

2016 ANNUAL REPORT ALASKA SALMON HATCHERY

Year Ending December 15, 2016

Hatchery name/Location
Permit holder name/Address

EKLUTNA SALMON HATCHERY
Cook Inlet Aquaculture Association
40610 Kalifornsky Beach Road
Kenai, AK 99611

Person to contact
regarding this report

Caroline Cherry	name
907-283-5761	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

11/16/16

Date



Signature of Representative

THE FOLLOWING PARTS ARE INCLUDED IN THIS REPORTING FORM.

Part 1. REPORT OF THIS YEAR'S PERFORMANCE

Complete the following schedules of production statistics for this year, for each species/stock/brood year combination:

Schedule A: Annual Broodstock and Initial Survival Report

Schedule B: Annual Fish Culture Production Report

Schedule C: Harvest Management and Hatchery Adult Returns

Note: One Schedule C for each species/stock/project location (release site).

Part 2. PROJECTED RETURNS FOR NEXT YEAR

Complete **Schedule D**, to provide projections for each species and each release site.

Part 3. UPDATED SCHEDULES FOR PRIOR YEAR ANNUAL REPORT

Schedule F is used to update last year's Schedule C reported adult return data.

Use this form to update the information that we have on file, if known changes have occurred or numbers have been finalized since last year's report.

SCHEDULE A-1 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

EKLUTNA SALMON HATCHERY

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

Use lines 3-6 to report fish captured and sacrificed as broodstock (fish that died during collection of eggs).

Use line 16 to report and describe captured fish that were released alive (for example, at remote egg-take locations).

1. Species	Sockeye				
2. Stock (donor stock/ancestral stock)	<i>Donor stock refers to location of broodstock collection. Ancestral is original stock.</i>				
3. Viable broodstock (spawned, eggs in incubators)	females		male	-	total
4. Inviabile broodstock (green/over-ripe/bad)	females		male	-	total
5. Unspawned fish (roe recovery, excess males)					
6. Holding mortalities (raceway, pen mortalities)					
7. Adults sacrificed 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)		#DIV/0!			
10. Egg-take dates:					
11. Number of green eggs taken					
12. Number of eggs transferred out (annotate below)	<i>green eggs or</i>	<i>eyed eggs</i>			
13. Number of eggs destroyed (annotate below)	<i>green eggs or</i>	<i>eyed eggs</i>			
14. Number of green eggs retained in hatchery ¹					
15. Number remaining in hatchery at eyed stage				#DIV/0!	% survival ²
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:					

CIAA did not have to use the Eklutna facility in 2016 as a back up to its Trail Lakes Hatchery. ADF&G did use the facility to imprint Chinook a part of their program.

1. Provide explanation if greater than number of green eggs taken. 2. Provide explanation for survivals less than 90%.

SCHEDULE A-2 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

EKLUTNA SALMON HATCHERY

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

Use lines 3-6 to report fish captured and sacrificed as broodstock (fish that died during collection of eggs).

Use line 16 to report and describe captured fish that were released alive (for example, at remote egg-take locations).

1. Species	Coho				
2. Stock (donor stock/ancestral stock)	<i>Donor stock refers to location of broodstock collection. Ancestral is original stock.</i>				
3. Viable broodstock (spawned, eggs in incubators)	females		male	-	total
4. Inviabile broodstock (green/over-ripe/bad)	females		male	-	total
5. Unspawned fish (roe recovery, excess males)					
6. Holding mortalities (raceway, pen mortalities)					
7. Adults sacrificed 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)		#DIV/0!			
10. Egg-take dates:					
11. Number of green eggs taken					
12. Number of eggs transferred out (annotate below)	<i>green eggs or</i>	<i>eyed eggs</i>			
13. Number of eggs destroyed (annotate below)	<i>green eggs or</i>	<i>eyed eggs</i>			
14. Number of green eggs retained in hatchery ¹					
15. Number remaining in hatchery at eyed stage				#DIV/0!	% survival ²
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:					

CIAA did not have to use the Eklutna facility in 2016 as a backup for its Trail Lakes Hatchery. ADF&G did use the facility to imprint Chinook as part of their program.

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

EKLUTNA SALMON HATCHERY

Complete this schedule for each species/stock of eggs (or fish) cultured this year from prior brood years. Please provide explanations for any differences in numbers of green and eyed eggs from those reported last year for this species/stock (e.g. reenumeration of inventory at eyed stage, transfers, mortality, etc.).

Species: Stock: Brood Year:

A. Life Stage Information

	Actual number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green eggs		100.0%	CIAA did not have to use the Eklutna hatchery in 2011-2016 as back up to its Trail Lakes Hatchery. ADF&G did use the facility for imprinting Chinook as part of their program
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		Return	
	Number	Date	Life stage	gm/fish	mm/fish	Expected return	Return year(s)
Total:	-						

C. Marking/Tagging

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

Release				Marking/Tagging		
Release Group ¹	Release Location	Number	Dates	Otolith Mark Pattern	Tag Code	Valid Tags

¹Report release group as fresh or salt water; from net pen or raceway; or other rearing/release/site group description.

D. Other

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

SCHEDULE B-2 ANNUAL FISH CULTURE PRODUCTION REPORT

EKLUTNA SALMON HATCHERY

Complete this schedule for each species/stock of eggs (or fish) cultured this year from prior brood years. Please provide explanations for any differences in numbers of green and eyed eggs from those reported last year for this species/stock (e.g. reenumeration of inventory at eyed stage, transfers, mortality, etc.).

Species: Stock: Brood Year:

A. Life Stage Information

	Actual number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green eggs		100.0%	CIAA did not have to use the Eklutna hatchery in 2011-2016 as back up to its Trail Lakes Hatchery. ADF&G did use the facility for imprinting Chinook as part of their program
2. Eyed eggs		#DIV/0!	
3. Emergent fry		#DIV/0!	
4. Fed fry		#DIV/0!	
5. Smolts		#DIV/0!	

B. Release Information

Site	Release		Life stage	Size		Return	
	Number	Date		gm/fish	mm/fish	Expected return	Return year(s)
Total:	-						

C. Marking/Tagging

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

Release				Marking/Tagging		
Release Group ¹	Release Location	Number	Dates	Otolith Mark Pattern	Tag Code	Valid Tags

¹Report release group as fresh or salt water; from net pen or raceway; or other rearing/release/site group description.

D. Other

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

**SCHEDULE C-1
HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS**

Complete a separate schedule for each project (location of release/return), stock (e.g. fall or summer, if applicable), and species.

EKLUTNA SALMON HATCHERY

Species: Sockeye
Location of project: NA

A. Hatchery Escapement

1. Cost-recovery fish (line 17a & 17b): traditional harvest and roe-recovery fish	-
2. Adults sacrificed as broodstock (Schedule A line 7) minus roe-recovery fish (17b)	
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 hatchery escapement	-

B. Common Property Harvest

9. Commercial harvest ²	
a. Troll	
b. Gillnet	
c. Seine	
d. Other (annotate in comments section)	
Total commercial harvest	-
10. Noncommercial harvest ²	
a. Sport	
b. Personal Use	
c. Subsistence	
d. Other (annotate in comments section)	
Total noncommercial harvest	-
11. Total Common Property Harvest (sum 9 and 10)	-
12. Total Return (sum 8 and 11)	-

13. Estimated ocean survival by brood year ²	Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)

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

17. Disposition of Hatchery Escapement

a. Traditional harvest fish		# fish sold	lbs fish		
	adults				
	jacks				
	total	-	-		
b. Roe-recovery fish		# fish	lbs fish	lbs roe	
	Sold				
	Donated				
	Disposed ³				
	total number of fish	-	-	-	
c. Carcasses		# Sold	# Donated	# Disposed ³	Total
	Spawners				-
	Other (annotate in comments)				-
	total number of fish	-	-	-	-
	total pounds				-

Comments:

Hatchery has not been in production since 1998. The Trail Lakes Hatchery sockeye program last used the facility in 2008, but these returns have been reported under the Trail Lakes Hatchery permit.

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

² Commercial harvest, noncommercial harvest, and estimated ocean survival: Please provide method used in estimation.

³ Disposed fish require a carcass disposal log.

SCHEDULE C-2 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project (location of release/return), stock (e.g. fall or summer, if applicable), and species.

EKLUTNA SALMON HATCHERY

Species: Coho

Location of project: _____

A. Hatchery Escapement

1. Cost-recovery fish (line 17a & 17b): traditional harvest and roe-recovery fish	-	
2. Adults sacrificed as broodstock (Schedule A line 7) minus roe-recovery fish (17b)		
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 hatchery escapement		-

B. Common Property Harvest

9. Commercial harvest ²		
a. Troll		
b. Gillnet		
c. Seine		
d. Other (annotate in comments section)		
Total commercial harvest		
10. Noncommercial harvest ²		
a. Sport		
b. Personal Use		
c. Subsistence		
d. Other (annotate in comments section)		
Total noncommercial harvest		
11. Total Common Property Harvest (sum 9 and 10)		-
12. Total Return (sum 8 and 11)		-

	Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
13. Estimated ocean survival by brood year ²				

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

17. Disposition of Hatchery Escapement

		# fish sold	lbs fish	
a. Traditional harvest fish	adults			
	jacks			
	total	-	-	
b. Roe-recovery fish	Sold	# fish	lbs fish	lbs roe
	Donated			
	Disposed ³			
	total number of fish	-	-	-
c. Carcasses		# Sold	# Donated	# Disposed ³
	Spawners			
	Other (annotate in comments)			
	total number of fish	-	-	-
	total pounds			

Comments:

Hatchery has not been in production since 1998. The Trail Lakes Hatchery sockeye program last used the facility in 2008, but these returns have been reported under the Trail Lakes Hatchery permit.

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

² Commercial harvest, noncommercial harvest, and estimated ocean survival: Please provide method used in estimation.

³ Disposed fish require a carcass disposal log.

SCHEDULE D
PROJECTED RETURNS FOR 2017
EKLUTNA SALMON HATCHERY

Combine brood years for species with returns of multiple year classes, except Chinook salmon.
 Please report projected returns of Chinook salmon by brood year.

Species	Brood Year	Release Site	Total number of fish expected	Range of expected return	
				minimum	maximum
Sockeye		Hatchery Not in Production			
Coho		Hatchery Not in Production			

COMMENTS:

Please provide additional information on ocean-survival calculations (i.e. percentages used, etc.)

SCHEDULE F-1
UPDATED 2014 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

This form is only required if there are known changes to the previous year's reported Schedule C data.

Complete a separate schedule for each project and species of fish with updated numbers from last year's annual report.

Species: **EKLUTNA SALMON HATCHERY**
 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 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. Noncommercial ²	
A. Sport	
B. Personal Use	
C. Subsistence	
D. Other (annotate in comments section)	
Total noncommercial	-

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

12. Estimated ocean survival by BY ²	BY	Total # return in 2011	Cumulative Survival	
				%
				%
				%
				%
				%

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

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

B. Roe recovery	# fish	lbs roe
	-	

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

Comments:

Hatchery was not in production.

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

² Commercial harvest, noncommercial harvest, and estimated ocean survival: Please provide method used in estimation.