

**EKLUTNA SALMON HATCHERY  
ANNUAL REPORT  
2005**

Cook Inlet Aquaculture Association  
Trenten T. Dodson, CIAA Biologist  
December 2005

This year's operation of the Eklutna Salmon Hatchery was made possible through enhancement taxes paid by commercial salmon fishermen in Area H, Cook Inlet and associated waters, and a grant administered through the National Oceanic and Atmospheric Administration and the Alaska Department of Fish and Game provided by Senator Ted Stevens.

## ABSTRACT

Reports such as this one covering the operations of the Eklutna Salmon Hatchery are prepared annually for each hatchery the Cook Inlet Aquaculture Association (CIAA) operates and are submitted to the Alaska Department of Fish and Game.

Such reports cover a calendar year (report year) and, thus, address overlapping fish brood years.

This report covers events during calendar year 2005.

Schedule A data deal with eggs collected during the report year – 2005.

**Regular sockeye and coho salmon egg collections were not conducted. In the spring of 1998 CIAA made the decision to temporarily suspend operations at this facility. The facility is being maintained to provide emergency fish culture resources for Trial Lakes Hatchery.**

Schedule B data deal with fish released during the report year – 2005.

**Regular sockeye and coho salmon releases were not conducted. In the spring of 1998 CIAA made the decision to temporarily suspend operations at this facility. The facility is being maintained to provide emergency fish culture resources for Trial Lakes Hatchery see Trial Lakes Hatchery Annual Report Schedule B-1 and B-7.**

Schedule C data deal with fish harvested in the common property fisheries; fish used for brood stock and fish harvested for cost recovery revenues during the report year – 2005.

**No sockeye and coho salmon returns were projected. In the spring of 1998 CIAA made the decision to temporarily suspend operations at this facility. The facility is being maintained to provide emergency fish culture resources for Trial Lakes Hatchery.**

Schedule D data project the total adult return for the coming year – 2005.

**There are no fish released by CIAA projected to return for the coming year 2006.**

Schedule F data are presented only when information reported in the prior year's annual report needs to be corrected or updated.

## INTRODUCTION

The Eklutna Salmon Hatchery is owned and operated by CIAA and is located on the Old Glenn Highway between Anchorage and Palmer. In the spring of 1998 CIAA made the decision to temporarily suspend operations at this facility. When the facility is in operation, fish releases are made for the primary purpose of contributing to the common property fisheries of Cook Inlet. The facility is being maintained to provide emergency fish culture resources to Trail Lakes Hatchery.

The Eklutna Salmon Hatchery operates under Private Non-Profit Permit #17 issued in 1982 and has a current permitted capacity of 18.0 million sockeye salmon eggs and 0.160 million coho salmon eggs. The Fish Transport Permits (FTP's) under which CIAA operates the programs of the Eklutna Salmon Hatchery are as follows:

Permit Number	Expiration Date	Activity
<b>95A-0064</b>	12/31/05	Transport and release of up to 1.67 million Meadow Creek stock sockeye salmon smolts at Grouse Lake. Total releases into Grouse Lake from all sources cannot exceed 3.34 million smolt. <i>This FTP was replaced by FTP 98A-0058 for Trail Lakes Hatchery which has an expiration date of 07/31/02.</i>
<b>96A-0028</b>	12/31/06	Collection of up to 0.160 million coho salmon eggs from returning adults and the rearing and releases of up to 0.100 million of the subsequent smolts into the Eklutna tailrace.
<b>96A-0080</b>	12/31/07	Transport and release of up to 1.25 million sockeye salmon fry at Hazel Lake. <i>This FTP was replaced by FTP 98A-0059 for Trail Lakes Hatchery which has an expiration date of 07/31/02.</i>
<b>96A-0081</b>	12/31/07	Transport and release of up to 0.25 million sockeye salmon fry at Kirschner Lake. <i>This FTP was replaced by FTP 98A-0060 for Trail Lakes Hatchery which has an expiration date of 07/31/02.</i>
<b>96A-0082</b>	12/31/07	Transport and release of up to 2.00 million sockeye salmon fry at Leisure Lake. <i>This FTP was replaced by FTP 98A-0061 for Trail Lakes Hatchery which has an expiration date of 07/31/02.</i>
<b>05A-0068</b>	06/15/05	Transfer 0.40 million Bear Lake sockeye salmon smolt to Eklutna Salmon Hatchery
<b>05A-0069</b>	06/15/05	Transfer 0.45 million Bear Lake coho salmon smolt to Eklutna Salmon Hatchery

# ANNUAL REPORT SALMON HATCHERY

Year Ended December 15, 2005

Hatchery name/Location  
Permit holder name/Address

<b>Eklutna Salmon Hatchery</b>
Cook Inlet Aquaculture Association
40610 Kalifornsky Beach Rd

Person to contact  
regarding this report

Trenten Dodson	name
907-283-5761	phone

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## DECLARATION AND SIGNATURE

I declare that the information given in this annual report is, to my knowledge, true, correct and complete.

Gary Fandrei, Executive Director  
Name of Legal Representative

12/20/2005  
Date

Signature of Representative

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### Part 1. REPORT OF THIS YEAR'S PERFORMANCE

A. Complete the following schedules of production statistics for this year. Use the metric system for length and weight measurements.

Schedule A- Annual Broodstock Report

Schedule B- Fish Culture Report

Schedule C- Harvest Management and Hatchery Returns

If this site is a central incubation Facility, complete a separate schedule for each remote release site.

### Part 2. PROJECTED RETURNS FOR NEXT YEAR

A. Complete Schedule D with each species and each release site.

### Part 3. UPDATED SCHEDULES FOR PRIOR YEAR ANNUAL REPORT ARE NOW MANDATORY

A. Updated schedule C (called F) is attached. Please update the information we have on file, if changes have occurred or numbers have been finalized.

# SCHEDULE A-1

## ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

Complete this schedule for each species/ stock of eggs taken this year.

1. Species  **Eklutna Salmon Hatchery**
2. Donor stream (name/number):
3. Adults used for broodstock  females  males  jacks  total
4. Average length and weight of adults used for broodstock
- |          |                      |    |                      |    |
|----------|----------------------|----|----------------------|----|
| females> | <input type="text"/> | cm | <input type="text"/> | kg |
| males>   | <input type="text"/> | cm | <input type="text"/> | kg |
5. Average fecundity (eggs/female):
6. Eggtake dates:
7. Number of green eggs taken:
8. Number placed in hatchery<sup>1</sup>
9. Number surviving to eyed   % survival<sup>2</sup>
10. Describe procedures used for egg takes and evaluation of in-hatchery survivals:

**In the spring of 1998 CIAA made the decision to temporarily suspend operations at this facility**

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## SCHEDULE B-1 ANNUAL FISH CULTURE PRODUCTION REPORT

Complete this schedule for each species and stock of eggs (or fish) cultured this year from prior broodyears. Please provide explanations for any differences in reported numbers of green eggs and eyed eggs from those reported last year by species and stock

### FISH CULTURE REPORT

**Eklutna Salmon Hatchery**

Species:

Stock:

Brood year:

#### A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs		100%	
2. Eyed eggs		#DIV/0!	
3. Emergent fry		#DIV/0!	
4. Fed fry		#DIV/0!	
5. Smolts		#DIV/0!	

#### B. Release Information

Site	Release			Size		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Total:	-						

#### C. Tagging/Marking

6. Number of fish marked or tagged (by release group and method of marking)

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#### D. Other

7. Report any diseases, rearing problems, or significant mortalities among these fish.

In the spring of 1998 CIAA made the decision to temporarily suspend operations at this facility  
The facility is being maintained as a emergency fish culture resource for Trail Lakes Hatchery. In  
2005, water supply problems at TLH forced CIAA to temporarily rear sockeye and coho salmon  
smolts at ESH. The Annual Fish Culture Production Report for these fish is described in the Trail  
Lakes Annual Hatchery Report Schedual B-1 and B-7.

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## SCHEDULE C-1

### HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

<b>Species:</b>	<input type="text"/>		<b>Eklutna Salmon Hatchery</b>
<b>Location of harvest/return</b>	<input type="text" value="Eklutna Tailrace"/>		
1. Number of fish harvested under Hatchery Harvest Permit		adults	<input type="text"/>
2. Hatchery broodstock		jacks	<input type="text"/>
3. Broodstock for hatchery watershed			<input type="text"/>
4. Jacks			<input type="text"/>
5. Excess fish (surplus to all other requirements) <sup>1</sup>			<input type="text"/>
6. Other: <sup>2</sup>	explain> <input type="text"/>	number	<input type="text"/>
<b>7. Total return to hatchery</b>			<b>-</b>
8. Estimated contribution to common property fisheries			
A. Commercial			
1. Troll			<input type="text"/>
2. Gillnet			<input type="text"/>
3. Seine			<input type="text"/>
<b>TOTAL</b>			<b>-</b>
B. Sport			<input type="text"/>
C. Other:	explain> <input type="text"/>		<input type="text"/>
<b>9. Total return(sum 7+8A, B, C)</b>			<b>-</b>

	BY	Total # returning in 2005	cumulative % survival	
10. Estimated ocean survival by BY <sup>3</sup>	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
11. Average size of fish sold	<input type="text"/>	<input type="text"/>	<length-cm	wt-kg
12. Date(s) of harvest	<input type="text"/>			
13. Gear type or method used	<input type="text"/>			
	A. # fish	B. Lbs (fish/roe)	C. \$/lb received	D. Total \$ received
14. Whole fish harvested/sold	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
15. Fish donated	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
16. Carcasses sold	<input type="text"/>	<input type="text"/>	<input type="text"/>	\$ -
17. Roe processed/sold	<input type="text"/>	<input type="text"/>	<input type="text"/>	\$ -
18. Broodstock disposed	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
19. Total dollars received (sum lines 14,16,17)				<b>\$ -</b>
20. Total corporate revenue <sup>4</sup>	sources <input type="text"/>			\$ 2,181,361.16
21. Amount required to recover corporate costs				\$ 1,992,638.82
22. Total surplus or deficit at corporation(line 20-line 21)				<b>\$ 188,722</b>

**In the spring of 1998 CIAA made the decision to temporarily suspend operations at this facility**

**The facility is being maintained as a emergency fish culture resource for Trail Lakes Hatchery. In 2005, water supply problems at TLH forced CIAA to temporarily rear sockeye and coho salmon smolts at ESH. The Annual Fish Culture Production Report for these fish is described in the Trail Lakes Annual Hatchery Report Schedules B-1 and B-7.**

<sup>1</sup> **Excess fish.** (e.g. extra or green males, extra or unviable females whose roe was not sold).

<sup>2</sup> **Other fish.** (e.g. fish remaining in saltwater after egg take is complete).

<sup>3</sup> **Estimated ocean survival.** Provide method used in estimation.

<sup>4</sup> **Total corporate revenue.** Defined as all income to the corporation including but not limited to: cost recovery, carcass and egg sales, donations, grants, loan proceeds, interest income, rental and/or lease income, revenues from sales proceeds of assets and inventory.

Period covered is January 1 – December 31.





## SCHEDULE F-1

### UPDATED 2004 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete this schedule for each special harvest area and species of fish with updated numbers from last year's annual report. If there are no changes to the data, write in "no changes from 2004 AR" at the bottom of the form.

Species:

**Eklutna Salmon Hatchery**

<p>1. Number of fish harvested under Hatchery Harvest Permit</p> <p>2. Hatchery broodstock</p> <p>3. Broodstock for hatchery watershed</p> <p>4. Jacks</p> <p>5. Excess fish (surplus to all other requirements)<sup>1</sup></p> <p>6. Other: <sup>2</sup> <input style="width: 100px;" type="text"/> explain&gt;</p> <p><b>7. Total return to hatchery</b></p> <p>8. Estimated contribution to common property fisheries</p> <p style="margin-left: 20px;">A. Commercial</p> <p style="margin-left: 40px;">1. Troll</p> <p style="margin-left: 40px;">2. Gillnet</p> <p style="margin-left: 40px;">3. Seine</p> <p style="margin-left: 20px;"><b>TOTAL</b></p> <p style="margin-left: 20px;">B. Sport</p> <p style="margin-left: 20px;">C. Other: <input style="width: 100px;" type="text"/> explain&gt;</p> <p><b>9. Total return(sum 7+8A, B, C)</b></p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">adults</td> <td style="width: 40%;"><input style="width: 90%;" type="text"/></td> <td style="width: 50%;"></td> </tr> <tr> <td style="text-align: center;">jacks</td> <td><input style="width: 90%;" type="text"/></td> <td></td> </tr> <tr> <td></td> <td><input style="width: 90%;" type="text"/></td> <td></td> </tr> <tr> <td></td> <td><input style="width: 90%;" type="text"/></td> <td></td> </tr> <tr> <td></td> <td><input style="width: 90%;" type="text"/></td> <td></td> </tr> <tr> <td style="text-align: center;">number</td> <td><input style="width: 90%;" type="text"/></td> <td style="text-align: right; background-color: #ffff00;">-</td> </tr> <tr> <td></td> <td><input style="width: 90%;" type="text"/></td> <td></td> </tr> <tr> <td></td> <td><input style="width: 90%;" type="text"/></td> <td style="text-align: right; background-color: #ffff00;">-</td> </tr> <tr> <td></td> <td><input style="width: 90%;" type="text"/></td> <td></td> </tr> <tr> <td></td> <td><input style="width: 90%;" type="text"/></td> <td style="text-align: right; background-color: #ffff00;">-</td> </tr> </table>	adults	<input style="width: 90%;" type="text"/>		jacks	<input style="width: 90%;" type="text"/>			<input style="width: 90%;" type="text"/>			<input style="width: 90%;" type="text"/>			<input style="width: 90%;" type="text"/>		number	<input style="width: 90%;" type="text"/>	-		<input style="width: 90%;" type="text"/>			<input style="width: 90%;" type="text"/>	-		<input style="width: 90%;" type="text"/>			<input style="width: 90%;" type="text"/>	-
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	BY	Total # returning in 04	cumulative % survival	
10. Estimated ocean survival by BY <sup>3</sup>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	%
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	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	%

11. Average size of fish sold	<input style="width: 90%;" type="text"/>	<length-cm	<input style="width: 90%;" type="text"/>	wt-kg
12. Date(s)/location(s) of harvest	<input style="width: 100%;" type="text"/>			
13. Gear type or method used	<input style="width: 100%;" type="text"/>			
	A. # fish	B. Lbs (fish/roe)	C. \$/lb received	D. Total \$ received
14. Whole fish harvested/sold	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	\$ -
15. Fish donated	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	
16. Carcasses sold	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	\$ -
17. Roe processed/sold	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	\$ -
18. Broodstock disposed	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	<input style="width: 80%;" type="text"/>	
19. Total dollars received (sum lines 14,16,17)				\$ -
20. Total corporation revenue <sup>4</sup> sources	<input style="width: 100%;" type="text"/>			
21. Amount required to recover corporation costs	<input style="width: 100%;" type="text"/>			
22. Total surplus or deficit at corporation(line 20-line 21)				\$ -

**In the spring of 1998 CIAA made the decision to temporarily suspend operations at this facility**

no changes from 2004 AR

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<sup>1</sup> **Excess fish.** (e.g. extra or green males, extra or unviable females whose roe was not sold).

<sup>2</sup> **Other fish.** (e.g. fish remaining in saltwater after egg take is complete).

<sup>3</sup> **Estimated ocean survival.** Provide method used in estimation.

<sup>4</sup> **Total corporate revenue.** Defined as all income to the corporation including but not limited to: cost recovery, carcass and egg sales, donations, grants, loan proceeds, interest income, rental and/or lease income, revenues from sales proceeds of assets and inventory. Period covered is January 1 – December 31.