

ALASKA LEGISLATIVE SUBJECT FILE
1833 COMM 74: SEN. SPEC. COMM. ON
& INTL. FIS. 1991-92. 50

<u>REGION</u>	<u>STATUS</u>	<u>LOCATION</u>	<u># OF EGGS OR FISH PERMITTED</u>
<u>SCIENTIFIC OR EDUCATIONAL PERMITS</u>			
<u>Northern Southeast</u>			
5. USDA Forest Service P.O. Box 135 Hoonah, AK 99829 Attn: John McDonell	Sci/Ed Permit F-91-046	Game Creek and Suntaheen Creek	60 adult coho salmon to be obtained from lower Game Creek for an egg take. Eggs will be incubated at Medvejie Hatchery. Resultant fry will be released into upper Suntaheen Creek. CWT is being done.
<u>Prince William Sound</u>			
1. University of Alaska Seward Marine Center P.O. Box 730 Seward, AK 99664 Attn: Dr. Sven Ebbesson	Sci/Ed Permit F-91-028	Seward	2000 coho presmolt to be obtained from Crooked Creek or Trail Lakes Hatcheries. Coho will be sacrificed for experimental purposes.
<u>Cook Inlet</u>			
1. Houston Junior/Senior High School Mat-Su School Dist. 125 W. Evergreen Palmer, AK 99645 Attn: Gary Moore	Sci/Ed Permit F-91-004	Palmer	250 coho salmon eggs are be obtained from Big Lake Hatchery and reared in a classroom incubation project. Resultant fry will be released into Rocky Lake w/supervision.
2. Palmer High School 1170 Arctic Avenue Palmer, AK 99645 Attn: Nancy Sallee Patricia Chesbro	Sci/Ed Permit F-91-005	Palmer	250 coho salmon eggs are to be obtained from Big Lake Hatchery and reared in a classroom incubation project. Resultant fry will be released into Rocky Lake under supervision of ADF&G.

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<u>Cook Inlet</u>			
3. Susitna Elementary School Anchorage School District 7500 Tyone Court Anchorage, AK 99504 Attn: David A. Gillam	Sci/Ed Permit F-91-007	Anchorage	250 coho salmon eggs are to be obtained from Big Lake Hatchery and reared in a classroom incubation project. Resultant fry will be released into Waldon Pond under supervision of ADF&G.
4. East High School Anchorage School District 4025 East Northern Lights Blvd Anchorage, AK 99508 Attn: Jan Heinrich	Sci/Ed Permit F-91-010	Anchorage	500 coho salmon fingerling are to be obtained from Fort Richardson Hatchery to be classroom experiments. The fish will be destroyed.
5. Colony Middle School Mat-Su School District 125 W. Evergreen Palmer, AK 99645 Attn: John Brown	Sci/Ed Permit F-91-011	Palmer	250 coho salmon eggs are to be obtained from Big Lake Hatchery and reared in a classroom incubation project. Resultant fry will be released into Rocky Lake under supervision of ADF&G.
6. Girdwood Junior High School Anchorage School District P.O. Box 187 Girdwood, AK 99587 Attn: Mary Klopfer	Sci/Ed Permit F-91-013	Girdwood	1,000 eyed coho eggs to be obtained from Elmendorf Hatchery and reared in a classroom incubation project. Resultant fry will be released into Portage Valley Lake under supervision of ADF&G.
7. Wasilla High School 701 Bogard Road Wasilla, AK 99687 Attn: Matt Weaver	Sci/Ed Permit F-91-014	Wasilla	250 coho salmon eggs are to be obtained from Big Lake Hatchery and reared in a classroom incubation project. Resultant fry will be released into Rocky Lake under supervision of ADF&G.

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<u>Cook Inlet</u>			
8. Homer Intermediate School 360 W. Pioneer Ave Homer, AK 99603 Attn: Mike Cline Bill Morisette	Sci/Ed Permit F-91-015	Homer	250 pink salmon eggs are to be obtained from Tutka Hatchery and reared in a classroom incubation project. Resultant fry will be released at Homer Spit under supervision of ADF&G.
9. Chugiak High School P.O. Box 770218 Eagle River, AK 99577 Attn: Andrew Sullivan	Sci/Ed Permit F-91-018	Eagle River	250 coho salmon eggs are to be obtained from Big Lake Hatchery and reared in a classroom incubation project. Resultant fry will be released at Waldon Pond under supervision of ADF&G.
10. Homer High School Kenai Peninsula Borough School District 600 E Fairview Homer, AK 99603 Attn: Al Poindexter	Sci/Ed Permit F-91-023	Homer	1,000 pink salmon eggs are to be obtained from Tutka Hatchery and reared in a classroom incubation project. Resultant fry will be released at Homer Spit under supervision of ADF&G.
11 Port Graham Village Council Port Graham, AK 99603 Attn: Elenore McMullen, Chief	Sci/Ed Permit F-91-026	Port Graham	250,000 eyed pink salmon eggs obtained from the Tutka Hatchery and reared at Port Graham. To determine the potential of a production pink salmon hatchery in Port Graham. Resultant fry will be released in Port Graham Bay.

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<u>Cook Inlet</u>			
12 Big Lake Elementary Mat-Su School District P.O. Box 520049 Big Lake, AK 99687 Attn: Theresa Slaven	Sci/Ed Permit F-91-027	Big Lake	250 coho salmon eggs to be obtained from Big Lake Hatchery and reared in a classroom incubation project. Resultant fry will be released at Rocky Lake under supervision of ADF&G.
13 Inlet View Elementary School 1219 "N" Anchorage, AK 99501 Attn: John Butler Ed Brewer	Sci/Ed Permit F-91-033	Anchorage	50 coho salmon eggs to be obtained from Elmendorf Hatchery and reared in a classroom incubation project. Resultant fry will be destroyed.
14 Gruening Middle School Anchorage School District Lee Street Eagle River, AK 99577 Attn: Clifford Johnson	Sci/Ed Permit F-91-040	Eagle River, AK	250 coho salmon eggs to be obtained from Big Lake Hatchery and reared in a classroom incubation project. Resultant fry will be released into Waldon Pond under supervision of ADF&G.
<u>Interior</u>			
1. Delta/Greely School District Delta Junction, AK 99137 Attn: Rick Johnson	Sci/Ed Permit F-91-024	Delta Clearwater River	8 adult coho salmon are to taken for egg take at Delta Delta Clearwater River. Eggs will be incubated in classroom incubation project. Resultant fry will be released back into Delta Clearwater River under supervision of ADF&G.

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<u>Interior</u>			
2. North Pole Middle School Fairbanks North Star Borough School District 1300 Minnie Street Fairbanks, AK 99701 Attn: Jeffrey James Jacobson	Sci/Ed Permit F-91-025	Delta River	10 adult chum salmon are to be taken for egg take at Delta River. Eggs will be incubated at the school hatchery. Resultant fry will be released into the Delta River under supervision of ADF&G.
3. Cominco Alaska, Inc. Red Dog Mine P.O. Box 1230 Kotzebue, AK 99752 Attn: Lisa Parker	Sci/Ed Permit F-91-032	Red Dog Creek	1000 Arctic char and 100 Rainbow trout to be obtained from Fort Richardson and Clear Hatcheries. Fish are used in continuous flow-through biomonitoring facility as required by NPDES permit AD-003865-2.
4. Russian Mission School Lower Yukon School District P.O. Box 90 Russian Mission, AK 99657 Attn: Steve Hackett	Sci/Ed Permit F-91-041	Russian Mission, AK	60 coho fry to be obtained from Fort Richardson Hatchery and reared in a classroom incubation project. The fry will be destroyed.
<u>Alaska Peninsula</u>			
1. Aleutian East Borough School District P.O. Box 429 Sand Point, AK 99661 Attn: Ray Vergin	Sci/Ed Permit F-91-002	Humbolt Creek, Sand Point	10 adult coho salmon taken for eggs to be incubated in an instream incubator. This is a district high school program. Some eggs will be kept in a classroom aquarium to monitor development and record data. The later resultant fry will be destroyed.

REGIONSTATUSLOCATION# OF EGGS OR
FISH PERMITTEDSCIENTIFIC OR EDUCATIONAL PERMITSAlaska Peninsula

2. Sand Point Schools
P.O. Box 269
Sand Point, AK 99661
Attn: Patricia Jenkins

Sci/Ed Permit F-91-003

Humbolt Creek, Sand Point

40 pink salmon and 35 coho salmon adults for eggs to be incubated in school hatchery. Resultant fry will be released back into Humbolt Creek.

3. Unalaska City School District
P.O. Box 260
Unalaska, AK 99685
Attn: Debra S. Alden

Sci/Ed Permit F-91-035

Unalaska Stream

30 pink salmon and 20 coho salmon adults for egg to be incubated in school hatchery. Resultant fry will be released back into Unalaska Stream.

Arctic/Yukon/Kuskokwim

1. Nome-Beltz School
Nome School District
P.O. Box 131
Nome, AK 99762
Attn: Steve Garrison

Sci/Ed Permit F-91-009

Snake River, Nome
Shovel Creek, Nome

50 adult coho salmon taken from Snake River. Eggs will be reared in school hatchery project. Resultant fry may be released after pre-inspection by ADF&G Pathology Section.

**STATE OF ALASKA
DEPARTMENT OF FISH AND GAME
DIVISION OF FISHERIES REHABILITATION, ENHANCEMENT
AND DEVELOPMENT (FRED)**

AREA	HATCHERY NAME, ADDRESS, PHONE NUMBER, & MANAGER	SPECIES
Ketchikan	Beaver Falls Hatchery 2030 Sea Level Drive, Suite 205 Ketchikan, AK 99901 <u>Manager:</u> Southern Southeast Regional Aquaculture Association* <u>Phone:</u> (907)225-9605 <u>Fax:</u> (907)225-1348	Sockeye salmon
Big Lake	Big Lake Hatchery P.O. Box 520455 Big Lake, AK 99652-0455 <u>Manager:</u> Dan Moore <u>Phone:</u> (907)892-6816 <u>Fax:</u> (907)892-7513	Sockeye and coho salmon
Whittier (remote) (Northern Prince William Sound)	Cannery Creek Hatchery P.O. Box 788 Whittier, AK 99693-0788 <u>Manager:</u> Prince William Sound Aquaculture Corporation* <u>Phone:</u> (907)424-7511, 7512 <u>Fax:</u> (907)424-7514	Pink and chum salmon
Clear (60 miles SW of Fairbanks)	Clear Hatchery P.O. Box 40219 Clear, AK 99704-0219 <u>Manager:</u> Dave Parks <u>Phone:</u> (907)582-2964 <u>Fax:</u> none	Rainbow and lake trout, Arctic grayling, Arctic char, and sheefish
Kasilof (Kenai Peninsula)	Crooked Creek Hatchery P.O. Box 430, Route 2 Kasilof, AK 99610-0430 <u>Manager:</u> Bob Och <u>Phone:</u> (907)262-4159 <u>Fax:</u> none	Sockeye, coho, and chinook salmon, and steelhead trout

* Hatchery operations contracted to private aquaculture association. See last page for address.

AREA	PHONE NUMBER, & MANAGER	SPECIES
Petersburg	Crystal Lake Hatchery P.O. Box 1088 Petersburg, AK 99833-1088 <u>Manager:</u> Jim Billi <u>Phone:</u> (907)772-4772 <u>Fax:</u> (907)772-9336	Chinook and coho salmon, and steelhead trout
Ketchikan	Deer Mountain Hatchery 2030 Sea Level Drive, Suite 205 Ketchikan, AK 99901 <u>Manager:</u> David Bright <u>Phone:</u> (907)225-6760 <u>Fax:</u> (907)225-0599	Chinook and coho salmon, and steelhead trout
Anchorage (Elmendorf AFB)	Elmendorf Hatchery 716 Steel Street Anchorage, AK 99501 <u>Manager:</u> Darrell Keifer <u>Phone:</u> (907)274-0065 <u>Fax:</u> (907)274-0065 (call first)	Chinook and coho salmon
Anchorage	Fort Richardson Hatchery P.O. Box 5-337 Fort Richardson, AK 99505-0337 <u>Hatchery Manager:</u> Gary Wall <u>Rainbow Trout Broodstock Development</u> <u>Leader:</u> Irv Brock <u>Phone:</u> (907)428-1347, 1348 <u>Fax:</u> (907)428-3548	Rainbow and steelhead trout, and chinook and coho salmon
Glennallen	Gulkana Hatchery P.O. Box 47 Glennallen, AK 99588-0047 <u>Manager:</u> Ken Roberson <u>Phone:</u> (907)822-5520 <u>Fax:</u> (907)822-3811	Sockeye and chinook salmon
Sitka (remote) (Eastern Baranof Island)	Hidden Falls Hatchery 1308 SMC Road Sitka, AK 99835 <u>Manager:</u> Northern Southeast Regional Aquaculture Association* <u>Phone:</u> (907)788-3215 <u>Fax:</u> (907)747-1470	Chum, coho, and chinook salmon

* Hatchery operations contracted to private aquaculture association. See last page for address.

AREA	PHONE NUMBER, & MANAGER	SPECIES
Kodiak (remote) (Afognak Island)	Kitot Bay Hatchery* 211 Mission Road Kodiak, AK 99615-6399 <u>Manager:</u> Tim Joyce <u>Phone:</u> (907)269-5467 <u>Fax:</u> (907)269-5468	Pink, chum, sockeye, and coho salmon, and rainbow trout
Klawock (Prince of Wales Island)	Klawock Hatchery P.O. Box 101 Klawock, AK 99925-0101 <u>Manager:</u> Steve Hansen <u>Phone:</u> (907)755-2232 <u>Fax:</u> (907)755-2440	Coho and sockeye salmon, and steelhead trout
Baranof Island (remote)	Little Port Walter Research Station Little Port Walter P.O. Box 9040 Sitka, AK 99835-9040 <u>Manager:</u> Frank Thrower (NMFS & ADF&G)** <u>Phone:</u> Marine Radio WRY8219 <u>Fax:</u> none	Chinook salmon and steelhead trout (pen-reared)
Cordova (remote) (Northwestern Prince William Sound)	Main Bay Hatchery P.O. Box FLJ Cordova, AK 99574 <u>Manager:</u> Prince William Sound Aquaculture Corporation* <u>Phone:</u> (907)269-5451 <u>Fax:</u> (907)269-5452	Sockeye and pink salmon
Kodiak	Pillar Creek Hatchery 211 Mission Road Kodiak, AK 99615-6399 <u>Manager:</u> Chris Clevenger <u>Phone:</u> (907)486-4791	Sockeye salmon
Cold Bay (Alaska Peninsula)	Russell Creek Hatchery P.O. Box 50 Cold Bay, AK 99571-0050 <u>Manager:</u> Richard (Butch) Cobb <u>Phone:</u> (907)532-2373 <u>Fax:</u> (907)532-2450	Sockeye and pink salmon

* Hatchery contracted to Kodiak Regional Aquaculture Association; state employees in charge of hatchery operations.

** Experimental research station jointly funded by the FRED Division and the National Marine Fisheries Service.

AREA	PHONE NUMBER, & MANAGER	SPECIES
Kotzebue (remote) (Noatak River)	Sikusilaq Springs Hatchery P.O. Box 686 Kotzebue, AK 99752-0686 <u>Manager:</u> Peter Rob <u>Phone:</u> (907)485-2160 <u>Fax:</u> (907)485-2160 (call first)	Chum salmon
Juneau (remote)	Snettisham Hatchery P.O. Box 20 Douglas, AK 99824-0020 <u>Manager:</u> John McNair <u>Phone:</u> (907)586-3838-11 <u>Fax:</u> (907)586-3838-34	Chum, coho, sockeye, and chinook salmon
Moose Pass (Kenai Peninsula)	Trail Lakes Hatchery P.O. Box 49 Moose Pass, AK 99631-0049 <u>Manager:</u> Cook Inlet Aquaculture Association* <u>Phone:</u> (907)288-3606 <u>Fax:</u> (907)283-9433	Sockeye, chinook, and coho salmon
Homer (remote) (Kachemak Bay)	Tutka Lagoon Hatchery 3298 Douglas Street Homer, AK 99603-1942 <u>Manager:</u> Cook Inlet Aquaculture Association* <u>Phone:</u> (907)235-8486 <u>Fax:</u> (907)235-8486 (call first)	Pink, chum, and sockeye salmon

* Hatchery operations contracted to private aquaculture association. See last page for address.

ASSOCIATIONS CURRENTLY CONTRACTED TO OPERATE SEVEN STATE FACILITIES

Cook Inlet Aquaculture Association

HC 2, Box 849

Soldotna, AK 99669-9707

Office: (907)283-5761

Fax: (907)283-9433

Tom Mears, Executive Director

State Hatcheries Operated: Trail Lakes Hatchery and Tutka Hatchery

Kodiak Regional Aquaculture Association

P.O. Box 3407

Kodiak, AK 99615

Office: (907)486-6555

Fax: (907)486-5932

Larry Malloy, Executive Director

Norma Holt, Administrative Assistant

State Hatchery Operated (partially): Kitoi Bay Hatchery

Northern Southeast Regional Aquaculture Association

1308 SMC Road

Sitka, AK 99835

Office: (907)747-6850

Fax: (907)747-1470

Peter Esquiro, General Manager

State Hatchery Operated: Hidden Falls Hatchery

Prince William Sound Aquaculture Corporation

P.O. Box 1110

Cordova, AK 99574

Office: (907)424-7511, 7512

Fax: (907)424-7514

Bruce Suzumoto, President

State Hatcheries Operated: Cannery Creek Hatchery and Main Bay Hatchery

Southern Southeast Regional Aquaculture Association

1621 Tongass Avenue, #103

Ketchikan, AK 99901

Office: (907)225-9605

Fax: (907)225-1348

Donald F. Amend, General Manager

State Hatchery Operated: Beaver Falls Hatchery

HATCHERIES IN ALASKA

AREA	HATCHERY NAME, ADDRESS PHONE NUMBER, AND REPRESENTATIVE/MANAGER	SPECIES
Ketchikan	Beaver Falls Hatchery c/o Southern Southeast Regional Aquaculture Association 1621 Tongass Avenue, #103 Ketchikan, AK 99901 <u>Representative:</u> Donald F. Amend <u>Phone:</u> (907)225-9605 <u>Fax:</u> (907)225-1348	Sockeye and chinook salmon
Ketchikan	Bell Island Hatchery c/o American Aquaculture Corporation P.O. Box 6338 Ketchikan, AK 99901 <u>Representative:</u> Robert Campbell <u>Phone:</u> (907)225-8751	Chinook and coho salmon and steelhead trout
Wrangell	Burnett Inlet Hatchery c/o Alaska Aquaculture, Inc. P.O. Box 1288 Wrangell, AK 99929 <u>Representative:</u> Tod Jones <u>Phone:</u> (907)874-2250	Pink, chum, coho, and chinook salmon
Skagway	Burro Creek Hatchery c/o Burro Creek Farms P.O. Box 455 Skagway, AK 99840 <u>Representative:</u> Eugene W. Richards <u>Phone:</u> (907)983-2355	Pink, chum, coho, and chinook salmon
Soldotna (Matanuska Valley)	Eklutna Hatchery c/o Cook Inlet Aquaculture Association HC 2, Box 849 Soldotna, AK 99669-9707 <u>Manager:</u> Loran Waldron <u>Phone:</u> (907)745-5692 <u>Fax:</u> (907)283-9433	Pink, chum, coho, and chinook salmon
Cordova	Esther Lake Hatchery (Wally Noerenberg Hatchery) c/o Prince William Sound Aquaculture Corporation P.O. Box 1110 Cordova, AK 99574 <u>Representative:</u> Bruce Suzumoto <u>Phone:</u> (907)424-7511 <u>Fax:</u> (907)424-7514	Pink, chum, coho, chinook, and sockeye salmon

AREA	PHONE NUMBER, AND REPRESENTATIVE/MANAGER	SPECIES
Juneau	Gastineau Channel Hatchery c/o Douglas Island Pink and Chum, Inc. 2697 Channel Drive Juneau, AK 99801 <u>Representative:</u> Ladd Macaulay <u>Phone:</u> (907)463-5114 <u>Fax:</u> (907)463-3213	Pink, chum, and coho salmon
Kake (Kupreanof Island)	Gunnuk Creek Hatchery c/o Kake Nonprofit Fisheries Corporation P.O. Box 523 Kake, AK 99830 <u>Manager:</u> Brock Meredith <u>Phone:</u> (907)785-6460	Pink and chum salmon
Juneau	Kowee Creek Hatchery c/o Douglas Island Pink and Chum, Inc. 2697 Channel Drive Juneau, AK 99801 <u>Representative:</u> Ladd Macaulay <u>Phone:</u> (907)586-4041 <u>Fax:</u> (907)463-3213	Steelhead trout
Sitka	Medvejie Creek Hatchery c/o Northern Southeast Regional Aquaculture Association 1308 SMC Road Sitka, AK 99835 <u>Manager:</u> Dail Hurdlow <u>Phone:</u> (907)747-5863 <u>Fax:</u> (907)747-1470	Chum, coho, pink, and chinook salmon
Cleveland Peninsula	Meyers Chuck Hatchery c/o Meyers Chuck Aquaculture Association 5001 Nottingham Way Anchorage, AK 99501 <u>Manager:</u> Robert M. Meyer <u>Phone:</u> (907)261-4625	Pink, coho, and chum salmon
Revillagigedo Island	Neets Bay Hatchery c/o Southern Southeast Regional Aquaculture Association 1621 Tongass Avenue, #103 Ketchikan, AK 99901 <u>Manager:</u> Ron Neterer <u>Phone:</u> (907)247-8790 <u>Fax:</u> (907)225-1348	Chum, coho, and chinook salmon

AREA	PHONE NUMBER, AND REPRESENTATIVE/MANAGER	SPECIES
Baranof Island	Port Armstrong Hatchery c/o Armstrong-Keta, Inc. P.O. Box 21990 Juneau, AK 99802 <u>Manager:</u> Wm. Ritchie Phillips <u>Phone:</u> (907)586-3443	Pink, chum, coho, and chinook salmon
Kake (Kuiu Island)	Port Camden Streamside Incubation Facility c/o Northern Southeast Regional Aquaculture Association 1308 SMC Road Sitka, AK 99835 <u>Representative:</u> Pete Esquiro <u>Phone:</u> (907)747-6850 <u>Fax:</u> (907)747-1470	Chum salmon
Cordova (Evans Island)	Port San Juan Hatchery (AFK Hatchery) c/o Prince William Sound Aquaculture Corporation P.O. Box 1110 Cordova, AK 99574 <u>Representative:</u> Bruce Suzumoto <u>Phone:</u> (907)424-7511, 7512 <u>Fax:</u> (907)424-7514	Pink and chum salmon
Juneau	Sheep Creek Hatchery c/o Douglas Island Pink and Chum, Inc. 2697 Channel Drive Juneau, AK 99801 <u>Representative:</u> Ladd Macaulay <u>Phone:</u> (907)586-3663 <u>Fax:</u> (907)463-3213	Pink, chum, and coho salmon
Sitka	Sheldon Jackson College Aquaculture Program P.O. Box 479 Sitka, AK 99835 <u>Manager:</u> Bill Coltharp <u>Phone:</u> (907)747-5209	Pink, chum, coho, and chinook salmon and steelhead trout
Valdez	Solomon Gulch Hatchery c/o Valdez Fisheries Development Association P.O. Box 125 Valdez, AK 99686 <u>Manager:</u> Paul McCollum <u>Phone:</u> (907)835-4874	Pink, chum, coho, and chinook salmon

AREA**PHONE NUMBER, AND
REPRESENTATIVE/MANAGER****SPECIES**

Ketchikan

Whitman Lake Hatchery
c/o Southern Southeast Regional
Aquaculture Association
1621 Tongass Avenue, #103
Ketchikan, AK 99901
Manager: Jay Creasy
Phone: (907)225-2635
Fax: (907)225-1348

Chum, coho, chinook,
and sockeye salmon

STATE HATCHERIES CONTRACTED TO THE STATE OF ALASKA
UNDER PRIVATE NONPROFIT HATCHERY PERMITS

AREA	HATCHERY NAME, ADDRESS PHONE NUMBER, AND REPRESENTATIVE/MANAGER	SPECIES
Ketchikan	Beaver Falls Hatchery 1621 Tongass Avenue, #103 Ketchikan, AK 99901 <u>Manager:</u> Southern Southeast Regional Aquaculture Association 1621 Tongass Avenue, #103 Ketchikan, AK 99901 <u>Phone:</u> (907)225-9605 <u>Fax:</u> (907)225-1348	Sockeye salmon
Whittier (Northern Prince William Sound)	Cannery Creek Hatchery P.O. Box 788 Whittier, AK 99693-0788 <u>Manager:</u> Prince William Sound Aquaculture Corporation P.O. Box 1110 Cordova, AK 99574 <u>Phone:</u> (907)424-7511, 7512 <u>Fax:</u> (907)424-7514	Pink and chum salmon
Sitka (Eastern Baranof Island)	Hidden Falls Hatchery P.O. Box 510 Sitka, AK 99835-0510 <u>Manager:</u> Northern Southeast Regional Aquaculture Association 1308 SMC Road Sitka, AK 99835 <u>Phone:</u> (907)747-6850 <u>Fax:</u> (907)747-1470	Chum, coho, and chinook salmon
Kodiak (Afognak Island)	Kitoi Bay Hatchery 211 Mission Road Kodiak, AK 99615-6399 <u>Manager:</u> Kodiak Regional Aquaculture Association P.O. Box 3407 Kodiak, AK 99615 <u>Phone:</u> (907)486-6555 <u>Fax:</u> (907)486-5932	Pink, chum, sockeye, and coho salmon, and rainbow trout

AREA	HATCHERY NAME, ADDRESS PHONE NUMBER, AND REPRESENTATIVE/MANAGER	SPECIES
Cordova (remote) (Northwestern Prince William Sound)	Main Bay Hatchery P.O. Box FLJ Cordova, AK 99574 <u>Manager:</u> Prince William Sound Aquaculture Corporation P.O. Box 1110 Cordova, AK 99574 <u>Phone:</u> (907)269-5451 <u>Fax:</u> (907)269-5452	Sockeye and pink salmon
Homer (remote) (Kachemak Bay)	Tutka Lagoon Hatchery HC 2, Box 849 Soldotna, AK 99669-9707 <u>Manager:</u> Cook Inlet Aquaculture Association HC 2, Box 849 Soldotna, AK 99669-9707 <u>Phone:</u> (907)235-8486 <u>Fax:</u> (907)235-8486 (call first)	Pink, chum, and sockeye salmon
Moose Pass (Kenai Peninsula)	Trail Lakes Hatchery P.O. Box 49 Moose Pass, AK 99631-0049 <u>Manager:</u> Cook Inlet Aquaculture Association HC 2, Box 849 Soldotna, AK 99669-9707 <u>Phone:</u> (907)288-3688 <u>Fax:</u> (907)283-9433	Sockeye, chinook, and coho salmon

FORM NO. 56*interview 3/24/91*

State of Alaska, Private Nonprofit Hatchery Program

HATCHERY BROODSTOCK DEVELOPMENT/FACILITY BENEFIT COST ANALYSIS

--data input format and instructions--

Line 1. FACILITY: Esther Lake*Main Bay Chum*Line 2. SPECIES: Chum

(Pink, chum, coho, chinook. A separate form must be completed for each species at the facility.)

Line 3. FACILITY DESCRIPTION: Permit # 20

(Provide information about the facility such as location; the year primary hatchery construction is completed; first year of egg take; other species at facility; design capacity, etc.)

Line 4. FIRST YEAR OF SIMULATION: 1984

(The term simulation refers to a computer modeling study. For our purposes, the first year of simulation is 1984.)

Line 5. LENGTH OF SIMULATION: 20 years

(The number of years that the simulation is to be run.)

Line 6. AGE AT MIGRATION: 0(Enter the number of winters that fish (not eggs or alevins) of this species spend in freshwater before migrating to sea. Must be 0 for pink and chum; 1 or 2 for other species. Remember that the age at migration may be different than the age at release. For example, chinook fry may be planted into a lake at age 0, but they are assumed to migrate to sea at age 1. In that case enter 1 for line 6.)Line 7. HATCHERY SURVIVALS:

a. Green Egg to Eyed	<u>90</u> %	(<u>90</u> %)
b. Eyed to Emergent Fry	<u>95</u> %	(<u>95</u> %)
c. Emergent Fry to Fed Fry	<u>95</u> %	(<u>95</u> %)
d. Fed Fry to Fingerling	<u> </u> %	(<u> </u> %)
e. Fingerling to Smolt	<u> </u> %	(<u> </u> %)

(We have provided our estimation of survival rates as percent survival from one life stage to the next life stage. We are looking for your estimation of the most likely survival rates to occur over the length of the simulations.)

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Line 8. TOTAL SURVIVAL TO ADULT BY RELEASE STAGE:

a. Emergent fry to adult	_____ %	(_____ %)
b. Fed Fry to adult	<u>100</u> %	(<u>1.0</u> %)
c. Fingerling to adult	_____ %	(_____ %)
d. Smolt to adult	_____ %	(_____ %)

(Enter the expected percent total marine survival to returning adult for every stage that fish are released. Include in the survival estimate those returning adults harvested in the common property fishery. As an example, if chinook are released only as smolts, then the expected survival to adult would be entered on line 8d. No other entry on line 8 would be required.)

Line 9. ADULT RETURN BY OCEAN AGE & SEX RATIO:

a. Ocean age	.0	.1	.2	.3	.4	.5	.6
b. % of Return	_____	_____	<u>15</u>	<u>75</u>	<u>10</u>	_____	_____
c. % Female	_____	_____	<u>50</u>	<u>50</u>	<u>50</u>	_____	_____

(In the European aging system the number to the left of the decimal point is the number of winters that juveniles spend in fresh water and the number to the right of the decimal point is the number of winters that returning adults spend in salt water. On line 9b enter the assumed percentage of the total adults produced for a brood year below the expected age of return. For example: Chum eggs taken in 1981 might be expected to return in 1984 (20%), 1985 (70%), and 1986 (10%). In this case you would enter 20% below age .2, 70% below age .3, and 10% below age .4. The total percentage must, of course, equal 100. For line 9c enter the percentage of females for each age class that fish are expected to return.)

Line 10. FECUNDITY: 2700 (eggs/female)

(The average number of eggs per returning female.)

Line 11. ADULT HOLDING MORTALITY: 10 %

(The percent of adults being held that die prior to spawning.)

Line 12. MINIMUM ANNUAL STREAM ESCAPEMENT:

a. <u>0</u> # From (Year) <u>1974</u> to <u>2004</u>
b. _____ # From (Year) _____ to _____
c. _____ # From (Year) _____ to _____

(Enter the minimum number of returning fish required to spawn naturally in the stream and the years that this escapement is required. If the minimum number changes, enter this change and the years that this change is in effect on lines 12b and 12c. Enter zero if no escapement is required.)

13. ASSUMED INTERCEPTION RATES:

a. Commercial Interception 92 % From (Year) 1990 to 2004
 Will rate change? % From (Year) to
 % From (Year) to

b. Sport Interception 0 % From (Year) 1994 to 2004
 Will Rate Change? % From (Year) to
 % From (Year) to

(Enter the assumed percent interception rate for the commercial fishery by year on line 13a. If this rate changes, enter the change and the years of this change on the lines below. Enter the percent of the return that will be intercepted by the sport fishery on line 13b, and list any future changes on the lines below. These rates are the minimum interception rates. The fish in excess of hatchery brood-stock needs are added back to commercial and sport harvests by the program. Hatchery cost-recovery is treated as a separate commercial gear type on line 24.)

Line 14. PRESENT HATCHERY CAPACITY:

1984 → 1987

Life Stage	#Eggs or Fish	#Released	(#Eggs or Fish)	(#Released)
a. green egg	<u>10.0 x 10⁶</u>	<u> </u>	<u>(26.7 x 10⁶)</u>	<u>()</u>
b. eyed egg	<u>9.0 x 10⁶</u>	<u> </u>	<u>(24.0 x 10⁶)</u>	<u>()</u>
c. emergent fry	<u>8.5 x 10⁶</u>	<u> </u>	<u>(22.8 x 10⁶)</u>	<u>()</u>
d. fed fry	<u> </u>	<u>8.5 x 10⁶</u>	<u>()</u>	<u>(21.7 x 10⁶)</u>
e. fingerling	<u> </u>	<u> </u>	<u>()</u>	<u>()</u>
f. smolt	<u> </u>	<u> </u>	<u>()</u>	<u>()</u>

(Enter the years that these capacities will be in effect. Enter the maximum numbers of eggs or fish that can be handled by the present facility for each life stage. Remember that a different form is used for each species. List the hatchery's capacity only for the species entered on line 2. Under the number released column enter the number of fish that are planned to be released for each life stage. If releases are not planned for certain life stage enter 0 for that line. If you provide alternative capacities, please attach justification.)

Line 15. PERMITTED HATCHERY CAPACITY:

1988 → 2004

Life Stage	#Eggs or Fish	#Released	(#Eggs or Fish)	(Released)
a. green egg	<u>11.1 x 10⁷</u>	<u> </u>	<u>(11.1 x 10⁷)</u>	<u>()</u>
b. eyed egg	<u>10.0 x 10⁷</u>	<u> </u>	<u>(10.0 x 10⁷)</u>	<u>()</u>
c. emergent fry	<u>9.5 x 10⁷</u>	<u> </u>	<u>(9.5 x 10⁷)</u>	<u>()</u>
d. fed fry	<u> </u>	<u>9.4 x 10⁷</u>	<u>()</u>	<u>(9.0 x 10⁷)</u>
e. fingerling	<u> </u>	<u> </u>	<u>()</u>	<u>()</u>
f. smolt	<u> </u>	<u> </u>	<u>()</u>	<u>()</u>

(The instructions from line 14 apply here. In many cases the hatchery capacities will change directly from present capacity to permitted capacity. If present capacity is the same as permitted capacity, line 15 will not be needed. Please indicate this on line 14. If you provide alternative capacities, please attach justification. If additional capital and operational costs will be required to reach permitted capacity, then please indicate this change on line 21.)

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Line 16. ULTIMATE CAPACITY:

Ultimate Capacity _____ Year to 2004

Life Stage	#Eggs or Fish	#Released	(#Eggs or Fish)	(#Released)
a. green egg	_____	_____	(_____)	(_____)
b. eyed egg	_____	_____	(_____)	(_____)
c. emergent fry	_____	_____	(_____)	(_____)
d. fed fry	_____	_____	(_____)	(_____)
e. fingerling	_____	_____	(_____)	(_____)
f. smolt	_____	_____	(_____)	(_____)

(See instructions for lines 14 and 15. If ultimate capacity is the same as present capacity or permitted capacity, line 16 will not be needed. Please indicate this on line 14 or line 15. We have entered our best estimate of ultimate permitted capacity for this facility for the species listed on line 2, given the known constraints of the site and physical plant capabilities. If you provide alternative capacities, please attach justification. Be certain to enter the number of fish that are planned to be released for each life stage. If additional capital and operational costs will be required to reach ultimate capacity, then please indicate this change on line 21.)

Line 17. NUMBER OF RETURNING ADULTS FROM PREVIOUS RELEASES BY RETURN YEAR, BY OCEAN AGE:

N/A.

	Age	Year 1984	Year _____	Year _____	Year _____	Year _____	Year _____
a. #Fish	.0	_____	_____	_____	_____	_____	_____
b. #Fish	.1	_____	_____	_____	_____	_____	_____
c. #Fish	.2	_____	_____	_____	_____	_____	_____
d. #Fish	.3	_____	_____	_____	_____	_____	_____
e. #Fish	.4	_____	_____	_____	_____	_____	_____
f. #Fish	.5	_____	_____	_____	_____	_____	_____

The year and numbers of adults expected to return from previous by age class. The year entered in the first column must be the first year of simulation (line 4). Use the remaining column for future consecutive years. As an example, since the first year of simulation is 1984, then the year of the first column must be 1984 and the next year would be 1985, etc. If chum salmon eggs were first taken in 1981, then the expected number of adults to return at age .2 would be entered on line c under year 1984. The number expected to return at age .3 (from 1981 brood) would be entered on line 17d under year 1985, and the return at age .4 would be entered on line 17e under year 1986. The expected returns for eggs taken in 1982 would follow the same sequence, except the returns for age .2 would be entered on line 17c under 1985. The returns for 1983 brood in this example would not need to be entered as the information from lines 19 and 20 will be used to estimate those returns.)

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Line 18. REMOTE EGG TAKES:

a. Year 1984 #Eggs 10.0×10^6 thru Year 1985
 b. Year 1986 #Eggs 39.5×10^6 thru Year 1986
 c. Year 1987 #Eggs 32.0×10^6 thru Year 1987
 d. Year 1988 #Eggs 18.4×10^6 thru Year 1988
 1989 4.5×10^6 1989

(List the years and number of eggs to be taken at sites other than the facility. If the desired number of remote egg takes changes, use lines 18b, 18c, and 18d to list those changes.)

Line 19. NUMBER OF FIRST YEAR EMERGENT FRY:

Year 1984 Emergent Fry 7.6×10^6

(Enter the number of fry that emerge during the first year of simulation (line 4). Enter the number of emergent fry only for species listed on line 2. These fry are a result of eggs taken in 1983.)

Line 20. FIRST YEAR OF SMOLT RELEASES:

Year 1984 #Released N/A

(Enter the number of smolt released during the first year of simulation (line 4) if applicable to this species. These releases will originate from the eggs taken in 1982.)

Line 21. FUTURE ANNUAL FACILITY COSTS IN 1984 DOLLARS:

See Item # 55

Capital Costs			Annual Operating Costs		
	Year	Capital Costs		Year to Year	Total Annual Operating Costs
a.	_____	_____	a.	_____	_____
b.	_____	_____	b.	_____	_____
c.	_____	_____	c.	_____	_____
d.	_____	_____	d.	_____	_____
e.	_____	_____	e.	_____	_____
f.	_____	_____	f.	_____	_____
g.	_____	_____	g.	_____	_____
h.	_____	_____	h.	_____	_____
i.	_____	_____	i.	_____	_____
j.	_____	_____	j.	_____	_____

(Indicate all future annual capital and operating costs (in 1000's of \$) for the facility. Capital costs should be listed in single year increments. Annual operating costs may be grouped in a year X to year Y format, where appropriate. To be filled out in real (1984) dollars. Please include annual administrative and evaluation costs (i.e., planning, tagging) with operational costs when computing total annual operating costs.)

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Line 22. MEAN WEIGHT OF MALES: 8.4 (lbs.)

(List the mean weight (in pounds) per male for fish returning to the facility (if available) or from brood-stock source.)

Line 23. MEAN WEIGHT OF FEMALES: 9.4 (lbs.)

(List the mean weight (in pounds) per female for fish returning to the facility (if available) or from brood-stock source.)

Line 24. FACILITY COST-RECOVERY:

Gear Type: Special Harvest Area Permit% of Commercial Harvest: 15 %

Year	Year	Price/lb.	Costs/lb.
<u>1990</u>	<u>to 2000</u>	<u>.35</u>	<u>.013</u>
<u> </u>	<u>to</u>	<u> </u>	<u> </u>
<u> </u>	<u>to</u>	<u> </u>	<u> </u>
<u> </u>	<u>to</u>	<u> </u>	<u> </u>

(Indicate the commercial gear type that will be used to harvest hatchery returns within the special harvest area for cost-recovery. Indicate your estimate of the average percentage of the total commercial harvest expected to be taken for facility cost-recovery over the duration of the simulation. Indicate the estimated price per pound (in 1984 dollars) and the estimated harvest costs per pound (or vessel charter expenses per pound), computed on an ex-vessel (or ex-hatchery) basis, in 1984 dollars.)

FORM NO.

55

5/24/84

State of Alaska, Private Nonprofit Hatchery Program

HATCHERY BROODSTOCK DEVELOPMENT/FACILITY BENEFIT COST ANALYSIS

--data input format and instructions--

Line 1. FACILITY: Esther LakeMain Bay PinkLine 2. SPECIES: pink

(Pink, chum, coho, chinook. A separate form must be completed for each species at the facility.)

Line 3. FACILITY DESCRIPTION: permit # 20

(Provide information about the facility such as location; the year primary hatchery construction is completed; first year of egg take; other species at facility; design capacity, etc.)

Line 4. FIRST YEAR OF SIMULATION: 1984

(The term simulation refers to a computer modeling study. For our purposes, the first year of simulation is 1984.)

Line 5. LENGTH OF SIMULATION: 20 years

(The number of years that the simulation is to be run.)

Line 6. AGE AT MIGRATION: 0

(Enter the number of winters that fish (not eggs or alevins) of this species spend in freshwater before migrating to sea. Must be 0 for pink and chum; 1 or 2 for other species. Remember that the age at migration may be different than the age at release. For example, chinook fry may be planted into a lake at age 0, but they are assumed to migrate to sea at age 1. In that case enter 1 for line 6.)

Line 7. HATCHERY SURVIVALS:

a. Green Egg to Eyed	<u>90</u> %	(<u>90</u> %)
b. Eyed to Emergent Fry	<u>75</u> %	(<u>75</u> %)
c. Emergent Fry to Fed Fry	<u>75</u> %	(<u>75</u> %)
d. Fed Fry to Fingerling	<u>75</u> %	(<u>75</u> %)
e. Fingerling to Smolt	<u>75</u> %	(<u>75</u> %)

(We have provided our estimation of survival rates as percent survival from one life stage to the next life stage. We are looking for your estimation of the most likely survival rates to occur over the length of the simulations.)

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Line 8. TOTAL SURVIVAL TO ADULT BY RELEASE STAGE:

a. Emergent fry to adult	_____ %	(<u>0.7</u> %)
b. Fed Fry to adult	<u>6.0</u> %	(_____ %)
c. Fingerling to adult	_____ %	(_____ %)
d. Smolt to adult	_____ %	(_____ %)

(Enter the expected percent total marine survival to returning adult for every stage that fish are released. Include in the survival estimate those returning adults harvested in the common property fishery. As an example, if chinook are released only as smolts, then the expected survival to adult would be entered on line 8d. No other entry on line 8 would be required.)

Line 9. ADULT RETURN BY OCEAN AGE & SEX RATIO:

a. Ocean age	.0	.1	.2	.3	.4	.5	.6
b. % of Return	_____	<u>100</u>	_____	_____	_____	_____	_____
c. % Female	_____	<u>50</u>	_____	_____	_____	_____	_____

(In the European aging system the number to the left of the decimal point is the number of winters that juveniles spend in fresh water and the number to the right of the decimal point is the number of winters that returning adults spend in salt water. On line 9b enter the assumed percentage of the total adults produced for a brood year below the expected age of return. For example: Chum eggs taken in 1981 might be expected to return in 1984 (20%), 1985 (70%), and 1986 (10%). In this case you would enter 20% below age .2, 70% below age .3, and 10% below age .4. The total percentage must, of course, equal 100. For line 9c enter the percentage of females for each age class that fish are expected to return.)

Line 10. FECUNDITY: 1600 (eggs/female)

(The average number of eggs per returning female.)

Line 11. ADULT HOLDING MORTALITY: 10 %

(The percent of adults being held that die prior to spawning.)

Line 12. MINIMUM ANNUAL STREAM ESCAPEMENT:

a. <u>0</u> # From (Year) <u>1984</u> to <u>2004</u>
b. _____ # From (Year) _____ to _____
c. _____ # From (Year) _____ to _____

(Enter the minimum number of returning fish required to spawn naturally in the stream and the years that this escapement is required. If the minimum number changes, enter this change and the years that this change is in effect on lines 12b and 12c. Enter zero if no escapement is required.)

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13. ASSUMED INTERCEPTION RATES:

- a. Commercial Interception 97 % From (Year) 1987 to 2004
 Will rate change? % From (Year) to
 % From (Year) to
- b. Sport Interception 0 % From (Year) 1987 to 2004
 Will Rate Change? % From (Year) to
 % From (Year) to

(Enter the assumed percent interception rate for the commercial fishery by year on line 13a. If this rate changes, enter the change and the years of this change on the lines below. Enter the percent of the return that will be intercepted by the sport fishery on line 13b, and list any future changes on the lines below. These rates are the minimum interception rates. The fish in excess of hatchery brood-stock needs are added back to commercial and sport harvests by the program. Hatchery cost-recovery is treated as a separate commercial gear type on line 24.)

Line 14. PRESENT HATCHERY CAPACITY:

1984		1985	
Present Capacity <u>1984</u> Year to <u>1985</u>		<u>1984</u> → <u>1985</u>	
Life Stage	#Eggs or Fish	#Released	(#Eggs or Fish) (#Released)
a. green egg	<u>26.0 x 10⁶</u>	<u> </u>	(<u>33.5 x 10⁶</u>) (<u> </u>)
b. eyed egg	<u>31.2 x 10⁶</u>	<u> </u>	(<u>30.1 x 10⁶</u>) (<u> </u>)
c. emergent fry	<u> </u>	<u> </u>	(<u> </u>) (<u>28.6 x 10⁶</u>)
d. fed fry	<u> </u>	<u>32.5 x 10⁶</u>	(<u> </u>) (<u> </u>)
e. fingerling	<u> </u>	<u> </u>	(<u> </u>) (<u> </u>)
f. smolt	<u> </u>	<u> </u>	(<u> </u>) (<u> </u>)

(Enter the years that these capacities will be in effect. Enter the maximum numbers of eggs or fish that can be handled by the present facility for each life stage. Remember that a different form is used for each species. List the hatchery's capacity only for the species entered on line 2. Under the number released column enter the number of fish that are planned to be released for each life stage. If releases are not planned for a certain life stage enter 0 for that line. If you provide alternative capacities, please attach justification.)

Line 15. PERMITTED HATCHERY CAPACITY:

1986		2004	
Permitted Capacity <u>1986</u> Year to <u>2004</u>		<u>1986</u> → <u>2004</u>	
Life Stage	#Eggs or Fish	#Released	(#Eggs or Fish) (Released)
a. green egg	<u>21.1 x 10⁷</u>	<u> </u>	(<u>21.1 x 10⁷</u>) (<u> </u>)
b. eyed egg	<u>20.2 x 10⁷</u>	<u> </u>	(<u>19.0 x 10⁷</u>) (<u> </u>)
c. emergent fry	<u>19.0 x 10⁷</u>	<u> </u>	(<u>18.0 x 10⁷</u>) (<u> </u>)
d. fed fry	<u> </u>	<u>17.7 x 10⁷</u>	(<u> </u>) (<u>17.1 x 10⁷</u>)
e. fingerling	<u> </u>	<u> </u>	(<u> </u>) (<u> </u>)
f. smolt	<u> </u>	<u> </u>	(<u> </u>) (<u> </u>)

(The instructions from line 14 apply here. In many cases the hatchery capacities will change directly from present capacity to permitted capacity. If present capacity is the same as permitted capacity, line 15 will not be needed. Please indicate this on line 14. If you provide alternative capacities, please attach justification. If additional capital and operational costs will be required to reach permitted capacity, then please indicate this change on line 21.)

3/PNP/3-20-84

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Line 16. ULTIMATE CAPACITY:

Ultimate Capacity _____ Year to 2004 _____

Life Stage	#Eggs or Fish	#Released	(#Eggs or Fish)	(#Released)
a. green egg	_____	_____	(_____)	(_____)
b. eyed egg	_____	_____	(_____)	(_____)
c. emergent fry	_____	_____	(_____)	(_____)
d. fed fry	_____	_____	(_____)	(_____)
e. fingerling	_____	_____	(_____)	(_____)
f. smolt	_____	_____	(_____)	(_____)

(See instructions for lines 14 and 15. If ultimate capacity is the same as present capacity or permitted capacity, line 16 will not be needed. Please indicate this on line 14 or line 15. We have entered our best estimate of ultimate permitted capacity for this facility for the species listed on line 2, given the known constraints of the site and physical plant capabilities. If you provide alternative capacities, please attach justification. Be certain to enter the number of fish that are planned to be released for each life stage. If additional capital and operational costs will be required to reach ultimate capacity, then please indicate this change on line 21.)

Line 17. NUMBER OF RETURNING ADULTS FROM PREVIOUS RELEASES BY RETURN YEAR, BY OCEAN AGE:

N/A

	Age	Year 1984	Year _____	Year _____	Year _____	Year _____	Year _____
a. #Fish	.0	_____	_____	_____	_____	_____	_____
b. #Fish	.1	_____	_____	_____	_____	_____	_____
c. #Fish	.2	_____	_____	_____	_____	_____	_____
d. #Fish	.3	_____	_____	_____	_____	_____	_____
e. #Fish	.4	_____	_____	_____	_____	_____	_____
f. #Fish	.5	_____	_____	_____	_____	_____	_____

(Enter the year and numbers of adults expected to return from previous releases by age class. The year entered in the first column must be the same as the first year of simulation (line 4). Use the remaining column headings for future consecutive years. As an example, since the first year of simulation is 1984, then the year of the first column must be 1984 and the next year would be 1985, etc. If chum salmon eggs were first taken in 1981, then the expected number of adults to return at age .2 would be entered on line c under year 1984. The number expected to return at age .3 (from 1981 brood) would be entered on line 17d under year 1985, and the return at age .4 would be entered on line 17e under year 1986. The expected returns for eggs taken in 1982 would follow the same sequence, except the returns for age .2 would be entered on line 17c under 1985. The returns for 1983 brood in this example would not need to be entered as the information from lines 19 and 20 will be used to estimate those returns.)

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Line 18. REMOTE EGG TAKES:

1983
 a. Year 1984 #Eggs 26,000 thru Year 1985
 b. Year 1985 #Eggs 55,000 thru Year 1986
 c. Year 1986 #Eggs 12,000 thru Year 1987
 d. Year _____ #Eggs _____ thru Year _____

(List the years and number of eggs to be taken at sites other than the facility. If the desired number of remote egg takes changes, use lines 18b, 18c, and 18d to list those changes.)

Line 19. NUMBER OF FIRST YEAR EMERGENT FRY:

Year 1984 Emergent Fry _____

N/A

(Enter the number of fry that emerge during the first year of simulation (line 4). Enter the number of emergent fry only for species listed on line 2. These fry are a result of eggs taken in 1983.)

Line 20. FIRST YEAR OF SMOLT RELEASES:

Year 1984 #Released _____

N/A

(Enter the number of smolt released during the first year of simulation (line 4) if applicable to this species. These releases will originate from the eggs taken in 1982.)

Line 21. FUTURE ANNUAL FACILITY COSTS IN 1984 DOLLARS:

Capital Costs			Annual Operating Costs		
	Year	Capital Costs		Year to Year	Total Annual Operating Costs
a.	<u>1984</u>	<u>500</u>	a.	<u>1984</u> <u>1984</u>	<u>293.4</u>
b.	<u>1985</u>	<u>2500</u>	b.	<u>1985</u> <u>1985</u>	<u>433.4</u>
c.	_____	_____	c.	<u>1986</u> <u>1986</u>	<u>465.0</u>
d.	_____	_____	d.	<u>1987</u> <u>1987</u>	<u>335.0</u>
e.	_____	_____	e.	<u>1988</u> <u>2004</u>	<u>1250.0</u>
f.	_____	_____	f.	_____	_____
g.	_____	_____	g.	_____	_____
h.	_____	_____	h.	_____	_____
i.	_____	_____	i.	_____	_____
j.	_____	_____	j.	_____	_____

(Indicate all future annual capital and operating costs (in 1000's of \$) for the facility. Capital costs should be listed in single year increments. Annual operating costs may be grouped in a year X to year Y format, where appropriate. To be filled out in real (1984) dollars. Please include annual administrative and evaluation costs (i.e., planning, tagging) with operational costs when computing total annual operating costs.)

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Line 22. MEAN WEIGHT OF MALES: 3.5 (lbs.)

(List the mean weight (in pounds) per male for fish returning to the facility (if available) or from brood-stock source.)

Line 23. MEAN WEIGHT OF FEMALES: 3.5 (lbs.)

(List the mean weight (in pounds) per female for fish returning to the facility (if available) or from brood-stock source.)

Line 24. FACILITY COST-RECOVERY:

Gear Type: Special Harvest Area Permit% of Commercial Harvest: 15 %

Year	Year	Price/lb.	Costs/lb.
<u>1989</u>	<u>to 2001</u>	<u>.28</u>	<u>.013</u>
<u>to</u>	<u>to</u>	<u>to</u>	<u>to</u>
<u>to</u>	<u>to</u>	<u>to</u>	<u>to</u>
<u>to</u>	<u>to</u>	<u>to</u>	<u>to</u>

(Indicate the commercial gear type that will be used to harvest hatchery returns within the special harvest area for cost-recovery. Indicate your estimate of the average percentage of the total commercial harvest expected to be taken for facility cost-recovery over the duration of the simulation. Indicate the estimated price per pound (in 1984 dollars) and the estimated harvest costs per pound (or vessel charter expenses per pound), computed on an ex-vessel (or ex-hatchery) basis, in 1984 dollars.)

NOTED FOR Fay

Sorry I didn't send this off sooner, but I had six phone calls this morning to contend with.

I have attached two surveys. One is the survey undertaken in late 1983 and early 1984 for the Mini-Cabinet Study (Port #64). The second is a survey that I have administered a few times to create input for the economic impact model created by the Division by ISER.

To address the needs of the CBA and some of the distributional questions these surveys need to be combined, with some additional revisions.

1. In CBA the distribution of costs and benefits is of minor concern, some components of the survey however, will address the source of funding for projects so that projections can be made of user funding vs funding from the State treasury.

2. The original (83/84) survey did not ask for catch projections by district or combination of districts. It will be necessary to define the aggregation of districts that we think are practice to apply to each of the projects. For example, in Southeast, some projects would only allow for differentiation of catches between northern and southern locations areas but others could be at the district level. For now we can ask for these by district but must make clear in instructions that it is ok to aggregate. Not every operator knows where the boundaries are so a map may need to be supplied for each region.

The original survey also did not stratify the catches temporally. It will be necessary to break projected catch into 2 week intervals (I need to verify the exact intervals with Boyce and Berman). I think the survey could have each of the months between May and October broken down by two week intervals and we would ask for the intervals that represent 90 % or more of the catch. Another interval would be required for the winter troll fishery.

4. The 83/84 survey allowed for a production projection in each year. I think given the problems in making these types of forecasts that we could ask for a point projection covering each 5 year interval. This would simplify the form to 6 entries over time. The impact survey was based on a broodyear, so catches occurred over several years.

These are just the first changes that occur to me. After spending some additional time with the forms I am sure that I can generate

Some suggestions for the letter to PNP operators.

I would like to thank you for the work that you invested the hatchery survey of intensely modeled enhancement projects for the Hatchery Research Project. The contractor for population modeling portion of the project is now using the survey data.

This is the last portion of the surveying for the project, and again we would like to request your help completing 2 forms.

The first form is the SALMON ENHANCEMENT PROJECT survey for the non-intensively modeled projects. It is shorter and simpler than the intensively modeled site form. A separate form for each project is included. If you have corrections to the project name or to other identifying data, or if there are additional projects not included in the surveys provided, please make the appropriate corrections or additions. Blank forms are attached.

The second form is a cost-of-production survey for each facility identified under FACILITY NAME field in the SALMON ENHANCEMENT PROJECT survey. This form, called the FACILITY OPERATING, CONSTRUCTION, AND MANAGEMENT COST SURVEY, is designed to be similar to the type of budget forecasting that you might do for any upcoming fiscal year. One of these forms must be filled out for each facility associated with INTENSELY or NON-INTENSELY modeled projects. There are, however, some special production cost cases, that will require you to project costs for production levels that may never be feasible for you to operate in. These cases are necessary to create a mathematical model of operating and construction costs for the statewide enhancement program, which allows the computation of costs of production levels not included in the survey. These other cases are to be very aggregate in scale, and will not be used to determine benefits and costs of individual hatchery outputs.

Ginny: Some of the following could be put in the instructions if it is too wordy here.

Operating and construction costs for some increased production scenarios are requested in the survey form. These production increases are aggregated by species while production survey forms are filled out for each project. Since some facilities will have more than 1 project and release location for a given species, this may cause some confusion in determining how to apportion these costs between projects. In these cases, the incremental production costs (for the 15% increase scenario) should be estimated for the most likely and efficient combination of production from each project that you have.

Example: Two sockeye projects are carried out at Facility 2. Together they produce 20,000 sockeye harvests in 1996, and are projected to produce 30,000 harvests in 1999 to 2021.

Increased production of project 1 for sockeye salmon (producing

harvests of 10,000 fish in 1996 from smolt releases in previous years) would be difficult to increase by 15% without some radical changes in management, or new construction.

Project 2 also produces 10,000 harvested fish in 1996 but, fry releases could easily be increased to 15% of the total sockeye production of 20,000 harvested fish ($20,000 \times 1.15 = 23,000$ fish from project 2).

Thus, costs for the increase production should be estimated for project 2, the most likely source of increased production.

For the 15% incremental increased production scenario, it may not be practical to increase production for this species at all in your facility. If there is simply no way to do this, without adding a new project, leave the associated 15% production case blank for that species, but note why you could not carry it out on the form.

Finally, the cost projections for the 15% production level increase should be based upon obtaining the increased harvests in one single salmon life cycle, or as nearly as possible to that time interval.

The completed survey forms need to be sent to Steve McGee at the ADF&G Headquarters Office by June 15, 1992.

There will undoubtedly be questions about how to fill out the survey, please address these to Steve McGee, ADF&G, 465-4160.

Jeff Hartman or

We discussed the first page of the survey being the facility name, name of the project, and the species that the project corresponds to. Some instructions about verifying that the project names, release locations, and species are correct would probably be a good idea.

1. Additional comment on the PNP production form;

One additional set of fields have been left off the non-intensively modeled survey form for PNP hatcheries. This field was included on the PNP survey form for intensely modeled sites. It is question 14, which summarizes the harvest of fish for cost recovery from the hatchery.

2. Additional comment on the PNP cost of production form;

Some additional clarification of the % of operating and construction costs attributable to commercial, or sport/pers use is needed. Some PNP operators will interperate that a portion of their hatcheries production is to perpetuate operating dollars for the facility. Thus, if they have 100,000 fish harvested in the commercial fishery, 100,000 fish harvested in the sport fishery, 100,000 fish required for cost recovery, they will respond with 33.3% and 33.3%, respectively in the %commfish and %sportfish fields. Perhaps the field should say "percentage of Total Annual Costs for common property fisheries" "percentages should add to 100%. An example might also be helpful.

SPECIES	LIFESTAGE	RELEASE SITE	REGION	HATCHERY	TYPE PROJECT	OPERATOR
---------	-----------	--------------	--------	----------	-----------------	----------

Project List for PNP Hatcheries

Southeast Chinook
PWS Pink and Chum
Cook Inlet Sockeye

(INTENSIVELY MODELED PROJECTS)

SPECIES	LIFESTAGE	RELEASE SITE	REGION	HATCHERY	TYPE PROJECT	OPERATOR
---------	-----------	--------------	--------	----------	-----------------	----------

Chinook	smolt	Herring Cove	SE	Whitman Lake	Stocking	SSRAA
Chinook	smolt	Carroll Inlet	SE	Whitman Lake	Stocking	SSRAA
Chinook	0-smolt	Carroll Inlet	SE	Beaver Falls	Stocking	SSRAA
Chinook	smolt	Neets Bay	SE	Neets Bay	Stocking	SSRAA
Chinook	smolt	Bear Cove	SE	Medvejie Creek	Stocking	NSRAA
Chinook	smolt	Kasnyku Bay	SE	Hidden Falls	Stocking	NSRAA
Chinook	smolt	Sitka Sound	SE	Sheldon Jackson College	Stocking	SJC
Chinook	smolt	Burnett Inlet	SE	Burnett Inlet	Stocking	AK AQUA
Chinook	smolt	Port Armstrong	SE	Port Armstrong	Stocking	AKI
Chinook	smolt	Gastineau Channel	SE	Gastineau	Stocking	DIPAC
Chinook	fry	Chilkat River	SE	Gastineau	Stocking	DIPAC
Chinook	smolt	Taiya Inlet	SE	Burro Creek	Stocking	BCF
Pink	fry	Port San Juan	PWS	Armin F. Koernig	Stocking	PWSAC
Pink	fry	Lake Bay	PWS	Esther Lake	Stocking	PWSAC
Pink	fry	Unakwik Inlet	PWS	Cannery Creek	Stocking	PWSAC
Pink	fry	Port Valdez	PWS	Solomon Gulch	Stocking	VFDA
Pink	fry	Boulder Bay	PWS	Solomon Gulch	Stocking	VFDA
Pink	fry	Naked Island	PWS	Solomon Gulch	Stocking	VFDA
Chum	fry	Port San Juan	PWS	Armin F. Koernig	Stocking	PWSAC
Chum	fry	Lake Bay	PWS	Esther Lake	Stocking	PWSAC
Chum	fry	Unakwik Inlet	PWS	Cannery Creek	Stocking	PWSAC
Chum	fry	Port Valdez	PWS	Solomon Gulch	Stocking	VFDA
Sockeye	fry	Packers Lake	CI	Trail Lakes	Stocking	CIAA
Sockeye	fry	Hidden Lake	CI	Trail Lakes	Stocking	CIAA
Sockeye	fry	Bear Lake	CI	Trail Lakes	Stocking	CIAA
Sockeye	fry	Chelatna Lake	CI	Trail Lakes	Stocking	CIAA
Sockeye	fry	Paint River Lakes	CI	Trail Lakes	Stocking	CIAA
Sockeye	0-smolt	Coal Creek	CI	Trail Lakes	Stocking	CIAA
Sockeye	0-smolt	Thumb Cove	CI	Trail Lakes	Stocking	CIAA

(NON-INTENSIVELY MODELED PROJECTS)

SE - Pink, Chum, Coho, Sockeye

PWS - Coho, Chinook, Sockeye

CI - Pink, Chum, Chinook, Coho

SPECIES	LIFESTAGE	RELEASE SITE	REGION	HATCHERY	TYPE PROJECT	OPERATOR
Chum S	fry	Naket Inlet	SE	Whitman Lake	Stocking	SSRA

SPECIES	LIFESTAGE	RELEASE SITE	REGION	HATCHERY	TYPE PROJECT	OPERATOR
Chum F	fry	Naket Inlet	SE	Whitman Lake	Stocking	SSRAA
Chum S	fry	Kendrick Bay	SE	Whitman Lake	Stocking	SSRAA
Chum S	fry	Earl West Cove	SE	Whitman Lake	Stocking	SSRAA
Coho	smolt	Naket Inlet	SE	Whitman Lake	Stocking	SSRAA
Coho	smolt	Neets Bay	SE	Whitman Lake	Stocking	SSRAA
Coho	smolt	Earl West Cove	SE	Whitman Lake	Stocking	SSRAA
Coho	smolt	Herring Cove	SE	Whitman Lake	Stocking	SSRAA
Chum S	fry	Neets Bay	SE	Neets Bay	Stocking	SSRAA
Chum F	fry	Neets Bay	SE	Neets Bay	Stocking	SSRAA
Coho	smolt	Neets Bay	SE	Neets Bay	Stocking	SSRAA
Sockeye	0-smolt	George Inlet	SE	Beaver Falls	Stocking	SSRAA
Sockeye	0-smolt	Shrimp Bay	SE	Beaver Falls	Stocking	SSRAA
Pink	fry	Burnett Inlet	SE	Burnett Inlet	Stocking	AAI
Pink	fry	Anita Bay	SE	Burnett Inlet	Stocking	AAI
Chum S	fry	Burnett Inlet	SE	Burnett Inlet	Stocking	AAI
Chum S	fry	Anita Bay	SE	Burnett Inlet	Stocking	AAI
Coho	smolt	Burnett Inlet	SE	Burnett Inlet	Stocking	AAI
Coho	smolt	Bell Island	SE	Bell Island	Stocking	AMERAQUA
Coho	smolt	Bailey Bay	SE	Bell Island	Stocking	AMERAQUA
Steelhead	smolt	Bell Island	SE	Bell Island	Stocking	AMERAQUA
Chum S	fry	Bear Cove	SE	Medvejie Creek	Stocking	NSRAA
Chum S	fry	Deep Inlet	SE	Medvejie Creek	Stocking	NSRAA
Coho	fry	Deer Lake	SE	Medvejie Creek	Stocking	NSRAA
Coho	fry	Patterson Bay Lakes	SE	Medvejie Creek	Stocking	NSRAA
Coho	fry	Kruzof Lakes	SE	Medvejie Creek	Stocking	NSRAA
Coho	smolt	Bear Cove	SE	Medvejie Creek	Stocking	NSRAA
Coho	smolt	Deep Inlet	SE	Medvejie Creek	Stocking	NSRAA
Coho	smolt	Shamrock Bay	SE	Medvejie Creek	Stocking	NSRAA
Chum S	fry	Kasnyku Bay	SE	Hidden Falls	Stocking	NSRAA
Chum S	fry	Takatz Bay	SE	Hidden Falls	Stocking	NSRAA
Coho	fry	Kasnyku Bay	SE	Hidden Falls	Stocking	NSRAA
Chum F	fry	East Camden	SE	Port Camden	Stocking	NSRAA
Chum F	fry	West Camden	SE	Port Camden	Stocking	NSRAA
Pink	fry	Sitka Sound	SE	Sheldon Jackson	Stocking	SJC
Chum S	fry	Sitka Sound	SE	Sheldon Jackson	Stocking	SJC
Coho	smolt	Sitka Sound	SE	Sheldon Jackson	Stocking	SJC
Pink	fry	Sheep Creek	SE	Sheep Creek	Stocking	DIPAC
Chum S	fry	Sheep Creek	SE	Sheep Creek	Stocking	DIPAC
Coho	smolt	Sheep Creek	SE	Sheep Creek	Stocking	DIPAC
Pink	fry	Sheep Creek	SE	Gastineau	Stocking	DIPAC
Pink	fry	Gastineau Channel	SE	Gastineau	Stocking	DIPAC

SPECIES	LIFESTAGE	RELEASE SITE	REGION	HATCHERY	TYPE PROJECT	OPERATOR
Chum S	fry	Sheep Creek	SE	Gastineau	Stocking	DIPAC
Chum S	fry	Gastineau	SE	Gastineau	Stocking	DIPAC
Chum S	fry	Amalga Harbor	SE	Gastineau	Stocking	DIPAC
Chum S	fry	Boat Harbor	SE	Gastineau	Stocking	DIPAC
Chum S	fry	Limestone Inlet	SE	Gastineau	Stocking	DIPAC
Chum S	fry	Sullivan Island	SE	Gastineau	Stocking	DIPAC
Chum S	fry	William Henry Bay	SE	Gastineau	Stocking	DIPAC
Coho	smolt	Gastineau Channel	SE	Gastineau	Stocking	DIPAC
Coho	smolt	Sheep Creek	SE	Gastineau	Stocking	DIPAC
Coho	catchables	Twin Lakes	SE	Gastineau	Stocking	DIPAC
Pink	fry	Gunnuk Creek	SE	Gunnuk Creek	Stocking	KNFC
Pink	fry	Southeast Cove	SE	Gunnuk Creek	Stocking	KNFC
Chum S	fry	Gunnuk Creek	SE	Gunnuk Creek	Stocking	KNFC
Chum S	fry	Southeast Cove	SE	Gunnuk Creek	Stocking	KNFC
Pink	fry	Taiya Inlet	SE	Burro Creek	Stocking	BCF
Chum S	fry	Taiya Inlet	SE	Burro Creek	Stocking	BCF
Coho	smolt	Taiya Inlet	SE	Burro Creek	Stocking	BCF
Pink	fry	Port Armstrong	SE	Port Armstrong	Stocking	AKI
Chum F	fry	Port Armstrong	SE	Port Armstrong	Stocking	AKI
Coho	smolt	Port Armstrong	SE	Port Armstrong	Stocking	AKI
Coho	smolt	Quillian Bay	PWS	Esther Lake	Stocking	PWSAC
Coho	smolt	Whittier	PWS	Esther Lake	Stocking	PWSAC
Coho	smolt	Fleming Spit	PWS	Esther Lake	Stocking	PWSAC
Chinook	smolt	Fleming Spit	PWS	Esther Lake	Stocking	PWSAC
Chinook	smolt	Whittier	PWS	Esther Lake	Stocking	PWSAC
Chinook	smolt	Port Valdez	PWS	Esther Lake	Stocking	PWSAC
Chinook	smolt	Quillian Bay	PWS	Esther Lake	Stocking	PWSAC
Sockeye	fry	Shoestring Lake	PWS	Esther Lake	Stocking	PWSAC
Sockeye	fry	Solf Lake	PWS	Esther Lake	Stocking	PWSAC
Sockeye	smolt	Main Bay (Eshamy)	PWS	Main Bay	Stocking	PWSAC
Sockeye	smolt	Main Bay (Eyak)	PWS	Main Bay	Stocking	PWSAC
Sockeye	smolt	Main Bay (Coghill)	PWS	Main Bay	Stocking	PWSAC
Sockeye	smolt	Eshamy Lake	PWS	Main Bay	Stocking	PWSAC
Coho	smolt	Port Valdez	PWS	Solomon Gulch	Stocking	VFDA
Coho	smolt	Tatitlek Creek	PWS	Solomon Gulch	Stocking	VFDA
Chinook	smolt	Port Valdez	PWS	Solomon Gulch	Stocking	VFDA
Sockeye	fry	Summit Lake	PWS	Gulkana I	Stocking	PWSAC
Sockeye	fry	Cross Wind Lake	PWS	Gulkana I	Stocking	PWSAC
Sockeye	fry	Gulkana River	PWS	Gulkana I	Stocking	PWSAC
Sockeye	fry	Gulkana River	PWS	Gulkana II	Stocking	PWSAC
Chinook	fry	Monsoon Lake	PWS	Gulkana II	Stocking	PWSAC

SPECIES	LIFESTAGE	RELEASE SITE	REGION	HATCHERY	TYPE PROJECT	OPERATOR
Pink	fry	Eklutna	CI	Eklutna	Stocking	CIAA
Chum	fry	Eklutna	CI	Eklutna	Stocking	CIAA
Coho	smolt	Eklutna	CI	Eklutna	Stocking	CIAA
Chinook	smolt	Eklutna	CI	Eklutna	Stocking	CIAA
Coho	smolt	Bear lake	CI	Trail Lakes	Stocking	CIAA
Chinook	smolt	?	CI	Trail Lakes	Stocking	CIAA
Pink	fry	Tutka Lagoon	CI	Tutka	Stocking	CIAA
Pink	fry	Ingram Creek	CI	Tutka	Stocking	CIAA
Pink	fry	Homer Spit	CI	Tutka	Stocking	CIAA
Pink	fry	Halibut Cove	CI	Tutka	Stocking	CIAA
Chum	fry	Tutka Lagoon	CI	Tutka	Stocking	CIAA

FACSIMILE TRANSMITTAL SHEET

FROM: Mark Herrmann

SCHOOL OF MANAGEMENT
UNIVERSITY OF ALASKA, FAIRBANKS
101 BUNNELL BLDG.
FAIRBANKS, ALASKA 99775

TELEPHONE: (907) 474-7461

FAX: (907) 474-5219

John A. Lehman, Acting Dean

TRANSMITTED TO: Ginny Fay

DATE: Apr 17

TIME: 3:00

PAGES: 2

MESSAGES: _____

THANK YOU !!

Fishing Costs Model Preliminary Report

- 0. Executive Summary**
- 1. Summary statistics by Region**
 - A. Regional Aggregate Statistics**
 - # Fishermen
 - Total Revenue
 - # Days Fished
 - Value of Catch Per Unit Effort/Day
 - Species Mix/Average Price
 - B. Gear Type Statistics**
 - Vessel Descriptions/Gear Type
 - # Days Active
 - # Areas Fished
 - Value of Catch per Unit Effort/Day
 - Species Mix/Average Price
- 2. Value of CPUE/Day**
 - A. Relationship with Amount of Effort**
 - Congestion Effects in Effort
 - Number of Processors
 - Variance Across Fishermen
 - Variance Across Gear Types
 - Variance Across Regions
 - B. Relationship with Entry and Selection of Areas**
 - C. Relationship with Exiting Behavior**
- 3. Estimation of Cost/Day and Cost/Opening**
 - A. Relationship of Cost/Opening with:**
 - Vessel/Effort Descriptive Statistics
 - Value of CPUE/Day
 - Probability of Entering
 - B. Relationship of Cost/Day with:**
 - Vessel/Effort Descriptive Statistics
 - Value of CPUE/Day
 - Probability of Exiting
- 4. Estimation of Profits**
 - A. Aggregation Over the Season**
 - B. Relationship with Quantity and Price Variables**
 - C. Example, using Cook Inlet Purse Seine**

**UNIVERSITY OF ALASKA FAIRBANKS****School of Management**
Fairbanks, Alaska 99775-1070

DATE: April 17, 1991
TO: Ginny Fay
FROM: Mark L. Herrmann *MLH*
Department of Economics
Re: Conference Call

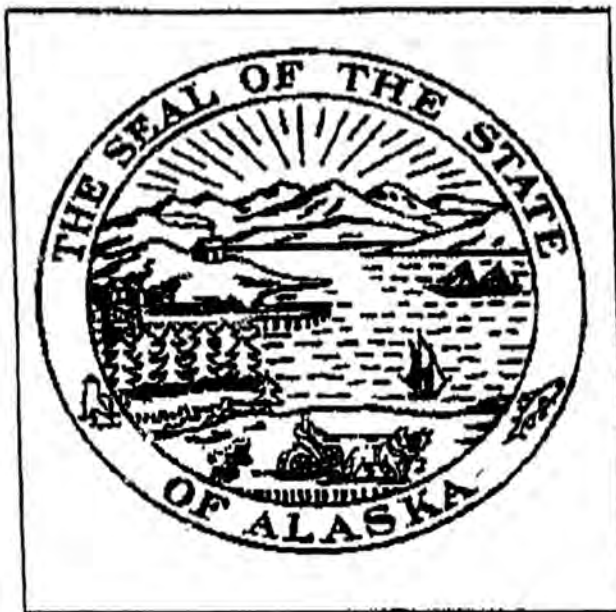
I am glad that we will have the opportunity to talk on Monday at 1:30. Josh and I are in the middle of writing a report on the work in progress on the Salmon Demand Modelling portion of the grant. The main body of the report will be about 100 pages so we are going to summarize the report into a 5 to 10 page executive summary.

The parts of the long report are as follows

- 1) Abstract
- 2) Introduction
- 3) Project's Goals and Objectives
- 4) Progress Report
- 5) Report on Budget
- 6) The Model
- 7) Data Glossary
- 8) Estimation technique
- 9) Estimation results of the exvessel prices for North America and goodness of fit statistics etc.
- 10) Correlation analysis and Estimation results of the exvessel prices for Prince William Sound drift gill net and purse seine, Cook Inlet drift gill, purse seine, Kodiak purse seine and set net, and Southeast hand and power troll by species.
- 11) Conclusion to date.
- 12) Future work to be done

Plus a Executive Summary that will be mainly conclusions of work to date and possible ramifications.

Ginny, Sorry this is late. I just found it on my clock under a pile of rubble. I hope it gets to you on time 😊



FROM:

*Ginny Fay*SENATOR SAM COTTEN
Juneau Office:PO Box V, MS 3100
Room 11, Capitol Bldg
Juneau, AK 99811
FAX: (907) 465-4979
Phone: (907) 465-3711

DATE:

4/9/92

TO:

Jeff Hartman
FRED

FAX #

4/68

MESSAGE:

*Pls. review this language to go
above with the LCM Survey questions
id like to get the forms done today because
the log. res. person is gone Friday &
you are next week*

Number of Pages:

3

(not counting cover sheet)

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ROUTING - REQUEST

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To *Steve McGee*
*Ginny wants us to
 review the cost form
 language and the
 PNP production form
 for non intensively
 modeled sites*

Date

From

she needs by Monday *Jeff H*
my comments attached

correspond to a specific

SALMON ENHANCEMENT FACILITY OPERATING, CONSTRUCTION, AND MANAGEMENT COSTS

Please describe the annual operating and construction costs for your facility. Your cost estimates should be for fiscal years and for all salmon produced by your facility rather than on a project basis (as the production surveys). For each fiscal year or series of years, provide your estimated total annual costs, as well as how costs can be allocated between commercial and sport/personal use fisheries. The percentage of total annual costs allocated between commercial and sport/personal use fisheries should account for the "TOTAL ANNUAL COSTS." The "management costs" column is to be completed by Alaska Department of Fish and Game fisheries managers.

This is different from

what about the cost of production needed for cost recovery?

The results of the survey will be strictly confidential. No results will be reported on an individual facility basis. Instead the results will be used collectively to calculate an average incremental or "marginal" cost of increases or decreases in enhanced salmon production.

1. This first question refers to the annual operating and construction costs of your facility's **currently permitted production**. For each fiscal year or series of years, please include the costs of all salmon production by your facility, and how these costs are allocated between commercial and sport/personal use fisheries production.

2. Please provide information on the source of funds for your facility production costs listed in question one. The information should be reported in percentages that add up to 100 percent for each year.

3. This question refers to the annual costs of your facility's **future expected permitted production**. For each fiscal year or series of years, please include the expected operating and construction costs of all salmon production by your facility, and how you expect these costs to be allocated between commercial and sport/personal use fisheries.

The next series of questions are intended to provide information to determine the potential change in costs of the salmon enhancement program as a result of increases or decreases in production. **The scenarios used to estimate cost changes are completely**

These scenarios are for evaluating a mathematical model of hatchery costs

Early scenario is

①

Granny: It would be nice to have the for each year, are a survey we can't get by with 1991. I'm afraid people won't respond. It's a hard leg. will hold them to their promises.

Good idea, but is it legal under Freedom of Info act?

hypothetical and are not being proposed by either the Legislature or the Alaska Department of Fish and Game.

Question 4 contains five parts, each of which hypothetically eliminates the enhancement program ^{in a facility} for one species while holding the production of all other species at their currently permitted level. The results question 4, together with the results to questions 1 and 3, will be used to calculate the "zero" point on the "production cost curves" for each species.

Total 4a. The *pink* salmon portion of the salmon enhancement program is eliminated while all other components of the program remain at their currently permitted capacity. Please estimate how this would change the annual costs (fiscal year) of your facility and the allocation of these costs between commercial and sport/personal use fisheries. ^{in a facility}

4b. The *chum* salmon portion of the salmon enhancement program is eliminated while all other components of the program remain at their currently permitted capacity. Please estimate how this would change the annual costs (fiscal year) of your facility and the allocation of these costs between commercial and sport/personal use fisheries. ⁵¹¹

4c. *Salmon*
4d. *Salmon*
4e. *King*
Question 5 also contains five parts. In this question, however, each part hypothetically increases by 15 percent the production level of one species while holding the production of all other species at their currently permitted level. The results of question 5, together with the results to questions 1, 3, and 4 will be used to finish calculating the "production cost curves" for each species.

5a. The *pink* salmon portion of the salmon enhancement program is increased by 15 percent while all other components of the program remain at their currently permitted capacity. Please ^{at} estimate how this would change the annual costs (fiscal year) of your facility and the allocation of these costs between commercial and sport/personal use fisheries.

5b. The *chum* salmon portion of the salmon enhancement program is increased by 15 percent while all other components of the

(2)

program remain at their currently permitted capacity^{ies}. Please^{get} estimate how this would change the annual costs (fiscal year) of your facility and the allocation of these costs between commercial and sport/personal use fisheries.

5c same package
5d same/also
5e same/also

(3)

Post-It™ brand fax transmittal memo 7671		# of pages > 3
To	Jeff Hartman	
Co.	FRED	
Dept.	ADFEG	
Fax #	4168	
From	g-fay	
Co.	Cotton	
Phone #	3711	
Fax #	4979	

PROJECT SURVEY

salmon production at your facility.

This second set of production surveys is different from the first set. It contains fewer questions and is directed to different species and projects. We would like this information on a "project" basis. In this survey, a project is also defined as one species and life stage of salmon released at one location. All fish released in one project should have approximately the same assumed survival rate, migration, and exploitation through major fishing districts. For example, if you release chum and pink salmon fry directly from your hatchery, then you have two different projects. Alternatively, if you release coho and chinook smolts from your hatchery and coho smolts to two different unrelated lake and river drainages, then you have four projects. We are requesting that you complete one survey for each project. Thank you!!!!!!

1. Please provide information about your project such as the location and when the project was initiated.

PROJECT DESCRIPTION: _____

2. What is the name of the hatchery involved with this particular project.

FACILITY NAME: _____

3. Region (circle one): SE PWS CI KOD/AK PEN INT/AYK

4. Please enter the project species--pink, chum, sockeye, coho, or chinook.

SPECIES: _____

5. LIFE STAGE OF RELEASE (e.g., emergent fry, fed fry, fingerling, age-0 smolt, age-1 smolt):

6. Please provide your estimated survival rate from the green-egg life stage to release. We are looking for your estimation of the most likely survival rate over the 30-year projected time period, 1992-2022.

HATCHERY SURVIVAL:

Green Egg to Release _____ percent

7. Enter the expected percentage of total marine survival of releases to returning adult. Include in your survival estimate those returning adults harvested in the common property fishery--both commercial and personal use/sport fisheries.

TOTAL SURVIVAL TO ADULT:

- A. Release to adult _____ percent
- B. Survival is estimated by:
- a. coded wire tags _____
- b. minimal estimate based on return to hatchery and terminal harvest

- c. guess based on hatchery return, terminal harvest, and guess of mixed-stock harvest

8. Please provide information on your PROJECT'S current and planned operating capacity and the years in which each of these will be in effect. Planned capacity refers to possible future increases in capacity that you expect to occur. If your current capacity is the same as planned or expected operating capacity, indicate "same" in the planned capacity response space. Please remember that a different form is used for each species and lifestage release. Under the "number released" column, enter the number of fish to be released. The number of fish to be released should be based on the survival percentage listed in question number 6.

PROJECT CAPACITY:

CURRENT/PERMITTED			PLANNED/EXPECTED FUTURE PERMITTED PROD.		
Calendar Years	# Eggs	# Releases	Calendar Years	# Eggs	# Releases
1992 to _____	_____	_____	1992 to _____	_____	_____
_____ to _____	_____	_____	_____ to _____	_____	_____
_____ to _____	_____	_____	_____ to _____	_____	_____
_____ to _____	_____	_____	_____ to _____	_____	_____
_____ to _____	_____	_____	_____ to _____	_____	_____
_____ to _____	_____	_____	_____ to _____	_____	_____
_____ to _____	_____	_____	_____ to _____	_____	_____
_____ to _____	_____	_____	_____ to _____	_____	_____
_____ to 2021	_____	_____	_____ to 2021	_____	_____

9. Please provide information on the number of returning adults to your enhancement project for both your current production capacity and your planned production. As in question 8, planned production refers to the production levels expected to occur in the future that are different than current production capacity.

ADULT RETURNS:

CURRENT		PLANNED	
Calendar Years	Number of Fish	Calendar Years	Number of Fish
1992 to _____	_____	1992 to _____	_____
_____ to _____	_____	_____ to _____	_____
_____ to _____	_____	_____ to _____	_____
_____ to _____	_____	_____ to _____	_____
_____ to _____	_____	_____ to _____	_____
_____ to 2021	_____	_____ to 2021	_____

10. MEAN WEIGHT OF RETURNING ADULT MALES: _____ pounds
11. MEAN WEIGHT OF RETURNING ADULT FEMALES: _____ pounds
12. ADULTS HARVESTED IN COMMERCIAL FISHERY:

CURRENT		PLANNED	
Calendar Years	Number of Fish	Calendar Years	Number of Fish
1992 to _____	_____	1992 to _____	_____
_____ to _____	_____	_____ to _____	_____
_____ to _____	_____	_____ to _____	_____
_____ to _____	_____	_____ to _____	_____
_____ to 2021	_____	_____ to 2021	_____

13. ADULTS HARVESTED IN SPORT/PERSONAL USE FISHERIES:

CURRENT		PLANNED	
Calendar Years	Number of Fish	Calendar Years	Number of Fish
1992 to _____	_____	1992 to _____	_____
_____ to _____	_____	_____ to _____	_____
_____ to _____	_____	_____ to _____	_____
_____ to _____	_____	_____ to _____	_____
_____ to 2021	_____	_____ to 2021	_____

Name of Person Completing Survey: _____

Phone Number: _____

14. Cost Recovery Fisheries



FROM: *ginny fay*

SENATOR SAM COTTEN
Juneau Office:

PO Box V, MS 3100
Room 11, Capitol Bldg
Juneau, AK 99811
FAX: (907) 465-4979
Phone: (907) 465-3711

DATE:

4/9/92

TO:

Jeff Hartman
FRED

FAX # *4168*

MESSAGE:

*P/S - review this language to go
ahead with the econ survey questions
id like to get the forms done today because
the econ. rep. session is going today &
you are next week*

Number of Pages:

7

(not counting cover sheet)

*draft econ survey for
review*

**SALMON ENHANCEMENT FACILITY
OPERATING, CONSTRUCTION, AND MANAGEMENT COSTS**

Please describe the annual operating and construction costs for your facility. Your cost estimates should be for fiscal years and for all salmon produced by your facility rather than on a project basis (as the production surveys). For each fiscal year or series of years, provide your estimated total annual costs, as well as how costs can be allocated between commercial and sport/personal use fisheries. The percentage of total annual costs allocated commercial and sport/personal use fisheries should account for the "TOTAL ANNUAL COSTS." The "management costs" column is to be completed by Alaska Department of Fish and Game fisheries managers.

The results of the survey will be strictly confidential. No results will be reported on an individual facility basis. Instead the results will be used collectively to calculate an average incremental or "marginal" cost of increases or decreases in enhanced salmon production.

1. This question refers to the annual operating and construction costs of your facility's *currently permitted production*. For each fiscal year or series of fiscal years, please include the costs of all salmon production by your facility, and how these costs are allocated between commercial and sport/personal use fisheries production.

[illegible]

potential change in costs of the salmon enhancement program as a result of increases or decreases in production. The scenarios used to estimate costs changes are completely hypothetical and are not being proposed by either the Legislature or the Alaska Department of Fish and Game.

Question 4 contains five parts, each of which hypothetically eliminates the enhancement program for one species while holding the production of all other species at their currently permitted level. The results of question 4, together with the results of questions 1 and 3, will be used to calculate the "zero" point on the "production cost curves" for each species.

\$ 1,000,000 250K SPORT Harvest
250K Commercial

- 4a. The *pink* salmon portion of the salmon enhancement program is eliminated while all other components of the program remain at their currently permitted capacity. Please estimate how this would change the annual costs (fiscal year) of your facility and the allocation of those costs between commercial and sport/personal use fisheries.

Fiscal Year		Costs		Percentage of Total Annual Costs	
From	To	Operating	Construction	Commercial	Sport/Personal
1992				50%	50%

Management Costs
(ADF&G Use Only)

- 4b. The *chum* salmon portion of the salmon enhancement program is eliminated while all other components of the program remain at their currently permitted capacity. Please estimate how this would change the annual costs (fiscal year) of your facility and the allocation of those costs between commercial and sport/personal use fisheries.

Fiscal Year		Costs		Percentage of Total Annual Costs	
From	To	Operating	Construction	Commercial	Sport/Personal
1992					

Management Costs
(ADF&G Use Only)

- 4c. The *sockeye* salmon portion of the salmon enhancement program is eliminated while all other components of the program remain at their currently permitted capacity. Please estimate how this would change the annual costs (fiscal year) of your facility and the allocation of those costs between commercial and sport/personal use fisheries.

Fiscal Year		Costs		Percentage of Total Annual Costs	
From	To	Operating	Construction	Commercial	Sport/Personal
1992					

Management
Costs
(E&G Use Only)

- 4d. The *coho* salmon portion of the salmon enhancement program is eliminated while all other components of the program remain at their currently permitted capacity. Please estimate how this would change the annual costs (fiscal year) of your facility and the allocation of those costs between commercial and sport/personal use fisheries.

Fiscal Year		Costs		Percentage of Total Annual Costs	
From	To	Operating	Construction	Commercial	Sport/Personal
1992					

Management
Costs
(ADE&G Use Only)

- 4e. The *chinook* salmon portion of the salmon enhancement program is eliminated while all other components of the program remain at their currently permitted capacity. Please estimate how this would change the annual costs (fiscal year) of your facility and the allocation of those costs between commercial and sport/personal use fisheries.

Fiscal Year		Costs		Percentage of Total Annual Costs	
From	To	Operating	Construction	Commercial	Sport/Personal
1992					

Management Costs
(ADF&G Use Only)

Question 5 also contains five parts. In this questions, however, each part hypothetically *increases* by 15 percent the production level of one species while holding the production of all other species at their currently permitted level. The results of question 5, together with the results of questions 1, 3, and 4, will be used to finish calculating the "production cost curves" for each species.

- 5a. The *pink* salmon portion of the salmon enhancement program is increased by 15 percent while all other components of the program remain at their currently permitted capacity. Please estimate how this would change the annual costs (fiscal year) of your facility and the allocation of those costs between commercial and sport/personal use fisheries.

Fiscal Year		Costs		Percentage of Total Annual Costs	
From	To	Operating	Construction	Commercial	Sport/Personal
1992					

Management Costs
(ADF&G Use Only)

[illegible]

Management Costs (ADF&G Use Only)

[illegible]

Management Costs (ADF&G Use Only)

SALMON ENHANCEMENT FACILITY
OPERATING, CONSTRUCTION, AND MANAGEMENT COSTS

Please describe the annual operating and construction costs for your facility. Your cost estimates should be for fiscal years and for all salmon produced by your facility rather than on a project basis (as the production surveys). For each fiscal year or series of years, provide your estimated total annual costs, as well as how costs can be allocated between commercial and sport/personal use fisheries. The percentage of total annual costs allocated between commercial and sport/personal use fisheries should account for the "TOTAL ANNUAL COSTS." The "management costs" column is to be completed by Alaska Department of Fish and Game fisheries managers.

The results of the survey will be strictly confidential. No results will be reported on an individual facility basis. Instead the results will be used collectively to calculate an average incremental or "marginal" cost of increases or decreases in enhanced salmon production.

1. This first question refers to the annual operating and construction costs of your facility's *currently permitted production*. For each fiscal year or series of years, please include the costs of all salmon production by your facility, and how these costs are allocated between commercial and sport/personal use fisheries production. *100%*
2. Please provide information on the source of funds for your facility production costs listed in question one. The information should be reported in percentages that add up to 100 percent for each year.
3. This question refers to the annual costs of your facility's *future expected permitted production*. For each fiscal year or series of years, please include the expected operating and construction costs of all salmon production by your facility, and how you expect these costs to be allocated between commercial and sport/personal use fisheries. *100%*

The next series of questions are intended to provide information to determine the potential change in costs of the salmon enhancement program as a result of increases or decreases in production. The scenarios used to estimate cost changes are completely

①

a. Pink
by salmon
enhancement

hypothetical and are not being proposed by either the
Legislature or the Alaska Department of Fish and Game.

Question 4 contains five parts, each of which hypothetically eliminates the enhancement program for one species while holding the production of all other species at their currently permitted level. The results question 4, together with the results to questions 1 and 3, will be used to calculate the "zero" point on the "production cost curves" for each species.

4a. The *pink* salmon portion of the salmon enhancement program is eliminated while all othre components of the program remain at their currently permitted capacity. Please estimate how this would change the annual costs (fiscal year) of your facility and the allocation of these costs between commercial and sport/personal use fisheries.

4b. The *chum* salmon portion of the salmon enhancement program is eliminated while all othre components of the program remain at their currently permitted capacity. Please estimate how this would change the annual costs (fiscal year) of your facility and the allocation of these costs between commercial and sport/personal use fisheries.

Question 5 also contains five parts. In this question, however, each part hypothetically **increases** by 15 percent the production level of one species while holding the production of all other species at their currently permitted level. The results of question 5, together with the results to questions 1, 3, and 4 will be used to finish calculating the "production cost curves" for each species.

5a. The *pink* salmon portion of the salmon enhancement program is **increased by 15 percent** while all other components of the program remain at their currently permitted capacity. Please estimate how this would change the annual costs (fiscal year) of your facility and the allocation of these costs between commercial and sport/personal use fisheries.

5b. The *chum* salmon portion of the salmon enhancement program is **increased by 15 percent** while all other components of the

program remain at their currently permitted capacity. Please estimate how this would change the annual costs (fiscal year) of your facility and the allocation of these costs between commercial and sport/personal use fisheries.

Some suggestions for the letter to PNP operators.

I would like to thank you for the work that you invested the hatchery survey of intensely modeled enhancement projects for the Hatchery Research Project. The contractor for population modeling portion of the project is now using the survey data.

This is the last portion of the surveying for the project, and again we would like to request your help completing 2 forms.

The first form is the SALMON ENHANCEMENT PROJECT survey for the non-intensively modeled projects. It is shorter and simpler than the intensively modeled site form. A sperate form for each project is included. If you have corrections to the project name or to other identifying data, or if there are additional projects not included in the surveys provided, please make the appropriate corrections or additions. Blank forms are attached.

The second form is a cost of production survey for each facility, identified under FACILITY NAME field in the SALMON ENHANCEMENT PROJECT survey. This form, called the FACILITY OPERATING, CONSTRUCTION, AND MANAGEMENT COST SURVEY, is designed to be similar to the type of budget forecasting that you might do for any upcoming fiscal year. One of these forms must be filled out for each facility associated with INTENSELY or NON-INTENSELY modeled projects. There are, however, some special production cost cases, that will require you to project costs for production levels that may never be feasible for you to operate in. These cases are necessary to create a mathematical model of operating and construction costs for the statewide enhancement program, which allows the computation of costs of production levels not included in the survey. These other cases are to be very aggregate in scale, and will not be used to determine benefits and costs of individual hatchery outputs.

Ginny: Some of the following could be put in the instructions if it is too wordy here.

Operating and construction costs for some increased production scenarios are requested in the survey form. These production increases are aggregated by species while production survey forms are filled out for each project. Since some facilities will have more than 1 project and release location for a given species, this may cause some confusion in determining how to apportion these costs between projects. In these cases, the incremental production costs (for the 15% increase scenario) should be estimated for the most likely and efficient combination of production from each project that you have.

Example: Two sockeye projects are carried out at Facility 2. Together they produce 20,000 sockeye harvests in 1994, and are projected to produce 30,000 harvests in 1999 to 2021.

Increased production of project 1 for sockeye salmon (producing

harvests of 10,000 fish in 1996 from smolt releases in previous years) would be difficult to increase by 15% without some radical changes in management, or new construction.

Project 2 also produces 10,000 harvested fish in 1996 but, fry releases could easily be increased to 15% of the total sockeye production of 20,000 harvested fish ($20,000 \times 1.15 = 23,000$ fish from project 2).

Thus, costs for the increase production should be estimated for project 2, the most likely source of increased production.

For the 15% incremental increased production scenario, it may not be practical to increase production for this species at all in your facility. If there is simply no way to do this, without adding a new project, leave the associated 15% production case blank for that species, but note why you could not carry it out on the form.

Finally, the cost projections for the 15% production level increase should be based upon obtaining the increased harvests in one single salmon life cycle, or as nearly as possible to that time interval.

There will undoubtedly be questions about how to fill out the survey, please address these to Steve McGee.



FROM: *ginny fay*

SENATOR SAM COTTEN

Juneau Office:

PO Box V, MS 3100

Room 11, Capitol Bldg

Juneau, AK 99811

FAX: (907) 465-4979

Phone: (907) 465-3711

DATE:

4/9/92

TO:

Jeff Hartman
FRED

FAX #

4/68

MESSAGE:

*Pls. review this language to go
about with the ECA survey questions
id like to get the forms done today because
the leg. rep. person is going away &
you are next week*

Number of Pages:

7

(not counting cover sheet)

*draft ECA survey for
review*

to: Ginny
fr: Jeff Hartman

Here are some ideas for the simplified survey.

Major Changes include:

1. Eliminating all of the data on source of funds.
2. Aggregating by species/facility instead of by project.
3. Eliminating many of the cases, except for current production, planned production, +15% for each species, and -100% for all species.
4. Including management costs (though this gets filled out by comm fish later).
5. Each case constitutes a record, (or Observation in SAS lingo).

System of equations for a production function for enhanced fish.

Background

Data from the Legislatures production and cost survey would be used to develop a function for each of five salmon species that would project the marginal cost of a fish at various production levels.

The Data

Two separate surveys produce a time series on:

- (1) production costs for fish produced at a facility.
- and (2) production harvests that correspond with the projected costs.

The time series is 30 years

For the production harvest model the variables are:
harvest by species/ facility/ year, cases.

Dependent variable is ~~price~~
cost per harvested fish/species/facility.

The Model

Species 5
Regions 5
Facilities 40
Year 30
cases 4

data= #fish/species/facility
and total costs/facility
System of equation such as:

$$SP_i = f(SP_j, tc) \quad i \neq j$$

[illegible][illegible]

Operating, ^{Construction} Capital and Management Costs Survey For projects in both yellow + green surveys for State

Fiscal Years	Operating Costs	Construction	% Sport plus	% Comm	Mo Management
1992 to _____	_____	_____	_____	_____	_____
_____ " _____	_____	_____	_____	_____	_____
_____ " _____	_____	_____	_____	_____	_____
_____ " _____	_____	_____	_____	_____	_____
_____ " _____	_____	_____	_____	_____	_____
_____ " _____	_____	_____	_____	_____	_____
_____ " 2001	_____	_____	_____	_____	_____

Portrait

Optional
 Source of funds
 from State & Fed
 Sources

ay
artman

Ginny:

We did receive your faxed memo and it got things rolling. Thanks. List of the PNP projects that you requested for the non-intensively modeled sites in the economic analysis is attached. Will carry over a clean copy when we meet.

We are reviewing the PNP production survey form and should have final comments on this promptly.

The Wednesday meeting would be very helpful to revise cost survey form. It would be a bit difficult to discuss and test ideas in a memo. Changes you have already made are similar to concept I had in mind.

I am working on a database in Paradox, to summarize the final project names, species/locations and review status of all of the State and PNP projects. By adding additional fields it could house all of the production information. A second database and form for the cost model could be developed. Paradox is relational, so the two files can be combined to display production/cost combinations for any species/facility combination. Form entry makes it easy for clerical people to do data entry. Making the full database and form entry would be a bit of work. I think I would be willing and able to do the database part of this.

The data entry is another problem, that would be very difficult to load onto our clerical staff. What do you think about Leg Research doing data entry from forms? They would need to either purchase a copy of Paradox, (about \$300 to \$500) or temporarily pirate copy from FRED. I'd have to check on the latter.

I am flexible this week for a meeting. Wednesday sounds fine am or pm.

Left Hartman	From	G. Fay
ERED	Co.	Co. 461
- c.g.	Phone #	3711
	Fax #	4979

SPECIES	LIFESTAGE	RELEASE SITE	REGION	HATCHERY	PROJECT	OPERATOR
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Project List for PNP Hatcheries

Southeast Chinook

PWS Pink and Chum

(INTENSIVELY MODELED PROJECTS)

Cook Inlet Sockeye

SPECIES	LIFESTAGE	RELEASE SITE	REGION	HATCHERY	TYPE	PROJECT	OPERATOR
Chinook	smolt	Herring Cove	SE	Whitman Lake	Stocking	SSRAA	
Chinook	smolt	Carroll Inlet	SE	Whitman Lake	Stocking	SSRAA	
Chinook	0-smolt	Carroll Inlet	SE	Beaver Falls	Stocking	SSRAA	
Chinook	smolt	Neets Bay	SE	Neets Bay	Stocking	SSRAA	
Chinook	smolt	Bear Cove	SE	Medveje Creek	Stocking	NSRAA	
Chinook	smolt	Kasnyku Bay	SE	Hidden Falls	Stocking	NSRAA	
Chinook	smolt	Sitka Sound	SE	Sheldon Jackson College	Stocking	SJC	
Chinook	smolt	Burnett Inlet	SE	Burnett Inlet	Stocking	AK AQUA	
Chinook	smolt	Port Armstrong	SE	Port Armstrong	Stocking	AKI	
Chinook	smolt	Gastineau Channel	SE	Gastineau	Stocking	DIPAC	
Chinook	fry	Chilkat River	SE	Gastineau	Stocking	DIPAC	
Chinook	smolt	Taiya Inlet	SE	Burro Creek	Stocking	BCF	
Pink	fry	Port San Juan	PWS	Armin F. Koernig	Stocking	PWSAC	
Pink	fry	Lake Bay	PWS	Esther Lake	Stocking	PWSAC	
Pink	fry	Unukwik Inlet	PWS	Cannery Creek	Stocking	PWSAC	
Pink	fry	Port Valdez	PWS	Solomon Gulch	Stocking	VFDA	
Pink	fry	Boulder Bay	PWS	Solomon Gulch	Stocking	VFDA	
Pink	fry	Naked Island	PWS	Solomon Gulch	Stocking	VFDA	
Chum	fry	Port San Juan	PWS	Armin F. Koernig	Stocking	PWSAC	
Chum	fry	Lake Bay	PWS	Esther Lake	Stocking	PWSAC	
Chum	fry	Unukwik Inlet	PWS	Cannery Creek	Stocking	PWSAC	
Chum	fry	Port Valdez	PWS	Solomon Gulch	Stocking	VFDA	
Sockeye		Packers Lake	CI	Trail Lakes	Stocking	CIAA	
Sockeye		Hidden Lake	CI	Trail Lakes	Stocking	CIAA	
Sockeye	fry	Trail Lake	CI	Trail Lakes	Stocking	CIAA	
Sockeye	fry	Trail Lake	CI	Trail Lakes	Stocking	CIAA	
Sockeye	fry	Paint River Lake	CI	Trail Lakes	Stocking	CIAA	
Sockeye	0-smolt	Coal Creek	CI	Trail Lakes	Stocking	CIAA	
Sockeye	0-smolt	Thumb Cove	CI	Trail Lakes	Stocking	CIAA	

(NON-INTENSIVELY MODELED PROJECTS)

SE - Pink, Chum, Coho, Sockeye

PWS - Coho, Chinook, Sockeye

CI - Pink, Chum, Chinook, Coho

SPECIES	LIFES	RELEASE SITE	REGION	HATCHERY	TYPE	PROJECT	OPERATOR
Chum	fry	Naked Inlet	SE	Whitman Lake	Stocking	SSRAA	

SPECIES	LIFESTAGE	RELEASE SITE	REGION	HATCHERY	TYPE PROJECT	OPERATOR
Chum F	fry	Naket Inlet	SE	Whitman Lake	Stocking	SSRAA
Chum S	fry	Kendrick Bay	SE	Whitman Lake	Stocking	SSRAA
Chum S	fry	Earl West Cove	SE	Whitman Lake	Stocking	SSRAA
Coho	smolt	Naket Inlet	SE	Whitman Lake	Stocking	SSRAA
Coho	smolt	Neets Bay	SE	Whitman Lake	Stocking	SSRAA
Coho	smolt	Earl West Cove	SE	Whitman Lake	Stocking	SSRAA
Coho	smolt	Herring Cove	SE	Whitman Lake	Stocking	SSRAA
Chum S	fry	Neets Bay	SE	Neets Bay	Stocking	SSRAA
Chum F	fry	Neets Bay	SE	Neets Bay	Stocking	SSRAA
Coho	smolt	Neets Bay	SE	Neets Bay	Stocking	SSRAA
Sockeye	0-smolt	George Inlet	SE	Beaver Falls	Stocking	SSRAA
Sockeye	0-smolt	Shrimp Bay	SE	Beaver Falls	Stocking	SSRAA
Pink	fry	Burnett Inlet	SE	Burnett Inlet	Stocking	AAI
Pink	fry	Anita Bay	SE	Burnett Inlet	Stocking	AAI
Chum S	fry	Burnett Inlet	SE	Burnett Inlet	Stocking	AAI
Chum S	fry	Anita Bay	SE	Burnett Inlet	Stocking	AAI
Coho	smolt	Burnett Inlet	SE	Burnett Inlet	Stocking	AAI
Coho	smolt	Bell Island	SE	Bell Island	Stocking	AMERAQUA
Coho	smolt	Bailey Bay	SE	Bell Island	Stocking	AMERAQUA
Steelhead	smolt	Bell Island	SE	Bell Island	Stocking	AMERAQUA
Chum S	fry	Bear Cove	SE	Medvejie Creek	Stocking	NSRAA
Chum S	fry	Deep Inlet	SE	Medvejie Creek	Stocking	NSRAA
Coho	fry	Deer Lake	SE	Medvejie Creek	Stocking	NSRAA
Coho	fry	Patterson Bay Lakes	SE	Medvejie Creek	Stocking	NSRAA
Coho	fry	Kruzof Lakes	SE	Medvejie Creek	Stocking	NSRAA
Coho	smolt	Bear Cove	SE	Medvejie Creek	Stocking	NSRAA
Coho	smolt	Deep Inlet	SE	Medvejie Creek	Stocking	NSRAA
Coho	smolt	Shamrock Bay	SE	Medvejie Creek	Stocking	NSRAA
Chum S	fry	Kasnyku Bay	SE	Hidden Falls	Stocking	NSRAA
Chum S	fry	Takatz Bay	SE	Hidden Falls	Stocking	NSRAA
Coho	fry	Kasnyku Bay	SE	Hidden Falls	Stocking	NSRAA
Chum F	fry	East Camden	SE	Port Camden	Stocking	NSRAA
Chum F	fry	West Camden	SE	Port Camden	Stocking	NSRAA
Pink	fry	Sitka Sound	SE	Sheldon Jackson	Stocking	SJC
Chum S	fry	Sitka Sound	SE	Sheldon Jackson	Stocking	SJC
Coho	smolt	Sitka Sound	SE	Sheldon Jackson	Stocking	SJC
Pink	fry	Sheep Creek	SE	Sheep Creek	Stocking	DIPAC
Chum S	fry	Sheep Creek	SE	Sheep Creek	Stocking	DIPAC
Coho	smolt	Sheep Creek	SE	Sheep Creek	Stocking	DIPAC
Pink	fry	Sheep Creek	SE	Gastineau	Stocking	DIPAC
Pink	fry	Gastineau Channel	SE	Gastineau	Stocking	DIPAC

SPECIES	LIFESTAGE	RELEASE SITE	REGION	HATCHERY	TYPE PROJECT	OPERATOR
Chum S	fry	Sheep Creek	SE	Gastineau	Stocking	DIPAC
Chum S	fry	Gastineau	SE	Gastineau	Stocking	DIPAC
Chum S	fry	Amalga Harbor	SE	Gastineau	Stocking	DIPAC
Chum S	fry	Boat Harbor	SE	Gastineau	Stocking	DIPAC
Chum S	fry	Limestone Inlet	SE	Gastineau	Stocking	DIPAC
Chum S	fry	Sullivan Island	SE	Gastineau	Stocking	DIPAC
Chum S	fry	William Henry Bay	SE	Gastineau	Stocking	DIPAC
Coho	smolt	Gastineau Channel	SE	Gastineau	Stocking	DIPAC
Coho	smolt	Sheep Creek	SE	Gastineau	Stocking	DIPAC
Coho	catchables	Twin Lakes	SE	Gastineau	Stocking	DIPAC
Pink	fry	Gunnuk Creek	SE	Gunnuk Creek	Stocking	KNFC
Pink	fry	Southeast Cove	SE	Gunnuk Creek	Stocking	KNFC
Chum S	fry	Gunnuk Creek	SE	Gunnuk Creek	Stocking	KNFC
Chum S	fry	Southeast Cove	SE	Gunnuk Creek	Stocking	KNFC
Pink	fry	Taiya Inlet	SE	Burro Creek	Stocking	BCF
Chum S	fry	Taiya Inlet	SE	Burro Creek	Stocking	BCF
Coho	smolt	Taiya Inlet	SE	Burro Creek	Stocking	BCF
Pink	fry	Port Armstrong	SE	Port Armstrong	Stocking	AKI
Chum S	fry	Port Armstrong	SE	Port Armstrong	Stocking	AKI
Coho	smolt	Port Armstrong	SE	Port Armstrong	Stocking	AKI
Chum S	smolt	Quillian Bay	PWS	Esther Lake	Stocking	PWSAC
Chum S	smolt	Whittier	PWS	Esther Lake	Stocking	PWSAC
Chum S	smolt	Fleming Spit	PWS	Esther Lake	Stocking	PWSAC
Chum S	smolt	Fleming Spit	PWS	Esther Lake	Stocking	PWSAC
Chum S	smolt	Whittier	PWS	Esther Lake	Stocking	PWSAC
Chum S	smolt	Port Valdez	PWS	Esther Lake	Stocking	PWSAC
Chum S	smolt	Quillian Bay	PWS	Esther Lake	Stocking	PWSAC
Sockeye	fry	Shoestring Lake	PWS	Esther Lake	Stocking	PWSAC
Sockeye	fry	Solf Lake	PWS	Esther Lake	Stocking	PWSAC
Sockeye	smolt	Main Bay (Eshamy)	PWS	Main Bay	Stocking	PWSAC
Sockeye	smolt	Main Bay (Eyak)	PWS	Main Bay	Stocking	PWSAC
Sockeye	smolt	Main Bay (Coghill)	PWS	Main Bay	Stocking	PWSAC
Sockeye	smolt	Eshamy Lake	PWS	Main Bay	Stocking	PWSAC
Coho	smolt	Port Valdez	PWS	Solomon Gulch	Stocking	VFDA
Coho	smolt	Tatitlek Creek	PWS	Solomon Gulch	Stocking	VFDA
Chinook	smolt	Port Valdez	PWS	Solomon Gulch	Stocking	VFDA
Sockeye	fry	Summit Lake	PWS	Gulkana I	Stocking	PWSAC
Sockeye	fry	Cross Wind Lake	PWS	Gulkana I	Stocking	PWSAC
Sockeye	fry	Gulkana River	PWS	Gulkana I	Stocking	PWSAC
Sockeye	fry	Gulkana River	PWS	Gulkana II	Stocking	PWSAC
Chinook	fry	Monsoon Lake	PWS	Gulkana II	Stocking	PWSAC

NMFS 31 32 102 10751
 NMFS FRES DIV. JOURNAL
 FHS NO. 3014054100
 11.00

SPECIES	LIFESTAGE	RELEASE SITE	REGION	HATCHERY	TYPE PROJECT	OPERATOR
Pink	fry	Eklutna	CI	Eklutna	Stocking	CIAA
Chum	fry	Eklutna	CI	Eklutna	Stocking	CIAA
Coho	smolt	Eklutna	CI	Eklutna	Stocking	CIAA
Chinook	smolt	Eklutna	CI	Eklutna	Stocking	CIAA
Coho	smolt	Bear lake	CI	Trail Lakes	Stocking	CIAA
Chinook	smolt	?	CI	Trail Lakes	Stocking	CIAA
Pink	fry	Tutka Lagoon	CI	Tutka	Stocking	CIAA
Pink	fry	Ingram Creek	CI	Tutka	Stocking	CIAA
Pink	fry	Homer Spit	CI	Tutka	Stocking	CIAA
Pink	fry	Halibut Cove	CI	Tutka	Stocking	CIAA
Chum	fry	Tutka Lagoon	CI	Tutka	Stocking	CIAA

DRAFT

Project List for PNP Hatcheries

Southeast Chinook
PWS Pink and Chum
Cook Inlet Sockeye

(INTENSIVELY MODELED PROJECTS)

SPECIES	LIFESTAGE	RELEASE SITE	REGION	HATCHERY	TYPE PROJECT	OPERATOR
Chinook ✓	smolt ✓	Herring Cove ✓	SE	Whitman Lake ✓	Stocking	SSRAA
Chinook ✓	smolt ✓	Carroll Inlet ✓	SE	Whitman Lake ✓	Stocking	SSRAA
Chinook ✓	0-smolt ✓	Carroll Inlet ✓	SE	Beaver Falls ✓	Stocking	SSRAA
Chinook ✓	smolt ✓	Neets Bay ✓	SE	Neets Bay ✓	Stocking	SSRAA
Chinook ✓	smolt ✓	Bear Cove ✓	SE	Medvejie Creek ✓	Stocking	NSRAA
Chinook ✓	smolt ✓	Kasnyku Bay ✓	SE	Hidden Falls ✓	Stocking	NSRAA
Chinook ✓	smolt ✓	Sitka Sound ✓	SE	Sheldon Jackson College ✓	Stocking	SJC
Chinook ✓	smolt ✓	Burnett Inlet ✓	SE	Burnett Inlet ✓	Stocking	AK AQUA
Chinook ✓	smolt ✓	Port Armstrong ✓	SE	Port Armstrong ✓	Stocking	AKI
Chinook ✓	smolt ✓	Gastineau Channel ✓	SE	Gastineau ✓	Stocking	DIPAC
Chinook ✓	fry ✓	Chilkat River ✓	SE	Gastineau ✓	Stocking	DIPAC
Chinook ✓	smolt ✓	Taiya Inlet ✓	SE	Burro Creek ✓	Stocking	BCF
Pink ✓	fry ✓	Port San Juan ✓	PWS	Armin F. Koernig ✓	Stocking	PWSAC
Pink ✓	fry ✓	Lake Bay ✓	PWS	Esther Lake ✓	Stocking	PWSAC
Pink ✓	fry ✓	Unakwik Inlet ✓	PWS	Cannery Creek ✓	Stocking ✓	PWSAC
Pink ✓	fry ✓	Port Valdez ✓	PWS	Solomon Gulch ✓	Stocking	VFDA
Pink ✓	fry ✓	Boulder Bay ✓	PWS	Solomon Gulch ✓	Stocking	VFDA
Pink ✓	fry ✓	Naked Island ✓	PWS	Solomon Gulch ✓	Stocking	VFDA
Chum ✓	fry ✓	Port San Juan ✓	PWS	Armin F. Koernig ✓	Stocking	PWSAC
Chum ✓	fry ✓	Lake Bay ✓	PWS	Esther Lake ✓	Stocking	PWSAC
Chum ✓	fry ✓	Unakwik Inlet ✓	PWS	Cannery Creek ✓	Stocking	PWSAC
Chum ✓	fry ✓	Port Valdez ✓	PWS	Solomon Gulch ✓	Stocking	VFDA
Sockeye ✓	fry ✓	Packers Lake ✓	CI	Trail Lakes ✓	Stocking	CIAA
Sockeye ✓	fry ✓	Hidden Lake ✓	CI	Trail Lakes ✓	Stocking	CIAA
Sockeye ✓	fry ✓	Bear Lake ✓	CI	Trail Lakes ✓	Stocking	CIAA
Sockeye ✓	fry ✓	Chelatna Lake ✓	CI	Trail Lakes ✓	Stocking	CIAA
Sockeye ✓	fry ✓	Paint River Lakes ✓	CI	Trail Lakes ✓	Stocking	CIAA
Sockeye ✓	0-smolt ✓	Coal Creek ✓	CI	Trail Lakes ✓	Stocking	CIAA
Sockeye ✓	0-smolt ✓	Thumb Cove ✓	CI	Trail Lakes ✓	Stocking	CIAA

Survey responses for State and/or PNP salmon salmon enhancement Projects

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Species	Lifestage at release	Release location	Region of Production	Hatchery Involved	Type of Project	Intense Modeled	Filled out by:	Comple	Error chKFRED	Valid Proj	PNP/ STATE
BEAVER FALLS HATCHERY											
RED	FRY	BADGER/BAKEWELL	SE	BEAVER FALLS HATCHERY	STOCK/LIMN	N	MIKE HADDIX	Y	Y	Y	S
RED	FRY	HUGH SMITH	SE	BEAVER FALLS HATCHERY	STOCK/LIMN	N	MIKE HADDIX	Y	Y	Y	S
RED	FRY	MARGARET LAKE	SE	BEAVER FALLS HATCHERY	STOCK/LIMN	N	MIKE HADDIX	Y	Y	Y	S
RED	FRY	MCDONALD LAKE	SE	BEAVER FALLS HATCHERY	STOCK/LIMN	N	MIKE HADDIX	Y	Y	N	S
RED	FRY	SALMON LK/KARTA	SE	BEAVER FALLS HATCHERY	STOCK/LIMN	N	MIKE HADDIX	Y	Y	Y	S
RED	FRY	VIRGINIA LAKE	SE	BEAVER FALLS HATCHERY	STOCK/LIMN	N	MIKE HADDIX	Y	Y	Y	S
BIG LAKE HATCHERY											
COHO	1-AG SMOLT	COTTONWOOD CR	CI	BIG LAKE HATCHERY	STOCK	N	BILL HAUSER	Y	Y	Y	S
COHO	1-AG SMOLT	WASILLA CREEK	CI	BIG LAKE HATCHERY	STOCK	N	BILL HAUSER	Y	Y	Y	S
COHO	SMOLT	FISH CREEK SMOLT	CI	BIG LAKE HATCHERY	STOCK	N	BILL HAUSER	Y	Y	Y	S
RED	FRY	ENGLISH BAY	CI	BIG LAKE HATCHERY	STOCK	Y	BILL HAUSER	Y	Y	Y	S
RED	FRY	MEADOW CR. BIG LK, & NCI	CI	BIG LAKE HATCHERY	STOCK	Y	BILL HAUSER	Y	Y	Y	S

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Species	Lifestage at release	Release location	Region of Production	Hatchery Involved	Type of Project	Intense Modeled	Filled out by:	Completeness	Error checked	Valid Proj	PNP/STATE
BIG LAKE HATCHERY											
RED	FRY	NORTH COOK INLET PROPOSED	CI	BIG LAKE HATCHERY	STOCK	Y	BILL HAUSER	Y	Y	Y	S
RED	SMOLT	WEST COOK INLET	CI	BIG LAKE HATCHERY	STOCK	Y	BILL HAUSER	Y	Y	Y	S
CROOKED CR HATCHERY											
COHO	1-AG SMOLT	CROOKED CREEK	CI	CROOKED CR HATCHERY	STOCK	N	BILL HAUSER	Y	Y	Y	S
COHO	FINGERLING	CARIBOU LAKE	CI	CROOKED CR HATCHERY	STOCK	N	BILL HAUSER	Y	Y	N	S
COHO	FINGERLING	SELDOVIA LAKE	CI	CROOKED CR HATCHERY	STOCK	N	BILL HAUSER	Y	Y	N	S
KING	1-AG SMOLT	HOMER SPIT (LATE)	CI	CROOKED CR HATCHERY	STOCK	N	BILL HAUSER	Y	Y	N	S
KING	1-AG SMOLT	SEWARD (LATE)	CI	CROOKED CR HATCHERY	STOCK	N	BILL HAUSER	Y	Y	N	S
RED	FRY	BRUIN LAKE	CI	CROOKED CR HATCHERY	STOCK/LIMN	Y	BILL HAUSER	Y	Y	Y	S
RED	FRY	CHENIK LAKE	CI	CROOKED CR HATCHERY	STOCK/LIMN	Y	BILL HAUSER	Y	Y	Y	S
RED	FRY	HAZEL LAKE	CI	CROOKED CR HATCHERY	STOCK/LIMN	Y	BILL HAUSER	Y	Y	Y	S
RED	FRY	KATCH BAY LAKS (LEISURE)	CI	CROOKED CR HATCHERY	STOCK	Y	BILL HAUSER	Y	Y	Y	S
RED	FRY	KIRSCHNER LAKE SOCK	CI	CROOKED CR HATCHERY	STOCK/LIMN	Y	BILL HAUSER	Y	Y	Y	S

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Species	Lifestage at release	Release location	Region of Production	Hatchery Involved	Type of Project	Intense Modeled	Filled out by:	Comple	Error chk	Valid FRED	PNP/ STATE
CROOKED CR HATCHERY											
RED	FRY	PORT DICK LAKE	CI	CROOKED CR HATCHERY	STOCK	Y	BILL HAUSER	Y	Y	Y	S
RED	FRY	TUSTUMENA LAKE	CI	CROOKED CR HATCHERY	STOCK/LIMN	Y	BILL HAUSER	Y	Y	Y	S
CRYSTAL LAKE HATCHERY											
COHO	1-AG SMOLT	CRYSTAL CREEK	SE	CRYSTAL LAKE HATCHERY	STOCK	N	BOB ZORICH	Y	Y	Y	S
COHO	FRY	CRYSTAL LAKE F PASS REMT.	SE	CRYSTAL LAKE HATCHERY	FPASS	N	BOB ZORICH	Y	Y	Y	S
KING	1-AG SMOLT	CRYSTAL CREEK	SE	CRYSTAL LAKE HATCHERY	STOCK	Y	BOB ZORICH	Y	Y	Y	S
KING	1-AG SMOLT	EARL WEST-TRANS SMOLT	SE	CRYSTAL LAKE HATCHERY	STOCK	Y	BOB ZORICH	Y	Y	Y	S
KING	1-AG SMOLT	OHMER CR	SE	CRYSTAL LAKE HATCHERY	STOCK	Y	BOB ZORICH	Y	Y	Y	S
KING	FED FRY	FARRAGUT RIVER	SE	CRYSTAL LAKE HATCHERY	STOCK	Y	BOB ZORICH	Y	Y	Y	S
KING	FED FRY	HARDING RIVER	SE	CRYSTAL LAKE HATCHERY	STOCK	Y	BOB ZORICH	Y	Y	Y	S
DEER MOUNTAIN HATCHERY											
KING	1-AG SMOLT	B.SALT,KLA,THORNE BAY	SE	DEER MOUNTAIN HATCHERY	STOCK	Y	CAROL DENTON	Y	Y	Y	S

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Species	Lifestage at release	Release location	Region of Production	Hatchery Involved	Type of Project	Intense Modeled	Filled out by:	Comple	Error ch	Valid FRED	PNP/ Proj	STATE
DEER MOUNTAIN HATCHERY												
DEER MOUNTAIN HATCHERY												
COHO	1-AG SMOLT	KETCHIKAN CR	SE	DEER MOUNTAIN HATCHERY	STOCK	N	CAROL DENTON	Y	Y	Y	S	
COHO	1-AG SMOLT	MARGARET LAKE	SE	DEER MOUNTAIN HATCHERY	STOCK	N	CAROL DENTON	Y	Y	Y	S	
COHO	FINGERLING	REFLECTION LAKE	SE	DEER MOUNTAIN HATCHERY	STOCK	N	CAROL DENTON	Y	Y	Y	S	
COHO	PRE-SMOLT	WARD LAKE	SE	DEER MOUNTAIN HATCHERY	STOCK	N	CAROL DENTON	Y	Y	Y	S	
KING	1-AG SMOLT	KETCHIKAN CR	SE	DEER MOUNTAIN HATCHERY	STOCK	Y	CAROL DENTON	Y	Y	Y	S	
ELMENDORF HATCHERY												
COHO	1-AG SMOLT	HOMER SPIT RELEASE	CI	ELMENDORF HATCHERY	STOCK	N	BILL HAUSER	Y	Y	(N)	S	
COHO	1-AG SMOLT	LOWELL CR RELEASE	CI	ELMENDORF HATCHERY	STOCK	N	BILL HAUSER	Y	Y	(N)	S	
COHO	1-AG SMOLT	SEWARD LAGOON RELEASE	CI	ELMENDORF HATCHERY	STOCK	N	BILL HAUSER	Y	Y	(N)	S	
COHO	1-AG SMOLT	SHIP CREEK	CI	ELMENDORF HATCHERY	STOCK	N	BILL HAUSER	Y	Y	Y	S	
KING	0-AG SMOLT	CROOKED CREEK	CI	ELMENDORF HATCHERY	STOCK	N	BILL HAUSER	Y	Y	(N)	S	

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Species	Lifestage at release	Release location	Region of Production	Hatchery Involved	Type of Project	Intense Modeled	Filled out by:	Completeness	Error checked	Valid PROJ	PNP/STATE
ELMENDORF HATCHERY											
KING	0-AG SMOLT	EAGLE RIVER	CI	ELMENDORF HATCHERY	STOCK	N	BILL HAUSER	Y	Y	Y	S ✓
KING	0-AG SMOLT	HALIBUT COVE	CI	ELMENDORF HATCHERY	STOCK	N	BILL HAUSER	Y	Y	Y	S ✓
KING	0-AG SMOLT	HOMER (EARLY)	CI	ELMENDORF HATCHERY	STOCK	N	BILL HAUSER	Y	Y	(N)	S
KING	0-AG SMOLT	LOWELL CR (SEWARD EARLY)	CI	ELMENDORF HATCHERY	STOCK	N	BILL HAUSER	Y	Y	(N)	S
KING	0-AG SMOLT	SELDOVIA BAY	CI	ELMENDORF HATCHERY	STOCK	N	BILL HAUSER	Y	Y	Y	S ✓
KING	0-AG SMOLT	SEWARD (EARLY)	CI	ELMENDORF HATCHERY	STOCK	N	BILL HAUSER	Y	Y	(N)	S
KING	0-AG SMOLT	SHIP CREEK	CI	ELMENDORF HATCHERY	STOCK	N	BILL HAUSER	Y	Y	Y	S ✓
KING	SMOLT	ISLAND LAKE	KOD	ELMENDORF HATCHERY	STOCK	N	BILL HAUSER	Y	Y	(N)	S
FT RICHARDSON											
COHO	1-AG SMOLT	CASWELL CREEK	CI	FT RICHARDSON	STOCK	N	BILL HAUSER	N	N	Y	S
COHO	1-AG SMOLT	L SUSITNA RIVER	CI	FT RICHARDSON	STOCK	N	BILL HAUSER	Y	Y	Y	S
COHO	SMOLT	CORDOVA	PWS	FT RICHARDSON	STOCK	N	BILL HAUSER	N	N	Y	S
COHO	SMOLT	COVE CREEK (WHITTIER)	PWS	FT RICHARDSON	STOCK	N	BILL HAUSER	N	N	Y	S

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Species	Lifestage at release	Release location	Region of Production	Hatchery Involved	Type of Project	Intense Modeled	Filled out by:	Comple	Error chk	Valid FRED	PNP/ Proj	STATE
FT RICHARDSON												
KING	0-AG SMOLT	NINILCHICK RIVER	CI	FT RICHARDSON	STOCK	N	BILL HAUSER	Y	Y	N	S	3 ✓
KING	0-AG SMOLT	WILLOW CREEK	CI	FT RICHARDSON	STOCK	N	BILL HAUSER	Y	Y	N	S	
GULKANA												
KING	FRY	MONSOON LAKE	PWS	GULKANA	STOCK	N	PWS KEN ROBERSON	Y	Y	Y	S	} ✓
RED	FRY	CROSSWIND LAKE	PWS	GULKANA	STOCK	N	PWS KEN ROBERSON	Y	Y	Y	S	
RED	FRY	GULKANA I HATCHERY(PAXON)	PWS	GULKANA	STOCK	N	PWS KEN ROBERSON	Y	Y	Y	S	
RED	FRY	GULKANA II	PWS	GULKANA	STOCK	N	PWS KEN ROBERSON	Y	Y	Y	S	
RED	FRY	SUMMIT LAKE	PWS	GULKANA	STOCK	N	PWS KEN ROBERSON	Y	Y	Y	S	
KITOI BAY HATCHERY												
CHUM	FINGERLING	KITOI BAY	KOD	KITOI BAY HATCHERY	STOCK	N	LONNIE WHITE	Y	Y	Y	S	} ✓
COHO	FINGERLING	CRESCENT/HIDDEN LAKE	KOD	KITOI BAY HATCHERY	STOCK	N	LONNIE WHITE	Y	Y	Y	S	
COHO	FINGERLING	KODIAK LAKES	KOD	KITOI BAY HATCHERY	STOCK	N	LONNIE WHITE	Y	Y	Y	S	

no adult harvest data

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Species	Lifestage at release	Release location	Region of Production	Hatchery Involved	Type of Project	Intense Modeled	Filled out by:	Completeness	Error checked	Valid Project	PNP/STATE
KITOI BAY HATCHERY											
PINK	FED FRY	KITOI BAY FED	KOD	KITOI BAY HATCHERY	STOCK	Y	LONNIE WHITE	Y	Y	(Y)	S
RED	0-AG SMOLT	KITOI BAY	KOD	KITOI BAY HATCHERY	STOCK	Y	LONNIE WHITE	Y	Y	(Y)	S
RED	FRY	KITOI BAY RELS (REMOTE)	KOD	KITOI BAY HATCHERY	STOCK	Y	LONNIE WHITE	Y	Y	(Y)	S
KLAWOCK											
COHO	FINGERLING	CABLE CR	SE	KLAWOCK	STOCK	N	CAROL DENTON	Y	Y	Y	S
COHO	FINGERLING	OLD FRANK'S LAKE	SE	KLAWOCK	STOCK	N	CAROL DENTON	Y	Y	Y	S
COHO	FINGERLING	THORNE R.	SE	KLAWOCK	STOCK	N	CAROL DENTON	Y	Y	Y	S
COHO	PRE-SMOLT	KLAWOCK LAKE	SE	KLAWOCK	STOCK	N	CAROL DENTON	Y	Y	Y	S
RED	FED FRY	KLAWOCK LAKE FED	SE	KLAWOCK	STOCK	N	CAROL DENTON	Y	Y	Y	S
RED	FRY	KLAWOCK LAKE FRY	SE	KLAWOCK	STOCK	N	CAROL DENTON	Y	Y	Y	S
KODIAK OFFICE											
RED	REHAB	AFOGNAK REHAB	KOD	KODIAK OFFICE	REHAB	Y	LONNIE WHITE	Y	Y	Y	S

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Species	Lifestage at release	Release location	Region of Production	Hatchery Involved	Type of Project	Intense Modeled	Filled out by:	Comple	Error chxFRED	Valid Proj	PNP/ STATE
KOOTIAK OFFICE											
MAIN BAY HATCHERY											
RED	SMOLT	ESHAMY RELEASE	PWS	MAIN BAY HATCHERY	STOCK	N	PWS JOHN MCMULLEN	N	N	Y	P
RED	SMOLT	MAIN BAY RELS (COGHILL)	PWS	MAIN BAY HATCHERY	STOCK	N	PWS JOHN MCMULLEN	N	N	Y	P
RED	SMOLT	MAIN BAY RELS (ESHAMY)	PWS	MAIN BAY HATCHERY	STOCK	N	PWS JOHN MCMULLEN	N	N	Y	P
RED	SMOLT	MAIN BAY RELS (EYAK)	PWS	MAIN BAY HATCHERY	STOCK	N	PWS JOHN MCMULLEN	N	N	Y	P
METLAKATLA											
KING	0-AG SMOLT	TAMGAS CR.	SE	METLAKATLA	STOCK	Y	DAVE HOUSEWORTH	N	N	Y	P
KING	1-AG SMOLT	TAMGAS CR.	SE	METLAKATLA		Y	DAVE HOUSEWORTH		N	Y	P
PILLAR CR HATCHERY											
RED	FED FRY	PILLAR CR RELEASE	KOD	PILLAR CR HATCHERY	STOCK	Y	LONNIE WHITE	Y	Y	Y	S
RED	FED FRY	SPIRIDON L (KOD) RELEASE	KOD	PILLAR CR HATCHERY	STOCK	Y	LONNIE WHITE	Y	Y	Y	S

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Species	Lifestage at release	Release location	Region of Production	Hatchery Involved	Type of Project	Intense Modeled	Filled out by:	Comple	Error chkFRED	Valid Proj	PNP/ STATE
PILLAR CR HATCHERY											
RED	FRY	MALINA LAKE REHAB	KOD	PILLAR CR HATCHERY	STOCK/LIMN	Y	LONNIE WHITE	Y	Y	Y	S ✓
RUSSELL CR HATCHERY											
CHUM	FED FRY	RUSSELL CR CHUM	KOD	RUSSELL CR HATCHERY	STOCK	N	BUTCH COBB	Y	Y	Y	S
COHO	SMOLT	RUSSELL CR RELEASE COHO	KOD	RUSSELL CR HATCHERY	STOCK	N	BUTCH COBB	Y	Y	Y	S
PINK	FRY	RUSSELL CR PINK	KOD	RUSSELL CR HATCHERY	STOCK	N	BUTCH COBB	Y	Y	Y	S
RED	FED FRY	RUSS. CR MORTENSENS L RED	KOD	RUSSELL CR HATCHERY	STOCK	N	BUTCH COBB	Y	Y	Y	S
SIKUSUILAQ HATCHERY											
CHUM	FRY	NOAKAK RIVER	I/AYK	SIKUSUILAQ HATCHERY	STOCK	N	BILL HAUSER	Y	Y	Y	S 3✓
SNETTISHAM											
KING	1-AG SMOLT	DEEP COVE	SE	SNETTISHAM	STOCK	Y	RON JOSEPHSON	Y	Y	Y	S
KING	1-AG SMOLT	JUNEAU (REMOTE)	SE	SNETTISHAM	STOCK	Y	RON JOSEPHSON	Y	Y	Y	S

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Species	Lifestage at release	Release location	Region of Production	Hatchery involved	Type of Project	Intense Modeled	Filled out by:	Comple	Error chKFRED	Valid Proj	PMP/ STATE
SNETTISHAM											
RED	1-AG SMOLT	GILBERT BAY	SE	SNETTISHAM	STOCK	N	RON JOSEPHSON	Y	Y	Y	S
RED	1-AG SMOLT	SNETT HATCH BROOD	SE	SNETTISHAM	STOCK	N	RON JOSEPHSON	Y	Y	Y	S
RED	EMERG FRY	CRESENT LAKE/PORT SNETT	SE	SNETTISHAM	STOCK	N	RON JOSEPHSON	Y	Y	Y	S
RED	EMERG FRY	SWEETHEART LAKE	SE	SNETTISHAM	STOCK	N	RON JOSEPHSON	Y	Y	Y	S
RED	EMERG FRY	TATSAMENIE LAKE (TAKU)	SE	SNETTISHAM	STOCK	N	RON JOSEPHSON	Y	Y	Y	S
RED	EMERG FRY	TRAPPER	SE	SNETTISHAM	STOCK	N	RON JOSEPHSON	Y	Y	Y	S
RED	EMERG FRY	TUYA LAKE/STIKINE	SE	SNETTISHAM	STOCK	N	RON JOSEPHSON	Y	Y	Y	S
RED	FRY	SPEEL LAKE	SE	SNETTISHAM	STOCK	N	RON JOSEPHSON	N	N	Y	S
RED	FRY	TAHLTAN	SE	SNETTISHAM	STOCK	N	RON JOSEPHSON	Y	Y	Y	S
TUTKA BAY HATCHERY											
COHO	FRY	TUTKA	CI	TUTKA BAY HATCHERY	STOCK	N	BILL HAUSER	N	N	Y	P
PINK	FRY	FED IN HALIBUT COVE	CI	TUTKA BAY HATCHERY	STOCK	N	BILL HAUSER	N	N	Y	P
PINK	FRY	FED IN HOMER SPIT	CI	TUTKA BAY HATCHERY	STOCK	N	BILL HAUSER	N	N	Y	P

CIAA