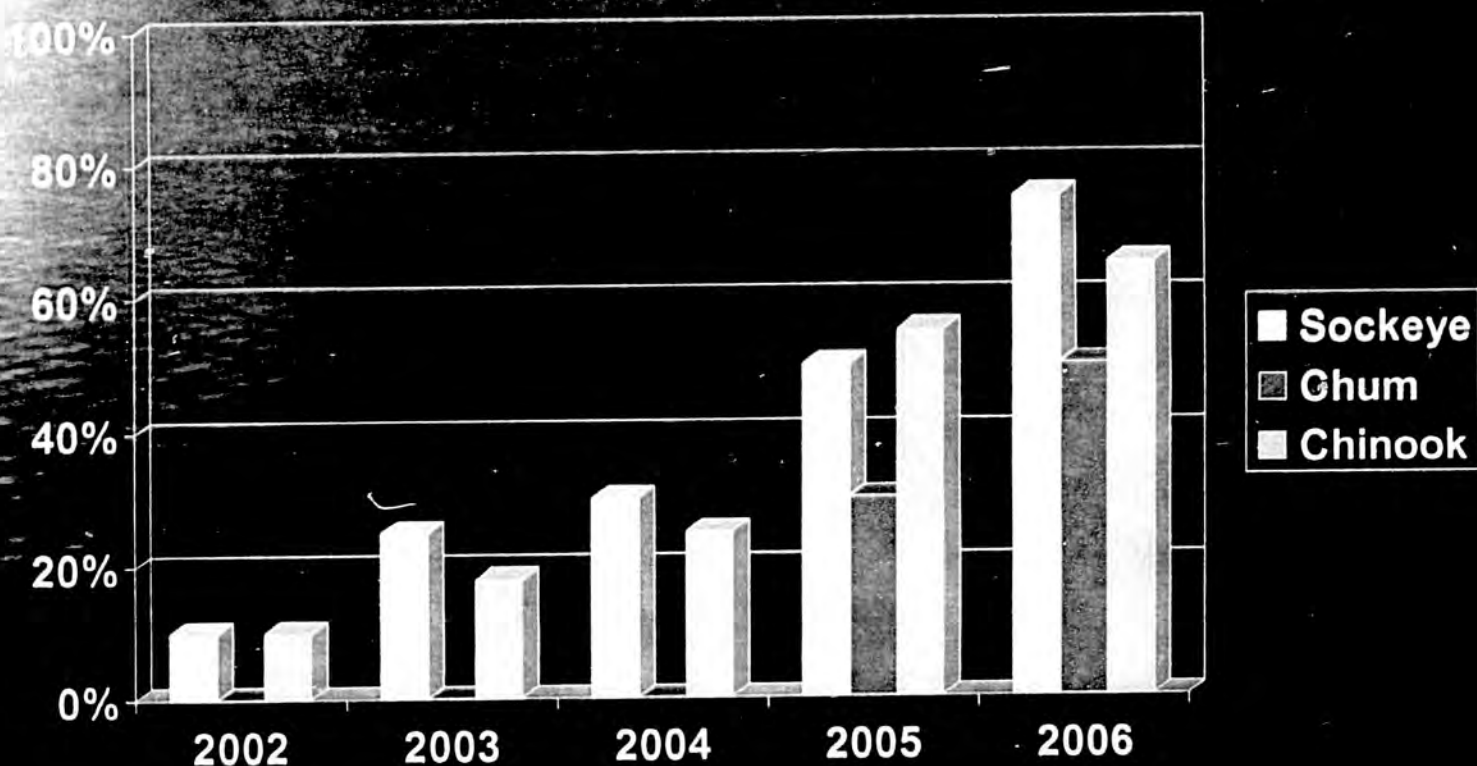
1. Exvessel value of commercial harvests and mariculture production above \$1 billion annually

**Exvessel Value of Commercial Harvests and
Mariculture Production in Alaska**



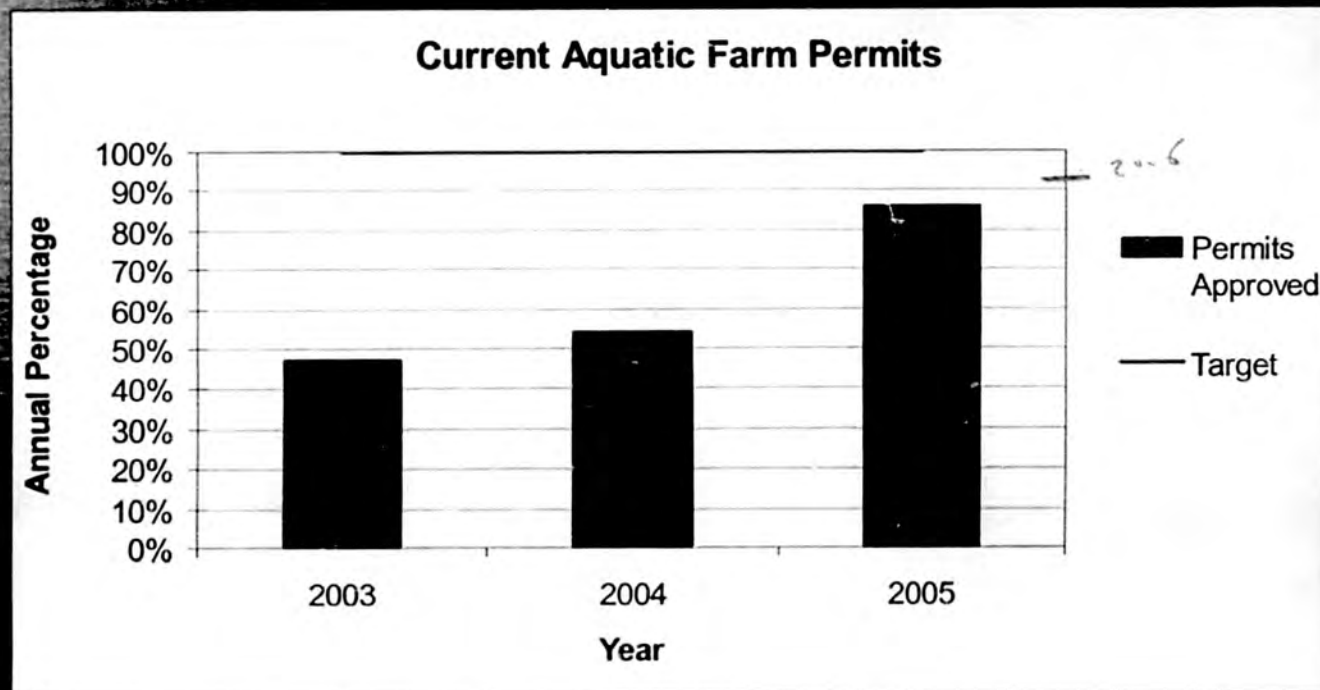
Missions and Measures

3. Develop genetic baselines for Alaskan Chinook, chum, and sockeye stocks that will include 100 stocks in each baseline



Missions and Measures

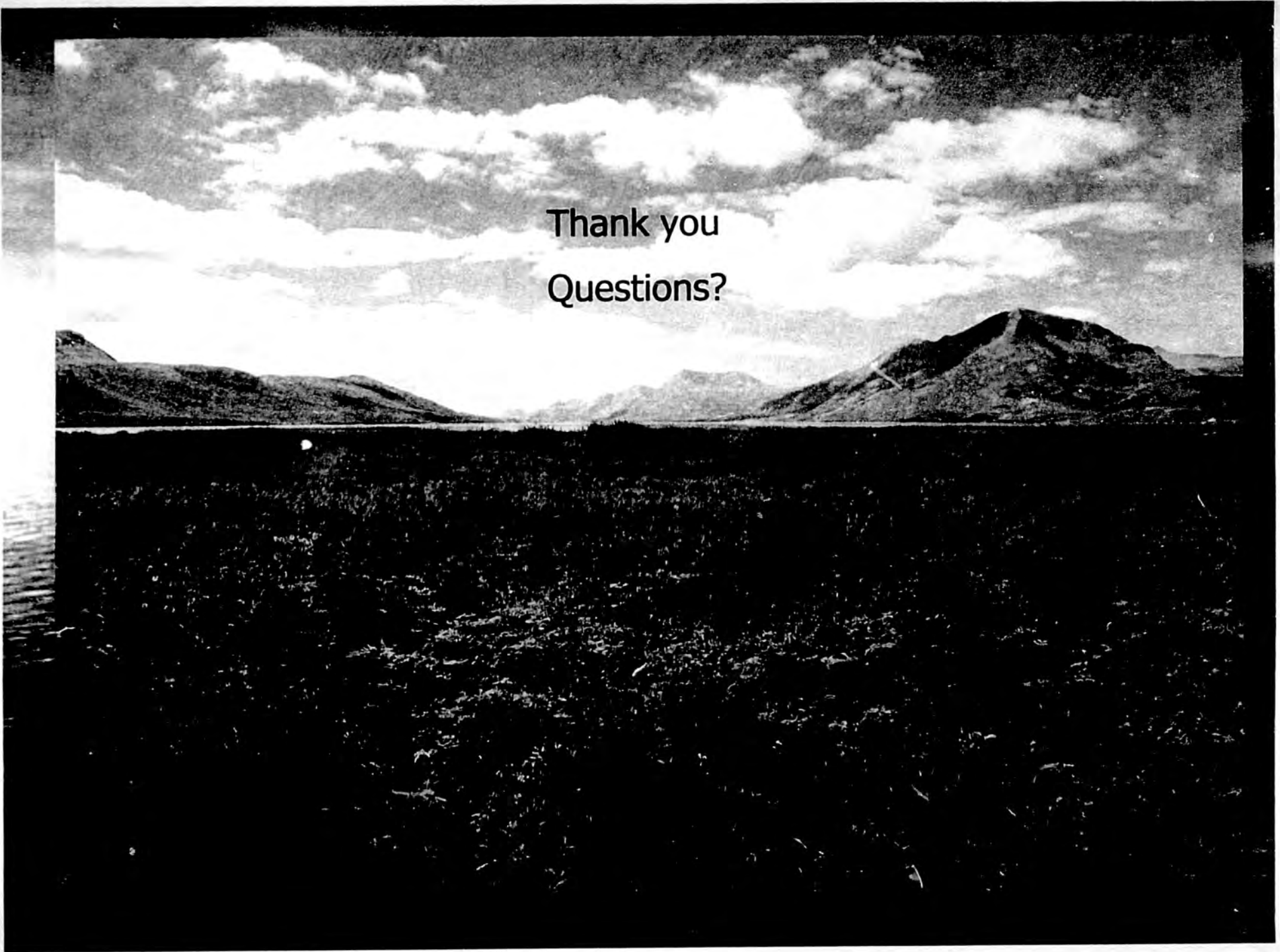
4. All aquatic farms operating with current permits





Major Issues

- Recruitment and Retention of Staff
- Declining Federal Funds
- Funding Instability
- Renegotiation of the Pacific Salmon Treaty
- Federal Subsistence Management
- Gulf of Alaska Groundfish Rationalization
- Federal Extraterritorial Jurisdiction
- Marine Stewardship Council Re-certification
- Cook Inlet Salmon Management
- Geoduck Aquatic Farm Industry Recommendations
- Water/Boating, Diving, Firearms and Bear Safety

A black and white photograph of a vast, flat landscape, possibly a salt flat or a dry lake bed, stretching towards a range of mountains in the distance. The sky is filled with large, bright, fluffy clouds. The foreground is dark and textured, showing some sparse vegetation or debris. The overall scene is desolate and expansive.

Thank you
Questions?



Alaska Department of Fish and Game

Division of Sport Fish

Kelly Hepler, Director

Rob Bentz, Deputy Director



ADF&G Mission

- Protect, maintain and improve fish, game, and aquatic plant resources
- Manage their use and development in the best interest of the economy, and the well-being of the people of the State consistent with the Sustained Yield Principle



Division of Sport Fish Mission

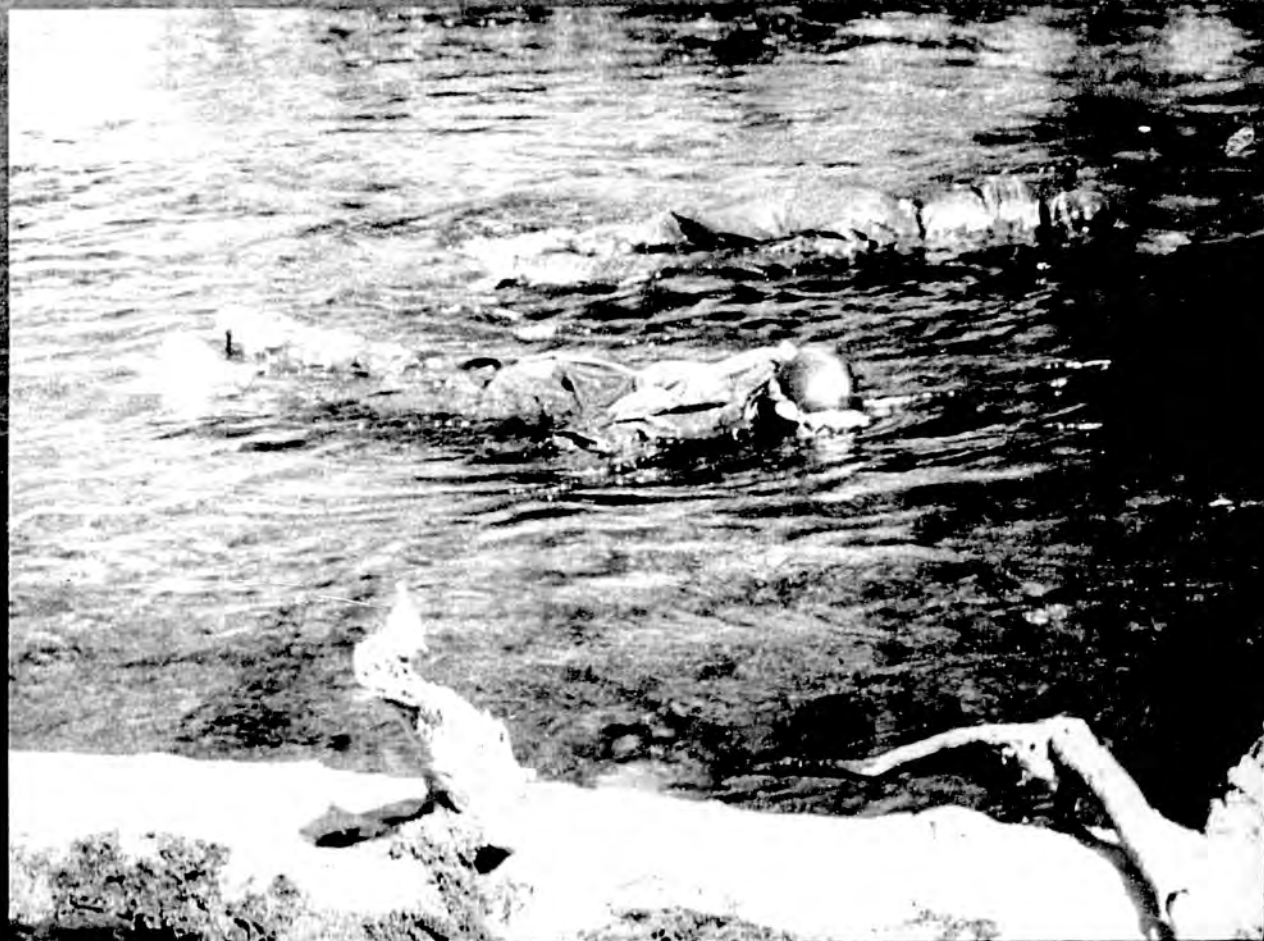
- Protect and improve the State's recreational fisheries resources



Anglers fishing Ship Creek, Anchorage.

Sport Fish Core Services

- › Fishery stock assessment



Sport Fish biologists conducting a steelhead snorkel survey, Naha River, Southeast.

Sport Fish Core Services

- › Stock assessment
- › Fisheries management



Anglers fishing Sheep Creek, Parks Highway.

Sport Fish Core Services

- › Stock assessment
- › Management
- › Hatchery production



Stocking at Ballaine Lake, Fairbanks area.

Sport Fish Core Services

- Stock assessment
- Management
- Hatchery production
- Access development & maintenance



Eklutna tailrace parking and access project.

Sport Fish Core Services

- Stock assessment
- Management
- Hatchery production
- Access
- Habitat assessment



Fish community inventory, Nushagak drainage.

Sport Fish Core Services

- › Stock assessment
- › Management
- › Hatchery production
- Access
- Habitat
- Information & education



Elementary students assisting with an egg take, Campbell Creek.

Sport Fish Core Services

- ✓ Stock assessment
- ✓ Management
- ✓ Hatchery production
- Access
- Habitat
- Information & education
- Enforcement



ADF&G employees explaining regulations to an angler.

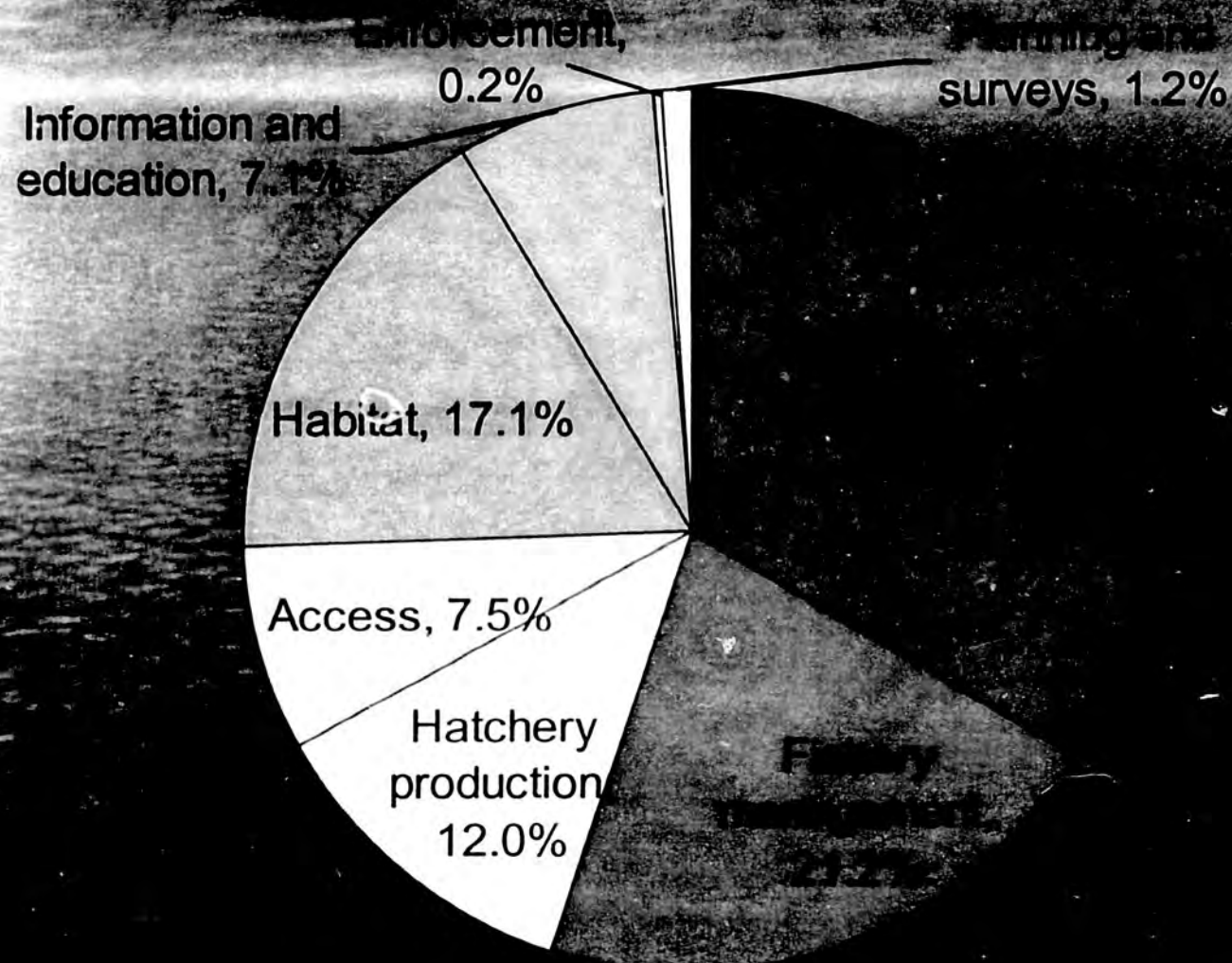
Sport Fish Core Services

- Stock assessment
- Management
- Hatchery production
- Access
- Habitat
- Information & education
- Enforcement
- Planning and surveys



Division of Sport Fish staff during a planning meeting.

FY08 Budget by Core Service



FY08 Sport Fish Budget by funding source

		FY08
Series RDU Total		Governor's Request
	Federal Receipts	\$23,596.9
	General Fund	\$5,155.3
	Interagency Receipts	\$2,614.1
1018	EVOS	\$343.1
1024	Fish & Game Fund	\$14,729.3
1036	Commercial Fish Loan Fund	\$5.9
1055	Oil/Hazardous Waste	\$64.3
1061	CIP Receipts	\$1,985.3
1108	Statutory Designated Prgm Rcpt	\$1,979.2
1194	Fish & Game, Non Dedicated	\$9.0
1199	Sport Fish Enterprise Account	\$500.0
Total		\$50,982.4

Sport Fish Funding Sources

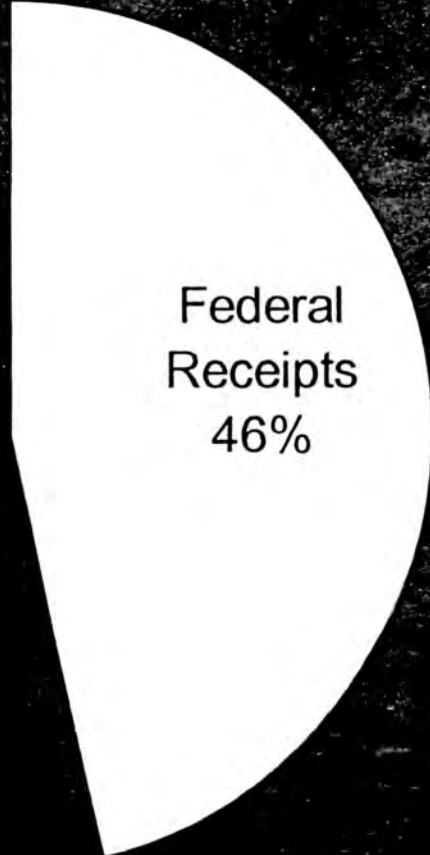
- High % of user fees



Grandfather and grandson fishing near Seward.

Sport Fish Funding Sources

- Federal receipts
 - Sport Fish Restoration
 - Pacific Salmon Treaty
 - NOAA

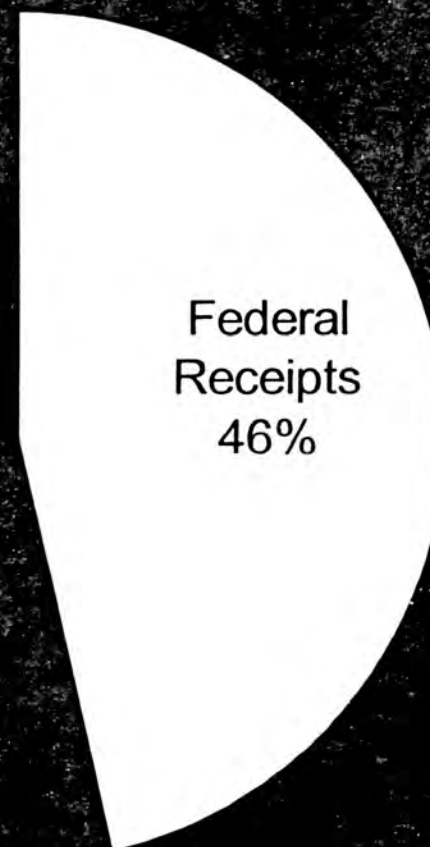


Federal
Receipts
46%

A pie chart with a single white slice representing 46% of the total. The slice is positioned on the right side of the chart, and the text 'Federal Receipts 46%' is printed inside it.

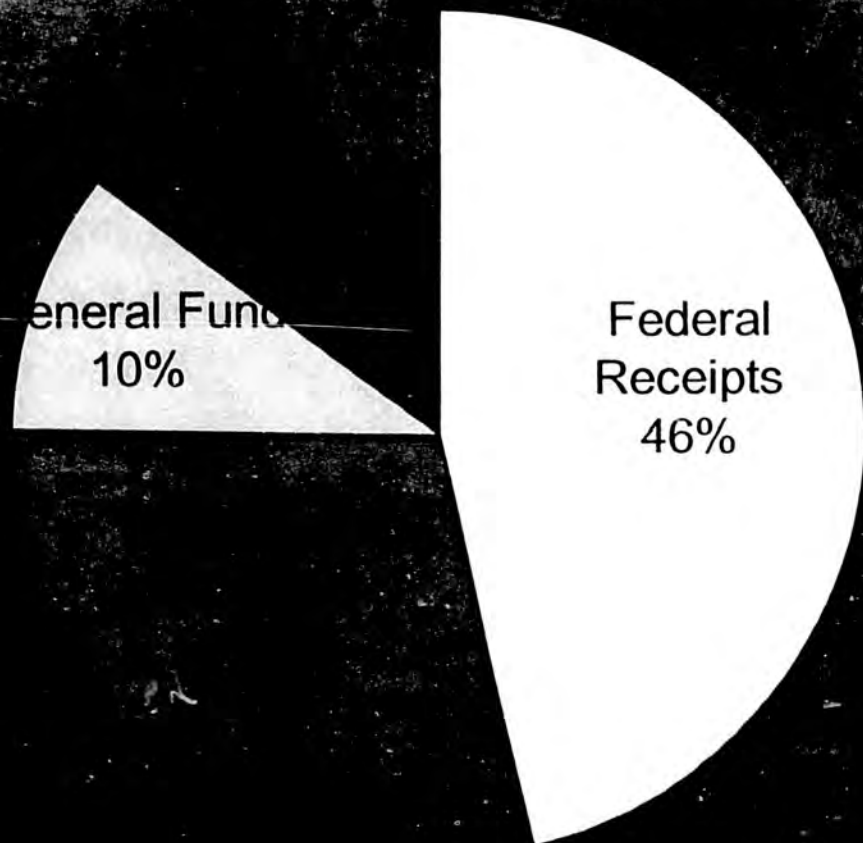
Sport Fish Funding Sources

- Federal receipts
- Fish & Game fund
 - sport fish license sales
 - king salmon stamp sales



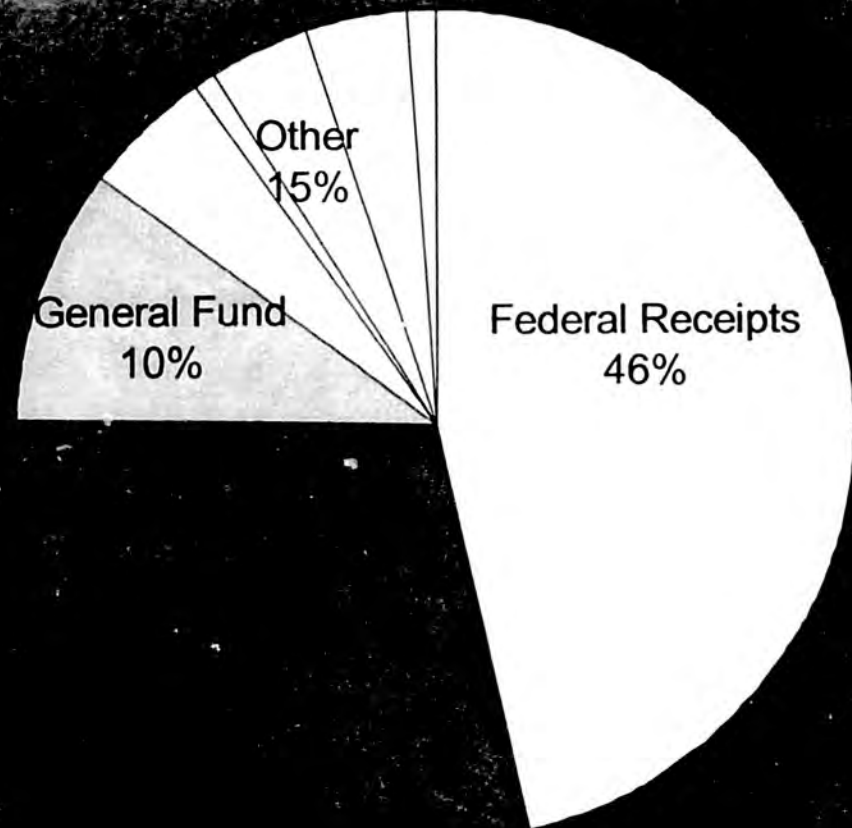
Sport Fish Funding Sources

- Federal receipts
- Fish & Game fund
- General fund



Sport Fish Funding Sources

- Federal receipts
- Fish & Game fund
- General fund
- Other sources



Sport Fishing Statistics

- 492,086 anglers
- 487,000 sport fish licenses
- 2,464,000 angler-days
- \$423,139,000 expenditures

Sources:

Division of Sport Fish 2005 Statewide Harvest Survey
US Fish & Wildlife Service



Angler fishing remote river from raft.

Sport Fish Organization

- Region I (Southeast)
- Region II (Southcentral)
- Region III (Interior)
- Research & Technical Services
- Research & Restoration
- Headquarters



King salmon derby, Ketchikan.

Sport Fish Offices & Employees

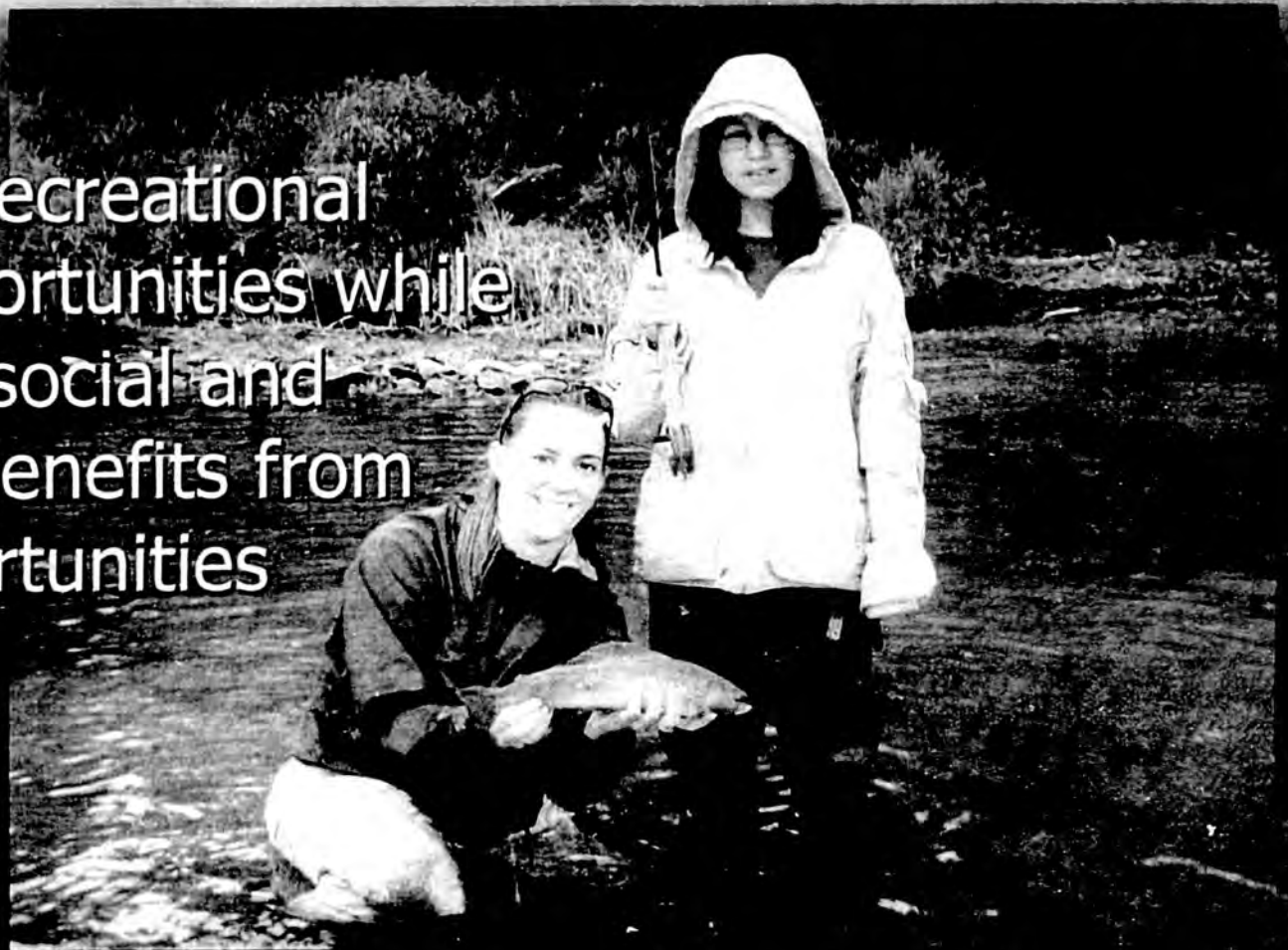
- 3 regional offices and headquarters
- 22 area offices
- 245 permanent employees
- 216 seasonal employees



Anchorage Regional Sport Fish Information Center.

Sport Fish Targets & Measures

- Outcome:
 - Sustained recreational fishing opportunities while optimizing social and economic benefits from these opportunities



Sport Fish education employee teaching a student to fly fish, Dillingham area.

Sport Fish Targets & Measures

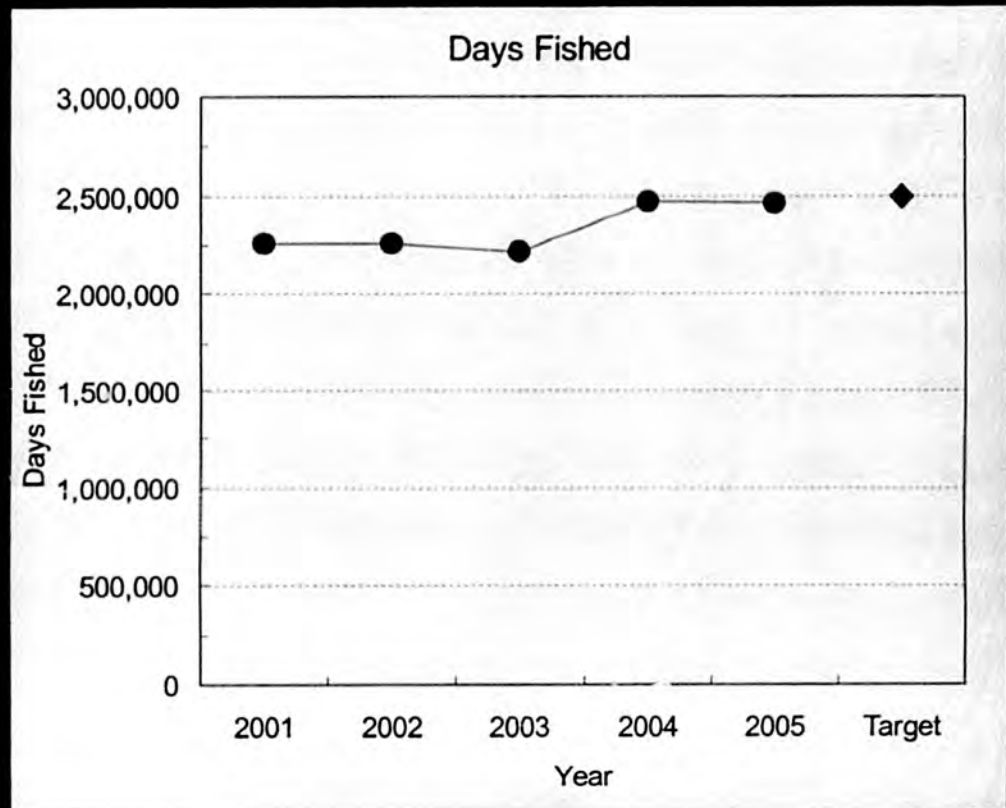
- Target 1: Provide 2.5 million angler days and sell 450,000 licenses



Young angler with his catch, Anchorage Youth-Only fishery.

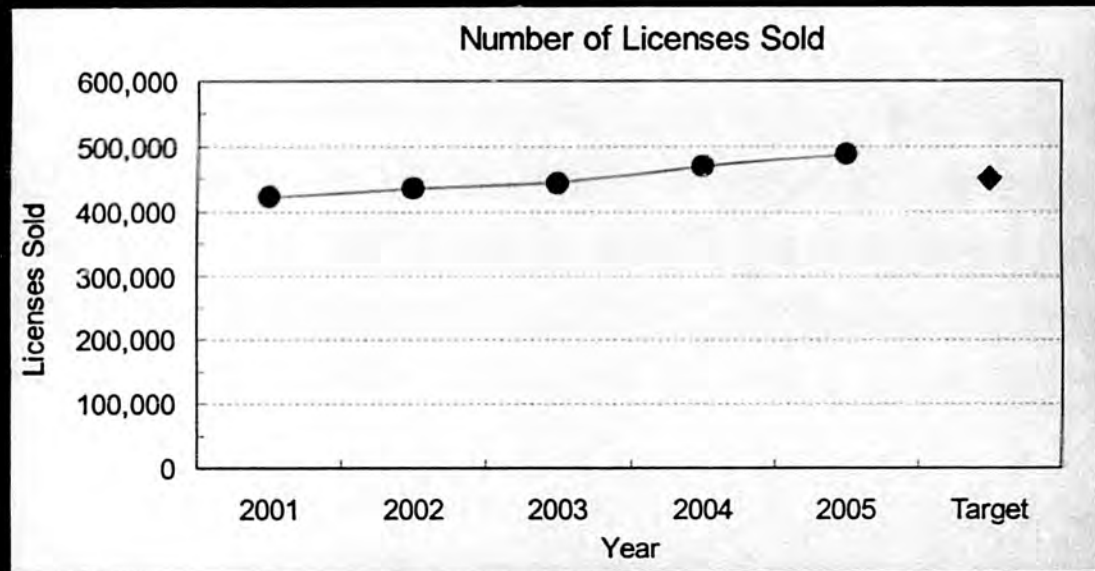
Sport Fish Targets & Measures

- Target 1: Provide 2.5 million angler days and sell 450,000 licenses
 - Number of angler days met



Sport Fish Targets & Measures

- Target 1: Provide 2.5 million angler days and sell 450,000 licenses
 - Number of angler days met
 - Number of licenses exceeded



Sport Fish Targets & Measures

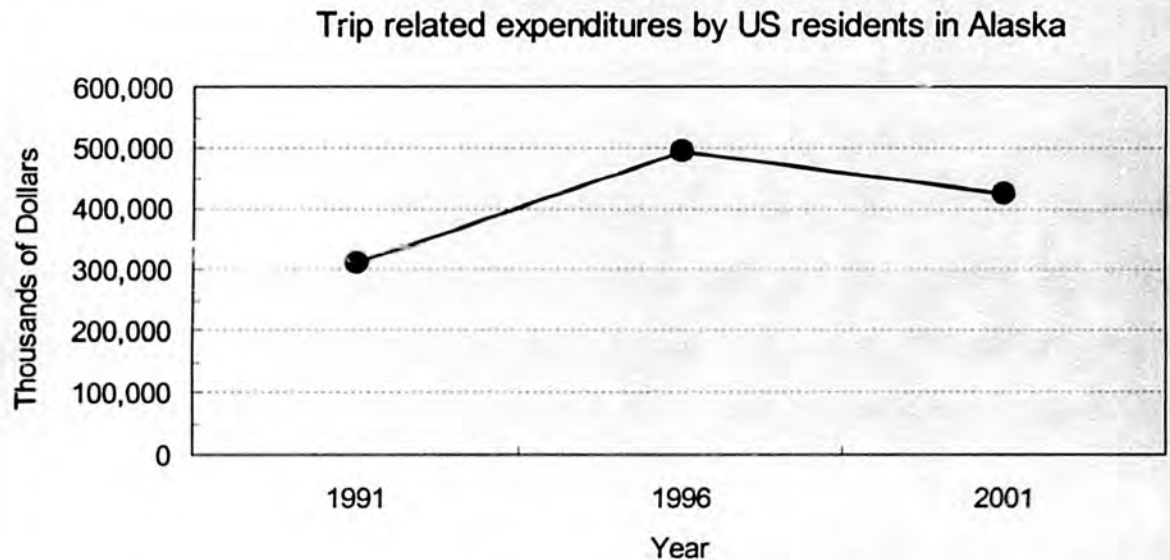
- Target 2: A positive trend in trip related expenditures as measured by the National Survey of Hunting and Fishing



Adults learning to tie flies, Mobile Aquatic Education Classroom.

Sport Fish Targets & Measures

- Target 2: A positive trend in trip related expenditures as measured by the National Survey of Hunting and Fishing
 - Increased over past 10 years



Sport Fish Targets & Measures

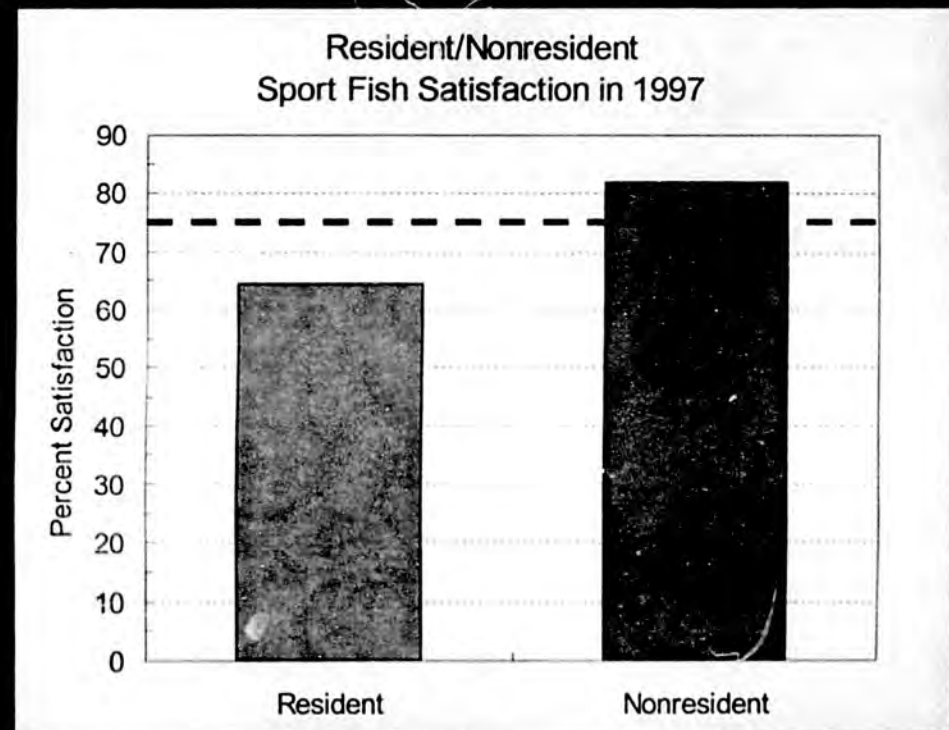
- Target 3: Increase to at least 75% the number of anglers that are satisfied with the variety of recreational fisheries experiences available



Fish printing with students, Kodiak village schools.

Sport Fish Targets & Measures

- Target 3: Increase to at least 75% the number of anglers that are satisfied with the variety of recreational fisheries experiences available
 - 65% residents
 - 82% nonresidents



Types of fisheries

- Sport fisheries



Young angler at Quartz Lake near Fairbanks.

Types of fisheries

- Sport fisheries
- Personal use fisheries



Alaskan families dip netting for salmon, Kenai River.

Types of fisheries

- Sport fisheries
- Personal use fisheries
- Educational fisheries



Kenaitze students studying salmon.

Fisheries diversity

- High-use road-accessible fisheries



Anglers fishing Montana Creek, Parks Highway.

Fisheries diversity

- Remote fisheries



Anglers fishing the Wood River area, Bristol Bay.

Fisheries diversity

- Freshwater fisheries



Angler with a king salmon.

Fisheries diversity

- Saltwater fisheries



Angler with a yelloweye rockfish, Southeast.

Fisheries diversity

- Resident fish species



Young angler with a rainbow trout.

Fisheries diversity

- Shellfish fisheries



Clam diggers at Clam Gulch.

Fisheries diversity

• Winter fisheries



Young angler ice fishing.

Fisheries diversity

- Guided fisheries



Guided anglers fishing the Kenai River.

Fisheries diversity

- Youth-only fisheries



Catch at Campbell Creek youth-only fishery, Anchorage.

FY06 Accomplishments

- Sold \$68 million in bonds for construction of two new fish hatcheries
- Challenged unnecessary expansion of federal subsistence program
- Licensed all sport fishing guides and businesses and implemented more detailed logbook data collection system



Family viewing fingerlings in rearing tank at the Fairbanks pilot hatchery.

FY06 Accomplishments

- Completed 5 access projects and initiated 23 new projects
- Initiated 3 major stock assessment projects for sockeye salmon in Cook Inlet
- Issued permits in special use areas and implemented fish and wildlife habitat research and restoration



Susitna River sockeye study.

Key Challenges for FY08

- Construct new hatcheries approved by the legislature in 2005 and maintain existing hatchery levels until the new hatcheries are done
- Increase satisfaction among resident anglers
- Increase staff recruitment and retention



Fishing for king salmon, King Salmon River, Admiralty Island.

Key Challenges for FY08

- Work with federal agencies on sport halibut issues
- Maintain access to hunting and fishing areas as lands are conveyed or restricted
- Assure resource development minimizes effects on fish and wildlife habitat



Halibut and rockfish catch, Seward.



stock assessment



habitat assessment



hatcheries



management



enforcement



planning & survey



information & education



Estimated Numbers of Sockeye Salmon Above Upper Range of the Escapement Goal and Estimated Value of Unharvested Fish

Source: Alaska Department of Fish and Game, April 24, 2007

	2001		2002		2003		2004		2005		2006		Maximum
	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	Esc. Goal
Southeast Alaska													
Hugh Smith Lake					1,568	\$8,467	1,734	\$8,791	5,800	\$34,684	24,530	\$151,595	18,000
McDonald Lake													100,000
Mainstem Stikine River	855	\$4,540			22,294	\$120,388							40,000
Tahltan Lake					19,587	\$105,770	28,709	\$145,555	12,000	\$71,760	23,855	\$147,424	30,000
Speel Lake													13,000
Taku River	64,286	\$341,359	23,343	\$110,879	80,366	\$433,976	21,235	\$107,661	50,000	\$299,000	67,500	\$417,150	80,000
Redoubt Lake					44,893	\$242,422	52,263	\$264,973	39,500	\$236,210	76,100	\$470,298	25,000
Chilkat Lake													200,000
Chilkoot Lake											6,203	\$38,335	90,000
East Alsek-Doame River					10,440	\$56,376	7,300	\$37,011	24,000	\$143,520	3,000	\$18,540	26,000
Klukshu River			8,587	\$40,788	17,120	\$92,448							15,000
Lost River					747	\$4,034							2,300
Situk River					19,720	\$106,488					20,383	\$125,967	70,000
Annual Total	65,141	\$345,899	31,930	\$151,668	216,735	\$1,170,369	111,241	\$563,992	131,300	\$785,174	221,571	\$1,369,309	
Copper River and PWS	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	
Upper Copper River			56,119	\$387,221					89,485	\$828,631			500,000
Copper River Delta													130,000
Bering River													35,000
Coghill Lake					35,427	\$235,590							40,000
Eshamy Lake	15,187	\$103,575	478	\$3,298							1,823	\$17,264	40,000
Annual Total	15,187	\$103,575	56,597	\$390,519	35,427	\$235,590			89,485	\$828,631	1,823	\$17,264	
Cook Inlet	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	
English Bay			1,777	\$6,273	5,922	\$22,148	1,810	\$7,747			1,954	\$9,829	13,500
Delight Lake			7,005	\$24,728					2,650	\$14,893			12,550
Desire Lake			800	\$2,824							3,400	\$17,102	15,200
Bear Lake	306	\$1,172	141	\$498	1,198	\$4,481			1,985	\$11,156	38	\$191	8,300
Aialik Lake							2,100	\$8,988					8,000
Mikfik Lake			4,500	\$15,885	680	\$2,543	1,870	\$8,004			5,550	\$27,917	12,150
Chenik Lake					4,525	\$16,924	7,706	\$32,982	5,207	\$29,263	4,568	\$22,977	9,300
Amakdedori Creek	90	\$345	600	\$2,118	9,200	\$34,408	4,600	\$19,688					2,600
Crescent River	8,081	\$30,950			52,457	\$196,189	33,000	\$141,240	55,000	\$309,100	22,000	\$110,660	70,000
Fish Creek (Knik)i			20,483	\$72,305	21,952	\$82,100							70,000
Kasilof River	47,000	\$180,010			97,000	\$362,780	325,000	\$1,391,000	96,000	\$539,520	116,000	\$583,480	250,000
Kenai River							120,000	\$513,600	113,000	\$635,060	270,000	\$1,358,100	1,000,000
Russian River Early Run	41,255	\$158,007	48,943	\$172,769			19,582	\$83,811	15,903	\$89,375	43,524	\$218,926	37,000
Russian River Late Run					47,469	\$177,534	244	\$1,044					110,000
Yentna River					20,813	\$77,841							160,000
Annual Total	96,732	\$370,484	84,249	\$297,399	261,216	\$976,948	515,912	\$2,208,103	289,745	\$1,628,367	467,034	\$2,349,181	
Bristol Bay	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	
Kvichak River													10,000,000
Naknek River									745,000	\$2,920,400			2,000,000
Egegik River									222,000	\$870,240	65,000	\$205,400	1,400,000
Ugashik River													1,200,000
Wood River							43,000	\$124,270			2,508,000	\$7,925,280	1,500,000
Igushik River	110,000	\$311,300							66,000	\$258,720	5,000	\$15,800	300,000
Nushagak River	51,000	\$144,330							336,000	\$1,317,120			760,000
Togiak River	103,000	\$291,490			32,000	\$103,040					112,000	\$353,920	200,000
Annual Total	264,000	\$747,120			32,000	\$103,040	43,000	\$124,270	1,369,000	\$5,366,480	2,690,000	\$8,500,400	

-continued-

Estimated Numbers of Sockeye Salmon Above Upper Range of the Escapement Goal and Estimated Value of Unharvested Fish

Source: Alaska Department of Fish and Game, April 24, 2007

	2001		2002		2003		2004		2005		2006		Maximum Esc. Goal
	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	
Westward													
Cinder River	12,950	\$41,958			76,700	\$256,945	43,050	\$140,774	84,000	\$331,800	40,100	\$129,523	12,000
Ilnik River					9,000	\$30,150	22,000	\$71,940	94,000	\$371,300	28,000	\$90,440	60,000
Meshik River	80,500	\$260,820	27,250	\$78,480	74,000	\$247,900	62,200	\$203,394	76,100	\$300,595	94,010	\$303,652	20,000
Sandy River					6,000	\$20,100			41,000	\$161,950			60,000
Bear River Early Run							61,565	\$201,318	39,248	\$155,030			293,000
Bear River Late Run									26,752	\$105,670			195,000
Nelson River			96,689	\$278,464	124,511	\$417,112	261,097	\$853,787	84,000	\$331,800			219,000
Christianson Lagoon					2,200	\$7,370	25,400	\$83,058	4,500	\$17,775			50,000
Swanson Lagoon					100	\$335	8,300	\$27,141					16,000
North Creek			2,100	\$6,048	2,200	\$7,370	7,000	\$22,890	37,000	\$146,150			8,000
Orzinski Lake	11,200	\$36,288	22,849	\$65,805	50,689	\$169,808	55,450	\$181,322	24,797	\$97,948			20,000
Mortensen Lagoon					10,404	\$34,853	815	\$2,665	15,303	\$60,447			6,400
Thin Point Lake	19,900	\$64,476	23,000	\$66,240	12,000	\$40,200	6,500	\$21,255					28,000
Middle Lagoon	13,600	\$44,064	7,000	\$20,160			7,400	\$24,198					32,000
Annual Totals	138,150	\$447,606	178,888	\$515,197	367,804	\$1,232,143	560,777	\$1,833,741	526,700	\$2,080,465	162,110	\$523,615	
Chignik River Early Run	344,013	\$1,713,185											400,000
Chignik River Late Run	142,905	\$711,667	94,519	\$475,431	84,119	\$270,863					118,996	\$624,729	250,000
Annual Totals	486,918	\$2,424,852		\$475,431	84,119	\$270,863					118,996	\$624,729	
Malina Creek	12,490	\$48,461	22,214	\$76,638	2,000	\$6,440	10,000	\$31,700					10,000
Pauls Bay			1,911	\$6,593									30,000
Afognak (Litnik) River													50,000
Karluk River Early Run	128,799	\$499,740	246,842	\$851,605	241,856	\$778,776	183,468	\$581,594	58,301	\$252,443			210,000
Karluk River Late Run	144,739	\$561,587	28,734	\$99,132	246,854	\$794,870			133,661	\$578,752			380,000
Ayakulik River													500,000
Upper Station River													
Early Run	1,795	\$6,965			11,175	\$35,984	13,487	\$42,754					65,000
Upper Station River Late Run													265,000
Frazer Lake	4,349	\$16,874			51,679	\$166,406							150,000
Saltery Lake	15,608	\$60,559	6,336	\$21,859	27,993	\$90,137	24,800	\$78,616					30,000
Pasagshak River							34,400	\$109,048	10,000	\$43,300			12,000
Buskin Lake	7,556	\$29,317	4,174	\$14,400	10,870	\$35,001	9,023	\$28,603	2,468	\$10,686			13,000
Annual Totals	315,336	\$1,223,504	310,211	\$1,070,228	592,427	\$1,907,615	275,178	\$872,314	204,430	\$885,182			
Westward Region													
Annual Totals	1,565,472	\$1,671,110	762,506	\$1,585,425	1,496,273	\$3,410,622	1,396,732	\$2,706,055	1,257,830	\$2,965,647	562,212	\$1,148,344	

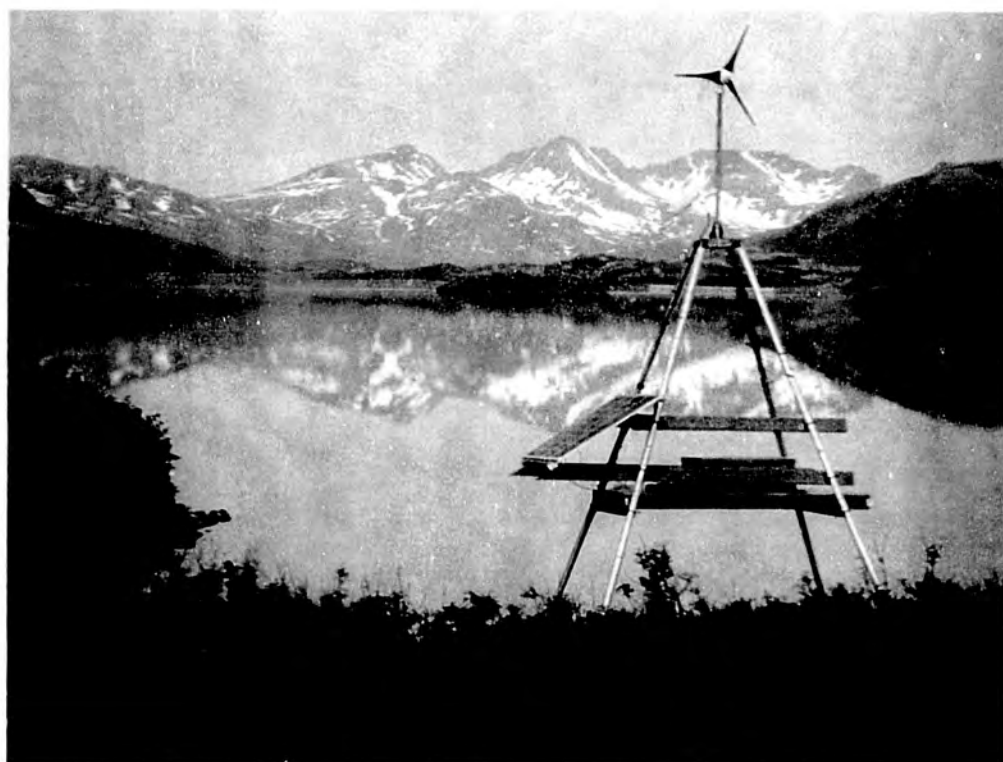
Estimated Pink Salmon Escapements above the Upper Range of the Goal and Estimated Value of Unharvested Fish

Source: Alaska Department of Fish and Game, April 24, 2007

	2001		2002		2003		2004		2005		2006		Max. Esc.
	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	Goal
Southeast Pink Salmon													
Southern Southeast	2,790,043	\$1,283,420	917,922	\$302,914	1,777,173	\$622,011			1,000,000	\$420,000			9,000,000
Northern Southeast Inside					1,209,021	\$423,157			800,000	\$336,000			5,500,000
Northern Southeast Outside	614,404	\$282,626	606,837	\$200,256	2,060,033	\$721,012	396,329	\$142,678	2,050,000	\$861,000	150,000	\$72,000	1,750,000
Annual Totals	3,404,447	\$1,566,046	1,524,759	\$503,170	5,046,227	\$1,766,179	396,329	\$142,678	3,850,000	\$1,617,000	150,000	\$72,000	
PWS	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	
PWS Pink Salmon					107,289	\$38,624			1,919,168	\$806,051			2,750,000
Annual Totals					107,289	\$38,624			1,919,168	\$806,051			
Lower Cook Inlet	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	
Humpy Creek					5,303	\$1,220			8,206	\$2,872			85,550
China Poot Creek									1,023	\$358			8,200
Tutka Creek	2,751	\$1,128	14,184	\$3,404	29,166	\$6,708	16,146	\$5,167	131,900	\$46,165	24,124	\$11,580	1,700
Barabara Creek									5,490	\$1,922			8,950
Seldovia Creek							17,813	\$5,700	59,652	\$20,878	31,095	\$14,926	38,950
Port Graham River			38,677	\$9,282			24,160	\$7,731	49,245	\$17,236	11,323	\$5,435	19,850
Port Chatham					13,979	\$3,215	5,375	\$1,720	23,389	\$8,186	3,210	\$1,541	21,000
Windy Creek Right			3,451	\$828	12,391	\$2,850	1,024	\$328	11,224	\$3,928	6,196	\$2,974	10,950
Windy Creek Left	31,863	\$13,064			52,864	\$12,159			42,081	\$14,728	35,205	\$16,898	29,950
Rocky River	18,701	\$7,667	58,277	\$13,986	233,193	\$53,634			144,421	\$50,547	13,590	\$6,523	54,250
Port Dick Creek			49,772	\$11,945	49,275	\$11,333			63,936	\$22,378			58,300
Island Creek	53,464	\$21,920	15,805	\$3,793	90,337	\$20,778	5,273	\$1,687			79,383	\$38,104	28,300
S. Nuka Island Creek	6,404	\$2,626	561	\$135	27,116	\$6,237							14,250
Desire Lake	47,280	\$19,385	58,210	\$13,970	14,566	\$3,350	4,058	\$1,299	25,780	\$9,023	54,574	\$26,196	20,200
Bear & Salmon Creeks									10,952	\$3,833			23,500
Thumb Cove													8,850
Humpy Cove									11,386	\$3,985			3,200
Tonsina Creek			1,099	\$264					4,072	\$1,425	603	\$289	5,850
Bruin River			1,442,704	\$346,249						\$0	359,364	\$172,495	155,750
Sunday Creek			53,099	\$12,744	317,807	\$73,096	2,647	\$847	87,320	\$30,562	41,187	\$19,770	28,850
Brown's Peak Creek	366	\$150	8,680	\$2,083	266,249	\$61,237			42,183	\$14,764	16,903	\$8,113	18,800
Annual Totals	160,829	\$65,940	1,744,519	\$418,685	1,112,246	\$255,817	76,496	\$24,479	722,260	\$252,791	676,757	\$324,843	
Westward Region	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	No. Fish	Value	
Bechevin Bay Section	4,500	\$1,800					53,300		7,120		85,075	\$26,373	Odd yr 1,600 Even yr 31,000
South Peninsula Total			33,500	\$9,715	2,235,520	\$603,590	4,582,110	\$1,374,633	2,889,934	\$1,011,477			Odd yr 3,275,700 Even yr 3,729,300
Entire Chignik Area	1,186,500	\$474,600	291,053	\$84,405	1,168,617	\$315,527	377,860	\$113,358	414,850	\$145,198			Odd yr 1,177,000 Even yr 737,000
Kodiak Archipelago											86,372	\$18,138	5,000,000
Mainland District			151,925	\$44,058	258,550	\$69,809					28,200	\$5,922	750,000
Annual Totals	1,191,000	\$476,400	476,478	\$138,179	3,662,687	\$988,925	5,013,270	\$1,503,981	3,311,904	\$1,159,166	199,647	\$41,926	

Prepared at the request of the House Fisheries Committee

Success in achieving salmon escapement goals in monitored systems



Alaska Department of Fish and Game

Success in achieving salmon escapement goals in monitored systems

Alaska Department of Fish and Game
Juneau, Alaska

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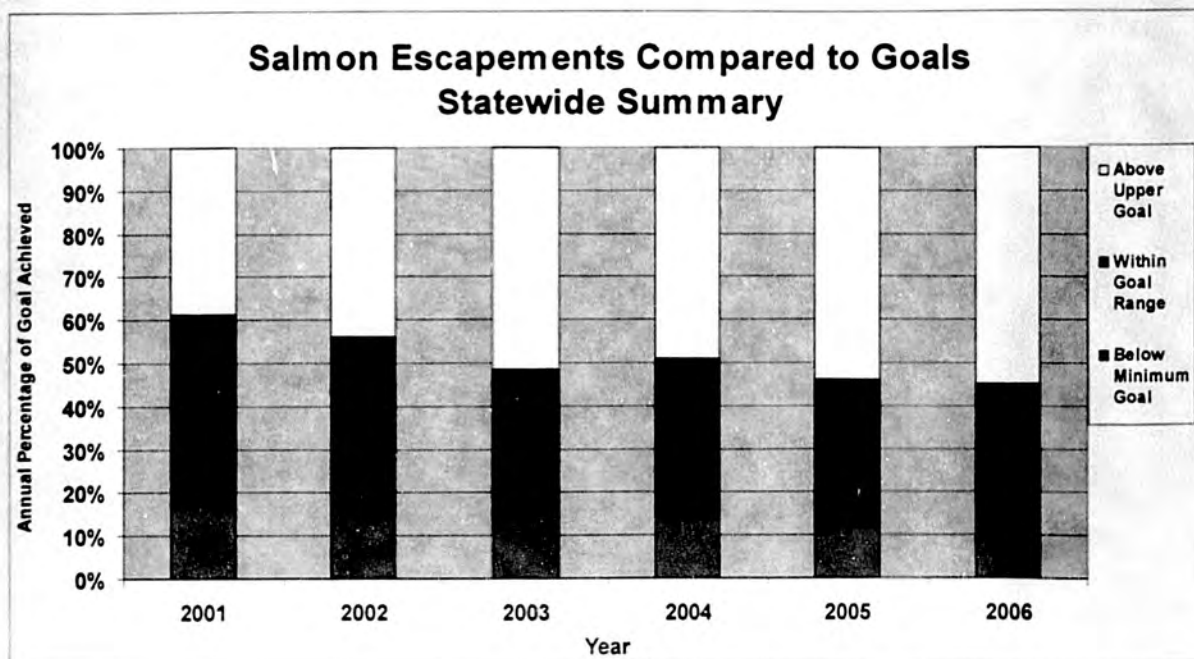
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STATEWIDE SUMMARY



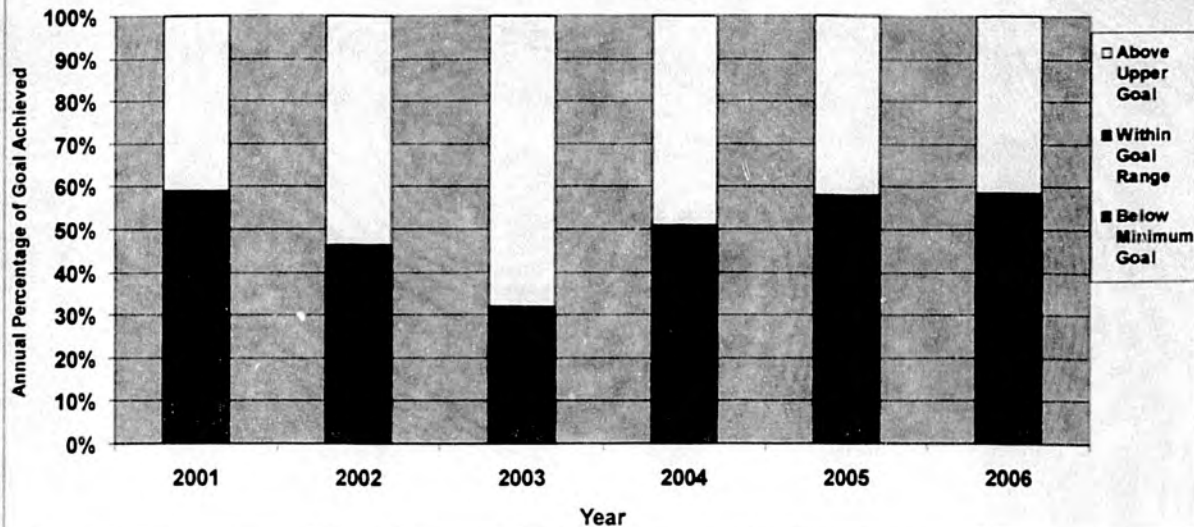
Statewide	2001	2002	2003	2004	2005	2006
Total Stocks	296	298	298	301	269	250
Below Minimum Goal						
Number	50	45	46	43	32	23
Percent	17%	15%	15%	14%	12%	9%
Within Goal Range						
Number	132	123	99	110	92	89
Percent	45%	41%	33%	37%	34%	36%
Above Upper Goal						
Number	114	130	153	148	145	138
Percent	39%	44%	51%	49%	54%	55%

REGIONAL SUMMARIES

REGION 1: SOUTHEAST REGION

Species	Stock	2001	2002	2003	2004	2005	2006
Chinook	Andrew River	A	A	W	A	A	A
	Blossom River	B	B	B	W	W	W
	Chickamin River	A	A	A	W	A	A
	Chilkat River	A	A	A	W	W	W
	Keta River	W	W	W	W	W	A
	King Salmon River	W	W	B	W	W	W
	Klukshu River	W	W	W	A	B	B
	Situk River	W	W	A	W	W	W
	Stikine River	A	A	A	A	A	W
	Taku River	W	W	W	A	W	W
	Unuk River	A	W	W	W	W	W
Sockeye	Akwe River	A	-	-	-	-	-
	Chilkat Lake	A	A	A	A	W	B
	Chilkoot Lake	W	W	W	W	W	A
	East Alsek River	W	W	A	A	A	A
	Hugh Smith Lake	B	B	A	A	A	A
	Klukshu River	W	A	A	W	B	W
	Lost River	W	W	A	W	W	W
	McDonald Lake	B	B	A	B	-	B
	Redoubt Lake	B	W	A	A	A	A
	Situk River	W	W	A	W	W	A
	Speel Lake	W	W	W	W	W	W
	Stikine River	A	W	A	W	W	W
	Tahltan Lake	B	B	A	A	A	A
	Taku River	A	A	A	A	A	A
Coho	Auke Creek	A	A	A	W	W	A
	Berners River	A	A	A	A	W	W
	Steep Creek	A	A	A	B	W	-
	Jordan Creek	W	A	W	B	W	-
	Switzer Cre. h	W	A	A	W	W	-
	Chilkat River	-	-	-	-	-	A
	Ford Arm Lake	W	A	A	A	A	A
	Hugh Smith Lake	A	A	A	W	A	W
	Ketchikan Survey Index Area	A	A	A	A	A	W
	Lost River	W	A	W	W	B	W
	Montana Creek	W	A	W	B	B	W
	Peterson Creek	W	W	W	A	W	A
	Sitka Survey Index Area	A	A	A	A	A	A
	Situk River	W	A	W	A	W	W
	Italo River	-	-	A	A	A	-
	Taku River	A	A	A	A	A	A
	Tsiu River	W	A	A	-	W	W
Pink	NSE Inside	W	W	A	W	A	W
	NSE Outside	A	A	A	A	A	A
	SSE	A	A	A	A	A	W
	Situk River	W	W	A	A	A	W

Salmon Escapements Compared to Goals Southeast Region



Southeast Region	2001	2002	2003	2004	2005	2006
Total Stocks	44	43	44	43	43	41
Below Minimum Goal						
Number	5	4	2	4	4	3
Percent	11%	9%	5%	9%	9%	7%
Within Goal Range						
Number	21	16	12	18	21	21
Percent	48%	37%	27%	42%	49%	51%
Above Upper Goal						
Number	18	23	30	21	18	17
Percent	41%	53%	68%	49%	42%	41%

REGION 2: CENTRAL REGION

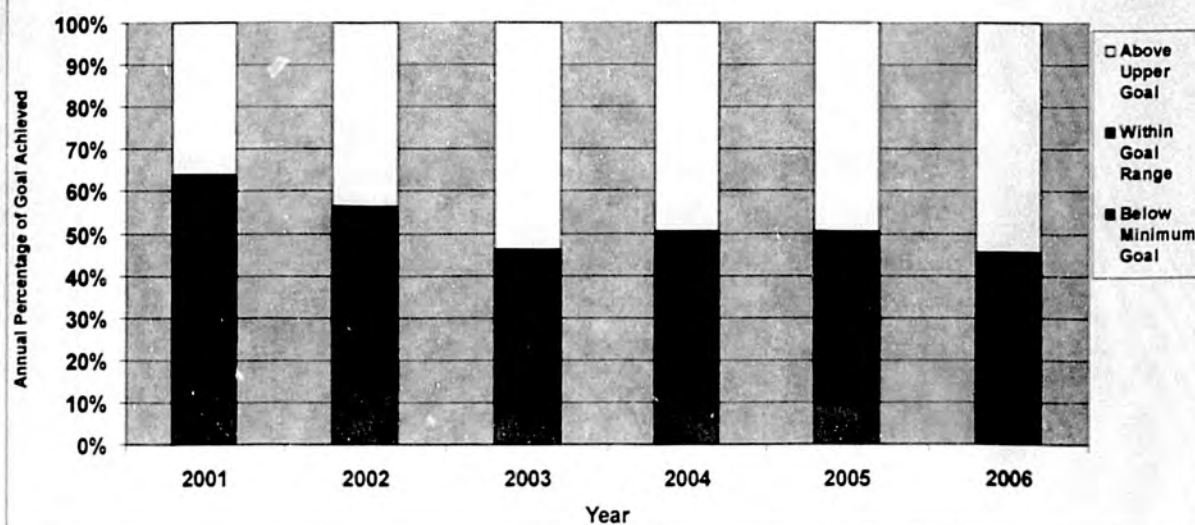
Species	Stock	2001	2002	2003	2004	2005	2006
Prince William Sound							
Chinook	Copper River	A	B	A	A	B	NA
Sockeye	Upper Copper River	W	A	W	W	W	A
	Copper River Delta	W	W	W	W	W	W
	Bering River	B	W	W	W	W	B
	Coghill Lake	W	W	A	W	W	W
	Eshamy Lake	A	A	W	B	W	A
Coho	Copper River Delta	W	A	A	A	A	A
	Bering River	W	A	W	W	A	A
Pink	Even-Year Broodline		B		W		NA
	Odd-Year Broodline	W		A		A	
Chum	Eastern District	W	W	W	W	W	NA
	Northern District	W	W	W	W	W	NA
	Coghill District	W	B	W	W	W	NA
	Northwestern District	W	W	W	W	W	NA
	Southeastern District	W	W	W	W	W	NA
Upper Cook Inlet							
Chinook	Alexander Creek	W	B	B	W	W	B
	Campbell Creek	A	A	A	A	A	A
	Chuitna River	W	W	W	A	W	W
	Chulitna River	W	A		W	W	W
	Clear (Chunilna) Creek	W	A		A	W	W
	Crooked Creek	W	W	A	A	A	W
	Deshka River	W	A	A	A	A	A
	Eagle River, South Fork	W	B	W	B	B	
	Goose Creek		W	B	W	W	W
	Kenai River, Early Run	W	W	W	A	W	
	Kenai River, Late Run	W	W	W	A	W	
	Lake Creek	W	W	A	A	W	W
	Lewis River	W	W	A	A	W	W
	Little Susitna River	W	W	W	W	A	A
	Little Willow Creek	A	W	W	A	W	W
	Montana Creek	W	W	W	W	W	W
	Peters Creek	A	A	A	A	W	W
	Prairie Creek	W	W	W	W	W	W
	Sheep Creek		W		B	W	B
	Talachulitna River	W	A	A	A	W	A
	Theodore River	W	W	W	B	B	A
	Willow Creek	A	W	A	A	W	W
Sockeye	Crescent River	A	W	A	A	A	A
	Fish Creek (Knik)	W	A	A	W	B	A
	Kasilof River	A	W	A	A	A	A
	Kenai River	B	W	A	A	A	A
	Russian River, Early Run	A	A	W	A	A	A
	Russian River, Late Run	W	W	A	A	W	W
	Yentna River	B	B	A	B	B	W
Coho	Campbell Creek	W	A	B	A	A	A
	Jim Creek	A	A	A	A	A	A
	Little Susitna River	A	A	W	A	A	
Pink	No stocks with an escapement goal						
Chum	Clearwater Creek	A	A	W	W		

continued

REGION 2: CENTRAL REGION (continued)

Species	Stock	2001	2002	2003	2004	2005	2006
Bristol Bay							
Chinook	Alagnak River	A	A	A	A	A	
	Egegik River	B	A	A	A	B	
	Naknek River	A	A	A	A	-	
Sockeye	Kvichak River	B	B	B	W	W	W
	Naknek River	W	W	W	W	A	W
	Egegik River	W	W	W	W	A	A
	Ugashik River	W	W	W	W	W	W
	Wood River	W	W	W	A	W	A
	Igushik River	A	B	W	W	A	A
	Nushagak River	A	B	W	W	A	W
	Togiak River	A	W	A	W	W	A
Lower Cook Inlet							
Chinook	Deep Creek	W	W	A	A	A	W
	Ninilchik River	W	W	B	W	W	W
	Anchor River	B	B	B	-	-	
Sockeye	English Bay	W	A	A	A	W	A
	Delight Lake	W	A	W	W	A	W
	Desire Lake	B	A	B	W	B	A
	Bear Lake	A	A	A	W	A	A
	Aialik Lake	W	W	W	A	W	W
	Mikfik Lake	B	A	A	A	B	A
	Chenik Lake	B	W	A	A	A	A
	Amakdedori Creek	A	A	A	A	W	B
Pink	Humpy Creek	W	W	A	W	A	W
	China Poot Creek	W	W	W	W	A	W
	Tutka Creek	B	W	A	A	A	A
	Barabara Creek	W	W	W	W	A	W
	Seldovia Creek	B	W	W	A	A	A
	Port Graham River	W	A	W	A	A	A
	Port Chatham	W	W	A	A	A	A
	Windy Creek Right	W	A	A	A	A	A
	Windy Creek Left	A	W	A	W	A	A
	Rocky River	A	A	A	W	A	A
	Port Dick Creek	W	A	A	B	A	W
	Island Creek	A	A	A	A	A	A
	South Nuka Island Creek	A	A	A	W	W	W
	Desire Lake	A	A	A	A	A	A
	Bear Creek and Salmon Creek	B	B	B	B	A	W
	Thumb Cove	W	W	W	W	W	W
	Humpy Cove	B	W	W	W	A	A
	Tonsina Creek	W	A	W	W	A	A
	Bruin River	B	A	W	W	W	A
	Sunday Creek	W	A	A	A	A	A
	Brown's Peak Creek	A	A	A	W	A	A
Chum	Port Graham River	A	A	W	B	B	W
	Dogfish Lagoon	W	A	A	W	B	A
	Rocky River	W	A	A	A	A	A
	Port Dick Creek	B	A	A	A	A	W
	Island Creek	B	W	A	A	A	B
	Big Kamishak River	A	W	W	A	A	A
	Little Kamishak River	A	W	W	A	W	A
	McNeil River	W	B	W	B	W	A
	Bruin River	A	W	A	A	A	W
	Ursus Cove	A	A	A	A	A	A
	Cottonwood Creek	A	A	A	A	A	A
	Iniskin Bay	A	A	A	A	A	A

Salmon Escapements Compared to Goals Central Region



Central Region	2001	2002	2003	2004	2005	2006
Total Stocks	100	102	99	101	99	86
Below Minimum Goal						
Number	16	12	8	9	10	5
Percent	16%	12%	8%	9%	10%	6%
Within Goal Range						
Number	52	47	42	42	40	34
Percent	52%	46%	42%	42%	40%	40%
Above Upper Goal						
Number	32	43	49	50	49	47
Percent	32%	42%	49%	50%	49%	55%

REGION 3: ARCTIC-YUKON-KUSKOKWIM REGION

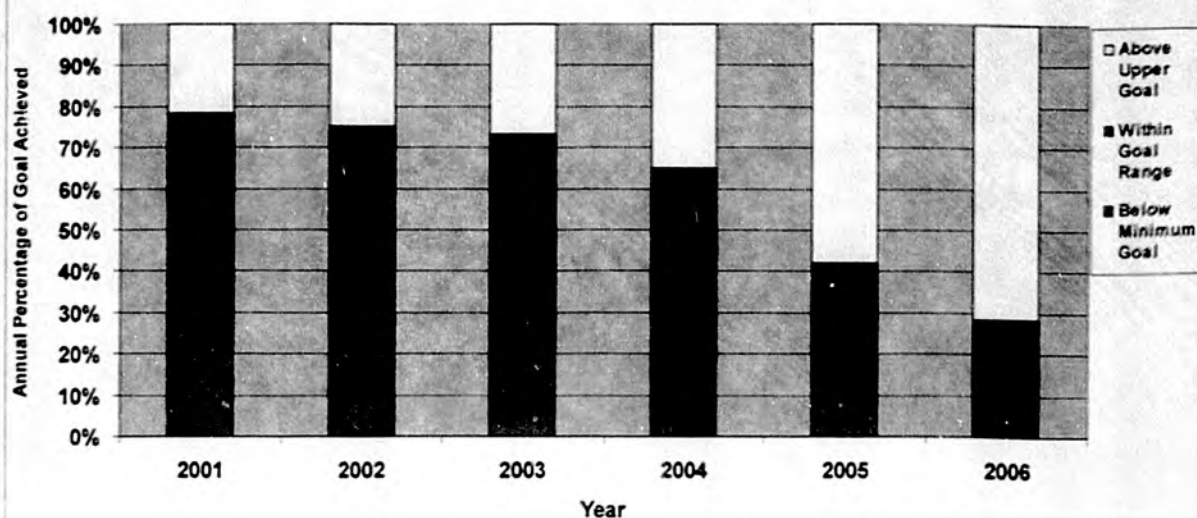
Species	Stock	2001	2002	2003	2004	2005	2006
Norton Sound							
Chinook	Unalakleet River	W	W	W	B	B	N/A
	Fish/Boston River aerial	A	?	W	W	B	?
	Kwiniuk tower	A	A	A	A	W	B
	Shaktoolik River aerial	A	B	B	B	?	?
	North River tower	A	W	W	B	B	B
	Unalakleet/Old Woman River aerial	A	?	?	B	B	?
Sockeye	Salmon Lake/Grand Central aerial	W	B	A	A	A	A
	Glacial Lake aerial	W	B	W	W	A	A
Coho	Kanektok River aerial	W	?	?	?	?	?
	M F Goodnews River weir	W	W	W	W	W	A
	Kogrukuk River Weir	W	W	A	W	W	W
Pink	Nome River weir	W	W	B	W	W	A
	Kwiniuk River tower	W	W	W	W	W	A
	Niukluk River tower	W	W	W	W	W	A
	North River tower	W	W	W	W	W	A
Chum	Subdistrict 1 Aggregate	B	W	B	W	A	A
	Sinuk River aerial	B	A	B	B	W	W
	Nome River weir	B	B	B	W	A	A
	Bonanza River aerial	W	W	B	B	A	B
	Snake River weir	W	A	W	W	A	A
	Solomon River aerial	W	A	B	W	A	A
	Flambeau River aerial	W	A	B	A	A	A
	Eldorado River weir	W	A	B	B	A	A
	Fish/Boston/Niukluk River aerial	W	?	B	B	Discontin	Discontin
	Niukluk River tower	W	W	W	B	B	B
	Kwiniuk River tower	W	A	W	B	W	A
	Tubutuluk River	W	?	B	?	B	?
	Unalakleet/Old Woman River aerial	W	?	?	?	?	?
Yukon							
Chinook	Chena River	A	A	A	A	-	N/A
	Salcha River	A	A	A	A	W	N/A
	E F Andreafsky aerial	?	B	?	A	A	?
	W F Andreafsky aerial	?	B	W	A	W	W
	Anvik aerial	?	W	?	A	A	A
	Nulato aerial	?	W	?	A	B	W
	Gisasa aerial	A	B	?	W	A	W
	Canada Mainstem	A	W	W	W	W	W
Coho	Delta Clearwater River boat/aerial	A	A	A	A	A	W
Chum	E F Andreafsky weir	B	B	B	B	B	W
	Anvik sonar	B	W	B	W	W	W
	Yukon River Drainage	B	A	A	W	A	A
	Tanana River	B	A	A	A	A	A
	Delta River	B	W	A	A	A	A
	Toklat River	B	B	B	W	A	A
	Upper Yukon River Trib.	B	B	W	W	A	A
	Chandalar River	B	W	A	W	A	A
	Sheenjek River	B	B	B	B	A	A
	Fishing Branch River (Canada)	B	B	W	W	A	A
	Yukon River Mainstem (Canada)	B	W	W	W	A	A

continued

REGION 3: ARCTIC-YUKON-KUSKOKWIM REGION (continued)

Species	Stock	2001	2002	2003	2004	2005	2006
Kuskokwim							
Chinook	Goodnews River aerial	?	W	A	A	?	A
	M F Goodnews River weir	?	W	W	W	A	A
	Kanektok River aerial	?	?	W	A	A	A
	Kwethluk aerial	?	W	A	A	A	?
	Kisaralik aerial	?	A	W	A	A	A
	Aniak aerial	?	W	A	A	?	A
	Salmon (Aniak) aerial	?	A	A	A	A	?
	Holitna aerial	?	W	?	A	A	A
	Cheeneetnuk (Stony River) aerial	?	W	W	W	W	W
	Gagaryah (Stony River) aerial	?	W	A	W	W	W
	Salmon (Pitka Fork) aerial	?	W	W	W	A	W
	Kogruklu River Weir	?	W	W	A	A	A
Chum	M F Goodnews River weir	A	W	W	W	W	A
	Kanektok River areial	A	?	?	?	?	A
	Kogruklu River Weir	A	A	W	W	A	A
	Aniak sonar	B	W	W	A	A	A
Kotzebue							
Sockeye	Kanektok River aerial	W	B	A	A	A	A
	Goodnews River aerial	W	?	W	A	?	A
	M F Goodnews River weir	W	B	W	W	A	A
Coho	Kwiniuk River aerial	W	?	W	W	?	?
	Niukluk River/Ophir Creek aerial	W	W	?	W	?	?
	North River aerial	W	B	?	W	A	?
Chum	Noatak and Eli Rivers aerial	W	?	?	B	?	A
	Upper Kobuk w/ Selby River aerial	W	?	W	A	?	?
	Salmon River aerial	W	?	?	?	?	?
	Tutuksuk aerial	W	?	?	?	W	?
	Squirrel aerial	W	?	?	?	?	?

Salmon Escapements Compared to Goals Arctic-Yukon-Kuskokwin Region



AYK Region	2001	2002	2003	2004	2005	2006
Total Stocks	59	60	60	68	60	55
Below Minimum Goal						
Number	15	15	15	13	8	4
Percent	25%	25%	25%	19%	13%	7%
Within Goal Range						
Number	31	30	29	31	17	12
Percent	53%	50%	48%	46%	28%	22%
Above Upper Goal						
Number	13	15	16	24	35	39
Percent	22%	25%	27%	35%	58%	71%

REGION 4: WESTWARD REGION

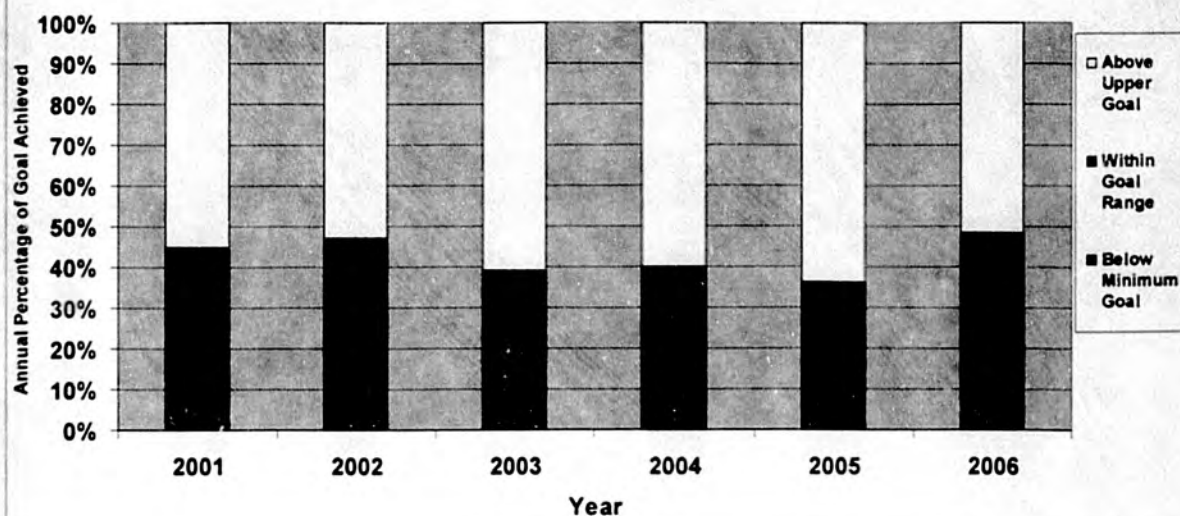
Species		Stock	2001	2002	2003	2004	2005	2006
Kodiak								
Chinook	Nelson River		A	A	W	A	A	W
	Chignik River		A	A	A	A	A	A
Coho	Pasagshak River		A	A	A	A	Nd	B
	Buskin River		A	A	A	A	A	A
	Olds River		A	A	A	A	A	W
	American River		B	A	W	W	B	A
Chignik								
Chinook	Karluk River		W	W	W	A	W	W
	Ayakulik River		A	A	A	A	W	B
Sockeye	Cinder River		A	W	A	A	A	A
	Ilulik River		W	W	A	A	A	A
	Meshik River		A	A	A	A	A	A
	Sandy River		W	W	A	B	A	W
	Bear River Early Run		A	A	A	A	A	W
	Bear River Late Run		A	A	A	B	A	W
	Nelson River		A	A	A	A	A	W
	Christianson Lagoon		W	W	A	A	A	W
	Swanson Lagoon		W	W	A	A	B	B
	North Creek		W	A	A	A	A	W
	Orzinski Lake		A	A	A	A	A	W
	Mortensen Lagoon		A	W	A	A	A	A
	Thin Point Lake		A	A	A	A	W	W
	Middle Lagoon		A	A	W	A	B	B
	McLees Lake		A	A	A			
	Chignik River Early Run		A	W	B	W	W	W
	Chignik River Late Run		A	A	A	W	W	A
	Malina Creek		A	A	W	W	W	W
	Pauls Bay		W	W	W	W	B	B
	Litnik River		B	B	B	B	W	W
	Little River		B	A	A	W		
	Uganik Lake		B	B	W	A		
	Karluk River Early Run		A	A	A	A	A	W
	Karluk River Late Run		W	W	A	B	A	W
	Ayakulik River		W	W	B	W	W	B
	Upper Station River Early Run		W	W	A	A	W	B
	Upper Station River Late Run		B	W	A	W	W	W
	Akalura River		B	B	B	B		
	Frazer Lake		W	B	A	A	W	W
	Saltery Lake		A	A	A	A	W	W
	Pasagshak River		W	W	A	A	A	W
	Buskin Lake		A	A	A	A	A	A
Coho	Nelson River		A	A	A	A	A	A
	Thin Point Lake		A	A	A	A	A	A
	Litnik River		A	A	B	nd		
	Portage Creek		nd	nd	B	W		
	Bear Creek		A	W	A	W		
	Big Bay		W	A	B	W		
	Pauls Lake		A	B	W	B		
	Karluk River		A	A	B	W		
	Ayakulik River		B	A	B	B		
	Upper Station River		W	A	B	A		
	Akalura River		W	A	A	nd		
	Dog Salmon River		B	A	W	nd		
	Saltery Lake		B	B	B	nd		
	Roslyn Creek		W	W	B	B		

continued

REGION 4: WESTWARD REGION (continued)

Species	Stock	2001	2002	2003	2004	2005	2006
Chignik							
Pink	Bechevin Bay Section Index (5 systems) odd year	A		B		A	
	Bechevin Bay Section Index (5 systems) even year		B		A		A
	Southeastern District Mainland Index (45 systems) all years	W	W	A	A	A	A
	Shumagin Islands Section Index (27 systems) all years	W	W	A	A	A	A
	South Central District Index (16 systems) odd year	W		A		A	
	South Central District Index (16 systems) even year		W		A		A
	Southwestern District Index (45 systems) odd year	B		A		A	
	Southwestern District Index (45 systems) even year		A		A		A
	Unimak District Index (10 systems) odd year	B		A		B	
	Unimak District Index (10 systems) even year		B		B		B
	South Peninsula Total even-year		A		A		A
	South Peninsula Total odd-year	W		A		A	
	Unalaska District (17 streams) odd year	W		W			
	Unalaska District (17 streams) even year		B				
	Chignik Bay District Index (3 streams)	A	A	A	A		
	Central District Index (8 streams)	A	B	A	A		
	Eastern District Index (21 streams)	A	A	A	A		
	Western District Index (6 streams)	A	A	A	A		
	Perryville District Index (9 streams)	A	B	B	A		
	Entire Chignik Management Area Peak (Even Years)		A		A		W
	Entire Chignik Management Area Peak (Odd Years)	A		A		A	
	All KMA Districts except the Mainland District					W	A
	Mainland District Index (16 systems) odd year	W		A		B	
	Mainland District Index (16 systems) even year		A		W		A
	Afognak District Index (8 systems, 1 weir) odd year	A		A			
	Afognak District Index (8 systems, 1 weir) even year		W		W		
	Northwest Kodiak District Index (9 systems) odd year	A		A			
	Northwest Kodiak District Index (9 systems) even year		A		A		
	Southwest Kodiak District Index (3 systems) odd year	A		A			
	Southwest Kodiak District Index (3 systems) even year		W		A		
	Alitak Bay District Index (4 systems, 1 weir) odd year	A		A			
	Alitak Bay District Index (4 systems, 1 weir) even year		A		A		
	Eastside Kodiak District Index (7 systems) odd year	A		A			
	Eastside Kodiak District Index (7 systems) even year		A		A		
	Northeast Kodiak District Index (3 systems) odd year	A		A			
	Northeast Kodiak District Index (3 systems) even year		W		A		
Chum	Northern District Index (44 streams)	A	A	W	W	A	A
	Northwestern District Index (25 streams)	W	W	W	A	W	W
	Shumagin Islands Section Index			B	A	A	A
	Southeastern District -Mainland Index (22 streams)	A	A	A	A	A	A
	Southeastern District Index (incl. Shumagin and SEDM indices)	A	A	A	A	A	A
	South Central District Index (13 streams)	W	W	B	A	A	A
	Southwestern District Index (23 streams)	A	A	W	W	A	A
	Unimak District Index (3 streams)	B	W	B	B	A	A
	Chignik Bay District Index (3 streams)	A	B	B	B	A	A
	Central District Index (6 streams)	B	B	A	B	A	B
	Eastern District Index (20 streams)	A	A	A	A	A	A
	Western District Index (6 streams)	A	A	A	B	A	A
	Perryville District Index (7 streams)	A	B	A	B	A	A
	Entire Chignik Area	A	A	A	A	A	A
	Mainland District Index (17 streams)	W	W	B	W	B	A
	Northwest Kodiak District Index (8 streams)	A	W	W	B	B	B
	Southwest Kodiak District Index (1 stream)	B	W	B	B	B	A
	Alitak Bay District Index (6 streams)	W	W	W	W	A	B
	Eastside Kodiak District Index (16 streams)	W	A	W	W	A	A
	Northeast Kodiak District Index (~18 streams)	W	W	B	B	B	A

Salmon Escapements Compared to Goals Westward Region



Westward Region	2001	2002	2003	2004	2005	2006
Total Stocks	93	93	95	89	67	68
Below Minimum Goal						
Number	14	14	21	17	10	11
Percent	15%	15%	22%	19%	15%	16%
Within Goal Range						
Number	28	30	16	19	14	22
Percent	30%	32%	17%	21%	21%	32%
Above Upper Goal						
Number	51	49	58	53	43	35
Percent	55%	53%	61%	60%	64%	51%

Commfish?
Lefoux

① get #s cleaned up
on employment
→ 932 - million in Direct
to count 370 million to Alaska
→ Northern Econ study
to

② S. L. Corp. ^{to}
entire level budget - Range 15
State
Federal 20-40% more

→ 2005 methodology
→ 2006 methodology

→ Comparison data between
State/Fed biologist John
③ Biologist w/in F/G SP. / Commish

Section

- ④ 1. Story of Perfun in
Retire / Retiree Program
w/ explanation of why
PSS not relevant for
Fitch & N. rural practices

Section

- ⑤ Comm Fitch rap at
hearing on Hodel's
Tim / Atti

Section

- ⑥ Direct Market report
practices? Get back
(line practice)

Section

- ⑦ #5 w/in range
then we can identify
what added tools
into 68 river system

LeDoux

- ⑦ info - How much
aggregated \$ with the
parent holders entire
AK vs. RESB

Holms →

- ⑧ procedure to
parent Aquatic Farms
(bullet pt)

Activities of parent appear
for 69 can person
f. out for out of
State ?

1

Lisa Evans
 Monica Wilton
 John McKinnon
 Tom Larkin

sp. +
 fsh

- Port Rich
 Elmore

-0.015
 30 yrs
 2.1d

2 in replaced by

one

Stock assessment techniques?

Sp. rt fish

Income + 3 million
FV 07.

3 million ↑ G.F.
PERS

R.S.A. = Reimbursable
SVCS Agreement.

① Comm. fish - Jensen
Question - Johnson
↑ 5.9 thousand

② Number pages it

Pamphlet
- research/presentation - exhibits
- Review Reports

2 yachts only Adms

1 in Home

1 in

Bands sell through
Merrill Lynch

— Revenue Bands
1 in license fee

(3) Start fish
Research people
Come in to talk
about Methods

~~of stock assessment~~

Set
up over
view
when
Govt
federal

(4) ADf/G opinion on
IPHC Set by
limits

— State No authority to set

by limits for Halls

— ? Does IPHC have

authority to the inter
~~to~~ + Albedin

Legal opinion? or

Document? Privy to
Cannibin — Rob Berte
