

ANNUAL REPORT SALMON HATCHERY

Year Ended December 15, 2004

Hatchery name/Location
Permit holder name/Address

Trail Lakes Hatchery
Cook Inlet Aquaculture Association
40610 Kalifornsky Beach Road
Kenai, AK 99611

Person to contact
regarding this report

Gary L. Fandrei	name
(907)-283-5761	phone

DECLARATION AND SIGNATURE

I declare that the information given in this annual report is, to my knowledge, true, correct and complete.

Gary L. Fandrei

Name of Legal Representative

12/29/2004

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 NOW 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

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

1. Species	Sockeye Salmon			Trail Lakes Hatchery		
2. Donor stream (name/number):	Bear Lake (Seward) 23130-10080-3029-4010					
3. Adults used for broodstock	1,866	females	1,859	males	jacks	3,725
4. Average length and weight of adults used for broodstock	total					
females>		cm		kg		
males>		cm		kg		
5. Average fecundity (eggs/female):	3,034					
6. Eggtake dates:	7/26-9/14					
7. Number of green eggs taken:	5,661,000					
8. Number placed in hatchery ¹	5,661,000					
9. Number surviving to eyed	4,989,000		88.13%	% survival ²		
10. Describe procedures used for egg takes and evaluation of in-hatchery survivals:						
#10. 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 weight.						

SCHEDULE A-2

ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

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

1. Species	Sockeye Salmon			Trail Lakes Hatchery		
2. Donor stream (name/number):	Meadow Creek (Big Lake) 247-50-10530-2050					
3. Adults used for broodstock	1,124	females	568	males	jacks	1,692
4. Average length and weight of adults used for broodstock	total					
females>		cm		kg		
males>		cm		kg		
5. Average fecundity (eggs/female):	2,304					
6. Eggtake dates:	8/11 -8/28					
7. Number of green eggs taken:	2,590,000					
8. Number placed in hatchery ¹	2,590,000					
9. Number surviving to eyed	2,194,000		84.71%	% survival ²		
10. Describe procedures used for egg takes and evaluation of in-hatchery survivals:						
#3. Due to a shortage of males, only 568 were procured to be used as broodstock.						
#10. 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 weight.						

SCHEDULE A-3

ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

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

1. Species	Sockeye Salmon			Trail Lakes Hatchery		
2. Donor stream (name/number):	Hidden Lake (Kenai Peninsula) 244-30-10010-0010					
3. Adults used for broodstock	2,045	females	2,045	males	jacks	4,090
4. Average length and weight of adults used for broodstock	total					
females>		cm		kg		
males>		cm		kg		
5. Average fecundity (eggs/female):	2,663					
6. Eggtake dates:	9/16 - 10/2					
7. Number of green eggs taken:	5,445,000					
8. Number placed in hatchery ¹	5,445,000					
9. Number surviving to eyed	4,967,000		91.22%	% survival ²		

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

#10. 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 weight.

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

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

1. Species	Sockeye Salmon			Trail Lakes Hatchery		
2. Donor stream (name/number):	Nanwalek Lake 241-30-10500-?					
3. Adults used for broodstock	595	females	595	males	jacks	1,190
4. Average length and weight of adults used for broodstock	total					
females>		cm		kg		
males>		cm		kg		
5. Average fecundity (eggs/female):	2,625					
6. Eggtake dates:	8/23 - 9/9					
7. Number of green eggs taken:	1,562,000					
8. Number placed in hatchery ¹	1,562,000					
9. Number surviving to eyed	1,349,000		86.36%	% survival ²		

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

Note: This is not a CIAA project. CIAA is incubating the eggs for Port Graham. This project should be included in the Port Graham annual report.

#10. 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 weight.

SCHEDULE A-5

ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

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

1. Species	Coho Salmon			Trail Lakes Hatchery		
2. Donor stream (name/number):	Bear Lake (Seward) 23130-10080-3029-4010					
3. Adults used for broodstock	400	females	279	males	jacks	679
4. Average length and weight of adults used for broodstock	total					
females>		cm		kg		
males>		cm		kg		
5. Average fecundity (eggs/female):	4,183					
6. Eggtake dates:	10/15 - 10/25					
7. Number of green eggs taken:	1,673,000					
8. Number placed in hatchery ¹	1,673,000					
9. Number surviving to eyed	1,557,000		93.07%	% survival ²		

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

#10. 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 weight.



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

Trail Lakes Hatchery

Species: Sockeye Stock: Hidden Lake (Kenai) Brood year: 2003

A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs	893,000	100%	
2. Eyed eggs	823,000	92%	
3. Emergent fry	798,000	89%	656,000 released as emergent fry
4. Fed fry		0%	
5. Smolts	100,000	11%	

B. Release Information

Site	Release			Size		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Hidden Lake (Kenai)	646,000	5/13/2004	Em. Fry	0.087		62,800	2007, 2008
Total:	646,000						

C. Tagging/Marking

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

All fry were thermally marked

Hatch Code: 2,2,2H

Rbr: 1:1.2,2,2,+3.2

D. Other

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

None

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

Trail Lakes Hatchery

Species: **Sockeye**

Stock: **Bear Creek (Tustumena)**

Brood year: **2003**

A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs	10,936,000	100%	
2. Eyed eggs	9,600,000	88%	
3. Emergent fry	9,312,000	85%	
4. Fed fry	9,219,000	84%	
5. Smolts		0	

B. Release Information

Site	Release			Size		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Bear Ck (Tustumena)	6,006,000	5/30 - 6/1	fry	0.353		60,000	2007, 2008
Hazel Lake	351,000	6/2	fry	0.247		14,000	2007, 2008
Leisure Lake	2,002,000	5/31 - 6/2	fry	0.334		80,000	2007, 2008
Kirschner Lake	251,000	6/2	fry	0.328		25,000	2007, 2008
Total:	8,259,000						

C. Tagging/Marking

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

All fry released were thermally marked at the eyed egg stage

Hatch Code: 3H

Rbr: 1: 1.3

D. Other

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

None

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

Trail Lakes Hatchery

Species: Sockeye

Stock: Meadow Ck (Big Lake)

Brood year: 2003

A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs	7,001,000	100%	
2. Eyed eggs	5,837,000	83%	
3. Emergent fry	5,662,000	81%	
4. Fed fry	5,605,000	80%	
5. Smolts		0	

B. Release Information

Site	Release			Size		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Meadow Ck(Big Lk)	5,004,000	5/19 - 5/20	fry	0.462		200,000	2007, 2008
Total:	5,004,000						

C. Tagging/Marking

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

All released fry were thermally marked at the post-hatch stage

Hatch Code: H4

Rbr: 2:1.4

D. Other

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

None

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

Trail Lakes Hatchery

Species: Coho

Stock: Bear Creek (Seward)

Brood year: 2003

A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs	1,193,000	100%	
2. Eyed eggs	1,094,000	92%	
3. Emergent fry	1,061,000	89%	
4. Fed fry	1,050,000	88%	406,000 fry released in 2004 (see section B)
5. Smolts	500,000	42%	for release in 2005

B. Release Information

Site	Release			Size		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Bear Lake (Seward)	406,000	6/23	fry	1.07		3,800	2007
Total:	406,000						

C. Tagging/Marking

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

All released fish were thremally marked at the eyed egg stage.

Hatch Code: 3,3H

Rbr: 1:1.3,2.3

D. Other

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

Please see ADF&G Fish Pathology Section Accession Nos. 2004-0080, 2005-0003

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

Trail Lakes Hatchery

Species: Coho Stock: Bear Creek (Seward) Brood year: 2002

A. Lifestage Information

	Actual number	% cum survival	Transfers- between hatcheries (annotate)
1. Green eggs	1,238,000	100%	
2. Eyed eggs	1,086,000	88%	
3. Emergent fry	1,064,000	86%	
4. Fed fry	1,053,000	85%	405,000 release as fry (see schedule B-6 in 2003 AR)
5. Smolts	590,000	48%	released as smolt 2004

B. Release Information

Site	Release			Size		Expected adult return	Year(s) of return
	Number	date	lifestage	gm/fish	mm/fish		
Bear Lake (Seward)	405,000	6/24 & 6/25/0	fry	1		3,800	2005
Bear Ck (Seward)	285,000	2/19-2/23	smolt	10.5		20,000	2005
Resurrection Bay	192,000	5/27	smolt	13.0		13,400	2005
Homer Spit	113,000	5/26	smolt	12.1		8,000	2005
Total:	995,000						

C. Tagging/Marking

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

All released fish were thermally marked

Smolt Released in 2004

Hatch Code 6,2H

Rbr: 1:1.6,2.2

Fry released in 2003: Hatch Code: 6H Rbr: 1:1.6

D. Other

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

None

SCHEDULE C-1 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

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

1. Number of fish harvested under Hatchery Harvest Permit	adults	12,888		
	jacks			
2. Hatchery broodstock				
3. Broodstock for hatchery watershed				
4. Jacks				
5. Excess fish (surplus to all other requirements) ¹				
6. Other: ¹	number	448		
explain> Below Barrier				
7. Total return to hatchery				13,336
8. Estimated contribution to common property fisheries				
A. Commercial				
1. Troll				
2. Gillnet				
3. Seine		21,724		
TOTAL				21,724
B. Sport				
C. Other:	number	650		
explain> Personal Use		4,900		
9. Total return(sum 7+8A, B, C)				40,610

	BY	Total # returning in 04	cumulative % survival	
10. Estimated ocean survival by BY ²			%	
			%	

11. Average size of fish sold <length-cm 2.4 wt-kg
 12. Date(s) of harvest 5/25/2004 to 7/15/2004 (Cost Recovery Harvest
 13. Gear type or method used Purse Seine

	A. # fish	B. Lbs (fish/roe)	/lb received	D. Total \$ received
14. Whole fish harvested/sold	12,888	68,160	0.44	\$ 29,990.40
15. Fish donated				
16. Carcasses sold				\$ -
17. Roe processed/sold				\$ -
18. Broodstock disposed				
19. Total dollars received (sum lines 14,16,17)				\$ 29,990.40
20. Total corporate revenue	sources All			\$ 1,614,760.00
21. Amount required to recover corporate costs				\$ 2,740,486.00
22. Total surplus or deficit at corporation(line 20-line 21)				\$ (1,125,726)

#6. These fish were left below the barrier falls and were unharvested by all user groups.
 #8 B. Sport Harvest figures provided by ADF&G are based on estimated 10 year average prior to 1997
 #8 C. Personal Use Harvest figures provided by ADF&G are based on state wide survey average from 1990-1995
 #10. Age composition and/or smolt migration data is unavailable, cannot estimate survival rates.
 #21. \$1,184,588 of this figure represents the sum deficit experienced at Tutka Bay Lagoon Hatchery from FY 2000 to FY 2004

¹. Provide explanation of any fish in this category. ². Provide explanation for method used in estimation.

SCHEDULE C-2 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

Species: Sockeye Salmon **Trail Lakes Hatchery**
Location of harvest/return Kirschner Lake

1. Number of fish harvested under Hatchery Harvest Permit	adults	16,098		
	jacks			
2. Hatchery broodstock				
3. Broodstock for hatchery watershed				
4. Jacks				
5. Excess fish (surplus to all other requirements) ¹				
6. Other: ¹	number	700		
explain> Below Barrier				
7. Total return to hatchery				16,798
8. Estimated contribution to common property fisheries				
A. Commercial				
1. Troll				
2. Gillnet				
3. Seine				
TOTAL				-
B. Sport				
C. Other: explain> 				
9. Total return(sum 7+8A, B, C)				16,798

	BY	Total # returning in 04	cumulative % survival	
10. Estimated ocean survival by BY ²			%	
			%	

11. Average size of fish sold <length-cm 1.9 wt-kg
 12. Date(s) of harvest 7/14/2004 to 7/24/2004 (Cost Recovery Harvest)
 13. Gear type or method used Purse Seine

	A. # fish	B. Lbs (fish/roe)	/lb received	D. Total \$ received
14. Whole fish harvested/sold	16,098	68,964	0.225	\$ 15,516.90
15. Fish donated				
16. Carcasses sold				\$ -
17. Roe processed/sold				\$ -
18. Broodstock disposed				
19. Total dollars received (sum lines 14,16,17)				\$ 15,516.90
20. Total corporate revenue	sources All			\$ 1,614,760.00
21. Amount required to recover corporate costs				\$ 2,740,486.00
22. Total surplus or deficit at corporation(line 20-line 21)				\$ (1,125,726)

#6. No estimate was made of the fish left below the barrier falls and unharvested by all user groups.
 #10. Age composition and/or smolt migration data is unavailable, cannot estimate survival rates.
 #21. \$1,184,588 of this figure represents the sum deficit experienced at Tutka Bay Lagoon Hatchery from FY 2000 to FY 2004

¹. Provide explanation of any fish in this category.

². Provide explanation for method used in estimation.

SCHEDULE C-3 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

Species: Sockeye Salmon **Trail Lakes Hatchery**
Location of harvest/return Bear Lake

1. Number of fish harvested under Hatchery Harvest Permit	adults		
	jacks		
2. Hatchery broodstock		3,862	
3. Broodstock for hatchery watershed		8,061	
4. Jacks			
5. Excess fish (surplus to all other requirements) ¹			
6. Other: ¹	number		
		explain> 	
7. Total return to hatchery			11,923

8. Estimated contribution to common property fisheries			
A. Commercial			
1. Troll			
2. Gillnet			
3. Seine		16,645	
TOTAL			16,645
B. Sport			
C. Other: explain> 			
9. Total return(sum 7+8A, B, C)			28,568

	BY	Total # returning in 04	cumulative % survival	
10. Estimated ocean survival by BY ²				%
				%

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

	A. # fish	B. Lbs (fish/roe)	/lb received	D. Total \$ received
14. Whole fish harvested/sold				\$ -
15. Fish donated				
16. Carcasses sold				\$ -
17. Roe processed/sold				\$ -
18. Broodstock disposed				
19. Total dollars received (sum lines 14,16,17)				\$ -
20. Total corporate revenue	sources	All		\$ 1,614,760.00
21. Amount required to recover corporate costs				\$ 2,740,486.00
22. Total surplus or deficit at corporation(line 20-line 21)				\$ (1,125,726)

#10. Survivals based on weir return and common property harvests for complete brood years only.
 #21. \$1,184,588 of this figure represents the sum deficit experienced at Tutka Bay Lagoon Hatchery from FY 2000 to FY 2004

¹. Provide explanation of any fish in this category.

². Provide explanation for method used in estimation.

SCHEDULE C-4 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

Species: Coho Salmon **Trail Lakes Hatchery**
Location of harvest/return: Bear Lake

1. Number of fish harvested under Hatchery Harvest Permit	adults	1,224		
	jacks			
2. Hatchery broodstock		838		
3. Broodstock for hatchery watershed		572		
4. Jacks				
5. Excess fish (surplus to all other requirements) ¹				
6. Other: ¹	number			
explain> <input style="width: 100px;" type="text"/>				
7. Total return to hatchery				2,634
8. Estimated contribution to common property fisheries				
A. Commercial				
1. Troll				
2. Gillnet				
3. Seine				
TOTAL				-
B. Sport		6,146		
C. Other:				
explain> <input style="width: 100px;" type="text"/>				
9. Total return(sum 7+8A, B, C)				8,780

	BY	Total # returning in 04	cumulative % survival	
10. Estimated ocean survival by BY ²			%	
			%	

11. Average size of fish sold <length-cm 3.0 wt-kg
 12. Date(s) of harvest
 13. Gear type or method used

	A. # fish	B. Lbs (fish/roe)	/lb received	D. Total \$ received
14. Whole fish harvested/sold				\$ -
15. Fish donated	2,062	14,434		
16. Carcasses sold				\$ -
17. Roe processed/sold				\$ -
18. Broodstock disposed				
19. Total dollars received (sum lines 14,16,17)				\$ -
20. Total corporate revenue sources		All		\$ 1,614,760.00
21. Amount required to recover corporate costs				\$ 2,740,486.00
22. Total surplus or deficit at corporation(line 20-line 21)				\$ (1,125,726)

#2. Broodstock used for ADF&G hatcheries comprise 159 of total
 #10. Age composition data is unavailable, cannot estimate survival rates.
 #18. All used broodstock were donated to area dog mushers and are included in #15.
 #21. \$1,184,588 of this figure represents the sum deficit experienced at Tutka Bay Lagoon Hatchery from FY 2000 to FY 2004

¹. Provide explanation of any fish in this category. ². Provide explanation for method used in estimation.

SCHEDULE C-5 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

Species: Sockeye Salmon **Trail Lakes Hatchery**
Location of harvest/return Hidden Lake

1. Number of fish harvested under Hatchery Harvest Permit		adults	957	
		jacks		
2. Hatchery broodstock			4,223	
3. Broodstock for hatchery watershed			13,949	
4. Jacks				
5. Excess fish (surplus to all other requirements) ¹				
6. Other: ¹	explain> 	number		
7. Total return to hatchery				19,129
8. Estimated contribution to common property fisheries				
A. Commercial				
1. Troll				
2. Gillnet			30,433	
3. Seine				
TOTAL				30,433
B. Sport			2,987	
C. Other:	explain> Personal Use		2,674	
9. Total return(sum 7+8A, B, C)				55,223

	BY	Total # returning in 04	cumulative % survival	
10. Estimated ocean survival by BY ²			%	
			%	

11. Average size of fish sold	ND	<length-cm	2.1	wt-kg
12. Date(s) of harvest	6/19/2004 to 8/24/2004 (Otolith Collection)			
13. Gear type or method used	Weir			

	A. # fish	B. Lbs (fish/roe)	/lb received	D. Total \$ received
14. Whole fish harvested/sold	599	2,739	0.44	\$ 1,205.2
15. Fish donated	358	1,647		
16. Carcasses sold				\$ -
17. Roe processed/sold				\$ -
18. Broodstock disposed	4,233			
19. Total dollars received (sum lines 14,16,17)				\$ 1,205
20. Total corporate revenue	sources All			\$ 1,614,760.00
21. Amount required to recover corporate costs				\$ 2,740,486.00
22. Total surplus or deficit at corporation(line 20-line 21)				\$ (1,125,726)

#10. Survivals based on weir return and common property harvests for complete brood years only.
#18. All used broodstock were returned to Hidden Lake.
#21. \$1,184,588 of this figure represents the sum deficit experienced at Tutka Bay Lagoon Hatchery from FY 2000 to FY 2004

¹. Provide explanation of any fish in this category.

². Provide explanation for method used in estimation.

SCHEDULE C-6 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

Species: Sockeye Salmon **Trail Lakes Hatchery**
Location of harvest/return Meadow Creek (Big Lake)

1. Number of fish harvested under Hatchery Harvest Permit	adults		
	jacks		
2. Hatchery broodstock		1,692	
3. Broodstock for hatchery watershed		18,107	
4. Jacks			
5. Excess fish (surplus to all other requirements) ¹			
6. Other: ¹	number		
explain> 			
7. Total return to hatchery			19,799
8. Estimated contribution to common property fisheries			
A. Commercial			
1. Troll			
2. Gillnet			
3. Seine		19,660	
TOTAL			19,660
B. Sport			
C. Other:			
explain> Sprot and PU		2,358	
9. Total return(sum 7+8A, B, C)			41,817

	BY	Total # returning in 04	cumulative % survival	
10. Estimated ocean survival by BY ²			%	
			%	

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

	A. # fish	B. Lbs (fish/roe)	/lb received	D. Total \$ received
14. Whole fish harvested/sold				\$ -
15. Fish donated	1,692			
16. Carcasses sold				\$ -
17. Roe processed/sold				\$ -
18. Broodstock disposed				
19. Total dollars received (sum lines 14,16,17)				\$ -
20. Total corporate revenue	sources	All		\$ 1,614,760.00
21. Amount required to recover corporate costs				\$ 2,740,486.00
22. Total surplus or deficit at corporation(line 20-line 21)				\$ (1,125,726)

#15. All broodstock were donated to area dog mushers.
#21. \$1,184,588 of this figure represents the sum deficit experienced at Tutka Bay Lagoon Hatchery from FY 2000 to FY 2004

¹ Provide explanation of any fish in this category. ² Provide explanation for method used in estimation.

SCHEDULE C-7 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

Complete a separate schedule for each project and species.

Species: Sockeye Salmon **Trail Lakes Hatchery**
Location of harvest/return Tustumena Lake

1. Number of fish harvested under Hatchery Harvest Permit	adults		
	jacks		
2. Hatchery broodstock			
3. Broodstock for hatchery watershed		574,831	
4. Jacks			
5. Excess fish (surplus to all other requirements) ¹			
6. Other: ¹	number		
explain> 			
7. Total return to hatchery			574,831
8. Estimated contribution to common property fisheries			
A. Commercial			
1. Troll			
2. Gillnet		1,021,228	
3. Seine			
TOTAL			1,021,228
B. Sport		11,000	
C. Other:		70,000	
explain> Personal Use			
9. Total return(sum 7+8A, B, C)			1,677,059

	BY	Total # returning in 04	cumulative % survival	
10. Estimated ocean survival by BY ²			%	
			%	

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

	A. # fish	B. Lbs (fish/roe)	/lb received	D. Total \$ received
14. Whole fish harvested/sold				\$ -
15. Fish donated				
16. Carcasses sold				\$ -
17. Roe processed/sold				\$ -
18. Broodstock disposed				
19. Total dollars received (sum lines 14,16,17)				\$ -
20. Total corporate revenue	sources	All		\$ 1,614,760.00
21. Amount required to recover corporate costs				\$ 2,740,486.00
22. Total surplus or deficit at corporation(line 20-line 21)				\$ (1,125,726)

Note: Operations at Tustumena Lake have been suspended.
#10. Age composition and/or smolt migration data is unavailable, cannot estimate survival rates.
#21. \$1,184,588 of this figure represents the sum deficit experienced at Tutka Bay Lagoon Hatchery from FY 2000 to FY 2004

¹ Provide explanation of any fish in this category. ² Provide explanation for method used in estimation.

SCHEDULE D
PROJECTED RETURNS FOR 2005

Species	Release Site	Total number of fish expected	Range in expected return	
			minimum	maximum
Sockeye (LCI)	Leisure/Hazel	113,500	No Estimate	No Estimate
Sockeye (LCI)	Kirschner Lakes	24,000	No Estimate	No Estimate
Sockeye (LCI)	Bear Lake	86,000	No Estimate	No Estimate
Sockeye (UCI)	Big Lake	No Estimate	No Estimate	No Estimate
Sockeye (UCI)	Hidden lakes	110,500	No Estimate	No Estimate
Sockeye (UCI)	Tustumena	1,264,000	No Estimate	No Estimate
Coho (LCI)	Bear Lake	23,000	No Estimate	No Estimate
Leisure/Hazel and Kirschner Lakes estimates based on fry stocking				
All other estimates based on smolt migrations				
CIAA estimates are derived from observed average survival rates and include all returning fish				