

**TRAIL LAKES HATCHERY  
ANNUAL REPORT  
2007**

Cook Inlet Aquaculture Association  
Gary Fandrei, Executive Director  
December 2007

This year's operation of the Trail Lakes Hatchery was made possible through enhancement taxes paid by commercial salmon fishermen in Area H, Cook Inlet and associated waters, the harvest and sale of surplus fish and a grant provided by Senator Ted Stevens administered through the National Oceanic and Atmospheric Administration and the Alaska Department of Fish and Game.



## ABSTRACT

Reports such as this one covering the operations of the Trail Lakes Hatchery are prepared annually for each hatchery the Cook Inlet Aquaculture Association (CIAA) operates and are submitted to the Alaska Department of Fish and Game.

Such reports cover a calendar year (report year) and, thus, address overlapping fish brood years.

This report covers events during calendar year 2007. During 2007, the Trail Lakes Hatchery Basic Management Plan was amended and redrafted. Because changes were made to the Basic Management Plan during the calendar year, this report covers projects identified in the original Basic Management Plan and reflects the changes that were made in 2007.

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

**Sockeye salmon and coho salmon egg collections were conducted for Trail Lakes Hatchery programs following procedures for delayed fertilization. Numeric egg collections were attained or nearly attained for all sockeye and coho salmon programs. In addition to the eggs collected for regular Trail Lakes Hatchery programs, the hatchery also collected eggs for incubation and rearing for the Port Graham Hatchery sockeye program.**

**Additional fish rearing resources for Resurrection Bay and Big Lake sockeye smolt are provided by the Eklutna Salmon Hatchery when water supplies are limited at Trail Lakes Hatchery.**

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

**Sockeye salmon fry were released into Bear Lake, Hidden Lake, Leisure Lake, Hazel Lake, Kirschner Lake and Meadow Creek (Big Lake). All numeric sockeye fry release goals were met.**

**Sockeye salmon smolt were released into Bear Lake, Tutka Bay Lagoon and Meadow Creek (Big Lake). All numeric sockeye smolt release goals were met or nearly met. Sockeye salmon smolt temporarily reared at the Eklutna Salmon Hatchery in 2007 are included in this report.**

**Coho salmon fry were released into Bear Lake. The numeric fry release goal was met.**

**Coho salmon smolt were released into Bear Creek (Seward), Fish Creek Reservoir (Seldovia) and Kachemak Bay (Homer Spit). All numeric coho salmon smolt release goals were met or nearly met.**

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

**Sockeye salmon and coho salmon returning to the Bear Creek weir complex were harvested and sold when the flesh quality was acceptable for human consumption or harvested and donated for other uses when the flesh quality was unacceptable for human consumption. Cost recovery harvest for sockeye salmon returning to Bear Lake also occurred in Resurrection Bay. Cost Recovery goals at Bear Lake were not met.**

**Sockeye salmon cost recovery harvests were also completed at Leisure, Hazel, and Kirschner Lakes. Revenue goals for harvests at Leisure, Hazel and Kirschner Lakes were met.**

**Sockeye salmon and coho salmon broodstock were collected at Bear, Hidden, and Big Lakes to support Trail Lakes Hatchery projects. These projects contribute to all common property fisheries with one exception. The commercial harvest of the return of coho salmon to Resurrection Bay is precluded by regulation.**

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

**Returns were projected for 2008 based on the number of fish released in the stocking year or smolt migration (when available) and estimated survival rates.**

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

**There were additions to the 2006 data. Schedules Fs are provided with updated information for all 2006 releases.**

## INTRODUCTION

The Trail Lakes Hatchery is owned by the State of Alaska, operated by CIAA and is located on the Seward Highway near Moose Pass. No fish releases are made at the facility. Releases are made at ten locations for the primary purpose of contributing to the common property fisheries of Cook Inlet.

The Trail Lakes Hatchery sockeye salmon releases return to the stocking sites as adults through the recreational and commercial fisheries of the Central District, the Northern District and Lower Cook Inlet including Resurrection Bay. Coho salmon releases return to the stocking sites as adults through the recreational fisheries of Lower Cook Inlet (Resurrection Bay and Kachemak Bay).

The Trail Lakes Hatchery operates under Private Non-Profit Permit #27 issued in 1988 and has a permitted capacity of 30.0 million sockeye salmon eggs, 6.0 million coho salmon eggs and 4.0 million Chinook salmon eggs. The Fish Transport Permits (FTP's) under which CIAA operates the programs of the Trail Lakes Hatchery are as follows:

FTP Number	Expiration Date	Purpose
<b>Coho</b>		
93A-0030	06/30/08	Allows the egg take at Bear Lk., incubation at TLH, and the release of 450,000 fry into Bear Lk.
93A-0031	06/30/08	Allows the egg take at Bear L., incubation at TLH, and the release of 250,000 smolt into Bear Ck.
04A-0053	06/30/08	Allows the egg take of 235,000 at Bear L., incubation at TLH, and the release of 150,000 smolt into Homer Spit. On 6/6/06 CIAA submitted an e-mail request to Sara Larsen to amend this permit for a one-time release of 250,000 smolt. On 6/12/06 CIAA received an e-mail from Nicky Szarzi approving the one-time release.
06A-0059	06/30/08	Allows the egg take of 235,000 at Bear L., incubation at TLH, and the release of 150,000 smolt into Seldovia Bay
06A-0062 <i>(expired)</i>	06/30/06	Allows the one-time release of 250,000 Bear Lake smolt to the Lowell Creek Diversion and Resurrection Bay.
06A-0033 <i>(expired)</i>	06/15/06	Allows transport and temporary rearing of Bear Lake coho at the ESH in 2006. The release of fish to Bear Lake is described in FTP 04A-0053, 06A-0059 and 06A-0062.
06A-0080 <i>(expired)</i>	05/31/07	Transfer 4,000 Bear Lake coho fingerlings to the ASLC. This permit is issued to the ASLC.

FTP Number	Expiration Date	Purpose
<b>Sockeye</b>		
02A-0049 <i>(expired)</i>	07/31/07	Allows the egg take of 6,250,000 eggs at Meadow Cr., incubation at TLH, and release of 3,000,000 fry into Meadow Cr. and 2,000,000 fry into Blodgette Lk. <i>CIAA will submit a request to renew this permit.</i>
06A-0060	06/30/08	Allows the egg take of 1,250,000 eggs at Meadow Cr., incubation at TLH, and release of up to 1,000,000 fall fry into Meadow Cr.
06A-0058	06/30/08	Allows the egg take of 1,250,000 eggs at Meadow Cr., incubation at TLH, and release of up to 1,000,000 spring smolt into Meadow Cr. <i>CIAA has requested this permit be amended for rearing Big Lake smolt at the ESH during periods of water shortages and extend the expiration date to 6/30/10.</i>
07A-0015 <i>(expired)</i>	06/15/07	Allows transport and temporary rearing of Big Lake sockeye at the ESH in 2007. The release of fish to Meadow Creek is described in FTP 06A-0058.

FTP Number	Expiration Date	Purpose
Sockeye (cont'd)		
96A-0086 (expired)	06/30/07	Allows egg take and the release of up to 6,000,000 Tustumena Lk. (Bear Cr.) sockeye fry into Tustumena Lk.
02A-0050 (expired)	07/31/07	Allows the egg take of 1,560,000 eggs at Tustumena Lk., incubation at TLH, and release of 1,250,000 fry into Hazel Lk.
02A-0051 (expired)	07/31/07	Allows the egg take of 310,000 eggs at Tustumena Lk. , incubation at TLH, and release of 250,000 fry into Kirschner Lk.
02A-0052 (expired)	07/31/07	Allows the egg take of 2,500,000 eggs at Tustumena Lk. , incubation at TLH, and release of 2,000,000 fry into Leisure Lk.
93A-0036	06/30/08	Allows the egg take of 2,200,000 eggs at Hidden Lk., incubation at TLH, and release of the resultant fry into Hidden Lk.
04A-0064	10/15/09	Allows the egg take of 1,560,000 eggs at Hidden Lk., incubation at TLH, and release of 1,250,000 fry into Hazel Lk.
04A-0065	10/15/09	Allows the egg take of 310,000 eggs at Hidden Lk. , incubation at TLH, and release of 250,000 fry into Kirschner Lk.
04A-0066	10/15/09	Allows the egg take of 2,500,000 eggs at Hidden Lk. , incubation at TLH, and release of 2,000,000 fry into Leisure Lk.
05A-0095	6/30/10	Allows for the egg take of 762,000 eggs at Hidden Lake, incubation at TLH, and release of 500,000 smolt into Tutka Bay Lagoon.
93A-0032	06/30/08	Allows the egg take of 4,100,000 eggs at Bear Lk., incubation at TLH, and release of the resultant fry into Bear Lk.
01A-0111 (expired)	06/30/06	Allows the egg take of 1,250,000 eggs at Bear Lk., incubation at TLH, and release of the resultant presmolt into Bear Lk.
01A-0112 (expired)	06/30/06	Allows the egg take of 1,750,000 eggs at Bear Lk., incubation at TLH, and release of the resultant smolt into Bear Lk.
07A-0016 (expired)	06/15/07	Allows transport and temporary rearing of Bear Lake sockeye at the ESH in 2007.
07A-0061	06/30/11	Allows for the egg collection, incubation and release of up to 1,536,000 smolt to Resurrection Bay and the temporary rearing at the ESH during periods of water shortages. This permit replaces FTPs 01A-0111 and 01A-0112.
04A-0071 (expired)	03/31/06	Allows transport and temporary rearing of English Bay Lakes sockeye eggs (1,400,000), fall fry (200,000) and smolt (800,000) at TLH. This permit was issued to Port Graham Hatchery.
06A-0084	12/31/09	Allows transport and rearing of English Bay Lakes sockeye eggs (1,150,000) at TLH and release of up to 1,150,000 at Port Graham. <i>This permit was issued to Port Graham Hatchery.</i>

# ANNUAL REPORT SALMON HATCHERY

Year Ended December 1, 2007

Hatchery name/Location  
Permit holder name/Address

<b>Trail Lakes Hatchery</b>
Cook Inlet Aquaculture Association
40610 Kalifonsky Beach Rd
Kenai, AK 99611-6445

Person to contact  
regarding this report

Gary Fandrei
(907) 283-5761

name  
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

Date

Signature of Representative

### Part 1. REPORT OF THIS YEAR'S PERFORMANCE

A. Complete the following schedules of production statistics for this year. Use the metric system for length and weight measurements.

Schedule A- Annual Broodstock Report

Schedule B- Fish Culture Report

Schedule C- Harvest Management and Hatchery Returns

If this site is a central incubation Facility, complete a separate schedule for each remote release site.

### Part 2. PROJECTED RETURNS FOR NEXT YEAR

A. Complete Schedule D with each species and each release site.

### Part 3. UPDATED SCHEDULES FOR PRIOR YEAR ANNUAL REPORT ARE MANDATORY

A. Updated schedule C (called F) is attached. Please update the information we have on file, if changes have occurred or numbers have been finalized.

# SCHEDULE A-1

## ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

**Trail Lakes  
Hatchery**

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

1. Species	Sockeye Salmon					
2. Stock (donor stream name/number)	Bear Lake (Seward) 231-30-10080-2010-3065-4010-0010					
3. Viable broodstock (spawned, eggs in incubators)	2,132	females	2,133	males	4,265	total
4. Inviabile broodstock (green/over-ripe/bad)	6	females	10	males	16	total
5. Unspawned fish (roe recovery, excess males)						
6. Holding mortalities (raceway, pen mortalities)	139					
7. Adults captured for broodstock (sum 3 thru 6)	4,420					
8. Average length and weight of adults used for broodstock						
females>		cm		kg		
males>		cm		kg		
9. Average fecundity (eggs/female)	2,848					
10. Eggtake dates:	7/28/07-8/25/07					
11. Number of green eggs taken	6,071,000					
12. Number of eggs transferred (annotate below)						
13. Number placed in hatchery <sup>1</sup>	6,071,000					
14. Number surviving to eyed	5,398,000				88.91%	% survival <sup>2</sup>

15. Describe procedures used for egg takes and evaluation of in-hatchery survivals:  
 #3, 4, 6 & 7 - Based on smolt migration data CIAA estimates 90% of these fish are of hatchery origin.

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#14 - Survival less than 90% due to pen holding of broodstock for maturation and because delayed fertilization technique was used.

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#15 - All eggs and milt transferred directly to Trail Lakes Hatchery. Delayed fertilization technique used following ADF&G Sockeye Salmon protocol. Survival estimates based on average egg weights.

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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.

1. Species	Sockeye Salmon					
2. Stock (donor stream name/number)	Meadow Creek (Big Lake) 247-50-10330-2050					
3. Viable broodstock (spawned, eggs in incubators)	1,865	female s	1,867	male s	3,732	total
4. Inviable broodstock (green/over-ripe/bad)	12	female s	6	male s	18	total
5. Unspawned fish (roe recovery, excess males)						
6. Holding mortalities (raceway, pen mortalities)	64					
7. Adults captured for broodstock (sum 3 thru 6)	3,814					
8. Average length and weight of adults used for broodstock						
females>		cm		kg		
males>		cm		kg		
9. Average fecundity (eggs/female):	2,644					
10. Eggtake dates:	8/11/07-8/20/07					
11. Number of green eggs taken	4,931,000					
12. Number of eggs transferred (annotate below)						
13. Number placed in hatchery <sup>1</sup>	4,931,000					
14. Number surviving to eyed	3,955,000		80.21%		% survival <sup>2</sup>	

15. Describe procedures used for egg takes and evaluation of in-hatchery survivals:  
 #3, 4, 6 & 7 - Based on smolt migration data CIAA estimates 67% of these fish are of hatchery origin.

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#14 - Survival less than 90% due to poor broodstock quality and because delayed fertilization technique was used.

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#15 - All eggs and milt transferred directly to Trail Lakes Hatchery. Delayed fertilization technique used following ADF&G Sockeye Salmon protocol. Survival estimates based on average egg weights.

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

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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.

1. Species	Sockeye Salmon					
2. Stock (donor stream name/number)	Hidden Lake (Kenai Peninsula) 244-30-10010-2137-0010					
3. Viable broodstock (spawned, eggs in incubators)	2,231	female s	2,199	male s	4,430	total
4. Inviabile broodstock (green/over-ripe/bad)	28	female s	10	male s	38	total
5. Unspawned fish (roe recovery, excess males)						
6. Holding mortalities (raceway, pen mortalities)	52					
7. Adults captured for broodstock (sum 3 thru 6)	4,520					
8. Average length and weight of adults used for broodstock						
	52.6	females>	cm		kg	
	54.7	males>	cm		kg	
9. Average fecundity (eggs/female):	2,549					
10. Eggtake dates:	9/19/07-10/12/07					
11. Number of green eggs taken	5,686,000					
12. Number of eggs transferred (annotate below)						
13. Number placed in hatchery <sup>1</sup>	5,686,000					
14. Number surviving to eyed	5,083,000					
				89.40%	% survival <sup>2</sup>	

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

#3, 4, 6 & 7 - Based on smolt migration data CIAA estimates 62% of these fish are of hatchery origin.

#14 - Survival less than 90% due to pen holding of broodstock for maturation and because delayed fertilization technique was used.

#15 - All eggs and milt transferred directly to Trail Lakes Hatchery. Delayed fertilization technique used following ADF&G Sockeye Salmon protocol. Survival estimates based on average egg weights.

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.

1. Species	Sockeye Salmon					
2. Stock (donor stream name/number)	English Bay Lakes 241-30-10500-0020					
3. Viable broodstock (spawned, eggs in incubators)	197	females	175	male s	372	total
4. Inviabile broodstock (green/over-ripe/bad)	unknown	females	unknown	male s	-	total
5. Unspawned fish (roe recovery, excess males)						
6. Holding mortalities (raceway, pen mortalities)	unknown					
7. Adults captured for broodstock (sum 3 thru 6)	unknown					
8. Average length and weight of adults used for broodstock						
females>	unknown	cm	unknown	kg		
males>	unknown	cm	unknown	kg		
9. Average fecundity (eggs/female):	2,591					
10. Eggtake dates:	9/13/07					
11. Number of green eggs taken	510,000					
12. Number of eggs transferred (annotate below)						
13. Number placed in hatchery <sup>1</sup>	510,000					
14. Number surviving to eyed	409,000		80.20%		% survival <sup>2</sup>	

#3, 4, 6, 7 & 8 - CIAA assisted Port Graham Hatchery with this egg take and does not have access to all the information requested.

#14 - Survival less than 90% due to logistical delays in initiating the eggtake and because delayed fertilization technique was used.

#15 - All eggs and milt transferred directly to Trail Lakes Hatchery. Delayed fertilization technique used following ADF&G Sockeye Salmon protocol. Survival estimates based on average egg weights.

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.

1. Species	Coho Salmon					
2. Stock (donor stream name/number)	Bear Lake (Seward) 231-30-10080-2010-3065-4010-0010					
3. Viable broodstock (spawned, eggs in incubators)	220	females	146	male s	366	total
4. Inviabile broodstock (green/over-ripe/bad)	7	females	6	male s	13	total
5. Unspawned fish (roe recovery, excess males)						
6. Holding mortalities (raceway, pen mortalities)	38					
7. Adults captured for broodstock (sum 3 thru 6)	417					
8. Average length and weight of adults used for broodstock						
	females>	cm	<input type="text"/>	kg		
	males>	cm	<input type="text"/>	kg		
9. Average fecundity (eggs/female):	3,290					
10. Eggtake dates:	10/7/07-11/5/07					
11. Number of green eggs taken	748,000					
12. Number of eggs transferred (annotate below)						
13. Number placed in hatchery <sup>1</sup>	748,000					
14. Number surviving to eyed	581,000					
15. Describe procedures used for egg takes and evaluation of in-hatchery survivals:	77.67% % survival <sup>2</sup>					

#3, 4, 6 & 7 - Based on smolt migration and stocking data CIAA estimates less than 88% of these fish are of hatchery origin.

#14 - Survival less than 90% because broodstock were forced to hold downstream for extended period of time due to extremely low water. Fish that migrated were of poor quality. The number of surviving eggs was also reduced by 24,000 eggs because two incubator trays (six females) were destroyed due to the presence of Renibacterium salmoninarium (Rs)

#15 All eggs and milt fertilized at Bear Creek weir, water hardened and transferred directly to Trail Lakes Hatchery. In-hatchery survivals calculated at eyed-egg stage after picking.

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.

1. Species						
2. Stock (donor stream name/number)						
3. Viable broodstock (spawned, eggs in incubators)		females		males	-	total
					-	total
4. Inviabile broodstock (green/over-ripe/bad)		females		males	-	total
5. Unspawned fish (roe recovery, excess males)						
6. Holding mortalities (raceway, pen mortalities)						
7. Adults captured for broodstock (sum 3 thru 6)	-					
8. Average length and weight of adults used for broodstock						
	females>		cm		kg	
	males>		cm		kg	
9. Average fecundity (eggs/female):						
10. Eggtake dates:						
11. Number of green eggs taken						
12. Number of eggs transferred (annotate below)						
13. Number placed in hatchery <sup>1</sup>						
14. Number surviving to eyed						
15. 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.

1. Species						
2. Stock (donor stream name/number)						
3. Viable broodstock (spawned, eggs in incubators)		females		male s	-	total
					-	total
4. Inviabile broodstock (green/over-ripe/bad)		females		male s	-	total
5. Unspawned fish (roe recovery, excess males)						
6. Holding mortalities (raceway, pen mortalities)						
7. Adults captured for broodstock (sum 3 thru 6)	-					
8. Average length and weight of adults used for broodstock						
	females>		cm		kg	
	males>		cm		kg	
9. Average fecundity (eggs/female):						
10. Eggtake dates:						
11. Number of green eggs taken						
12. Number of eggs transferred (annotate below)						
13. Number placed in hatchery <sup>1</sup>						
14. Number surviving to eyed						
15. Describe procedures used for egg takes and evaluation of in-hatchery survivals:						

#DIV/0! % survival<sup>2</sup>

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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.

1. Species					
2. Stock (donor stream name/number)					
3. Viable broodstock (spawned, eggs in incubators)	females		male s	-	total
4. Inviatile broodstock (green/over-ripe/bad)	females		male s	-	total
5. Unspawned fish (roe recovery, excess males)					
6. Holding mortalities (raceway, pen mortalities)					
7. Adults captured for broodstock (sum 3 thru 6)	-				
8. Average length and weight of adults used for broodstock					
	females>	cm		kg	
	males>	cm		kg	
9. Average fecundity (eggs/female):					
10. Eggtake dates:					
11. Number of green eggs taken					
12. Number of eggs transferred (annotate below)					
13. Number placed in hatchery <sup>1</sup>					
14. Number surviving to eyed					
15. Describe procedures used for egg takes and evaluation of in-hatchery survivals:					

#DIV/0! % survival<sup>2</sup>

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

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# SCHEDULE A-9

## ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

**Trail Lakes  
Hatchery**

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

1. Species					
2. Stock (donor stream name/number)					
3. Viable broodstock (spawned, eggs in incubators)	females		male s	-	total
4. Inviabile broodstock (green/over-ripe/bad)	females		male s	-	total
5. Unspawned fish (roe recovery, excess males)					
6. Holding mortalities (raceway, pen mortalities)					
7. Adults captured for broodstock (sum 3 thru 6)	-				
8. Average length and weight of adults used for broodstock					
	females>	cm		kg	
	males>	cm		kg	
9. Average fecundity (eggs/female):					
10. Eggtake dates:					
11. Number of green eggs taken					
12. Number of eggs transferred (annotate below)					
13. Number placed in hatchery <sup>1</sup>					
14. Number surviving to eyed					
				#DIV/0!	% survival <sup>2</sup>
15. Describe procedures used for egg takes and evaluation of in-hatchery survivals:					

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1. Provide explanation if greater than number of green eggs taken.	2. Provide explanation for survivals less than 90%.
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# SCHEDULE A-10 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

**Trail Lakes  
Hatchery**

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

1. Species						
2. Stock (donor stream name/number)						
3. Viable broodstock (spawned, eggs in incubators)		females		males	-	total
4. In viable broodstock (green/over-ripe/bad)		females		males	-	total
5. Unspawned fish (roe recovery, excess males)						
6. Holding mortalities (raceway, pen mortalities)						
7. Adults captured for broodstock (sum 3 thru 6)	-					
8. Average length and weight of adults used for broodstock						
females>		cm		kg		
males>		cm		kg		
9. Average fecundity (eggs/female):						
10. Eggtake dates:						
11. Number of green eggs taken						
12. Number of eggs transferred (annotate below)						
13. Number placed in hatchery <sup>1</sup>						
14. Number surviving to eyed						
15. Describe procedures used for egg takes and evaluation of in-hatchery survivals:						
	#DIV/0!				% survival <sup>2</sup>	

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

## ANNUAL FISH CULTURE PRODUCTION REPORT

Complete this schedule for each species and stock of eggs (or fish) cultured this year from prior broodyears. Please provide explanations for any differences in reported numbers of green eggs and eyed eggs from those reported last year by species and stock.

### FISH CULTURE REPORT

Species: Sockeye      Stock: Bear Lake (Seward)      Brood year: 2005

#### A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs	4,002,000	100%	
2. Eyed eggs	3,618,000	90.4%	
3. Emergent fry	3,509,000	87.7%	
4. Fed fry	3,404,000	85.1%	fry released in 2006
5. Smolts	737,000	18.4%	smolts released in 2007

#### B. Release Information

Site	Release			Size		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Bear Lake (Seward)	2,414,000	6/21-6/22 06	fry	0.52		108,000	2009, 2010
Bear Lake (Seward)	619,000	5/15-5/18 07	smolts	9.9		62,000	2009, 2010
Total:	3,033,000						

#### C. Tagging/Marking

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

Fry Hatch Code: 6H	Rbr: 1:1.6	
Smolt Hatch Code: 2,1H	Rbr: 1:1.2,2.1	

#### D. Other

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

none

## SCHEDULE B-2

### ANNUAL FISH CULTURE PRODUCTION REPORT

Complete this schedule for each species and stock of eggs (or fish) cultured this year from prior broodyears. Please provide explanations for any differences in reported numbers of green eggs and eyed eggs from those reported last year by species and stock.

#### FISH CULTURE REPORT

Species: Sockeye      Stock: Bear Lake (Seward)      Brood year: 2006

#### A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs	6,087,000	100%	
2. Eyed eggs	5,444,000	89.4%	
3. Emergent fry	5,281,000	86.8%	
4. Fed fry	4,756,000	78.1%	fry released in 2007
5. Smolts	2,012,000	33.1%	for release in 2008

#### B. Release Information

Site	Release			Size		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Bear Lake (Seward)	2,437,000	6/3 07	fry	0.65		92,000	2010, 2011

Total: 2,437,000

#### C. Tagging/Marking

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

Fry Hatch Code	4,2H	Rbr: 1:1.4, 2,2

#### D. Other

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

Please see ADF&G Fish Pathology Section Accession Nos. 2007-0059, 2007-0065, 2008-0019

# SCHEDULE B-3

## ANNUAL FISH CULTURE PRODUCTION REPORT

Complete this schedule for each species and stock of eggs (or fish) cultured this year from prior broodyears. Please provide explanations for any differences in reported numbers of green eggs and eyed eggs from those reported last year by species and stock.

### FISH CULTURE REPORT

Species:       Stock:       Brood year:

#### A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs	2,027,000	100%	
2. Eyed eggs	1,642,000	81.0%	
3. Emergent fry	1,593,000	78.6%	
4. Fed fry	1,545,000	76.2%	
5. Smolts	193,000	9.5%	released in 2007

#### B. Release Information

Site	Release			Size		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Hidden Lake	582,000	5/18 06	fry	0.089		56,000	2009, 2010
Leisure Lake	680,000	6/29 06	fry	0.193		27,000	2009, 2010
Tutka Bay Hatchery	144,000	5/15 07	smolts	13.85		14,000	2009, 2010
Total:	1,406,000						

#### C. Tagging/Marking

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

Hidden Lake fry Hatch Code	H2,2,2	Rbr: 2:1.2, 2.2, 3.2
Leisure Lake fry Hatch Code	H3,1	Rbr: 2:1.3, 2.1
Tutka Bay smolts Hatch Code	H3,1	Rbr: 2:1.3, 2.1

#### D. Other

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

Please see ADF&G Fish Pathology Section Accession Nos. 2007-0021, 2006-0087

## SCHEDULE B-4 ANNUAL FISH CULTURE PRODUCTION REPORT

Complete this schedule for each species and stock of eggs (or fish) cultured this year from prior broodyears. Please provide explanations for any differences in reported numbers of green eggs and eyed eggs from those reported last year by species and stock.

### FISH CULTURE REPORT

Species: Sockeye

Stock: Hidden Lake (Kenai)

Brood year: 2006

#### A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs	5,640,000	100%	
2. Eyed eggs	5,232,000	92.8%	
3. Emergent fry	5,075,000	90.0%	
4. Fed fry	5,072,000	89.9%	Includes 658,000 Hidden Lake fry stocked as unfed fry
5. Smolts	570,000	10.1%	for release in 2008

#### B. Release Information

Site	Release			Size		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Hidden Lake	658,000	5/20 07	unfed fry	0.086		31,000	2010, 2011
Leisure Lake	2,315,000	6/27,28 07	fry	0.190		93,000	2010, 2011
Hazel Lake	1,411,000	6/28 07	fry	0.183		56,000	2010, 2011
Kirschner Lake	254,000	6/27 07	fry	0.225		25,000	2010, 2011

Total: 4,638,000

#### C. Tagging/Marking

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

Hidden Lake fry Hatch Code	2, 2, 2H	Rbr: 1:1.2, 2.2,3.2
Leisure Lake fry Hatch Code	2, 2H	Rbr: 1:1.2, 2.2
Hazel Lake fry Hatch Code	2, 2H	Rbr: 1:1.2, 2.2
Kirschner Lake fry Hatch Code	2, 2H	Rbr: 1:1.2, 2.2

#### D. Other

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

Please see ADF&G Fish Pathology Section Accession Nos. 2007-0039, 2006-0077

## SCHEDULE B-5 ANNUAL FISH CULTURE PRODUCTION REPORT

Complete this schedule for each species and stock of eggs (or fish) cultured this year from prior broodyears. Please provide explanations for any differences in reported numbers of green eggs and eyed eggs from those reported last year by species and stock.

### FISH CULTURE REPORT

Species: Sockeye

Stock: Meadow Ck. (Big Lake)

Brood year: 2005

#### A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs	2,185,000	100%	
2. Eyed eggs	1,662,000	76.1%	
3. Emergent fry	1,612,000	73.8%	
4. Fed fry	1,564,000	71.6%	
5. Smolts	409,000	18.7%	for release in 2007

#### B. Release Information

Site	Release			Size		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Meadow Ck.	444,000	6/13 06	fry	0.846		18,000	2009, 2010
Meadow Ck.	426,000	11/22-11/29 06	presmolt	4.7		no estimate	2009, 2010
Meadow Ck.	316,000	5/22 07	smolt	16.9		no estimate	2009, 2010

Total: 1,186,000

#### C. Tagging/Marking

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

Meadow Ck. Fry Hatch Code	H3	Rbr: 2:1.3
Meadow Ck. Presmolt Hatch Code	H5	Rbr: 2:1.5
Meadow Ck. Smolt Hatch Code	H2,4	Rbr: 2:1.2,2.4

#### D. Other

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

none

## SCHEDULE B-6 ANNUAL FISH CULTURE PRODUCTION REPORT

Complete this schedule for each species and stock of eggs (or fish) cultured this year from prior broodyears. Please provide explanations for any differences in reported numbers of green eggs and eyed eggs from those reported last year by species and stock.

### FISH CULTURE REPORT

Species: Sockeye

Stock: Meadow Ck. (Big Lake)

Brood year: 2006

#### A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs	6,483,000	100%	
2. Eyed eggs	5,895,000	90.9%	
3. Emergent fry	5,718,000	88.2%	
4. Fed fry	5,546,000	85.5%	
5. Smolts	523,000	8.1%	for release in 2008

#### B. Release Information

Site	Release			Size		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Meadow Ck.	3,812,000	5/28-30 07	fry	0.616		31,000	2010, 2011
Meadow Ck.	703,000	10/16-18 07	presmolt	3.0		no estimate	2010, 2011

Total: 4,515,000

#### C. Tagging/Marking

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

Meadow Ck. Fry Hatch Code	2,3H	Rbr: 1:1.2, 2.3
Meadow Ck. Presmolt Hatch Code	6,1H	Rbr: 1:1.6, 2.1
Meadow Ck. Smolt Hatch Code	1,5H	Rbr: 1:1.1, 2.5

#### D. Other

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

Please see ADF&G Fish Pathology Section Accession Nos. 2007-0068, 2008-0018

## SCHEDULE B-7 ANNUAL FISH CULTURE PRODUCTION REPORT

Complete this schedule for each species and stock of eggs (or fish) cultured this year from prior broodyears. Please provide explanations for any differences in reported numbers of green eggs and eyed eggs from those reported last year by species and stock.

### FISH CULTURE REPORT

Species: Coho

Stock: Bear Creek (Seward)

Brood year: 2005

#### A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs	1,415,000	100%	
2. Eyed eggs	1,253,000	88.6%	
3. Emergent fry	1,215,000	85.9%	
4. Fed fry	1,179,000	83.3%	
5. Smolts	687,000	48.6%	for release in 2007

#### B. Release Information

Site	Release			Size		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Bear Lake (Seward)	447,000	6/20 06	fry	0.84		4,200	2008
Homer Spit	101,000	6/06 07	smolts	9.69		4,000	2008
Seldovia	97,000	6/12 07	smolts	11.5		3,900	2008
Bear Lake (Seward)	237,000	6/13 07	smolts	8.86		9,500	2008
Total:	882,000						

#### C. Tagging/Marking

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

Bear Lake Coho fry Hatch Code	H3,3	Rbr: 2:1.3,2.3
Bear Lake Coho smolt Hatch Code	H2,2	Rbr: 2:1.2,2.2
Bear Lake Coho smolt Hatch Code	H3,1	Rbr: 2:1.3,2.1

#### D. Other

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

Please see ADF&G Fish Pathology Section Accession No. 2007-0034



## SCHEDULE B-8 ANNUAL FISH CULTURE PRODUCTION REPORT

Complete this schedule for each species and stock of eggs (or fish) cultured this year from prior broodyears. Please provide explanations for any differences in reported numbers of green eggs and eyed eggs from those reported last year by species and stock.

### FISH CULTURE REPORT

Trail Lakes Hatchery

Species:

Stock:

Brood year:

#### A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs	1,084,000	100%	
2. Eyed eggs	990,000	91.3%	
3. Emergent fry	960,000	88.6%	
4. Fed fry	851,000	78.5%	
5. Smolts	330,000	30.4%	for release in 2008

#### B. Release Information

Site	Release			Size		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Bear Lake	521,000	6/7 07	fry	1.00		4,900	2009

Total:

#### C. Tagging/Marking

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

Bear Lake Coho fry Hatch Code	H2,2,2	Rbr: 2:1.2, 2.2, 3.2
Bear Lake Coho smolt Hatch Code	H1,4	Rbr: 2:1.1, 2.4
Bear Lake Coho smolt Hatch Code	H3,3	Rbr: 2:1.3, 2.3

#### D. Other

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

Please see ADF&G Fish Pathology Section Accession No. 2007-0046

# SCHEDULE B-9

## ANNUAL FISH CULTURE PRODUCTION REPORT

Complete this schedule for each species and stock of eggs (or fish) cultured this year from prior broodyears. Please provide explanations for any differences in reported numbers of green eggs and eyed eggs from those reported last year by species and stock.

### FISH CULTURE REPORT

Trail Lakes Hatchery

Species:

Stock:

Brood year:

#### A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs		100%	
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		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Total:	-						

#### C. Tagging/Marking

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

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#### D. Other

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

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# SCHEDULE B-10 ANNUAL FISH CULTURE PRODUCTION REPORT

Complete this schedule for each species and stock of eggs (or fish) cultured this year from prior broodyears. Please provide explanations for any differences in reported numbers of green eggs and eyed eggs from those reported last year by species and stock.

## FISH CULTURE REPORT

Trail Lakes Hatchery

Species:  Stock:  Brood year:

### A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs		100%	
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		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Total:	-						

### C. Tagging/Marking

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

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### D. Other

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

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# SCHEDULE C-1

## HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

**Trail Lakes  
Hatchery**

Species:	Sockeye Salmon
Location of harvest/return:	Leisure/Hazel Lakes

### Hatchery Escapement

1. Cost recovery fish (line 16A & 16B) traditional harvest and roe recovery fish	22,586	
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)	536	
6. Other <sup>1</sup> (annotate in comments section)		
7. Other <sup>1</sup> (annotate in comments section)		
<b>8. Total return to hatchery</b>		<b>23,122</b>

### Common Property Harvest

9. Commercial		
A. Troll		
B. Gillnet		
C. Seine	83,802	
D. Other (annotate in comments section)		
<b>Total commercial</b>		<b>83,802</b>

10. Non-commercial		
A. Sport	5,550	
B. Personal Use		
C. Subsistence		
D. Other (annotate in comments section)		
<b>Total non-commercial</b>		<b>5,550</b>

<b>11. Total Return (sum 8,9,10)</b>		<b>112,474</b>
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12. Estimated ocean survival by BY <sup>2</sup>	BY	Total # returning in 2007	Cumulative Survival	
	2003	90,000	3.82	%
2002	22,000	2.80	%	
			%	
			%	
			%	

13. Average size of fish sold	<length-cm	2.1	wt-kg
14. Date(s) of harvest	7/2/07 thru 7/23/07		
15. Gear type or method used	Commercial Seine Boat		

**16. Disposition of Hatchery Escapement**

		# fish	lbs. fish
A	Fish harvested/sold		
.	adults	22,586	103,317
	jacks		
	total	22,586	103,317

		# fish	lbs. roe
B	Roe recovery	-	

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

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 100% of the returning fish are of hatchery origin. The**

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**allocation of returning fish between broodyears are preliminary and should not be used or cited.**

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#5 - When harvest operations were terminated, ADF&G estimated 536 fish remained below the falls. These fish were not expected to

spawn successfully.

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#10 - Estimated sport, personal use and subsistence. Estimate may be low.

#12 - Age composition of the returning fish was not determined. However, based on historic age composition of the broodstock, 80% of the

return is typically 2-ocean fish and 20% 3-ocean. To estimate survival rate, CIAA assumed these percentages.

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Broodyear 2002 is complete

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

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

# SCHEDULE C- 2

## HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

**Trail Lakes  
Hatchery**

Species:	Sockeye	
	Salmon	
Location of harvest/return:	Kirschner Lake	

**Hatchery Escapement**

1. Cost recovery fish (line 16A & 16B) traditional harvest and roe recovery fish	27,719	
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)		
<b>8. Total return to hatchery</b>		27,719

**Common Property Harvest**

9. Commercial		
A. Troll		
B. Gillnet		
C. Seine	7,725	
D. Other (annotate in comments section)		
<b>Total commercial</b>		7,725

10. Non-commercial		
A. Sport	-	
B. Personal Use	-	
C. Subsistence	-	
D. Other (annotate in comments section)		
<b>Total non-commercial</b>		-

<b>11. Total Return (sum 8,9,10)</b>		<b>35,444</b>
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	BY	Total # returning in 2007	Cumulative Survival	
12. Estimated ocean survival by BY 2	2003	28,000	11.16	%
	2002	7,000	15.77	%
				%
				%
				%

13. Average size of fish sold	<length-cm	1.8	wt-kg
14. Date(s) of harvest	7/9/07 thru 7/30/07		
15. Gear type or method used	Commercial Seine Boat		

### 16. Disposition of Hatchery Escapement

A	Fish harvested/sold adults	# fish	lbs. fish
.		27,719	110,636
	jacks		
	total	27,719	110,636

B	Roe recovery	# fish	lbs. roe
.		-	

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

#### Comments:

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 100% of the returning fish are of hatchery origin. The**

**allocation of returning fish between broodyears are preliminary and should not be used or cited.**

#12 - Age composition of the returning fish was not determined. However, based on historic age composition of the broodstock, 80% of the

return is typically 2-ocean fish and 20% 3-ocean. To estimate survival rate, CIAA assumed these percentages.

Broodyear 2002 is complete

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



# SCHEDULE C- 3

## HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

**Trail Lakes Hatchery**

Species:	Sockeye Salmon
Location of harvest/return:	Tutka Bay Lagoon

**Hatchery Escapement**

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

-
-
-

**Common Property Harvest**

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

**Total commercial**
10. Non-commercial
  - A. Sport
  - B. Personal Use
  - C. Subsistence
  - D. Other (annotate in comments section)

**Total non-commercial**

-
-
-

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

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	BY	Total # returning in 2007	Cumulative Survival	
	2003	0	-	%
12. Estimated ocean survival by BY 2				%
				%
				%
				%
				%

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

**16. Disposition of Hatchery Escapement**

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

	# fish	lbs. roe
B Roe recovery	-	

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

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 100% of the returning fish are of hatchery origin. The**

**allocation of returning fish between broodyears are preliminary and should not be used or cited.**

#11 - Fish were released late in the spring during a large pink return. All fish assumed to be lost.

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

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

# SCHEDULE C- 4

## HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

**Trail Lakes  
Hatchery**

Species:	Sockeye Salmon (Fry, Fall Fry, Smolt)
Location of harvest/return:	Bear Lake (Resurrection Bay)

**Hatchery Escapement**

1. Cost recovery fish (line 16A & 16B) traditional harvest and roe recovery fish	7,000	
2. Adults captured for broodstock (Schedule A line 7) minus roe recovery fish (line 16B)	4,420	
3. Escapement for hatchery watershed (as required in permit)	7,000	
4. Jacks		
5. Other <sup>1</sup> (annotate in comments section)	(900)	
6. Other <sup>1</sup> (annotate in comments section)		
7. Other <sup>1</sup> (annotate in comments section)		
<b>8. Total return to hatchery</b>		<b>17,520</b>

**Common Property Harvest**

9. Commercial		
A. Troll		
B. Gillnet		
C. Seine	12,000	
D. Other (annotate in comments section)		
<b>Total commercial</b>		<b>12,000</b>

10. Non-commercial		
A. Sport	4,000	
B. Personal Use		
C. Subsistence		
D. Other (annotate in comments section)		
<b>Total non-commercial</b>		<b>4,000</b>

<b>11. Total Return (sum 8,9,10)</b>		<b>33,520</b>
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	BY	Total # returning in 2007	Cumulative Survival
12. Estimated ocean survival by BY 2	2003	17,000	%
	2002	17,000	%
			%
			%
			%

13. Average size of fish sold		<length-cm	2.1	wt-kg
14. Date(s) of harvest	6/21/07 thru 7/27/07			
15. Gear type or method used	Commercial Seine Boat and Weir			

### 16. Disposition of Hatchery Escapement

	# fish	lbs. fish
A Fish harvested/sold adults	7,000	33,000
jacks		
total	7,000	33,000

	# fish	lbs. roe
B Roe recovery	-	

	# Disposed	# Donated	# Sold
C Carcasses			
Spawners	3,500	300	
Roe recovery (during eggtake)			
Roe recovery (non-eggtake)			
Other (annotate in comments)			
total number of fish	3,500	300	-
total pounds	16,400	1,400	

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 80% of the returning fish are of hatchery origin.**

**Reported**

**values have been adjusted accordingly. The allocation of returning fish between broodyears and source**

**(hatchery vs. wild) are preliminary and should not be used or cited.**

#5 - Nonhatchery fish included in line 2

#10 - Estimated sport, personal use and subsistence. Estimate may be low.

#12 - Based on historic age composition of this stock, 50% of the return is typically 2-ocean fish and 50% 3-ocean. To estimate number

returning in 2007, CIAA assumed these percentages. Returning fish are from three stocking strategies - fry, fall fry and smolt. Otolith

samples from each stocking group have not been analyzed. Survival estimates are currently not available.

#16C - 300 of the fish harvested for cost recovery were donated. These fish are included on Line 1 and 16A

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

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

# SCHEDULE C- 5

## HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

**Trail Lakes Hatchery**

Species:	Sockeye Salmon
Location of harvest/return:	Big Lake (Meadow Creek)

**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)	3,814	
3. Escapement for hatchery watershed (as required in permit)	19,000	
4. Jacks		
5. Other <sup>1</sup> (annotate in comments section)	(1,300)	
6. Other <sup>1</sup> (annotate in comments section)		
7. Other <sup>1</sup> (annotate in comments section)		
<b>8. Total return to hatchery</b>		<b>21,514</b>

**Common Property Harvest**

9. Commercial		
A. Troll		
B. Gillnet	14,000	
C. Seine		
D. Other (annotate in comments section)		
<b>Total commercial</b>		<b>14,000</b>

10. Non-commercial		
A. Sport	100	
B. Personal Use		
C. Subsistence		
D. Other (annotate in comments section)		
<b>Total non-commercial</b>		<b>100</b>

<b>11. Total Return (sum 8,9,10)</b>		<b>35,614</b>
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	BY	Total # returning in 2007	Cumulative Survival	
12. Estimated ocean survival by BY 2	2003	25,000	0.05	%
	2002	11,000	0.08	%
				%
				%
				%

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

**16. Disposition of Hatchery Escapement**

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

		# fish	lbs. roe
B. Roe recovery		-	

		# Disposed	# Donated	# Sold
C. Carcasses	Spawners		2,600	
	Roe recovery (during eggtake)			
	Roe recovery (non-eggtake)			
	Other (annotate in comments)			
	total number of fish	-	2,600	-
	total pounds		NA	

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 67% of the returning fish are of hatchery origin.**

**Reported**

**values have been adjusted accordingly. The allocation of returning fish between broodyears and source**

**(hatchery vs. wild) are preliminary and should not be used or cited.**

#5 - Nonhatchery fish included in line 2

#10 - Estimated sport, personal use and subsistence. Estimate may be low.

#12 - Based on historic age composition of this stock, 70% of the return is typically 2-ocean fish and 30% 3-ocean. To estimate number

returning in 2007, CIAA assumed these percentages.

Broodyear 2002 is complete

#16C - Fish size information collected by ADF&G. Information currently not available. All broodstock were donated to dog mushers

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

<sup>2</sup>. **Estimated ocean survival.** Provide method used in estimation.



# SCHEDULE C- 6

## HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

**Trail Lakes  
Hatchery**

Species:	Sockeye Salmon
Location of harvest/return:	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)	4,520	
3. Escapement for hatchery watershed (as required in permit)	10,000	
4. Jacks		
5. Other <sup>1</sup> (annotate in comments section)	(1,900)	
6. Other <sup>1</sup> (annotate in comments section)		
7. Other <sup>1</sup> (annotate in comments section)		
<b>8. Total return to hatchery</b>		<b>12,620</b>

**Common Property Harvest**

9. Commercial		
A. Troll		
B. Gillnet	NA	
C. Seine		
D. Other (annotate in comments section)		
<b>Total commercial</b>		<b>-</b>
10. Non-commercial		
A. Sport	NA	
B. Personal Use	NA	
C. Subsistence		
D. Other (annotate in comments section)	NA	
<b>Total non-commercial</b>		<b>-</b>
<b>11. Total Return (sum 8,9,10)</b>		<b>12,620</b>

12. Estimated ocean survival by BY 2	BY	Total # returning in 2007	Cumulative Survival	
		2003	NA	
	2002	NA		%
				%
				%
				%

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

**16. Disposition of Hatchery Escapement**

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

		# fish	lbs. roe
B. Roe recovery		-	

		# Disposed	# Donated	# Sold
C. Carcasses	Spawners	2,600		
	Roe recovery (during eggtake)			
	Roe recovery (non-eggtake)			
	Other (annotate in comments)		100	
	total number of fish	2,600	100	-
	total pounds	NA	NA	

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 57% of the returning fish are of hatchery origin.**

**Reported**

**values have been adjusted accordingly. The allocation of returning fish between broodyears and source**

**(hatchery vs. wild) are preliminary and should not be used or cited.**

#5 - Nonhatchery fish included in line 2

#9B & 10D - Estimates provided by ADF&G not available.

#12 - Based on historic age composition of this stock, 85% of the return is typically 2-ocean fish and 15% 3-ocean. To estimate number

returning in 2007, CIAA assumed these percentages.

#16C - Fish weight information is no longer collected and is not available. Fish sacrificed for otolith collection donated

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

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

# SCHEDULE C- 7

## HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

**Trail Lakes  
Hatchery**

Species:	Sockeye Salmon
Location of harvest/return:	Tustumena 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)	135,000	
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 return to hatchery</b>		<b>135,000</b>

**Common Property Harvest**

9. Commercial		
A. Troll		
B. Gillnet	400,000	
C. Seine		
D. Other (annotate in comments section)		
<b>Total commercial</b>		<b>400,000</b>

10. Non-commercial		
A. Sport	NA	
B. Personal Use	NA	
C. Subsistence	NA	
D. Other (annotate in comments section)		
<b>Total non-commercial</b>		<b>-</b>

<b>11. Total Return (sum 8,9,10)</b>		<b>535,000</b>
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	BY	Total # returning in 2007	Cumulative Survival	
12. Estimated ocean survival by BY 2				%
				%
				%
				%
				%

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

**16. Disposition of Hatchery Escapement**

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

	# fish	lbs. roe
B. Roe recovery	-	

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

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 40% of the returning fish are of hatchery origin.**

**Reported**

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**values have been adjusted accordingly. The allocation of returning fish between broodyears and source**

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**(hatchery vs. wild) are preliminary and should not be used or cited.**

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#10D - Estimated sport, personal use and subsistence. Estimate provided by ADF&G not available.

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#12 - Allocated return based on age composition and hatchery contribution. Detailed age composition data and hatchery contribution

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data by broodyear has not been analyzed. Survival estimates are currently not available.

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

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

# SCHEDULE C- 8

## HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

**Trail Lakes Hatchery**

Species:	Coho Salmon (Fry, Smolt)
Location of harvest/return:	Bear Lake (Resurrection Bay)

**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)	417	
3. Escapement for hatchery watershed (as required in permit)	400	
4. Jacks		
5. Other <sup>1</sup> (annotate in comments section)	(50)	
6. Other <sup>1</sup> (annotate in comments section)	200	
7. Other <sup>1</sup> (annotate in comments section)		
<b>8. Total return to hatchery</b>		<b>967</b>

**Common Property Harvest**

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

10. Non-commercial		
A. Sport	NA	
B. Personal Use		
C. Subsistence		
D. Other (annotate in comments section)	NA	
<b>Total non-commercial</b>		<b>-</b>

<b>11. Total Return (sum 8,9,10)</b>		<b>967</b>
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	BY	Total # returning in 2007	Cumulative Survival	
12. Estimated ocean survival by BY 2				%
				%
				%
				%
				%

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

**16. Disposition of Hatchery Escapement**

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

		# fish	lbs. roe
B. Roe recovery		-	

		# Disposed	# Donated	# Sold
C. Carcasses	Spawners		400	
	Roe recovery (during eggtake)			
	Roe recovery (non-eggtake)			
	Other (annotate in comments)			
	total number of fish	-	400	-
	total pounds		NA	



**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 88% of the returning fish are of hatchery origin.**

**Reported**

**values have been adjusted accordingly. The allocation of returning fish between broodyears and source**

**(hatchery vs. wild) are preliminary and should not be used or cited.**

#5 - Nonhatchery fish included in line 2

#6 - Broodstock collected by ADF&G

#10D - Estimated sport, personal use and subsistence. Estimate provided by ADF&G not available.

#12 - Allocated return based on age composition and hatchery contribution. Returning fish are from two stocking strategies - fry and smolt.

Detailed age composition data and hatchery contribution data by broodyear has not been analyzed. Survival estimates are not available.

#16C - All broodstock were donated.

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

<sup>2</sup>. **Estimated ocean survival.** Provide method used in estimation.

# SCHEDULE C- 9

## HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

**Trail Lakes  
Hatchery**

Species:	Coho Salmon
Location of harvest/return:	Homer Spit

**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)		
<b>8. Total return to hatchery</b>		-

**Common Property Harvest**

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

10. Non-commercial		
A. Sport	NA	
B. Personal Use		
C. Subsistence		
D. Other (annotate in comments section)	NA	
<b>Total non-commercial</b>		-

<b>11. Total Return (sum 8,9,10)</b>		-
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	BY	Total # returning in 2007	Cumulative Survival	
12. Estimated ocean survival by BY 2				%
				%
				%
				%
				%

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

**16. Disposition of Hatchery Escapement**

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

	# fish	lbs. roe
B Roe recovery	-	

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

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 100% of the returning fish are of hatchery origin. The**

**allocation of returning fish between broodyears are preliminary and should not be used or cited.**

#10D - Estimated sport, personal use and subsistence. Estimate provided by ADF&G not available.

#12 - Allocated return based on assumed 1.1 age composition and 100% hatchery. Survival estimates are not available.

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

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

# SCHEDULE C- 10

## HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

**Trail Lakes Hatchery**

Species: Coho Salmon  
 Location of harvest/return: Lowell Falls (Resurrection Bay)

**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)	NA	
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 return to hatchery</b>		-

**Common Property Harvest**

9. Commercial		
A. Troll		
B. Gillnet		
C. Seine	-	
D. Other (annotate in comments section)		
<b>Total commercial</b>		-
10. Non-commercial		
A. Sport	NA	
B. Personal Use		
C. Subsistence		
D. Other (annotate in comments section)	NA	
<b>Total non-commercial</b>		-
<b>11. Total Return (sum 8,9,10)</b>		-

	BY	Total # returning in 2007	Cumulative Survival	
12. Estimated ocean survival by BY 2				%
				%
				%
				%
				%

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

**16. Disposition of Hatchery Escapement**

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

	# fish	lbs. roe
B. Roe recovery	-	

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

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - This was a one-time release. Fish were released in conjunction with a**

**ADF&G coho release. CIAA has no information on the return. The allocation of returning fish between**

**broodyears and source (hatchery vs. wild) are preliminary and should not be used or cited.**

#10D - Estimated sport, personal use and subsistence. Estimate provided by ADF&G not available.

#12 - Allocated return based on assumed 1.1 age composition and 100% hatchery. Survival estimates are not available.

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

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

# SCHEDULE C- 11

## HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

**Trail Lakes Hatchery**

Species:	Coho Salmon
Location of harvest/return:	Seldovia

**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)		
<b>8. Total return to hatchery</b>		-

**Common Property Harvest**

9. Commercial		
A. Troll		
B. Gillnet	48	
C. Seine		
D. Other (annotate in comments section)		
<b>Total commercial</b>		48
10. Non-commercial		
A. Sport	NA	
B. Personal Use	NA	
C. Subsistence	NA	
D. Other (annotate in comments section)	NA	
<b>Total non-commercial</b>		-
<b>11. Total Return (sum 8,9,10)</b>		48

	BY	Total # returning in 2007	Cumulative Survival	
12. Estimated ocean survival by BY 2				%
				%
				%
				%
				%

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

**16. Disposition of Hatchery Escapement**

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

	# fish	lbs. roe
B. Roe recovery	-	

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

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 100% of the returning fish are of hatchery origin. The**

**allocation of returning fish between broodyears are preliminary and should not be used or cited.**

#10D - Estimated sport, personal use and subsistence. Estimate provided by ADF&G not available.

#12 - Allocated return based on assumed 1.1 age composition and 100% hatchery. Survival estimates are not available.

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

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

**SCHEDULE D**  
**PROJECTED RETURNS FOR 2008**

Species	Release Site	Total number of fish expected	Range in expected return		Hatchery Contribution	
			minimum	maximum	Estimated percent	Estimated Number
Sockeye	Bear Lk.	107,000	No estimate	No estimate	90%	96,300
	Big Lk.	36,000	No estimate	No estimate	67%	24,120
	English Bay Lks.	No estimate - see PGH Annual Report				
	Hidden Lake	53,000	No estimate	No estimate	62%	32,860
	Tutka Bay Lagoon	22,000	No estimate	No estimate	100%	22,000
	Tustumena Lk.	1,100,000	No estimate	No estimate	<33%	<363,000
	Leisure/Hazel	130,000	No estimate	No estimate	100%	130,000
	Kirschner	27,000	No estimate	No estimate	100%	27,000
Coho	Bear Lk.(Fry)	3,300	No estimate	No estimate	88%	2,904
	Bear Ck. (Smolt)	9,500	No estimate	No estimate	100%	9,500
	Homer Spit	4,000	No estimate	No estimate	100%	4,000
	Seldovia	3,900	No estimate	No estimate	100%	3,900



# SCHEDULE F-1

## UPDATED 2006 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete this schedule for each special harvest area and species of fish with updated numbers from last year's annual report.

**If there are no changes to the data, write in "no changes from 2006 AR" at the bottom of the form.**

<b>Species:</b>	Sockeye Salmon	<b>Trail Lakes Hatchery</b>
<b>Location of harvest/return:</b>	Leisure/Hazel Lakes	

### Hatchery Escapement

1. Cost recovery fish (line 16A & 16B) traditional harvest and roe recovery fish	23,282
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)	820
6. Other <sup>1</sup> (annotate in comments section)	
7. Other <sup>1</sup> (annotate in comments section)	
<b>8. Total return to hatchery</b>	<b>24,102</b>

### Common Property Harvest

9. Commercial	
A. Troll	
B. Gillnet	
C. Seine	75,303
D. Other (annotate in comments section)	
<b>Total commercial</b>	<b>75,303</b>

10. Non-commercial	
A. Sport	5,550
B. Personal Use	
C. Subsistence	
D. Other (annotate in comments section)	
<b>Total non-commercial</b>	<b>5,550</b>

<b>11. Total Return (sum 8,9,10)</b>	<b>104,955</b>
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	BY	Total # returning in 2006	Cumulative Survival	
12. Estimated ocean survival by BY <sup>2</sup>	<b>2002</b>	<b>84,000</b>	<b>2.22</b>	%
	<b>2001</b>	<b>21,000</b>	<b>2.44</b>	%
				%
				%
				%

13. Average size of fish sold		<length-cm	<b>2.0</b>	wt-kg
14. Date(s) of harvest	6/29/06 thru 7/19/06			
15. Gear type or method used	Commercial Seine Boar			

### 16. Disposition of Hatchery Escapement

	# fish	lbs. fish
A Fish harvested/sold adults	23,282	101,943
jacks		
total	23,282	101,943

	# fish	lbs. roe
B Roe recovery	-	

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

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 100% of the returning fish are of hatchery origin. The allocation of returning fish between broodyears are preliminary and should not be used or cited.**

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#5 - When harvest operations were terminated, ADF&G estimated 820 fish remained below the barrier falls. These fish were

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not expected to spawn successfully.

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#10 - Estimated sport, personal use and subsistence. Estimate may be low.

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#12 - Age composition of the returning fish was not determined. However, based on historic age composition of the broodstock, 80% of the return is typically 2-ocean fish and 20% 3-ocean. To estimate survival rate,

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CIAA

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assumed these percentages. Broodyear 2001 is complete

---

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

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

## SCHEDULE F-2

### UPDATED 2006 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete this schedule for each special harvest area and species of fish with updated numbers from last year's annual report.

**If there are no changes to the data, write in "no changes from 2006 AR" at the bottom of the form.**

<b>Species:</b>	Sockeye Salmon
<b>Location of harvest/return:</b>	Kirschner Lake

**Trail Lakes  
Hatchery**

**Hatchery Escapement**

1. Cost recovery fish (line 16A & 16B) traditional harvest and roe recovery fish	26,308	
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)		
<b>8. Total return to hatchery</b>		26,308

**Common Property Harvest**

9. Commercial		
A. Troll		
B. Gillnet		
C. Seine	24,130	
D. Other (annotate in comments section)		
<b>Total commercial</b>		24,130
10. Non-commercial		
A. Sport		
B. Personal Use		
C. Subsistence		
D. Other (annotate in comments section)		
<b>Total non-commercial</b>		-
<b>11. Total Return (sum 8,9,10)</b>		<b>50,438</b>

	BY	Total # returning in 2006	Cumulative Survival	
12. Estimated ocean survival by BY <sup>2</sup>	2002	40,000	13.42	%
	2001	10,000	8.28	%
				%
				%
				%

13. Average size of fish sold	<length-cm	1.8	wt-kg
14. Date(s) of harvest	7/7/06 thru 7/14/06		
15. Gear type or method used	Commercial Seine Boat		

### 16. Disposition of Hatchery Escapement

	# fish	lbs. fish
A. Fish harvested/sold adults	26,308	106,925
jacks		
total	26,308	106,925

	# fish	lbs. roe
B. Roe recovery	-	

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

#### Comments:

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 100% of the returning fish are of hatchery origin. The allocation of returning fish between broodyears are preliminary and should not be used or cited.**

#12 - Age composition of the returning fish was not determined. However, based on historic age composition of the broodstock, 80% of the return is typically 2-ocean fish and 20% 3-ocean. To estimate survival rate, CIAA assumed these percentages. Broodyear 2001 is complete

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

<sup>2</sup> Estimated ocean survival. Provide method used in estimation.

# SCHEDULE F-3

## UPDATED 2006 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete this schedule for each special harvest area and species of fish with updated numbers from last year's annual report.

**If there are no changes to the data, write in "no changes from 2006 AR" at the bottom of the form.**

<b>Species:</b>	<b>Sockeye Salmon</b>
<b>Location of harvest/return:</b>	<b>Upper/Lower Paint Lakes</b>

**Trail Lakes  
Hatchery**

**Hatchery Escapement**

1. Cost recovery fish (line 16A & 16B) traditional harvest and roe recovery fish	-	
2. Adults captured for broodstock (Schedule A line 7) minus roe recovery fish (line 16B)		
3. Escapement for hatchery watershed (as required in permit)	-	
4. Jacks		
5. Other <sup>1</sup> (annotate in comments section)	-	
6. Other <sup>1</sup> (annotate in comments section)		
7. Other <sup>1</sup> (annotate in comments section)		
<b>8. Total return to hatchery</b>		-

**Common Property Harvest**

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

10. Non-commercial		
A. Sport		
B. Personal Use		
C. Subsistence		
D. Other (annotate in comments section)	-	
<b>Total non-commercial</b>		-

<b>11. Total Return (sum 8,9,10)</b>		-
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	BY	Total # returning in 2006	Cumulative Survival	
12. Estimated ocean survival by BY <sup>2</sup>	2001	0	<0.01	%
				%
				%
				%
				%

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

**16. Disposition of Hatchery Escapement**

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

		# fish	lbs. roe
B. Roe recovery		-	

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

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 100% of the returning fish are of hatchery origin. The allocation of returning fish between broodyears are preliminary and should not be used or cited.**

#12 - ADF&G observations below Paint R. Falls suggest no fish returned to this one-time experimental release in 2006.

Broodyear 2001 is complete.

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

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

# SCHEDULE F-4

## UPDATED 2006 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete this schedule for each special harvest area and species of fish with updated numbers from last year's annual report.

**If there are no changes to the data, write in "no changes from 2006 AR" at the bottom of the form.**

<b>Species:</b>	Sockeye Salmon (Fry, Fall, Smolt)	<b>Trail Lakes Hatchery</b>
<b>Location of harvest/return:</b>	Bear Lake (Resurrection Bay)	

**Hatchery Escapement**

1. Cost recovery fish (line 16A & 16B) traditional harvest and roe recovery fish	28,000	
2. Adults captured for broodstock (Schedule A line 7) minus roe recovery fish (line 16B)	4,060	
3. Escapement for hatchery watershed (as required in permit)	7,000	
4. Jacks		
5. Other <sup>1</sup> (annotate in comments section)	(800)	
6. Other <sup>1</sup> (annotate in comments section)	4	
7. Other <sup>1</sup> (annotate in comments section)		
<b>8. Total return to hatchery</b>		<b>38,264</b>

**Common Property Harvest**

9. Commercial		
A. Troll		
B. Gillnet		
C. Seine	22,000	
D. Other (annotate in comments section)		
<b>Total commercial</b>		<b>22,000</b>

10. Non-commercial		
A. Sport	4,000	
B. Personal Use		
C. Subsistence		
D. Other (annotate in comments section)		
<b>Total non-commercial</b>		<b>4,000</b>

<b>11. Total Return (sum 8,9,10)</b>		<b>64,264</b>
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	BY	Total # returning in 2006	Cumulative Survival	
12. Estimated ocean survival by BY <sup>2</sup>	<b>2002</b>	<b>32,000</b>		%
	<b>2001</b>	<b>32,000</b>		%
				%
				%
				%

13. Average size of fish sold		<length-cm	<b>2.3</b>	wt-kg
14. Date(s) of harvest	<b>6/15/06 thru 8/4/06</b>			
15. Gear type or method used	Commercial Seine Boat and Weir			

### 16. Disposition of Hatchery Escapement

	# fish	lbs. fish
A Fish harvested/sold adults	<b>28,000</b>	<b>143,000</b>
jacks		
total	28,000	143,000

	# fish	lbs. roe
B Roe recovery	-	

	# Disposed	# Donated	# Sold
C Carcasses			
Spawners	<b>3,300</b>		
Roe recovery (during eggtake)			
Roe recovery (non-eggtake)			
Other (annotate in comments)		<b>700</b>	
total number of fish	3,300	700	-
total pounds	<b>16,800</b>	<b>3,600</b>	

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 80% of the returning fish are of hatchery origin.**

**Reported**

---

**values have been adjusted accordingly. The allocation of returning fish between broodyears and source**

---

**(hatchery vs. wild) are preliminary and should not be used or cited.**

---

#5 - Nonhatchery fish included in line 2

#6 - When harvest operations were terminated, CIAA estimated 4 fish remained below the weir. These fish were not expected to spawn

---

successfully.

#10D - Estimated sport, personal use and subsistence. Estimate may be low.

#12 - Based on historic age composition of this stock, 50% of the return is typically 2-ocean fish and 50% 3-ocean. To estimate number

---

returning in 2006, CIAA assumed these percentages. Returning fish are from three stocking strategies - fry, fall fry and smolt. Otolith

---

samples from each stocking group have not been analyzed. Survival estimates are currently not available.

---

#16C - 700 of the fish harvested for cost recovery were donated. These fish are included on Lines 1 and 16A

---

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

<sup>2.</sup> **Estimated ocean survival.** Provide method used in estimation.

# SCHEDULE F-5

## UPDATED 2006 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete this schedule for each special harvest area and species of fish with updated numbers from last year's annual report.

**If there are no changes to the data, write in "no changes from 2006 AR" at the bottom of the form.**

<b>Species:</b>	Sockeye Salmon
<b>Location of harvest/return:</b>	Big Lake (Meadow Creek)

**Trail Lakes  
Hatchery**

**Hatchery Escapement**

1. Cost recovery fish (line 16A & 16B) traditional harvest and roe recovery fish	-	
2. Adults captured for broodstock (Schedule A line 7) minus roe recovery fish (line 16B)	5,850	
3. Escapement for hatchery watershed (as required in permit)	<b>18,000</b>	
4. Jacks		
5. Other <sup>1</sup> (annotate in comments section)	<b>(2,000)</b>	
6. Other <sup>1</sup> (annotate in comments section)		
7. Other <sup>1</sup> (annotate in comments section)		
<b>8. Total return to hatchery</b>		<b>21,850</b>

**Common Property Harvest**

9. Commercial		
A. Troll		
B. Gillnet	<b>2,000</b>	
C. Seine		
D. Other (annotate in comments section)		
<b>Total commercial</b>		<b>2,000</b>

10. Non-commercial		
A. Sport	<b>200</b>	
B. Personal Use		
C. Subsistence		
D. Other (annotate in comments section)		
<b>Total non-commercial</b>		<b>200</b>

<b>11. Total Return (sum 8,9,10)</b>		<b>24,050</b>
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	BY	Total # returning in 2006	Cumulative Survival	
12. Estimated ocean survival by BY <sup>2</sup>	2002	17,000	0.05	%
	2001	7,000	0.05	%
				%
				%
				%

13. Average size of fish sold	<input type="text"/>	<length-cm	<input type="text"/>	wt-kg
14. Date(s) of harvest	<input type="text"/>			
15. Gear type or method used	<input type="text"/>			

**16. Disposition of Hatchery Escapement**

		# fish	lbs. fish
A. Fish harvested/sold	adults	<input type="text"/>	<input type="text"/>
	jacks	<input type="text"/>	<input type="text"/>
	total	-	-

		# fish	lbs. roe
B. Roe recovery		-	<input type="text"/>

		# Disposed	# Donated	# Sold
C. Carcasses	Spawners	<input type="text"/>	3,800	<input type="text"/>
	Roe recovery (during eggtake)	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Roe recovery (non-eggtake)	<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	-	3,800	-
	total pounds	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 67% of the returning fish are of hatchery origin.**

**Reported**

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**values have been adjusted accordingly. The allocation of returning fish between broodyears and source**

---

**(hatchery vs. wild) are preliminary and should not be used or cited.**

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#5 - Nonhatchery fish included in line 2

---

#10D - Estimated sport, personal use and subsistence.

---

#12 - Based on historic age composition of this stock, 70% of the return is typically 2-ocean fish and 30% 3-ocean. To estimate number

---

returning in 2006, CIAA assumed these percentages.

---

Broodyear 2001 is complete

---

#16C - Fish size information collected by ADF&G. Information currently not available. All broodstock were donated to dog mushers

---

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

<sup>2</sup>. **Estimated ocean survival.** Provide method used in estimation.

# SCHEDULE F-6

## UPDATED 2006 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete this schedule for each special harvest area and species of fish with updated numbers from last year's annual report.

**If there are no changes to the data, write in "no changes from 2006 AR" at the bottom of the form.**

<b>Species:</b>	Sockeye Salmon	<b>Trail Lakes Hatchery</b>
<b>Location of harvest/return:</b>	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)	4,690	
3. Escapement for hatchery watershed (as required in permit)	<b>16,000</b>	
4. Jacks		
5. Other <sup>1</sup> (annotate in comments section)	<b>(2,500)</b>	
6. Other <sup>1</sup> (annotate in comments section)		
7. Other <sup>1</sup> (annotate in comments section)		
<b>8. Total return to hatchery</b>		<b>18,190</b>

**Common Property Harvest**

9. Commercial		
A. Troll		
B. Gillnet	<b>10,000</b>	
C. Seine		
D. Other (annotate in comments section)		
<b>Total commercial</b>		<b>10,000</b>

10. Non-commercial		
A. Sport	<b>2,000</b>	
B. Personal Use	<b>2,000</b>	
C. Subsistence		
D. Other (annotate in comments section)		
<b>Total non-commercial</b>		<b>4,000</b>

<b>11. Total Return (sum 8,9,10)</b>		<b>32,190</b>
--------------------------------------	--	---------------

	BY	Total # returning in 2006	Cumulative Survival	
12. Estimated ocean survival by BY <sup>2</sup>	<b>2002</b>	<b>27,000</b>	<b>4.29</b>	%
	<b>2001</b>	<b>5,000</b>	<b>3.57</b>	%
				%
				%
				%

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

**16. Disposition of Hatchery Escapement**

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

	# fish	lbs. roe
B. Roe recovery	-	

		# Disposed	# Donated	# Sold
C. Carcasses	Spawners	<b>2,200</b>		
	Roe recovery (during eggtake)			
	Roe recovery (non-eggtake)			
	Other (annotate in comments)		100	
	total number of fish	2,200	100	-
	total pounds			

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 47% of the returning fish are of hatchery origin. Reported values have been adjusted accordingly. The allocation of returning fish between broodyears and source (hatchery vs. wild) are preliminary and should not be used or cited.**

#5 - Nonhatchery fish included in line 2

#12 - Based on historic age composition of this stock, 85% of the return is typically 2-ocean fish and 15% 3-ocean. To estimate number

returning in 2006, CIAA assumed these percentages.

Broodyear 2001 is complete

#16C - Fish weight information is no longer collected and is not available. Fish sacrificed for otolith collection donated

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



# SCHEDULE F-7

## UPDATED 2006 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete this schedule for each special harvest area and species of fish with updated numbers from last year's annual report.

**If there are no changes to the data, write in "no changes from 2006 AR" at the bottom of the form.**

<b>Species:</b>	Sockeye
	Salmon
<b>Location of harvest/return:</b>	Tustumena Lake

**Trail Lakes Hatchery**

**Hatchery Escapement**

1. Cost recovery fish (line 16A & 16B) traditional harvest and roe recovery fish	-	
2. Adults captured for broodstock (Schedule A line 7) minus roe recovery fish (line 16B)		
3. Escapement for hatchery watershed (as required in permit)	104,000	
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 return to hatchery</b>		104,000

**Common Property Harvest**

9. Commercial		
A. Troll		
B. Gillnet	249,000	
C. Seine		
D. Other (annotate in comments section)		
<b>Total commercial</b>		249,000

10. Non-commercial		
A. Sport	2,000	
B. Personal Use	24,000	
C. Subsistence		
D. Other (annotate in comments section)		
<b>Total non-commercial</b>		26,000

<b>11. Total Return (sum 8,9,10)</b>		<b>379,000</b>
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	BY	Total # returning in 2006	Cumulative Survival	
12. Estimated ocean survival by BY <sup>2</sup>				%
				%
				%
				%
				%

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

### 16. Disposition of Hatchery Escapement

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

		# fish	lbs. roe
B.	Roe recovery	-	

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

#### Comments:

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 30% of the returning fish are of hatchery origin. Reported values have been adjusted accordingly. The allocation of returning fish between broodyears and source (hatchery vs. wild) are preliminary and should not be used or cited.**

#10D - Estimated sport, personal use and subsistence. Estimate provided by ADF&G.

#12 - Allocated return based on age composition and hatchery contribution. Detailed age composition data and hatchery contribution

data by broodyear has not been analyzed. Survival estimates are currently not available.

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

<sup>2</sup>. Estimated ocean survival. Provide method used in estimation.

# SCHEDULE F-8

## UPDATED 2006 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete this schedule for each special harvest area and species of fish with updated numbers from last year's annual report.

**If there are no changes to the data, write in "no changes from 2006 AR" at the bottom of the form.**

**Species:**  
**Location of harvest/return:**

Coho Salmon (Fry, Smolt)
Bear Lake (Resurrection Bay)

**Trail Lakes Hatchery**

**Hatchery Escapement**

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

<b>600</b>	
604	
<b>500</b>	
<b>(100)</b>	
<b>300</b>	
	<b>1,904</b>

**Common Property Harvest**

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

-	
	<b>-</b>

**Total commercial**

10. Non-commercial
  - A. Sport
  - B. Personal Use
  - C. Subsistence
  - D. Other (annotate in comments section)

<b>NA</b>	
	<b>-</b>

**Total non-commercial**

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

	<b>1,904</b>
--	--------------

	BY	Total # returning in 2006	Cumulative Survival	
12. Estimated ocean survival by BY <sup>2</sup>				%
				%
				%
				%
				%

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

**16. Disposition of Hatchery Escapement**

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

		# fish	lbs. roe
B. Roe recovery		-	

		# Disposed	# Donated	# Sold
C. Carcasses	Spawners		400	
	Roe recovery (during eggtake)			
	Roe recovery (non-eggtake)			
	Other (annotate in comments)		600	
	total number of fish	-	1,000	-
	total pounds			

**Comments:**

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 88% of the returning fish are of hatchery origin.**

**Reported**

---

**values have been adjusted accordingly. The allocation of returning fish between broodyears and source**

---

**(hatchery vs. wild) are preliminary and should not be used or cited.**

---

#5 - Nonhatchery fish included in line

2

---

#6 - Broodstock collected by ADF&G

---

#10D - Estimated sport, personal use and subsistence. Estimate provided by ADF&G not available.

---

#12 - Allocated return based on age composition and hatchery contribution. Returning fish are from two stocking strategies - fry and smolt.

---

Detailed age composition data and hatchery contribution data by broodyear has not been analyzed. Survival estimates not available.

---

#16C - All broodstock and fish harvested for cost recovery were donated.

---

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

<sup>2</sup>. **Estimated ocean survival.** Provide method used in estimation.

# SCHEDULE F-9

## UPDATED 2006 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete this schedule for each special harvest area and species of fish with updated numbers from last year's annual report.

**If there are no changes to the data, write in "no changes from 2006 AR" at the bottom of the form.**

**Species:**

Coho Salmon

**Trail Lakes Hatchery**

**Location of harvest/return:**

Homer Spit

**Hatchery Escapement**

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

-
-
-
-

**8. Total return to hatchery**

**Common Property Harvest**

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

-
-

**Total commercial**

- 10. Non-commercial
  - A. Sport
  - B. Personal Use
  - C. Subsistence
  - D. Other (annotate in comments section)

NA
-

**Total non-commercial**

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

-
---

	BY	Total # returning in 2006	Cumulative Survival	
12. Estimated ocean survival by BY <sup>2</sup>				%
				%
				%
				%
				%

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

### 16. Disposition of Hatchery Escapement

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

		# fish	lbs. roe
B.	Roe recovery	-	

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

#### Comments:

**#1, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 16 - CIAA estimates 100% of the returning fish are of hatchery origin. The allocation of returning fish between broodyears are preliminary and should not be used or cited.**

#10D - Estimated sport, personal use and subsistence. Estimate provided by ADF&G not available.

#12 - Allocated return based on assumed 1.1 age composition and 100% hatchery. Survival estimates are not available.

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

<sup>2</sup>. **Estimated ocean survival.** Provide method used in estimation.