

# 2014 ANNUAL REPORT ALASKA SALMON HATCHERY

Year Ending December 15, 2014

Hatchery name/Location  
Permit holder name/Address

TRAIL LAKES 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

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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
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Name of Legal Representative

12/8/14
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Date


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Signature of Representative

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## 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

TRAIL LAKES 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)	Bear Lake/Upper Russian River/Big River Lakes					
3. Viable broodstock (spawned, eggs in incubators)	1,765	females	1,765	male	3,530	total
4. Inviabile broodstock (green/over-ripe/bad)	51	females	17	male	68	total
5. Unspawned fish (roe recovery, excess males)						
6. Holding mortalities (raceway, pen mortalities)	259					
7. Adults sacrificed for broodstock (sum 3 thru 6)	3,857					
8. Average length and weight of adults used for broodstock						
	females>		cm		kg	
	males>		cm		kg	
9. Average fecundity (eggs/female)	2,999					
10. Egg-take dates:	July 27 - August 15					
11. Number of green eggs taken	5,292,800					
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 <sup>1</sup>	5,292,800					
15. Number remaining in hatchery at eyed stage	4,656,248					
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:	87.97% survival <sup>2</sup>					

Delayed fertilization. Biomass inventory of live and dead eggs to estimate survival.

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

TRAIL LAKES 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)	Second Lake/English Bay Lakes					
3. Viable broodstock (spawned, eggs in incubators)	498	females	348	male	846	total
4. Inviabile broodstock (green/over-ripe/bad)	2	females	3	male	5	total
5. Unspawned fish (roe recovery, excess males)						
6. Holding mortalities (raceway, pen mortalities)	26					
7. Adults sacrificed for broodstock (sum 3 thru 6)	877					
8. Average length and weight of adults used for broodstock						
	females>		cm		kg	
	males>		cm		kg	
9. Average fecundity (eggs/female)	2,195					
10. Egg-take dates:	Sept 9, 15 & 20					
11. Number of green eggs taken	1,093,154					
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 <sup>1</sup>	1,093,154					
15. Number remaining in hatchery at eyed stage	847,069					
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:	77.49% survival <sup>2</sup>					

Delayed fertilization. Survival estimates based on biomass calculation of live and dead eggs. Family tracking for Sept 9 eggtake only for backstocking program only to ensure that those selected for backstocking into Second Lake are from non-enhanced broodstock. Family crosses identified as being from enhanced broodstock will be removed from the backstocking program at eyed and placed into LCI stocking programs.

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

2. Provide explanation for survivals less than 90%.

**SCHEDULE A-3  
ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT**

TRAIL LAKES 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)	Tutka/EBL and Hidden Lake Mix				
3. Viable broodstock (spawned, eggs in incubators)	1,213	females	1,054	male	2,267 total
4. Inviabile broodstock (green/over-ripe/bad)	243	females	33	male	276 total
5. Unspawned fish (roe recovery, excess males)	-				
6. Holding mortalities (raceway, pen mortalities)	1,662				
7. Adults sacrificed for broodstock (sum 3 thru 6)	4,205				
8. Average length and weight of adults used for broodstock					
	females>	cm		kg	
	males>	cm		kg	
9. Average fecundity (eggs/female)	2,529				
10. Egg-take dates:	Sept 23 - October 8				
11. Number of green eggs taken	3,067,700				
12. Number of eggs transferred out (annotate below)	- eyed eggs				
13. Number of eggs destroyed (annotate below)	green eggs or eyed eggs				
14. Number of green eggs retained in hatchery <sup>1</sup>	3,067,700				
15. Number remaining in hatchery at eyed stage	0 % survival <sup>2</sup>				
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:					

Mix stock of fish returning (EBL and HL). Fish that arrived to the lagoon between July 1 - 10 were tagged and mating crosses at eggtake were family tracked. Otolith analysis will determine which are EBL and HL stock. Any crosses with HL will be destroyed. Otolith analysis incomplete at this time. Information will be updated in 2015 Annual Report.  
Excess mortality of 1603 was reported to PNP Coordinator.

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

2. Provide explanation for survivals less than 90%.

**SCHEDULE A-4  
ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT**

TRAIL LAKES 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)	Hidden/Hidden				
3. Viable broodstock (spawned, eggs in incubators)	710	females	710	male	1,420 total
4. Inviabile broodstock (green/over-ripe/bad)	14	females	3	male	17 total
5. Unspawned fish (roe recovery, excess males)					
6. Holding mortalities (raceway, pen mortalities)	5				
7. Adults sacrificed for broodstock (sum 3 thru 6)	1,442				
8. Average length and weight of adults used for broodstock					
	females>	cm		kg	
	males>	cm		kg	
9. Average fecundity (eggs/female)	2,321				
10. Egg-take dates:	Sept 17, 19, 22				
11. Number of green eggs taken	1,647,601				
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 <sup>1</sup>	1,647,601				
15. Number remaining in hatchery at eyed stage	1,497,128 90.87% survival <sup>2</sup>				
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:					

Delayed fertilization.

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

2. Provide explanation for survivals less than 90%.

## SCHEDULE A-5 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

TRAIL LAKES 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)	Bear Lake					
3. Viable broodstock (spawned, eggs in incubators)	144	females	96	male	240	total
4. Inviabile broodstock (green/over-ripe/bad)	2	females	2	male	4	total
5. Unspawned fish (roe recovery, excess males)						
6. Holding mortalities (raceway, pen mortalities)	139					
7. Adults sacrificed for broodstock (sum 3 thru 6)	383					
8. Average length and weight of adults used for broodstock						
	females>	cm		kg		
	males>	cm		kg		
9. Average fecundity (eggs/female)	4,272					
10. Egg-take dates:	Sept 30, Oct. 5 & 7					
11. Number of green eggs taken	581,279					
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 <sup>1</sup>	581,279					
15. Number remaining in hatchery at eyed stage	547,422					
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:					94.18%	% survival <sup>2</sup>

Additional fish (184) were collected by ADFG for their program and for Salmon in the Classroom.

These numbers are not included here but are included in the escapement for Schedule C.

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

2. Provide explanation for survivals less than 90%.

## SCHEDULE A-6 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

TRAIL LAKES 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)	<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)	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 <sup>1</sup>						
15. Number remaining in hatchery at eyed stage						
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:					#DIV/0!	% survival <sup>2</sup>

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

2. Provide explanation for survivals less than 90%.

## SCHEDULE A-7 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

TRAIL LAKES 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)	<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. Inviolate 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 <sup>1</sup>				
15. Number remaining in hatchery at eyed stage	#DIV/0! % survival <sup>2</sup>			
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:				

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

2. Provide explanation for survivals less than 90%.

## SCHEDULE A-8 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

TRAIL LAKES 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)	<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. Inviolate 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 <sup>1</sup>				
15. Number remaining in hatchery at eyed stage	#DIV/0! % survival <sup>2</sup>			
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:				

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

2. Provide explanation for survivals less than 90%.

## SCHEDULE A-9 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

TRAIL LAKES 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	- 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)	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 <sup>1</sup>				
15. Number remaining in hatchery at eyed stage	#DIV/0! % survival <sup>2</sup>			
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:				

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

2. Provide explanation for survivals less than 90%.

## SCHEDULE A-10 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

TRAIL LAKES 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	- 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)	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 <sup>1</sup>				
15. Number remaining in hatchery at eyed stage	#DIV/0! % survival <sup>2</sup>			
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:				

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

2. Provide explanation for survivals less than 90%.

## SCHEDULE A-11 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

TRAIL LAKES 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)	<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 <sup>1</sup>				
15. Number remaining in hatchery at eyed stage				#DIV/0! % survival <sup>2</sup>
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:				

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

2. Provide explanation for survivals less than 90%.

## SCHEDULE A-12 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

TRAIL LAKES 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)	<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 <sup>1</sup>				
15. Number remaining in hatchery at eyed stage				#DIV/0! % survival <sup>2</sup>
16. Describe procedures used for egg takes and evaluation of in-hatchery survivals:				

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

TRAIL LAKES 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: Sockeye      Stock: Bear Lake/Upper Russian      Brood Year: 2012

### A. Life Stage Information

	Actual number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green eggs	6,041,000	100.0%	
2. Eyed eggs	5,611,000	92.88%	
3. Emergent fry	4,874,000	80.68%	Destroyed 576,000 for IHN
4. Fed fry	4,743,000	78.51%	Destroyed 314,850 for excess production, 2,548,000 released as fry
5. Smolts	2,010,000	33.27%	Released 1,742,000 as smolts

### B. Release Information

Site	Release		Life stage	Size		Return	
	Number	Date		gm/fish	mm/fish	Expected return	Return year(s)
Resurrection Bay	1,742,000	6/5/2014	Smolt	14.7		174,200	2016+2017
Total:	1,742,000						

### C. Marking/Tagging

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

Release				Marking/Tagging		
Release Group <sup>1</sup>	Release Location	Number	Dates	Otolith Mark Pattern	Tag Code	Valid Tags
SW Net Pen	Resurrection Bay	1,742,000	6/5/2014	3,3,2H	na	na

<sup>1</sup>Report 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.

No issues.

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## SCHEDULE B-2 ANNUAL FISH CULTURE PRODUCTION REPORT

TRAIL LAKES 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: Sockeye      Stock: Tutka/English Bay Lake      Brood Year: 2012

### A. Life Stage Information

	Actual number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green eggs	899,000	100.0%	
2. Eyed eggs	727,000	80.87%	240,000 destroyed for IHN
3. Emergent fry	626,000	69.63%	139,000 added as enhanced crosses excess from Second Lake program
4. Fed fry	621,000	69.08%	
5. Smolts	599,500	66.69%	released as smolts to Tutka

### B. Release Information

Site	Release			Size		Return	
	Number	Date	Life stage	gm/fish	mm/fish	Expected return	Return year(s)
Tutka Bay Lagoon	599,500	6/7/2014	Smolt	14.5		59,950	2016 & 2017
Total:	599,500						

### C. Marking/Tagging

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

Release				Marking/Tagging		
Release Group <sup>1</sup>	Release Location	Number	Dates	Otolith Mark Pattern	Tag Code	Valid Tags
SW-Net Pen	Tutka Bay Lagoon	599,500	6/7/2014	2,3,2H	na	na

<sup>1</sup>Report 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.

No issues

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**SCHEDULE B-3**  
**ANNUAL FISH CULTURE PRODUCTION REPORT**

**TRAIL LAKES 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	91,300	100.0%	
2. Eyed eggs	81,000	88.72%	
3. Emergent fry	80,500	88.17%	
4. Fed fry	80,500	88.17%	
5. Smolts	80,000	87.62%	

**B. Release Information**

Site	Release			Size		Return	
	Number	Date	Life stage	gm/fish	mm/fish	Expected return	Return year(s)
Shell Lake	80,000	6/2/2014	Smolt	8.69		8,000	2016 & 2017
Total:	80,000						

**C. Marking/Tagging**

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

Release				Marking/Tagging		
Release Group <sup>1</sup>	Release Location	Number	Dates	Otolith Mark Pattern	Tag Code	Valid Tags
FW-Lake Net Pen	Shell Lake	80,000	6/2/2014	4,2,3H	na	na
Acclimation						

<sup>1</sup>Report 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.

Expected return is based on stocking number. However, enumeration of smolts at trap indicated that only 21,000 actually migrated from lake. Final escapement number will not be known until the Spring of 2015 enumeration to see if any remained in the lake for an additional year.

## SCHEDULE B-4 ANNUAL FISH CULTURE PRODUCTION REPORT

TRAIL LAKES 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	631,000	100.0%	
2. Eyed eggs	518,000	82.09%	4,100 culled due to BKD
3. Emergent fry	482,000	76.39%	
4. Fed fry	476,000	75.44%	405,000 stocked as fry to Bear Lake
5. Smolts	71,000	11.25%	55,000 stocked as smolt to Bear Creek

### B. Release Information

Site	Release			Size		Return	
	Number	Date	Life stage	gm/fish	mm/fish	Expected return	Return year(s)
Bear Creek	55,000	5/25/2014	Smolt	12.2		5,500	2015
Total:	55,000						

### C. Marking/Tagging

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

Release				Marking/Tagging		
Release Group <sup>1</sup>	Release Location	Number	Dates	Otolith Mark Pattern	Tag Code	Valid Tags
FW-Raceway	Bear Creek	55,000	5/25/2014	3,2H	na	na
Acclimation						

<sup>1</sup>Report 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.

No issues

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## SCHEDULE B-5 ANNUAL FISH CULTURE PRODUCTION REPORT

TRAIL LAKES 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: Sockeye      Stock: Bear Lake      Brood Year: 2013

### A. Life Stage Information

	Actual number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green eggs	5,325,000	100.0%	
2. Eyed eggs	4,774,000	89.65%	
3. Emergent fry	4,646,000	87.25%	
4. Fed fry	4,223,000	79.31%	2,405,000 stocked as fry to Bear Lake
5. Smolts	1,818,444	34.15%	retained for smolt production to Resurrection Bay

### B. Release Information

Site	Release			Size		Return	
	Number	Date	Life stage	gm/fish	mm/fish	Expected return	Return year(s)
Bear Lake	2,405,000	June 3 - 5, 2014	Fed Fry	0.43		72,150	2017& 2018
Total:	2,405,000						

### C. Marking/Tagging

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

Release				Marking/Tagging		
Release Group <sup>1</sup>	Release Location	Number	Dates	Otolith Mark Pattern	Tag Code	Valid Tags
FW-Direct to Lake	Bear Lake	2,405,000	June 3-5	4H	na	na

<sup>1</sup>Report 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.

None

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## SCHEDULE B-6 ANNUAL FISH CULTURE PRODUCTION REPORT

TRAIL LAKES 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: Sockeye      Stock: Second Lake/English Bay      Brood Year: 2013

### A. Life Stage Information

	Actual number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green eggs	2,120,000	100.0%	
2. Eyed eggs	1,904,000	89.81%	230,500 retained for Second Lake, 1,675,500 transferred to EBL production for LCI and Tutka
3. Emergent fry	223,568	10.55%	
4. Fed fry	209,500	9.88%	
5. Smolts		0	

### B. Release Information

Site	Release			Size		Return	
	Number	Date	Life stage	gm/fish	mm/fish	Expected return	Return year(s)
Second Lake	209,000	October 15&16, 201	Presmolt	2.4		10,450	2017 & 2018
Total:	209,000						

### C. Marking/Tagging

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

Release				Marking/Tagging		
Release Group <sup>1</sup>	Release Location	Number	Dates	Otolith Mark Pattern	Tag Code	Valid Tags
FW-Direct to Lake	Second Lake	209,000	Oct 15 & 16	5H		

<sup>1</sup>Report 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.

No issues

At eyed 230,500 eggs were retained for EBL backstocking. The eggs selected were from non-enhanced fish based on otolith analysis. Remainder of eggs were transferred to LCI and Tutka production and are documented in Schedule B-7

**SCHEDULE B-7  
ANNUAL FISH CULTURE PRODUCTION REPORT**

**TRAIL LAKES 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:   Sockeye  

Stock:   Tutka/English Bay  

Brood Year:   2013  

**A. Life Stage Information**

	<b>Actual number</b>	<b>% cum survival</b>	<b>Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.</b>
1. Green eggs	2,664,000	100.0%	Mix of EBL and HL stock. All were family tracked. 2,429,794 were retained
2. Eyed eggs	4,523,555	169.80%	EBL/EBL, 227,261 were culled as HL stock, 1,675,500 were transferred in
3. Emergent fry	3,423,082	128.49%	from EBL Second Lake (Sched B-6) and 193,000 were culled for IHN
4. Fed fry	3,417,230	128.27%	2,793,000 stocked as fry
5. Smolts	606,488	22.77%	606,488 retained as smolts for stocking at Tutka Bay Lagoon

**B. Release Information**

Site	Release			Size		Return	
	Number	Date	Life stage	gm/fish	mm/fish	Expected return	Return year(s)
Kirschner Lake	217,000	6/8/2014	Fed Fry	0.25		6,510	2017 & 2018
Leisure Lake	1,353,000	6/7/2014	Fed Fry	0.24		40,590	2017 & 2018
Hazel Lake	1,223,000	6/8/2014	Fed Fry	0.18		36,690	2017 & 2018
<b>Total:</b>	<b>2,793,000</b>						

**C. Marking/Tagging**

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

Release				Marking/Tagging		
Release Group <sup>1</sup>	Release Location	Number	Dates	Otolith Mark Pattern	Tag Code	Valid Tags
FW-Direct to Lake	Kirschner Lake	217,000	6/8	1,3H	na	na
FW-Direct to Lake	Leisure Lake	1,353,000	6/7	4,1,3H	na	na
FW-Direct to Lake	Hazel Lake	1,223,000	6/8	1,3H	na	na

<sup>1</sup>Report 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.

A. All HL crosses were culled at eyed. Only EBL stock were retained

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## SCHEDULE B-8 ANNUAL FISH CULTURE PRODUCTION REPORT

TRAIL LAKES 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	1,685,500	100.0%	# revised based on eyed inventory calculations
2. Eyed eggs	1,577,700	93.60%	
3. Emergent fry	1,540,000	91.37%	released as non-fed fry
4. Fed fry	-	0	
5. Smolts		0	

### B. Release Information

Site	Release			Size		Return	
	Number	Date	Life stage	gm/fish	mm/fish	Expected return	Return year(s)
Hidden Lake	1,540,000	May 14 - 21, 2014	Unfed Fry	0.09		61,600	2017 & 2018
Total:	1,540,000						

### C. Marking/Tagging

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

Release				Marking/Tagging		
Release Group <sup>1</sup>	Release Location	Number	Dates	Otolith Mark Pattern	Tag Code	Valid Tags
FW-Direct to Lake	Hidden Lake	1,540,000	May 14 - 21	2,2,2H	na	na

<sup>1</sup>Report 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.

None

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## SCHEDULE B-9 ANNUAL FISH CULTURE PRODUCTION REPORT

TRAIL LAKES 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	635,000	100.0%	
2. Eyed eggs	577,000	90.87%	
3. Emergent fry	559,700	88.14%	
4. Fed fry	558,000	87.87%	468,000 released as fry to Bear Lake
5. Smolts	97,000	15.28%	retained for smolt production

### B. Release Information

Site	Release		Life stage	Size		Return	
	Number	Date		gm/fish	mm/fish	Expected return	Return year(s)
Bear Lake	468,000	6/19/2014	Fed Fry	0.95		7,020	2016
Total:	468,000						

### C. Marking/Tagging

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

Release				Marking/Tagging		
Release Group <sup>1</sup>	Release Location	Number	Dates	Otolith Mark Pattern	Tag Code	Valid Tags
FW-Direct to Lake	Bear Lake	468,000	6/19	2,2H	na	na

<sup>1</sup>Report 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.

No issues

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**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.

**TRAIL LAKES HATCHERY**

Species: Sockeye  
Location of project: Bear Lake/Resurrection Bay

**A. Hatchery Escapement**

1. Cost-recovery fish (line 17a & 17b): traditional harvest and roe-recovery fish	125,971
2. Adults sacrificed as broodstock (Schedule A line 7) minus roe-recovery fish (17b)	3,857
3. Escapement for hatchery watershed (as required in permit)	9,233
4. Jacks	-
5. Other <sup>1</sup> (annotate in comments section)	1,641
6. Other <sup>1</sup> (annotate in comments section)	115
7. Other <sup>1</sup> (annotate in comments section)	
8. Total hatchery escapement	140,817

**B. Common Property Harvest**

9. Commercial harvest <sup>2</sup>	
a. Troll	
b. Gillnet	
c. Seine	5,306
d. Other (annotate in comments section)	
Total commercial harvest	5,306
10. Noncommercial harvest <sup>2</sup>	
a. Sport	20,000
b. Personal Use	
c. Subsistence	
d. Other (annotate in comments section)	
Total noncommercial harvest	20,000
11. Total Common Property Harvest (sum 9 and 10)	25,306

12. Total Return (sum 8 and 11) 166,123

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2009 Lake	49,515	16%	Y
2009 Net Pen	No stocking. Destroyed due to IHN		
2010 Lake	36,898	Incomplete (7.4%)	N
2010 Net Pen	79,712	Incomplete (6.11%)	N

14. Average size of fish sold	length-cm	2.1 wt-kg
15. Date(s) of harvest	May 28 - June 22, 2014 Res Bay. June 11 - July 29, 2014 Bear Lk	
16. Gear type or method used	Seine and Weir	

**17. Disposition of Hatchery Escapement**

a. Traditional harvest fish	# fish sold	lbs fish		
	adults	125,791	552,321	
	jacks			
	total	125,791	552,321	
b. Roe-recovery fish	# fish	lbs fish	lbs roe	
	Sold			
	Donated			
	Disposed <sup>3</sup>			
	total number of fish	-	-	
c. Carcasses	# Sold	# Donated	# Disposed <sup>3</sup>	Total
	Spawners	1,255	3,857	5,112
	Other (annotate in comments)			
	total number of fish	-	1,255	3,857
	total pounds			-

**Comments:**

A1. 112,043 from Res Bay. 13,928 from weir  
A5. 1641 donated to Food Bank & Senior Center  
A6. 115 mortalities at the weir  
B9c From ADFG Biologist  
B10a. Estimate based on observation. Estimate = 15000 at creek and 5000 at net pen site  
B13. Otolith analysis indicates that nearly 100% are enhanced fish. Breakdown for program and year class is based on otolith recovery from cost recovery harvest and from scales collected at the weir.

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

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

<sup>3</sup> Disposed fish require a carcass disposal log.



**SCHEDULE C-3  
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.

**TRAIL LAKES HATCHERY**

Species: Sockeye (EBL & Hidden)  
Location of project: Tutka Bay Lagoon

**A. Hatchery Escapement**

1. Cost-recovery fish (line 17a & 17b): traditional harvest and roe-recovery fish	30,404
2. Adults sacrificed as broodstock (Schedule A line 7) minus roe-recovery fish (17b)	4,205
3. Escapement for hatchery watershed (as required in permit)	1,000
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)	
<b>8. Total hatchery escapement</b>	<b>35,609</b>

**B. Common Property Harvest**

<b>9. Commercial harvest <sup>2</sup></b>		
a. Troll		
b. Gillnet	15,198	
c. Seine	12,227	
d. Other (annotate in comments section)		
<b>Total commercial harvest</b>	<b>27,425</b>	
<b>10. Noncommercial harvest <sup>2</sup></b>		
a. Sport	7,000	
b. Personal Use		
c. Subsistence		
d. Other (annotate in comments section)		
<b>Total noncommercial harvest</b>	<b>7,000</b>	
<b>11. Total Common Property Harvest (sum 9 and 10)</b>		<b>34,425</b>
<b>12. Total Return (sum 8 and 11)</b>		<b>70,034</b>

13. Estimated ocean survival by brood year <sup>2</sup>	Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
	2009	No Data	No Data	Y
2010	TBD	TBD	N	

14. Average size of fish sold	length-cm	2.4	wt-kg
15. Date(s) of harvest	July 8 - August 1, 2014		
16. Gear type or method used	Seine		

**17. Disposition of Hatchery Escapement**

a. Traditional harvest fish		# fish sold	lbs fish		
	adults	30,404			
	jacks				
	<b>total</b>	30,404	-		
b. Roe-recovery fish		# fish	lbs fish	lbs roe	
	Sold				
	Donated				
	Disposed <sup>3</sup>				
	<b>total number of fish</b>	-	-	-	
c. Carcasses		# Sold	# Donated	# Disposed <sup>3</sup>	Total
	Spawners			4,205	4,205
	Other (annotate in comments)				-
	<b>total number of fish</b>	-	-	4,205	4,205
	<b>total pounds</b>				-

**Comments:**  
Section A, and B are total fish (enhanced plus non-enhanced) as the otolith analysis is not yet available. Will be updated in 2015 AR.  
Sport fish harvest number is an estimate based on CIAA's observations

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

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

<sup>3</sup> Disposed fish require a carcass disposal log.

**SCHEDULE C-4  
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.

**TRAIL LAKES HATCHERY**

Species: Sockeye  
Location of project: Hidden/Hidden

**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)	1,442
3. Escapement for hatchery watershed (as required in permit)	21,817
4. Jacks	
5. Other <sup>1</sup> (annotate in comments section)	607
6. Other <sup>1</sup> (annotate in comments section)	
7. Other <sup>1</sup> (annotate in comments section)	
<b>8. Total hatchery escapement</b>	<b>23,866</b>

**B. Common Property Harvest**

<b>9. Commercial harvest <sup>2</sup></b>	
a. Troll	
b. Gillnet	
c. Seine	tbd
d. Other (annotate in comments section)	
<b>Total commercial harvest</b>	-
<b>10. Noncommercial harvest <sup>2</sup></b>	
a. Sport	
b. Personal Use	
c. Subsistence	
d. Other (annotate in comments section)	
<b>Total noncommercial harvest</b>	-
<b>11. Total Common Property Harvest (sum 9 and 10)</b>	-
<b>12. Total Return (sum 8 and 11)</b>	<b>23,866</b>

13. Estimated ocean survival by brood year <sup>2</sup>	Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
	2009	TBD	TBD	Y
2010	TBD	TBD	N	

14. Average size of fish sold length-cm 1.9 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*				
	total number of fish	-	-	-	
c. Carcasses		# Sold	# Donated	# Disposed*	Total
	Spawners			1,442	1,442
	Other (annotate in comments)	407		200	607
	total number of fish	407		200	1,442
	total pounds				-

Comments:

Numbers are reported are total returns. Otolith analysis is incomplete at this time. Will be updated in the 2015 AR.  
Common property harvest is unknown at this time. Will be updated in the 2015 AR.

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

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

\* Disposed fish require a carcass disposal log.

**SCHEDULE C-5  
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.

**TRAIL LAKES HATCHERY**

Species: Sockeye  
Location of project: Kirschner Lake

**A. Hatchery Escapement**

1. Cost-recovery fish (line 17a & 17b): traditional harvest and roe-recovery fish	16,555
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 <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)	
<b>8. Total hatchery escapement</b>	<b>16,555</b>

**B. Common Property Harvest**

<b>9. Commercial harvest <sup>2</sup></b>	
a. Troll	
b. Gillnet	
c. Seine	3,608
d. Other (annotate in comments section)	
<b>Total commercial harvest</b>	<b>3,608</b>
<b>10. Noncommercial harvest <sup>2</sup></b>	
a. Sport	
b. Personal Use	
c. Subsistence	
d. Other (annotate in comments section)	
<b>Total noncommercial harvest</b>	<b>-</b>
<b>11. Total Common Property Harvest (sum 9 and 10)</b>	<b>3,608</b>
<b>12. Total Return (sum 8 and 11)</b>	<b>20,163</b>

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2009 HL	1,384	3.79	Y
2010 EBL	19,229	12.0 (INC)	N

14. Average size of fish sold	length-cm	wt-kg
15. Date(s) of harvest	July 18 - August 1, 2014	
16. Gear type or method used	Seine	

**17. Disposition of Hatchery Escapement**

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

Comments:

**All returns are 100% enhanced.**  
**Mix of EBL and HL stocks. Based on historic information Hidden Lake stock has a 15% return for Age 3 fish. 2013 return was 8288, therefore it is estimated that 1384 of the 2014 season return was from BY09. BY09 HL release stocking was 255,000. BY10 EBL release stocking was 160,000.**  
**2014 season return is estimated to be 1384 Age 3 Hidden Lake stock and 19,229 from BY10 EBL stock.**

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

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

<sup>3</sup> Disposed fish require a carcass disposal log.

**SCHEDULE C-6  
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.

TRAIL LAKES HATCHERY

Species: Sockeye  
Location of project: Leisure/Hazel

**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 <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)	
<b>8. Total hatchery escapement</b>	-

**B. Common Property Harvest**

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

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2009	0	0.71%	Y
2010	0	Incomplete (0%)	N

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 <sup>3</sup>				
	total number of fish	-	-	-	
c. Carcasses		# Sold	# Donated	# Disposed <sup>3</sup>	Total
	Spawners				-
	Other (annotate in comments)				-
	total number of fish	-	-	-	-
	total pounds				-

Comments:

**All returns are 100% enhanced. No fish were harvested as cost recovery or common property. Sport fish harvest is unknown. BY2009 returns in 2013 = 22,363. No 3 yr old BY09 and no BY10 returns in 2014. Total return (BY 09 both age classes) = 22,363. Total released from BY2009 = 3,151,000.**

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

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

<sup>3</sup> Disposed fish require a carcass disposal log.

**SCHEDULE C-7  
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.

TRAIL LAKES HATCHERY

Species: Coho  
Location of project: Bear Lake

**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)	383
3. Escapement for hatchery watershed (as required in permit)	534
4. Jacks	
5. Other <sup>1</sup> (annotate in comments section)	
6. Other <sup>1</sup> (annotate in comments section)	184
7. Other <sup>1</sup> (annotate in comments section)	671
<b>8. Total hatchery escapement</b>	<b>1,772</b>

**B. Common Property Harvest**

<b>9. Commercial harvest<sup>2</sup></b>		
a. Troll		
b. Gillnet		
c. Seine		
d. Other (annotate in comments section)		
<b>Total commercial harvest</b>	-	
<b>10. Noncommercial harvest<sup>2</sup></b>		
a. Sport	5,400	
b. Personal Use		
c. Subsistence		
d. Other (annotate in comments section)		
<b>Total noncommercial harvest</b>	<b>5,400</b>	
<b>11. Total Common Property Harvest (sum 9 and 10)</b>		<b>5,400</b>
<b>12. Total Return (sum 8 and 11)</b>		<b>7,172</b>

13. Estimated ocean survival by brood year <sup>2</sup>	Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
	BY 2011 Fry		7,172	3.2

14. Average size of fish sold                      length-cm                      3.2 wt-kg  
15. Date(s) of harvest Sept 1 - October 15, 2014  
16. Gear type or method used Weir

**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 <sup>3</sup>				
	total number of fish	-	-	-	
c. Carcasses		# Sold	# Donated	# Disposed <sup>3</sup>	Total
	Spawners		670	383	1,053
	Other (annotate in comments)				-
	total number of fish	-	670	383	1,053
	total pounds				-

**Comments:**  
Re:leased 222,000 as fry to Bear Lake.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

<sup>1</sup> "Other": use one line per category (e.g. fish remaining in salt water, sea lion predation, etc.).  
<sup>2</sup> Commercial harvest, noncommercial harvest, and estimated ocean survival: Please provide method used in estimation.  
<sup>3</sup> Disposed fish require a carcass disposal log.

**SCHEDULE D  
PROJECTED RETURNS FOR 2015**

**TRAIL LAKES 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	2010	Bear Lake/Resurrection	174,915	165,000	185,000
		Tutka Bay Lagoon	17,500	15,000	20,000
		Kirschner Lake	20,163	15,000	25,000
		Hazel Lake	265	0	300
		Leisure Lake	265	0	300
		Hidden Lake	8,954	8,000	10,000
		Second Lake	3,938	2,600	4,200
		Sockeye	2011	Bear Lake/Resurrection	147,822
Tutka Bay Lagoon	30,660			25,000	35,000
Kirschner Lake	22,500			18,000	25,000
Hazel Lake	18,600			12,000	22,000
Leisure Lake	13,222			10,000	16,000
Hidden Lake	26,728			20,000	30,000
Second Lake	2,848			2,600	3,000
Coho	2012	Bear Lake	10,094	8,000	12,000

**COMMENTS:**

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

Location	Stage	Fry-Adult Survival	Smolt to Adult Survival	Age 2	Age 3
Resurrection	Lake		15%	40%	60%
	Net Pen		12%	40%	60%
Tutka (EBL)			12%	50%	50%
Hazel Lake (HL)		0.75%		85%	15%
Hazel Lake (EBL)		3.00%		50%	50%
Leisure Lake (HL)		0.75%		85%	15%
Leisure Lake (EBL)		3.00%		50%	50%
Kirschner Lake (EBL)		15.00%		50%	50%
Second Lake (EBL)			5%	50%	50%
Hidden Lake (HL)			17%	85%	15%
Bear Lake Co	Fry		10%	100%	
	Smolt		10%	100%	



**SCHEDULE F-1  
UPDATED 2013 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: Sockeye TRAIL LAKES HATCHERY  
 Location of harvest/return: Bear Lake/Resurrection Bay

**Hatchery Escapement**

1. Cost-recovery fish (line 16A & 16B): traditional harvest and roe recovery fish	43,369
2. Adults captured for broodstock (Schedule A line 7) minus roe recovery fish (line 16B)	3,606
3. Escapement for hatchery watershed (as required in permit)	8,999
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)	1,255
8. Total return to hatchery	57,229

**Common Property Harvest**

9. Commercial <sup>2</sup>	
A. Troll	
B. Gillnet	
C. Seine	
D. Other (annotate in comments section)	
Total commercial	-

10. Noncommercial <sup>2</sup>	
A. Sport	20,000
B. Personal Use	
C. Subsistence	
D. Other (annotate in comments section)	
Total noncommercial	20,000

11. Total Return (sum 8,9,10) 77,229

12. Estimated ocean survival by BY<sup>2</sup>

BY	Total # return in 2011	Cumulative Survival	
BY08 Lake	50411	13.1	%
BY08 Net Pen	3646	0.86	%
			%
BY09 Lake	20853	4.7 (INC)	%
BY09 Net Pen	Culled due to IHN	0 (INC)	%
			%

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:**

**12 Update. From Res Bay Fishery 90.57% were identified as being from the lake(fry) program and 9.43% from the net pen(smolt) program. Age breakdown for the lake program was 3.5% By07, 85% BY08 and 11.6% BY09. Age breakdown for the smolt program was 6.7% BY07 and 93.3% BY08. For the weir return = 100% from the lake program with age class breakdown of 0.4% BY07, 51.8% BY08, 46.1% BY09 and 1.8% BY10.**

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

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

**SCHEDULE F-2**  
**UPDATED 2013 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: Sockeye TRAIL LAKES HATCHERY  
 Location of harvest/return: Second Lake/ English Bay Lake

**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)	117
3. Escapement for hatchery watershed (as required in permit)	731
4. Jacks	
5. Other <sup>1</sup> (annotate in comments section)	17
6. Other <sup>1</sup> (annotate in comments section)	
7. Other <sup>1</sup> (annotate in comments section)	
8. Total return to hatchery	865

**Common Property Harvest**

9. Commercial <sup>2</sup>	
A. Troll	
B. Gillnet	
C. Seine	
D. Other (annotate in comments section)	
Total commercial	-

10. Noncommercial <sup>2</sup>	
A. Sport	
B. Personal Use	
C. Subsistence	256
D. Other (annotate in comments section)	
Total noncommercial	256

11. Total Return (sum 8,9,10) 1,121

12. Estimated ocean survival by BY<sup>2</sup>

BY	Total # return in 2011	Cumulative Survival	
BY07	198	unknown	%
			%
BY08	no hatchery releases	0	%
			%
BY09	923	0.46%	%
			%

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
	Spawners		
	Roe recovery (during egg take)		
	Roe recovery (non-egg take)		
	Other (annotate in comments)		
	total number of fish	-	-
	total pounds		

Comments:

Otolith analysis indicated that 6.7% of returning adults were of enhanced origin.  
 Total return (enhanced and non-enhanced) was 1752 broodstock, 10904 escapement, 253 other and 3823 subsistence

<sup>1</sup> "Other": use one line per category (e.g. fish remaining in salt water, sea lion predation, etc ).  
<sup>2</sup> Commercial harvest, noncommercial harvest, and estimated ocean survival: Please provide method used in estimation.

**SCHEDULE F-3**  
**UPDATED 2013 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: Sockeye TRAIL LAKES HATCHERY  
 Location of harvest/return: Tutka Bay Lagoon - EBL & HL Mix

**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 <sup>2</sup>	
A. Troll	
B. Gillnet	
C. Seine	
D. Other (annotate in comments section)	
<b>Total commercial</b>	-

10. Noncommercial <sup>2</sup>	
A. Sport	
B. Personal Use	
C. Subsistence	
D. Other (annotate in comments section)	
<b>Total noncommercial</b>	-

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

12. Estimated ocean survival by BY <sup>2</sup>	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:  
 \_\_\_\_\_  
 No change  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

<sup>1</sup> "Other": use one line per category (e.g. fish remaining in salt water, sea lion predation, etc.).  
<sup>2</sup> Commercial harvest, noncommercial harvest, and estimated ocean survival: Please provide method used in estimation.

**SCHEDULE F-4  
UPDATED 2013 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: Sockeye TRAIL LAKES HATCHERY  
Location of harvest/return: Hidden Lake/Hidden Lake

**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)	1,167
3. Escapement for hatchery watershed (as required in permit)	16,108
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)	452
8. Total return to hatchery	17,727

**Common Property Harvest**

9. Commercial <sup>2</sup>	
A. Troll	
B. Gillnet	12,681
C. Seine	
D. Other (annotate in comments section)	
Total commercial	12,681
10. Noncommercial <sup>2</sup>	
A. Sport	9,430
B. Personal Use	
C. Subsistence	
D. Other (annotate in comments section)	
Total noncommercial	9,430
11. Total Return (sum 8,9,10)	39,838

12. Estimated ocean survival by BY<sup>2</sup>

BY	Total # return in 2011	Cumulative Survival	
BY2007	836	14.8	%
BY2008	10,796	24.1	%
BY2009	28,205	16.1 (INC)	%
			%
			%
			%

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:

Otolith analysis indicated that 76.5% of the Hidden Lake return were of enhanced origin. Age analysis indicated that 70.8% were BY09 and 27.1% were BY08 and 2.1% BY07.  
Total return (enhanced and non-enhanced) were 1525 broodstock, 21056 escapement, 591 other, 16576 common property and 12327 sportfish.

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

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

**SCHEDULE F-5**  
**UPDATED 2013 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: Sockeye TRAIL LAKES HATCHERY  
 Location of harvest/return: Kirschner Lake

**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 <sup>2</sup>	
A. Troll	
B. Gillnet	
C. Seine	
D. Other (annotate in comments section)	
Total commercial	-

10. Noncommercial <sup>2</sup>	
A. Sport	
B. Personal Use	
C. Subsistence	
D. Other (annotate in comments section)	
Total noncommercial	-

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

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:  
 \_\_\_\_\_  
 No change  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

<sup>1</sup> "Other": use one line per category (e.g. fish remaining in salt water, sea lion predation, etc.).  
<sup>2</sup> Commercial harvest, noncommercial harvest, and estimated ocean survival: Please provide method used in estimation.

**SCHEDULE F-6**  
**UPDATED 2013 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: Sockeye TRAIL LAKES HATCHERY  
 Location of harvest/return: Leisure/Hazel Lakes

**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 <sup>2</sup>	
A. Troll	
B. Gillnet	
C. Seine	
D. Other (annotate in comments section)	
<b>Total commercial</b>	-

10. Noncommercial <sup>2</sup>	
A. Sport	
B. Personal Use	
C. Subsistence	
D. Other (annotate in comments section)	
<b>Total noncommercial</b>	-

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

12. Estimated ocean survival by BY <sup>2</sup>	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**

		# fish	lbs fish	
A. Fish harvested/sold	adults			
	jacks			
	total	-	-	
		# fish	lbs roe	
B. Roe recovery		-		
C. Carcasses		# Disposed	# Donated	# Sold
	Spawners			
	Roe recovery (during egg take)			
	Roe recovery (non-egg take)			
	Other (annotate in comments)			
	<b>total number of fish</b>	-	-	-
	total pounds			

Comments:  
 \_\_\_\_\_  
 No change  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

<sup>1</sup> "Other": use one line per category (e.g. fish remaining in salt water, sea lion predation, etc.).  
<sup>2</sup> Commercial harvest, noncommercial harvest, and estimated ocean survival: Please provide method used in estimation.

**SCHEDULE F-7**  
**UPDATED 2013 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:  TRAIL LAKES 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 <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 <sup>2</sup>	
A. Troll	
B. Gillnet	
C. Seine	
D. Other (annotate in comments section)	
Total commercial	-

10. Noncommercial <sup>2</sup>	
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 <sup>2</sup>	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	<input type="text"/>	<input type="text"/>	
	jacks	<input type="text"/>	<input type="text"/>	
	total	-	-	
B. Roe recovery		# fish	lbs roe	
		-	<input type="text"/>	
C. Carcasses		# Disposed	# Donated	# Sold
	Spawners	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Roe recovery (during egg take)	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Roe recovery (non-egg take)	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Other (annotate in comments)	<input type="text"/>	<input type="text"/>	<input type="text"/>
	total number of fish	-	-	-
	total pounds	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments:  
 Otolith analysis is still incomplete at this time.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

<sup>1</sup> "Other": use one line per category (e.g. fish remaining in salt water, sea lion predation, etc.).  
<sup>2</sup> Commercial harvest, noncommercial harvest, and estimated ocean survival: Please provide method used in estimation.