

**TUTKA BAY LAGOON HATCHERY  
ANNUAL REPORT  
2007**

Cook Inlet Aquaculture Association  
Gary Fandrei, Executive Director  
December 2007

This year's operation of the Tutka Bay Lagoon 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 Tutka Bay Lagoon 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 2007.

Schedule A data deal with eggs collected during the report year – 2007.

**No eggs were collected in 2007. The pink salmon release program has been suspended.**

**No sockeye salmon program dedicated to this facility is currently conducted, and no sockeye eggs were collected for this facility in 2007. The facility is being used to temporarily rear and release sockeye salmon smolts for a Trail Lakes Hatchery Program. See Trail Lakes Hatchery Annual Report Schedule A for egg collections for this release program.**

Schedule B data deal with fish released during the report year – 2007.

**No pink salmon fry were released in 2007. The pink salmon release program has been suspended.**

**No sockeye salmon program dedicated to this facility is currently conducted, and no sockeye salmon were released for this facility in 2007. The facility is being used to temporarily rear and release sockeye salmon smolts for a Trail Lakes Hatchery Program. See Trail Lakes Hatchery Annual Report Schedule B for release data for this release program.**

Schedule C data deal with fish harvested in the common property fisheries; fish used for broodstock and fish harvested for cost recovery revenues during the report year – 2007.

**No stocked pink salmon adults returned in 2007. The pink salmon release program has been suspended.**

**No sockeye salmon program dedicated to this facility is currently conducted and no adult sockeye for this facility returned in 2007. The facility is being used to temporarily rear and release sockeye salmon smolts for a Trail Lakes Hatchery Program. See Trail Lakes Hatchery Annual Report Schedule C for return data for this release program.**

Schedule D data project the total adult return for the coming year – 2008.

**No stocked pink salmon adults are projected to return for the coming year 2008. The pink salmon release program has been suspended.**

**No sockeye salmon program dedicated to this facility is currently conducted and no adult sockeye for this facility are projected to return in 2008. The facility is being used to temporarily rear and release sockeye salmon smolts for a Trail Lakes Hatchery Program. See Trail Lakes Hatchery Annual Report Schedule D for projected return data for this release program.**

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

**There were no corrections or updates made to the 2006 data entries.**

## INTRODUCTION

The Tutka Bay Lagoon Hatchery is owned by the State of Alaska and operated by CIAA and is located across Kachemak Bay from Homer. Operations at the hatchery have been suspended except for temporary rearing of Trail Lakes Hatchery sockeye salmon smolt in the lagoon net pen complex.

The Tutka Bay Lagoon Hatchery operates under Private Non-Profit Permit #32 issued in 1994 and has a current permitted capacity of 125.0 million pink salmon eggs and 0.660 million sockeye salmon eggs. The Fish Transport Permits (FTP's) under which CIAA operates the programs of the Tutka Bay Lagoon Hatchery are as follows:

<b>Permit Number</b>	<b>Expiration Date</b>	<b>Activity</b>
<b>00A-0073</b>	12/31/10	Collection of pink salmon eggs from Tutka Bay Lagoon. Incubate, rear, and release up to 125.0 million fry. Twenty percent of fry must be released to Tutka Bay Lagoon. Remaining fry can be released within 1 mile of Tutka Bay Lagoon.
<b>06A-0095</b>	06/30/10	Transport of up to 0.5 million sockeye salmon presmolt to Tutka Bay Lagoon. Reared and released as smolt.

# ANNUAL REPORT

## SALMON HATCHERY

Year Ended December 1, 2007

Hatchery name/Location  
Permit holder name/Address

<b>Tutka Bay Lagoon Hatchery</b>
Cook Inlet Aquaculture Association
40410 Kalifonsky Beach Road
Kenai, AK 99611-6445

Person to contact  
regarding this report

Gary Fandrei
(907) 283-5761

name  
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

Name of Legal Representative

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 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

**Tutka Bay Lagoon  
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 <sup>1</sup>						
14. Number surviving to eyed						
				#DIV/0!	% survival <sup>2</sup>	

15. Describe procedures used for egg takes and evaluation of in-hatchery survivals:

Regular salmon egg collections were suspended in 2004 and were not completed in 2007. This facility provides short-term rearing resources for a Trail Lakes Hatchery Hidden Lake stock sockeye salmon project.

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

2. Provide explanation for survivals less than 90%.





# SCHEDULE C-1

## HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

**Tutka Bay Lagoon Hatchery**

Species:

Location of harvest/return:

### Hatchery Escapement

1. Cost recovery fish (line 16A & 16B) traditional harvest and roe recovery fish
2. Adults captured for broodstock (Schedule A line 7) minus roe recovery fish (line 16B)
3. Escapement for hatchery watershed (as required in permit)
4. Jacks
5. Other <sup>1</sup> (annotate in comments section)
6. Other <sup>1</sup> (annotate in comments section)
7. Other <sup>1</sup> (annotate in comments section)

-	
	-

### 8. Total return to hatchery

### Common Property Harvest

9. Commercial

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

	-

### Total commercial

10. Non-commercial

- 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 <sup>2</sup>				%
				%
				%
				%
				%

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
B. Roe recovery	-	

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

Comments:

This facility provides short-term rearing resources for a Trail Lakes Hatchery Hidden Lake stock sockeye salmon project. Hidden Lake sockeye return information is presented in the Trail Lakes Hatchery Annual Report and is not fully addressed in the Tutka Bay Lagoon Hatchery Annual Report.

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

2. Estimated ocean survival. Provide method used in estimation.



# SCHEDULE F-1

## UPDATED 2006 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 2006 AR" at the bottom of the form.**

**Species:**

**Location of harvest/return:**

**Tutka Bay  
Lagoon Hatchery**

**Hatchery Escapement**

- 1. Cost recovery fish (line 16A & 16B) traditional harvest and roe recovery fish
- 2. Adults captured for broodstock (Schedule A line 7) minus roe recovery fish (line 16B)
- 3. Escapement for hatchery watershed (as required in permit)
- 4. Jacks
- 5. Other <sup>1</sup> (annotate in comments section)
- 6. Other <sup>1</sup> (annotate in comments section)
- 7. Other <sup>1</sup> (annotate in comments section)

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**8. Total return to hatchery**

**Common Property Harvest**

9. Commercial

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

-

**Total commercial**

10. Non-commercial

- 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 2006	Cumulative Survival	
12. Estimated ocean survival by BY <sup>2</sup>				%
				%
				%
				%
				%

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
B. Roe recovery	-	

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

**Comments:**

**No changes from 2006 AR**

<sup>1</sup>. "Other" use one line per category. (e.g. fish remaining in saltwater, sea lion predation, etc.).  
<sup>2</sup>. Estimated ocean survival. Provide method used in estimation.