

2015 ANNUAL REPORT ALASKA SALMON HATCHERY

Year Ending December 15, 2015

Hatchery name/Location
Permit holder name/Address

PORT GRAHAM 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

11.18.15

Date


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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

PORT GRAHAM 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	Pink				
2. Stock (donor stock/ancestral stock)	Port Graham/Port Graham				
3. Viable broodstock (spawned, eggs in incubators)	1,692	females	820	male	2,512 total
4. Inviabile broodstock (green/over-ripe/bad)	184	females	52	male	236 total
5. Unspawned fish (roe recovery, excess males)					
6. Holding mortalities (raceway, pen mortalities)	15,047				
7. Adults sacrificed for broodstock (sum 3 thru 6)	17,795				
8. Average length and weight of adults used for broodstock					
	females>	cm	1.2	kg	
	males>	cm	1.2	kg	
9. Average fecundity (eggs/female)	1,291				
10. Egg-take dates:	Sept 1 - Sept 21				
11. Number of green eggs taken	2,247,953				
12. Number of eggs transferred out (annotate below)	- eyed eggs				
13. Number of eggs destroyed (annotate below)	- eyed eggs				
14. Number of green eggs retained in hatchery ¹	2,247,953				
15. Number remaining in hatchery at eyed stage	1,374,295				
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:	61.14% survival ²				

A6. Broodstock experienced high mortalities primarily due to atypical environmental conditions (elevated temperatures, plankton blooms, extended wind storms).

A16. Delayed fertilization and biomass inventory of live and dead eggs to determine % survival.

A7. Fish were purchased from the common property fishery. Some broodstock was expected to return from releases at PG in 2013 under Tutka's permit. It is unknown as to how many of these fish actually returned.

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

PORT GRAHAM 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					
2. Stock (donor stock/ancestral stock)	Donor stock refers to location of broodstock collection. Ancestral is original stock.				
3. Viable broodstock (spawned, eggs in incubators)		females		male	-
4. Inviabile broodstock (green/over-ripe/bad)		females		male	-
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)	green eggs or eyed eggs				
13. Number of eggs destroyed (annotate below)	green eggs or eyed eggs				
14. Number of green eggs retained in hatchery ¹					
15. Number remaining in hatchery at eyed stage	#DIV/0!				
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:	#DIV/0! % survival ²				

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

PORT GRAHAM 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: Pink Stock: Port Graham Brood Year: 2014

A. Life Stage Information

	Actual number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green eggs	3,195,600	100.0%	
2. Eyed eggs	2,864,000	89.62%	
3. Emergent fry	2,771,567	86.73%	
4. Fed fry	2,205,000	69.00%	During transfer from Tutka to Port Graham a loss of 574,869 fish occurred.
5. Smolts		0	Actual release of fed fry was 2,200,060

B. Release Information

Site	Release			Size		Return	
	Number	Date	Life stage	gm/fish	mm/fish	Expected return	Return year(s)
Port Graham	2,200,060	6/10/2015	Fed Fry	1.59		66,000	2016
Total:	2,200,060						

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
SW-Net Pen	Port Graham	2,200,060	6/10/2015	5H3		

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.

B4. Fish were incubated at Tutka Bay Lagoon and transported to net pens in Port Graham Bay as swim-up fry. During one transport weather conditions became unfavorable and fish were died of physical damage. Incident was reported to PNP Coordinator.

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.

PORT GRAHAM HATCHERY

Species:
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			
	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:

All broodstock was purchased from the common property fishery. No hatchery contribution.

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.

