

**EKLUTNA SALMON HATCHERY
ANNUAL REPORT
2008**

Cook Inlet Aquaculture Association
Gary Fandrei, Executive Director
December 2008

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, the harvest and sale of surplus fish and a grant provided by Senator Ted Stevens administered through the National Oceanic and Atmospheric Administration and the Alaska Department of Fish and Game.

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 2008. During 2007, the Eklutna Salmon Hatchery Basic Management Plan was amended and redrafted. This report reflects the changes that were made in 2007.

Schedule A data deal with eggs collected during the report year – 2008.

Regular sockeye and coho salmon egg collections were not conducted. In the spring of 1998, CIAA made the decision to temporarily suspend egg collection and fish incubation at this facility; and in 2007, egg collection and incubation were deleted from the Basic Management Plan.

The facility provides additional fish rearing resources for Resurrection Bay and Big Lake sockeye smolt when water supplies are limited at Trail Lakes Hatchery.

Schedule B data deal with fish released during the report year – 2008.

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; and in 2007, regular sockeye and coho salmon releases were deleted from the Basic Management Plan.

The facility provides additional fish rearing resources for Resurrection Bay and Big Lake sockeye smolt when water supplies are limited at Trail Lakes Hatchery. Resurrection Bay and Big Lake sockeye release information is presented in the Trail Lakes Hatchery Annual Report and not addressed in the Eklutna Salmon Hatchery Annual Report.

ADF&G releases Chinook salmon to the Eklutna tailrace after temporarily holding the fish at the Eklutna Salmon Hatchery. The Chinook salmon release is part of the Elmendorf/Fort Richardson Hatchery release plan and is not addressed in the Eklutna Salmon Hatchery Annual Report.

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 – 2008.

No sockeye and coho salmon returns were projected. In the spring of 1998, CIAA made the decision to temporarily suspend operations at this facility; and in 2007, regular sockeye and coho salmon returns were deleted from the Basic Management Plan.

The facility provides additional fish rearing resources for Resurrection Bay and Big Lake sockeye smolt when water supplies are limited at Trail Lakes Hatchery. Resurrection Bay and Big Lake sockeye return information is presented in the Trail Lakes Hatchery Annual Report and is not addressed in the Eklutna Salmon Hatchery Annual Report.

Schedule D data project the total adult return for the coming year – 2009.

There are no fish released by CIAA projected to return for the coming year 2009. In the spring of 1998, CIAA made the decision to temporarily suspend operations at this facility; and in 2007, regular sockeye and coho salmon returns were deleted from the Basic Management Plan.

The facility provides additional fish rearing resources for Resurrection Bay and Big Lake sockeye smolt when water supplies are limited at Trail Lakes Hatchery. Resurrection Bay and Big Lake sockeye return information is presented in the Trail Lakes Hatchery Annual Report and is not addressed in the Eklutna Salmon Hatchery Annual Report.

ADF&G releases Chinook salmon to the Eklutna tailrace after temporarily holding the fish at the Eklutna Salmon Hatchery. The Chinook salmon release is part of the Elmendorf/Fort Richardson Hatchery release plan and is not addressed in the Eklutna Salmon Hatchery Annual Report.

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

In 2007, ADF&G requested CIAA review all reported hatchery returns and provide corrected information to the Department. A Schedule F was completed for every release from the Eklutna Salmon Hatchery since 1982 and included in the 2007 report. There are no prior year's annual report corrections required in 2008.

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; and in 2007, regular sockeye and coho salmon returns were deleted from the Basic Management Plan.

The facility provides additional fish rearing resources for Resurrection Bay and Big Lake sockeye smolt when water supplies are limited at Trail Lakes Hatchery. Resurrection Bay and Big Lake sockeye information is presented in the Trail Lakes Hatchery Annual Report and is not addressed in the Eklutna Salmon Hatchery Annual Report.

The Eklutna Salmon Hatchery operates under Private Non-Profit Permit #17 issued in 1982. 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
07A-0061 <i>(issued to TLH)</i>	06/30/11	Allows for the egg collection, incubation and release of up to 1,536,000 smolt to Resurrection Bay and the temporary rearing at the ESH during periods of water shortages. <i>This permit replaces FTPs 01A-0111 and 01A-0112.</i>
08A-0024 <i>(issued to TLH)</i>	06/30/10	Allows for the egg collection, incubation and release of up to 1,000,000 smolt to Big Lake (Meadow Creek) and the temporary rearing at the ESH during periods of water shortages.

ANNUAL REPORT

SALMON HATCHERY

Year Ended December 1, 2008

Hatchery name/Location
Permit holder name/Address

Eklutna Salmon Hatchery
Cook Inlet Aquaculture Association
40610 Kalifornsky Beach Road
Kenai, Alaska 99611-6445

Person to contact
regarding this report

Gary Fandrei
(907) 283-5761

name
phone

DECLARATION AND SIGNATURE

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

Gary Fandrei
Name of Legal Representative

12/16/2008
Date

Signature of Representative

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 for each species and each release site.

Part 3. UPDATED SCHEDULES FOR PRIOR YEAR ANNUAL REPORT ARE 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

Eklutna Salmon Hatchery

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

1. Species					
2. Stock (donor stream name/number)					
3. Viable broodstock (spawned, eggs in incubators)	female s		male s	-	total
4. Inviabile broodstock (green/over-ripe/bad)	female s		male s	-	total
5. Unspawned fish (roe recovery, excess males)					
6. Holding mortalities (raceway, pen mortalities)					
7. Adults captured for broodstock (sum 3 thru 6)	-				
8. Average length and weight of adults used for broodstock					
females>		cm		kg	
males>		cm		kg	
9. Average fecundity (eggs/female)					
10. Eggtake dates:					
11. Number of green eggs taken					
12. Number of eggs transferred (annotate below)					
13. Number placed in hatchery ¹					
14. Number surviving to eyed					
	#DIV/0! % survival ²				

15. Describe procedures used for egg takes and evaluation of in-hatchery survivals:
 Regular salmon egg collections were not conducted. This facility provides additional fish rearing resources for

Resurrection Bay and Big Lake sockeye smolt when water supplies are limited at Trail Lakes Hatchery.

1. Provide explanation if greater than number of green eggs taken.

2. Provide explanation for survivals less than 90%.

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: Sockeye Stock: Bear Lake Brood year: 2006

A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs		100.0 %	
2. Eyed eggs		#DIV/0!	
3. Emergent fry		#DIV/0!	
4. Fed fry		#DIV/0!	Smolts transferred from TLH to ESH January 31, February 3,6,7,8
5. Smolts	2,012,000	#DIV/0!	& 9, 2008

B. Release Information

Site	Number	date	Release lifestage	Size		Expected adult return	Year(s) of return
				gm/fish	mm/fish		
Bear Lake (Seward)	1,600,000	6/12/2008	smolts	10.4		160,000	2010 & 2011

Total: 1,600,000

C. Tagging/Marking

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

D. Other

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

This facility provides additional fish rearing resources for Resurrection Bay (Bear Lake)

sockeye smolt when water supplies are limited at Trail Lakes Hatchery. Resurrection Bay

(Bear Lake) sockeye release information is presented in the Trail Lakes Hatchery Annual

Report and not fully addressed in the Eklutna Salmon Hatchery Annual Report.

SCHEDULE B-2

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:	Sockeye	Stock:	Meadow Ck (Big Lake)	Brood year:	2006
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A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs		100.0 %	
2. Eyed eggs		#DIV/0!	
3. Emergent fry		#DIV/0!	
4. Fed fry		#DIV/0!	Smolts transferred from TLH to ESH February 12, 13, 14, 16,
5. Smolts	523,000	#DIV/0!	& 19, 2008

B. Release Information

Site	Number	date	Release lifestage	Size		Expected adult return	Year(s) of return
				gm/fi sh	mm/fi sh		
Meadow Ck.	433,000	5/28,29/08	smolt	10.1		43,300	2010 & 2011

Total: 433,000

C. Tagging/Marking

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

D. Other

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

This facility provides additional fish rearing resources for Big Lake (Meadow Creek)

sockeye smolt when water supplies are limited at Trail Lakes Hatchery. Big Lake

(Meadow Creek) sockeye release information is presented in the Trail Lakes Hatchery

Annual Report and not fully addressed in the Eklutna Salmon Hatchery Annual Report.

SCHEDULE C-1

HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

**Eklutna
Salmon
Hatchery**

Species:

Location of harvest/return:

Hatchery Escapement

1. Cost recovery fish (Sch. C sum of lines 16A,16B,16C) traditional harvest plus roe and milt recovery fish
2. Adults captured for broodstock (Sch. A line 7) minus roe and milt recovery fish (Sch. C lines 16B and 16C)
3. Escapement for hatchery watershed (as required in permit)
4. Jacks
5. Other ¹ (annotate in comments section)
6. Other ¹ (annotate in comments section)
7. Other ¹ (annotate in comments section)

-
-

8. Total return to hatchery

Common Property Harvest

9. Commercial ²

- A. Troll
- B. Gillnet
- C. Seine
- D. Other (annotate in comments section)

Total commercial

-

10. Non-commercial ²

- A. Sport
- B. Personal Use
- C. Subsistence
- D. Other (annotate in comments section)

Total non-commercial

-

11. Total Return (sum 8,9,10)

-

	BY	Total # returning in 2008	Cumulative Survival	
	12. Estimated ocean survival by BY 2			
				%
				%
				%
				%
				%

13. Average size of fish sold		<length-cm		wt-kg
14. Date(s) of harvest				
15. Gear type or method used				

16. Disposition of Hatchery Escapement

	# fish	lbs. fish
A Fish harvested/sold		
. adults		
jacks		
total	-	-

	# fish	lbs. roe/milt
B . Roe recovery	-	
C . Milt recovery	-	

D . Carcasses	# Disposed	# Donated	# Sold
Spawners			
Roe recovery (during eggtake)			
Roe recovery (non-eggtake)			
Milt recovery (during eggtake)			
Milt recovery (non-eggtake)			
Other (annotate in comments)			
total number of fish	-	-	-
total pounds			

Comments:

This facility provides additional fish rearing resources for Resurrection Bay and Big Lake sockeye smolt when water supplies are limited at

Trail Lakes Hatchery. Resurrection Bay and Big Lake sockeye return information is presented in the Trail Lakes Hatchery Annual Report and

is not fully addressed in the Eklutna Salmon Hatchery Annual Report.

1. **"Other" use one line per category.** (e.g. fish remaining in saltwater, sea lion predation, etc.).

2. **Commercial harvest, non-commercial harvest, and estimated ocean survival. Provide method used in estimation.**

SCHEDULE D
PROJECTED RETURNS FOR 2009

Species	Release Site	Total number of fish expected	Range in expected return	
			minimum	maximum
This facility provides additional fish rearing resources for Resurrection Bay and Big Lake				
sockeye smolt when water supplies are limited at Trail Lakes Hatchery. Resurrection Bay				
and Big Lake sockeye return information is presented in the Trail Lakes Hatchery Annual				
Report and is not fully addressed in the Eklutna Salmon Hatchery Annual Report.				

SCHEDULE F-1

UPDATED 2007 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project 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 2007 AR" at the bottom of the form.

Species:
Location of harvest/return:

**Eklutna
Salmon
Hatchery**

Hatchery Escapement

1. Cost recovery fish (Sch. F sum of lines 16A,16B,16C) traditional harvest plus roe and milt recovery fish
2. Adults captured for broodstock (Sch. A line 7) minus roe and milt recovery fish (Sch. F line 16B and 16C)
3. Escapement for hatchery watershed (as required in permit)
4. Jacks
5. Other ¹ (annotate in comments section)
6. Other ¹ (annotate in comments section)
7. Other ¹ (annotate in comments section)

-
-

8. Total return to hatchery

Common Property Harvest

9. Commercial ²

- A. Troll
- B. Gillnet
- C. Seine
- D. Other (annotate in comments section)

Total commercial

-

10. Non-commercial ²

- A. Sport
- B. Personal Use
- C. Subsistence
- D. Other (annotate in comments section)

Total non-commercial

-

11. Total Return (sum 8,9,10)

-

	BY	Total # returning in 2007	Cumulative Survival	
				%
12. Estimated ocean survival by BY ²				%
				%
				%
				%
				%
				%

13. Average size of fish sold <length-cm wt-kg

14. Date(s) of harvest

15. Gear type or method used

16. Disposition of Hatchery Escapement

	# fish	lbs. fish
A Fish harvested/sold adults		
jacks		
total	-	-

	# fish	lbs. roe/milt
B Roe recovery	-	
C Milt recovery	-	

	# Disposed	# Donated	# Sold
D Carcasses			
Spawners			
Roe recovery (during eggtake)			
Roe recovery (non-eggtake)			
Milt recovery (during eggtake)			
Milt recovery (non eggtake)			
Other (annotate in comments)			
total number of fish	-	-	-
total pounds			

Comments:

No changes from the 2007 Annual Report

1. **"Other" use one line per category.** (e.g. fish remaining in saltwater, sea lion predation, etc.).
2. **Commercial harvest, non-commercial harvest, and estimated ocean survival. Provide method used in estimation.**