TUTKA BAY LAGOON HATCHERY ANNUAL REPORT 2008

Cook Inlet Aquaculture Association Gary Fandrei, Executive Director December 2008

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 2008.

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

No eggs were collected in 2008. 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 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 A for egg collections for this release program.

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

No pink salmon fry were released in 2008. 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 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 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 – 2008.

No stocked pink salmon adults returned in 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 returned 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 C for return data for this release program.

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

No stocked pink salmon adults are projected to return for the coming year 2009. 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 2009. 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 2007 data entries; however, as directed by the Alaska Department of Fish and Game, CIAA plans to review all previous fish releases from this facility during the upcoming year. The Tutka Bay Lagoon Hatchery 2008 Annual Report will be updated when this information becomes available.

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:

Permit Number	Expiration Date	Activity
00A-0073	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.
06A-0095	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, 2008

Hatchery name/Location	Tutka Bay Lagoon Hatchery	
Permit holder name/Address	Cook Inlet Aquaculture Association	
	40610 Kalifornsky Beach Road	
	Kenai, AK 99611-6445	
Person to contact	Gary Fandrei	name
regarding this report	(907) 283-5761	phone
DECLARATION AND SIGNATURE		
I declare that the information given in this	annual report is, to my knowledge, true, correct a	nd complete.
Gary Fandrei		12/16/2008
Name of Legal Representative		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 occured or numbers have been finalized.

SCHEDULE A-1

ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

Complete this schedule for each species/ stock of eggs ta	aken this year.			Hatchery
1. Species				
2. Stock (donor stream name/number)				
3. Viable broodstock (spawned, eggs in incubators)		female s	male s -	tota I
4. Inviable broodstock (green/over-ripe/bad)		female s	male s	tota I
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 bro	odstock			
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 ev	aluation of in-hatcl	hery survivals:		
Regular salmon egg collections were suspended in	2004. This facility	provides short-terr	m rearing resources for	or a Trail Lakes
Hatchery Hidden Lake stock sockeye salmon proje	ct.			
		2 Provide explanati	on for survivals less that	n
1. Provide explanation if greater than number of green eq	ggs taken.	90%.	on for sarvivals loss that	

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	

Tutka Bay Lagoon Hatchery

ı		1				1		
Species:	Sockeye	Stock:	Hidden Lake			Brood year:	2006	
A. Lifestage	•							
	Actual	% cum surviv						
	number	al	Transfers- between hatcheries (an	notate))			
1. Green		100.0	,	,				
eggs		% #DIV/						
2. Eyed eggs		#DIV/ 0!						
3. Emergent fry		#DIV/ 0!						
4. Fed fry		#DIV/ 0!						
5. Smolts	500,000	#DIV/ 0!	Smolts transferred from TLH to TBLH April 8, 2008					
!	,		,					
B. Release Ir	formation							
		R	elease		ze	Expected	Year(s)	
Site	Number	date	lifestage	gm/fi sh	mm/fi sh	adult return	of return	
Tutka Bay	483,000	6/12/20 08	smolts	14.5		48,300	2010 & 2011	
Total:	483,000							
C. Tagging/	Marking							
		ed or tagg	ed (by release group and method of ma	arkina)				
0			ou (o) release group and memor or m	g/				

D. Other

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

This facility provides short-term rearing resources for a Trail Lakes Hatchery Hidden Lake

stock sockeye salmon project. Hidden Lake sockeye release information is presented in the

Trail Lakes Hatchery Annual Report and is not fully addressed in the Tutka Bay Lagoon Hatchery

Annual Report.

SCHEDULE C-1

HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each pro-	oject and species.		tka Bay Lagoon	
	Species: Location of harvest/return:		atchery	
Hatchery Escapement 1. Cost recovery fish (Sch. C sum of lines recovery fish 2. Adults captured for broodstock (Sch. A I 16B and 16C) 3. Escapement for hatchery watershed (as 4. Jacks 5. Other ¹ (annotate in comments section) 6. Other ¹ (annotate in comments section) 7. Other ¹ (annotate in comments section)	line 7) minus roe and required in permit)	•	-	-
Common Property Harvest 9. Commercial ²				
, 	A. Troll B. Gillnet C. Seine D. Other (annotate incomments section) Total	า		
10. Non-commercial ²	commercial		ļ	-
, ! !	A. Sport B. Personal Use C. Subsistence D. Other (annotate incomments section) Total non- commercial	า		-

11. T	otal Return (sum 8,9,10)					
	•	ВҮ	Total # returning in 2008	Cumulative Survival		
12 F	Estimated ocean		2000	Survivai	%	
	rvival by BY 2				%	
					%	
					%	
					%	
					%	
				_		_
	verage size of fish sold Oate(s) of harvest			<length-cm< td=""><td></td><td>wt- kg</td></length-cm<>		wt- kg
	Gear type or method used					
	osa. type of mounea acca					
16. C	Disposition of Hatchery Escap	ement				
		# fish	lbs. fish	_		
A	Fish harvested/sold adults					
	jacks					
	total	-	-			
				_		
		# fish	lbs. roe/milt	7		
В	D					
C	Roe recovery	-				
	Milt recovery	-				
	,			_		
D		<i>"</i> 5:	"5	<i>"</i> • • • •		
•	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 number of fish	-	-	-		
	total poullus		<u> </u>			

Comments:	
This facility provides short-term sockeye	n rearing resources for a Trail Lakes Hatchery Hidden Lake stock sockeye salmon project. Hidden Lake
return information is presented	I 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.} Commercial harvest, non-commercial harvest, and estimated ocean survival. Provide method used in estimation.

SCHEDULE D PROJECTED RETURNS FOR 2009

			Range in expected return		
Species	Release Site	Total number of fish expecte d	minimum	maximum	
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.					

SCHEDULE F-1

UPDATED 2007 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each projec year's annual report.	t and species	of fish with u	updated nu	mbers from last		
If there a	re no change 7 AR" at the			"no changes		
	ies: ion of est/retur			Tutka Bay Lagoon Hatchery		
Hatchery Escapement 1. Cost recovery fish (Sch. F sum of lines 16A recovery fish 2. Adults captured for broodstock (Sch. A line	,		•		-	_
and 16C) 3. Escapement for hatchery watershed (as red 4. Jacks	,		very non (Son. 1 line 10B		-
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 s section)					
	nercial					-
comment Total	stence (annotate in s section)					_

11. T	otal Return (sum 8,9,10)		Total #	Cumulative	
		DV	returning in	Cum it col	
12 F	stimated ocean	BY	2007	Survival] %
	rvival by BY ²				- / ⁰ - %
Su	TVIVAL BY BT				% %
					%
					%
					<u></u> %
]	wt-
	verage size of fish sold			<length-cm< td=""><td>kg</td></length-cm<>	kg
	Date(s) of harvest				
15. G	Gear type or method used				
16. D	Disposition of Hatchery Escape	ement			
		# fish	lbs. fish	7	
Α	Fish harvested/sold				
•	adults jacks				
	jacks				
	total	-	-		
		# fish	lbs. roe/milt		
В		# 11511	ibs. roe/mit]	
	Roe recovery	-			
0	Milt was a very				
C.	Milt recovery	-		J	
D					
	Carcasses	# Disposed	# Donated	# Sold	7
	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.