

**2023 ANNUAL REPORT
ALASKAN SALMON HATCHERY**

Year ending December 15, 2023

Hatchery name/Location	KITOI BAY
Permit holder name/Address	Lauren Deal

Person to contact	Lauren Deal	name
regarding this report	(299)234-9413	phone

Schedule A - Egg-take

ID	Brood Year	Species	Ancestral Stock	Donor Stock	Egg-take Green	Eggs Retained	Eggs Survived
1	2023	CHUM	STURGEON R	KITOI BAY H	27,813,026	27,813,026	22,463,673
2	2023	PINK	BIG KITOI CR	KITOI BAY H	218,091,555	218,091,555	205,967,724
3	2023	SOCKEYE	SALTERY LK 259-41	SALTERY LK 259-41		863,315	671,337
4	2023	COHO	LITTLE KITOI LK	KITOI BAY H	2,300,000	2,300,000	

Schedule B - Section A - Life Stage Information

ID	Brood Year	Species	Ancestral Stock	Donor Stock	Green	Eyed	Emg Fry	Fed Fry	Smolt
1	2022	CHUM	STURGEON R	KITOI BAY H	35,781,557	31,057,147	30,341,393	29,718,848	
2	2022	PINK	BIG KITOI CR	KITOI BAY H	213,986,683	200,016,365	196,082,446	191,750,551	
3	2022	SOCKEYE	SALTERY LK 259-41	SALTERY LK 259-41	774,416	707,842	454,426	327,500	
4	2021	SOCKEYE	SALTERY LK 259-41	SALTERY LK 259-41	745,395	665,414	634,512	454,895	453,880
5	2022	COHO	LITTLE KITOI LK	KITOI BAY H	2,386,957	2,006,479	1,937,111	1,937,111	
6	2021	COHO	LITTLE KITOI LK	KITOI BAY H	662,661	557,470	541,000	535,862	535,004

Schedule B - Section C - Release

ID	Release ID/Tag Code	Brood Year	Species	Ancestral Stock	Donor Stock	Site	Total Released
5	!01232KRAA06	2022	COHO	LITTLE KITOI LK	KITOI BAY H	CRESCENT LK 252-36 (B)	190,074
5	!01232KRAA07	2022	COHO	LITTLE KITOI LK	KITOI BAY H	RUTH LK 252-30 (B)	40,128
5	!01232KRAA08	2022	COHO	LITTLE KITOI LK	KITOI BAY H	JENNIFER LK 252-31 (B)	145,145
6	!01232KRAA03	2021	COHO	LITTLE KITOI LK	KITOI BAY H	KITOI BAY 252-31	535,004
4	!01234KRAA02	2021	SOCKEYE	SALTERY LK 259-41	SALTERY LK 259-41	OZINKIE BOAT HARBOR 259	50,000
4	!01234KRAA03	2021	SOCKEYE	SALTERY LK 259-41	SALTERY LK 259-41	LITTLE KITOI LK 252-31	403,880
1	!01235KRAA01	2022	CHUM	STURGEON R	KITOI BAY H	KITOI BAY 252-31	14,720,650
1	!01235KRAA02	2022	CHUM	STURGEON R	KITOI BAY H	KITOI BAY 252-31	14,998,198
2	!01236KRAA01	2022	PINK	BIG KITOI CR	KITOI BAY H	KITOI BAY 252-31	191,750,551

Schedule C - Return

ID	Species	Ancestral Stock	Donor Stock	Project	Cost Recovery	Comm Property	Total Return
1	CHUM	STURGEON R	KITOI BAY H	KITOI BAY	319	239,029	295,907
2	PINK	BIG KITOI CR	KITOI BAY H	KITOI BAY	1,130,318	8,961,948	11,391,078
3	SOCKEYE	SALTERY LK 259-41	SALTERY CR 103-25	KITOI BAY	209	43,359	43,834
4	COHO	LITTLE KITOI LK	KITOI BAY H	KITOI BAY	2,814	62,180	95,021

Schedule F - Return

ID	Species	Stock	Project	Cost Recovery	Comm Property	Total Return
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Schedule A-1

2023 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

KITOI BAY

Continued to 2024, B-1

- | | | | |
|--|---|---|---|
| 1. Species | CHUM | | |
| 2. Donor stock | KITOI BAY H | | |
| 3. Ancestral stock | STURGEON R | | |
| 4. Viable broodstock (spawned, eggs in incubators) | 18,095 | females | 23,558 |
| | | | males |
| | | | 41,653 total |
| 5. Inviabile broodstock (green/over-ripe/bad) | 1,604 | females | 516 |
| | | | 2,120 total |
| 6. Unspawned fish (roe recovery, excess males) | 6,735 | | |
| 7. Holding mortalities (raceway, pen mortalities) | 5,051 | | |
| 8. Adults sacrificed for broodstock (sum 4 thru 7) | 55,559 | | |
| 9. Average length and weight of adults used for broodstock | | | |
| | Females | mm | 1.95 kg |
| | Males | mm | 2.36 kg |
| 10. Average fecundity (eggs/female) | 1,537 | | <input type="checkbox"/> Override auto calculation |
| 11. Egg-take dates (first date) | 07/23/2023 | | |
| 12. Egg-take dates (last date) | 08/06/2023 | | |
| 13. Number of green eggs taken | 27,813,026 | | |

14-16. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Total Transfers, Morts, and Culls						

- | | | | |
|--|--|--|---|
| 17. Number of green eggs retained in hatchery | 27,813,026 | | |
| 18. Number remaining in hatchery at eyed stage | 22,463,673 | 80.767 | % survival <input type="checkbox"/> Override auto calculation |

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

Dry spawning method used. Eggs water hardened in 100ppm ovadine for one hour before loading into incubators. Line #13 is number of eggs once inventoried at egg pick and includes seeded eggs and mortality/discarded eggs. The estimated number of eggs was estimated by taking eggs/gram samples and weighing all egg buckets before activating the eggs. Survival of less than 90% resulted from a large number of blank eggs found at pick. Males may not have been viable when spawned, even if milt came out.

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Date Last Modified 11/20/2023 2:11:18 PM

Schedule A-2

2023 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

KITOI BAY

Continued to 2024, B-2

- | | | | | | |
|--|--------------|---------|--|-------|---------------|
| 1. Species | PINK | | | | |
| 2. Donor stock | KITOI BAY H | | | | |
| 3. Ancestral stock | BIG KITOI CR | | | | |
| 4. Viable broodstock (spawned, eggs in incubators) | 160,949 | females | 91,443 | males | 252,392 total |
| 5. In viable broodstock (green/over-ripe/bad) | 7,947 | females | 2,739 | males | 10,686 total |
| 6. Unspawned fish (roe recovery, excess males) | 62,100 | | | | |
| 7. Holding mortalities (raceway, pen mortalities) | 32,518 | | | | |
| 8. Adults sacrificed for broodstock (sum 4 thru 7) | 357,696 | | | | |
| 9. Average length and weight of adults used for broodstock | | | | | |
| | Females | | mm | | kg |
| | Males | | mm | | kg |
| 10. Average fecundity (eggs/female) | 1,355 | | <input type="checkbox"/> Override auto calculation | | |
| 11. Egg-take dates (first date) | 09/02/2023 | | | | |
| 12. Egg-take dates (last date) | 09/16/2023 | | | | |
| 13. Number of green eggs taken | 218,091,555 | | | | |

14-16. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Total Transfers, Morts, and Culls						

- | | | | | |
|--|-------------|--------|---|--|
| 17. Number of green eggs retained in hatchery | 218,091,555 | | | |
| 18. Number remaining in hatchery at eyed stage | 205,967,724 | 94.441 | % survival <input type="checkbox"/> Override auto calculation | |

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

Dry spawning method used. Eggs are rinsed with freshwater and loaded directly into incubators. No water hardening takes place. Line #13 is number of eggs once inventoried at egg pick and includes seeded eggs and mortality/discarded eggs. The estimated number of eggs at egg take was estimated by taking eggs/gram samples and weighing a portion of the loaded egg take buckets to get an average number of eggs per bucket. The average number of eggs per bucket was then multiplied by the number of buckets for each egg take shift.

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Schedule A-3

2023 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

KITOI BAY

Continued to

1. Species
2. Donor stock
3. Ancestral stock
4. Viable broodstock (spawned, eggs in incubators) females males total
5. Inviabile broodstock (green/over-ripe/bad) females males total
6. Unspawned fish (roe recovery, excess males)
7. Holding mortalities (raceway, pen mortalities)
8. Adults sacrificed for broodstock (sum 4 thru 7)
9. Average length and weight of adults used for broodstock
 - Females mm kg
 - Males mm kg
10. Average fecundity (eggs/female) Override auto calculation
11. Egg-take dates (first date)
12. Egg-take dates (last date)
13. Number of green eggs taken

14-16. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Transferred	9/23/2023	GREEN EGG	17A-0045	FROM	SALTERY LK 259-41	847,000

Total Transfers, Morts, and Culls

17. Number of green eggs retained in hatchery
18. Number remaining in hatchery at eyed stage % survival Override auto calculation
19. Describe procedures used for egg takes and evaluation of in-hatchery survivals:

Eggs collected at Saltery Lake by PCH and KBH staff during the PCH egg take. Eggs collected, fertilized, then transferred from Saltery Lake directly to KBH. All egg-take data reported in Schedule A-3 in the Pillar Creek Hatchery report. Actual green egg number determined at pick.

Entered By

Date Last Modified

Schedule A-4

2023 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

KITOI BAY

Continued to 2024, B-4

- 1. Species COHO
- 2. Donor stock KITOI BAY H
- 3. Ancestral stock LITTLE KITOI LK
- 4. Viable broodstock (spawned, eggs in incubators) 806 females 528 males 1,334 total
- 5. Inviabile broodstock (green/over-ripe/bad) 97 females 7 males 104 total
- 6. Unspawned fish (roe recovery, excess males) 2,511
- 7. Holding mortalities (raceway, pen mortalities) 1,346
- 8. Adults sacrificed for broodstock (sum 4 thru 7) 5,295
- 9. Average length and weight of adults used for broodstock
 - Females mm 2.18 kg
 - Males mm 2.13 kg
- 10. Average fecundity (eggs/female) 2,854 Override auto calculation
- 11. Egg-take dates (first date) 11/10/2023
- 12. Egg-take dates (last date) 11/16/2023
- 13. Number of green eggs taken 2,300,000

14-16. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Total Transfers, Morts, and Culls						

- 17. Number of green eggs retained in hatchery 2,300,000
- 18. Number remaining in hatchery at eyed stage % survival Override auto calculation
- 19. Describe procedures used for egg takes and evaluation of in-hatchery survivals:

Dry spawning method used. Two bucks used to fertilize three hens. Eggs water hardened in 100ppm ovadine for one hour before loading into incubators. Each hen's eggs are kept separate for single family tracking. The estimated number of eggs at egg take was 2,300,000

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Date Last Modified 11/22/2023 11:47:13 AM

Schedule B-1

2023 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species **CHUM** Donor Stock **KITOI BAY H** Brood Year **2022**
 Ancestral Stock **STURGEON R**
 Continued from **2022, A-1** to

A. Life Stage Information

	Acutal Number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green Eggs	35,781,557	100	
2. Eyed Eggs	31,057,147	86.80	
3. Emergent Fry	30,341,393	84.80	
4. Fed Fry	29,718,848	83.06	
5. Smolts			

B. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Total Transfers, Morts, and Culls						

C. Release Information

Release ID/ Tag Code	FTP	Ancestral Stock	Donor Stock	Site	Date Last Released	Life Stage	Total
I01235KRAA02		STURGEON R	KITOI BAY H	KITOI BAY 252-31	5/22/2023	FED FRY	14,998,198
I01235KRAA01		STURGEON R	KITOI BAY H	KITOI BAY 252-31	5/31/2023	FED FRY	14,720,650
Total Released							29,718,848

D. Other

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Untagged Release

Annual Report: 2023, SCHEDULE B-1

Release ID Code: 101235KRAA02

General Information

Project Leader:	DEAL	Species:	CHUM	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2022	Release Type:	PRODUCTION
Division/Section:		Adult Run:		Mark Type:	TM
Facility:	KITOI BAY	Release Group:	REGULAR	Thermal Mark ID:	KITOI22CHUMA
Donor Stock:	KITOI BAY H	FTP:	22A-0003	Hatch Code:	3N,3N,3H
Ancestral Stock:	STURGEON R			Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	DEAL	Release Stage:	FED FRY
Release Site:	KITOI BAY 252-31	Unmarked Counting Method:	WEIGHT DERIVED
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released
Weight (g):	1.08	Fork Length (mm):		
Began:	05/22/2023	Ended:	05/22/2023	14,998,198

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH (JE 1/4/24)

Untagged Release

Annual Report: 2023, SCHEDULE B-1

Release ID Code: 101235KRAA01

General Information

Project Leader:	DEAL	Species:	CHUM	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2022	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Thermal Mark ID:	KITOI22CHUM		
Donor Stock:	KITOI BAY H	Release Group:	LATE LARGE	Hatch Code:	3,1,3H
Ancestral Stock:	STURGEON R	FTP:	22A-0003	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	DEAL	Release Stage:	FED FRY
Release Site:	KITOI BAY 252-31	Unmarked Counting Method:	WEIGHT DERIVED
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released
Weight (g):	1.94	Fork Length (mm):		
Began:	05/31/2023	Ended:	05/31/2023	14,720,650

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH (JE 1/4/24)

Schedule B-2

2023 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species **PINK** Donor Stock **KITOI BAY H** Brood Year **2022**
 Ancestral Stock **BIG KITOI CR**
 Continued from **2022, A-2** to

A. Life Stage Information

	Acutal Number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green Eggs	213,986,683	100	
2. Eyed Eggs	200,016,365	93.47	
3. Emergent Fry	196,082,446	91.63	
4. Fed Fry	191,750,551	89.61	
5. Smolts			

B. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Total Transfers, Morts, and Culls						

C. Release Information

Release ID/ Tag Code	FTP	Ancestral Stock	Donor Stock	Site	Date Last Released	Life Stage	Total
101236KRAA01		BIG KITOI CR	KITOI BAY H	KITOI BAY 252-31	5/25/2023	FED FRY	191,750,551
Total Released							191,750,551

D. Other

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Untagged Release

Annual Report: 2023, SCHEDULE B-2

Release ID Code: 101236KRAA01

General Information

Project Leader:	DEAL	Species:	PINK	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2022	Release Type:	PRODUCTION
Division/Section:		Adult Run:		Mark Type:	TM
Facility:	KITOI BAY			Thermal Mark ID:	KITOI22PINK
Donor Stock:	KITOI BAY H	Release Group:	1	Hatch Code:	2,3H
Ancestral Stock:	BIG KITOI CR	FTP:	22A-0004	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	DEAL	Release Stage:	FED FRY
Release Site:	KITOI BAY 252-31	Unmarked Counting Method:	WEIGHT DERIVED
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released
Weight (g):	0.57	Fork Length (mm):		
Began:	05/25/2023	Ended:	05/25/2023	191,750,551

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH (JE 1/4/24)

Schedule B-3

2023 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species **SOCKEYE**

Donor Stock **SALTERY LK 259-41**

Brood Year **2022**

Ancestral Stock **SALTERY LK 259-41**

Continued from **2022, A-3** to **2024, B-5**

A. Life Stage Information

	Actual Number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green Eggs	774,416	100	
2. Eyed Eggs	707,842	91.40	
3. Emergent Fry	454,426	58.68	Significant incubator mortality due to coagulated yolk and subsequent IHNV outbreak (121,022 fish destroyed)
4. Fed Fry	327,500	42.29	Held for release in 2024
5. Smolts			

B. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Transferred	9/15/2022	GREEN EGG	17A-0045	FROM	SALTERY LK 259-41	775,000
Total Transfers, Morts, and Culls						775,000

C. Release Information

Release ID/Tag Code	FTP	Ancestral Stock	Donor Stock	Site	Date Last Released	Life Stage	Total
Total Released							

D. Other

Schedule B-4

2023 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species **SOCKEYE**

Donor Stock **SALTERY LK 259-41**

Brood Year **2021**

Ancestral Stock **SALTERY LK 259-41**

Continued from **2022, B-6** to

A. Life Stage Information

	Actual Number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green Eggs	745,395	100	
2. Eyed Eggs	665,414	89.27	
3. Emergent Fry	634,512	85.12	
4. Fed Fry	454,895	61.03	Held for release in 2023
5. Smolts	453,880	60.89	

B. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Total Transfers, Morts, and Culls						

C. Release Information

Release ID/ Tag Code	FTP	Ancestral Stock	Donor Stock	Site	Date Last Released	Life Stage	Total
I01234KRAA03		SALTERY LK 259-41	SALTERY LK 259-41	LITTLE KITOI LK 252-31	6/5/2023	SMOLT	403,880
I01234KRAA02		SALTERY LK 259-41	SALTERY LK 259-41	OUZINKIE BOAT HARBOR 259	6/13/2023	SMOLT	50,000
Total Released							453,880

D. Other

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Untagged Release

Annual Report: 2023, SCHEDULE B-4

Release ID Code: 101234KRAA03

General Information

Project Leader:	DEAL	Species:	SOCKEYE	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2021	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Thermal Mark ID:	KITOI21		
Donor Stock:	SALTERY LK 259-41	Release Group:	1	Hatch Code:	6,3H
Ancestral Stock:	SALTERY LK 259-41	FTP:	17A-0045(1)	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	DEAL	Release Stage:	SMOLT
Release Site:	LITTLE KITOI LK 252-31	Unmarked Counting Method:	WEIGHT DERIVED
Anadromous Stream #:	252-31-10030-0010	Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released
Weight (g):	16.53	Fork Length (mm):		
Began:	06/02/2023	Ended:	06/05/2023	403,880

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH (JE 1/24/24)

Untagged Release

Annual Report: 2023, SCHEDULE B-4

Release ID Code: 101234KRAA02

General Information

Project Leader:	DEAL	Species:	SOCKEYE	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2021	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Thermal Mark ID:	KITOI21		
Donor Stock:	SALTERY LK 259-41	Release Group:	OUZINKIE	Hatch Code:	6,3H
Ancestral Stock:	SALTERY LK 259-41	FTP:	16A-0038(1)	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	DEAL	Release Stage:	SMOLT
Release Site:	OUZINKIE BOAT HARBOR 259	Unmarked Counting Method:	WEIGHT DERIVED
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released
Weight (g):	15.4	Fork Length (mm):		
Began:	06/13/2023	Ended:	06/13/2023	50,000

Comments: 250 characters max.

CHNAGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH (JE 1/24/24)

Schedule B-5

2023 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species **COHO**

Donor Stock **KITOI BAY H**

Brood Year **2022**

Ancestral Stock **LITTLE KITOI LK**

Continued from **2022, A-4** to **2024, B-6**

A. Life Stage Information

	Actual Number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green Eggs	2,386,957	100	2,411,552 eggs estimated at eggtake. 2,386,957 eggs inventoried at egg pick.
2. Eyed Eggs	2,006,479	84.06	202,741 eggs culled for BKD (single family tacking) before egg pick
3. Emergent Fry	1,937,111	81.15	
4. Fed Fry	1,937,111	81.15	375,347 fish outstocked to remote lakes, 1,380,522 held for release in 2024.
5. Smolts			

B. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Culled	2/23/2023	EYED EGG			BKD - Bacterial Kidney Disease	202,741
Total Transfers, Morts, and Culls						-202,741

C. Release Information

Release ID/ Tag Code	FTP	Ancestral Stock	Donor Stock	Site	Date Last Released	Life Stage	Total
I01232KRAA06		LITTLE KITOI LK	KITOI BAY H	CRESCENT LK 252-36 (B)	8/11/2023	FINGERLING	190,074
I01232KRAA08		LITTLE KITOI LK	KITOI BAY H	JENNIFER LK 252-31 (B)	10/26/2023	FINGERLING	145,145
I01232KRAA07		LITTLE KITOI LK	KITOI BAY H	RUTH LK 252-30 (B)	7/26/2023	FINGERLING	40,128
Total Released							375,347

D. Other

Fish tested positive for Furunculosis 10/2/23. Medicated feed (Terramycin) arrived too late in the season to be effective. Will feed in the spring.

Untagged Release

Annual Report: 2023, SCHEDULE B-5

Release ID Code: 101232KRAA06

General Information

Project Leader:	DEAL	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2022	Release Type:	PRODUCTION
Division/Section:		Adult Run:		Mark Type:	TM
Facility:	KITOI BAY			Thermal Mark ID:	KITOI BAY 22
Donor Stock:	KITOI BAY H	Release Group:		Hatch Code:	3,2,2H
Ancestral Stock:	LITTLE KITOI LK	FTP:	18A-0024(1)	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	DEAL	Release Stage:	FINGERLING
Release Site:	CRESCENT LK 252-36 (B)	Unmarked Counting Method:	WEIGHT DERIVED
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released
Weight (g):	0.96	Fork Length (mm):		
Began:	07/26/2023	Ended:	08/11/2023	190,074

Comments: 250 characters max.

THREE AERIAL STOCKING EVENTS ON 7/26/23 WITH FISH AT 0.86GRAMS. TWO AERIAL STOCKING EVENTS ON 8/11/23 WITH FISH AT 1.06 GRAMS. CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH (JE 1/4/24)

Untagged Release

Annual Report: **2023, SCHEDULE B-5**

Release ID Code: **101232KRAA08**

General Information

Project Leader:	DEAL	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2022	Release Type:	PRODUCTION
Division/Section:		Adult Run:		Mark Type:	TM
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	KITOI BAY22
Donor Stock:	KITOI BAY H	FTP:	18A-0026(1)	Hatch Code:	3,2,2H
Ancestral Stock:	LITTLE KITOI LK	Experimental Class:			

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	DEAL	Release Stage:	FINGERLING
Release Site:	JENNIFER LK 252-31 (B)	Unmarked Counting Method:	WEIGHT DERIVED
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released
Weight (g):	0.86	Fork Length (mm):		
Began:	07/26/2023	Ended:	10/26/2023	145,145

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH (JE 1/4/24)

Untagged Release

Annual Report: 2023, SCHEDULE B-5

Release ID Code: 101232KRAA07

General Information

Project Leader:	DEAL	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2022	Release Type:	PRODUCTION
Division/Section:		Adult Run:		Mark Type:	TM
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	KITOI BAY 22
Donor Stock:	KITOI BAY H	FTP:	18A-0025(1)	Hatch Code:	3,2,2H
Ancestral Stock:	LITTLE KITOI LK	Experimental Class:			

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	DEAL	Release Stage:	FINGERLING
Release Site:	RUTH LK 252-30 (B)	Unmarked Counting Method:	WEIGHT DERIVED
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released
Weight (g):	0.86	Fork Length (mm):		
Began:	07/26/2023	Ended:	07/26/2023	40,128

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH (JE 1/4/24)

Schedule B-6

2023 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species **COHO** Donor Stock **KITOI BAY H** Brood Year **2021**
 Ancestral Stock **LITTLE KITOI LK**
 Continued from **2022, B-4** to

A. Life Stage Information

	Actual Number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green Eggs	662,661	100	
2. Eyed Eggs	557,470	84.13	
3. Emergent Fry	541,000	81.64	
4. Fed Fry	535,862	80.87	held for release as smolt 2023
5. Smolts	535,004	80.74	

B. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Total Transfers, Morts, and Culls						

C. Release Information

Release ID/ Tag Code	FTP	Ancestral Stock	Donor Stock	Site	Date Last Released	Life Stage	Total
101232KRAA03		LITTLE KITOI LK	KITOI BAY H	KITOI BAY 252-31	6/8/2023	SMOLT	535,004
Total Released							535,004

D. Other

--

Untagged Release

Annual Report: 2023, SCHEDULE B-6

Release ID Code: 101232KRAA03

General Information

Project Leader:	DEAL	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2021	Release Type:	PRODUCTION
Division/Section:		Adult Run:	FALL	Mark Type:	TM
Facility:	KITOI BAY	Thermal Mark ID:	KITOI BAY 21		
Donor Stock:	KITOI BAY H	Release Group:	1	Hatch Code:	3,4H
Ancestral Stock:	LITTLE KITOI LK	FTP:	18A-0022(1)	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	DEAL	Release Stage:	SMOLT
Release Site:	KITOI BAY 252-31	Unmarked Counting Method:	WEIGHT DERIVED
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released
Weight (g):	20.18	Fork Length (mm):		
Began:	06/08/2023	Ended:	06/08/2023	535,004

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH (JE 1/4/24)

Schedule C-1

2023 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

KITOI BAY

Species **CHUM**

Donor Stock **KITOI BAY H**

Project **KITOI BAY**

Ancestral Stock **STURGEON R**

A. Hatchery Escapement

1. Cost-recovery (line 12a & 12b): traditional harvest and roe-recovery fish	319
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	55,559
3. Escapement for hatchery watershed (as required in permit)	1,000
4. Jacks	
5. Other (annotate for each Other escapement return)	Other escapement Other escapement comment
6. Total hatchery escapement	56,878

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	
b. Gillnet	
c. Seine	239,029
d. Other (annotate for each Other commercial return)	Other commercial Other commercial comment
Total Commercial Harvest	239,029
8. Noncommercial Harvest	
a. Sport	
b. Personal Use	
c. Subsistence	
d. Other (annotate for each Other noncommercial return)	Other noncommercial Other noncommercial comment
Total Noncommercial Harvest	
9. Total Common Property Harvest (sum 7 and 8)	239,029
10. Total Return (sum 6 and 9)	295,907

11. Estimated ocean survival by brood year

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2017		0.66	Yes
2018	132,068		No
2019	151,847		No
2020	11,992		No

Total Ocean Survival align="right">**295,907**

Harvest Comments

12. Disposition of Hatchery Escapement

a. Traditional harvest fish		# fish sold	lbs fish		
	adults	319	2,339		
	jacks				
	total	319	2,339		
b. Roe-recovery fish		# fish	lbs fish	lbs roe	
	Sold				
	Donated				
	Disposed				
	total number of fish				
c. Carcasses		# Sold	# Donated	# Disposed	Total
	Spawners			55,559	55,559
	Other (annotate in comments)				
	total number of fish			55,559	55,559
	total pounds			261,127	261,127

Disposition Comments

Schedule C-2

2023 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

KITOI BAY

Species **PINK**

Donor Stock **KITOI BAY H**

Project **KITOI BAY**

Ancestral Stock **BIG KITOI CR**

A. Hatchery Escapement

1. Cost-recovery (line 12a & 12b): traditional harvest and roe-recovery fish	1,130,318				
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	357,696				
3. Escapement for hatchery watershed (as required in permit)	125,000				
4. Jacks					
5. Other (annotate for each Other escapement return)	<table border="1"> <tr> <th>Other escapement</th> <th>Other escapement comment</th> </tr> <tr> <td align="right">816,116</td> <td>Clean-up fish sold with \$0 to KRAA 2,484,807 lbs</td> </tr> </table>	Other escapement	Other escapement comment	816,116	Clean-up fish sold with \$0 to KRAA 2,484,807 lbs
Other escapement	Other escapement comment				
816,116	Clean-up fish sold with \$0 to KRAA 2,484,807 lbs				
6. Total hatchery escapement	2,429,130				

Other Comments

B. Common Property Harvest

7. Commercial Harvest									
a. Troll									
b. Gillnet									
c. Seine	8,961,948								
d. Other (annotate for each Other commercial return)	<table border="1"> <tr> <th>Other commercial</th> <th>Other commercial comment</th> </tr> <tr> <td></td> <td></td> </tr> </table>	Other commercial	Other commercial comment						
Other commercial	Other commercial comment								
Total Commercial Harvest	8,961,948								
8. Noncommercial Harvest									
a. Sport									
b. Personal Use									
c. Subsistence									
d. Other (annotate for each Other noncommercial return)	<table border="1"> <tr> <th>Other noncommercial</th> <th>Other noncommercial comment</th> </tr> <tr> <td></td> <td></td> </tr> </table>	Other noncommercial	Other noncommercial comment						
Other noncommercial	Other noncommercial comment								
Total Noncommercial Harvest									
9. Total Common Property Harvest (sum 7 and 8)	8,961,948								
10. Total Return (sum 6 and 9)	11,391,078								
11. Estimated ocean survival by brood year	<table border="1"> <thead> <tr> <th>Brood Year</th> <th>Total # in Run, Current Year</th> <th>Cumulative Ocean Survival (%)</th> <th>Complete Return (yes or no)</th> </tr> </thead> <tbody> <tr> <td>2021</td> <td align="right">11,391,078</td> <td align="center">5.8</td> <td align="center">Yes</td> </tr> </tbody> </table>	Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)	2021	11,391,078	5.8	Yes
Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)						
2021	11,391,078	5.8	Yes						
Total Ocean Survival	11,391,078								

Harvest Comments

12. Disposition of Hatchery Escapement

a. Traditional harvest fish		# fish sold	lbs fish		
	adults	1,130,318	3,019,353		
	jacks				
	total	1,130,318	3,019,353		
b. Roe-recovery fish		# fish	lbs fish	lbs roe	
	Sold				
	Donated				
	Disposed				
	total number of fish				
c. Carcasses		# Sold	# Donated	# Disposed	Total
	Spawners			357,696	357,696
	Other (annotate in comments)				
	total number of fish			357,696	357,696
	total pounds			1,001,549	1,001,549

Disposition Comments

Traditional CR harvest excludes fish sold as fish meal/oil, starting 9/2, with \$0 value to KRAA.

Schedule C-3

2023 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

KITOI BAY

Species **SOCKEYE**

Donor Stock **SALTERY CR 103-25**

Project **KITOI BAY**

Ancestral Stock **SALTERY LK 259-41**

A. Hatchery Escapement

1. Cost-recovery (line 12a & 12b): traditional harvest and roe-recovery fish	209	
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)		
3. Escapement for hatchery watershed (as required in permit)	253	
4. Jacks	3	
5. Other (annotate for each Other escapement return)		
	Other escapement	Other escapement comment
	10	Home pack
6. Total hatchery escapement	475	

Other Comments

B. Common Property Harvest

7. Commercial Harvest		
a. Troll		
b. Gillnet		
c. Seine	43,359	
d. Other (annotate for each Other commercial return)		
	Other commercial	Other commercial comment
Total Commercial Harvest	43,359	
8. Noncommercial Harvest		
a. Sport		
b. Personal Use		
c. Subsistence		
d. Other (annotate for each Other noncommercial return)		
	Other noncommercial	Other noncommercial comment
Total Noncommercial Harvest		
9. Total Common Property Harvest (sum 7 and 8)		43,359
10. Total Return (sum 6 and 9)		43,834

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

Total Ocean Survival
Harvest Comments

12. Disposition of Hatchery Escapement

		# fish sold	lbs fish		
a. Traditional harvest fish	adults	209	1,197		
	jacks				
	total	209	1,197		
b. Roe-recovery fish		# fish	lbs fish	lbs roe	
	Sold				
	Donated				
	Disposed				
	total number of fish				
c. Carcasses		# Sold	# Donated	# Disposed	Total
	Spawners				
	Other (annotate in comments)				
	total number of fish				
	total pounds				

Disposition Comments

Schedule C-4

2023 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

KITOI BAY

Species **COHO** Donor Stock **KITOI BAY H** Project **KITOI BAY**
 Ancestral Stock **LITTLE KITOI LK**

A. Hatchery Escapement

1. Cost-recovery (line 12a & 12b): traditional harvest and roe-recovery fish	2,814						
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	5,295						
3. Escapement for hatchery watershed (as required in permit)	250						
4. Jacks	343						
5. Other (annotate for each Other escapement return)	<table border="1"> <tr> <th>Other escapement</th> <th>Other escapement comment</th> </tr> <tr> <td align="right">806</td> <td>for 5,295lbs donated to Kodiak community organizations. These appear in fish ticket totals.</td> </tr> <tr> <td align="right">23,333</td> <td>coho for 147,175 lbs were sold for \$0.</td> </tr> </table>	Other escapement	Other escapement comment	806	for 5,295lbs donated to Kodiak community organizations. These appear in fish ticket totals.	23,333	coho for 147,175 lbs were sold for \$0.
Other escapement	Other escapement comment						
806	for 5,295lbs donated to Kodiak community organizations. These appear in fish ticket totals.						
23,333	coho for 147,175 lbs were sold for \$0.						
6. Total hatchery escapement	32,841						

Other Comments

B. Common Property Harvest

7. Commercial Harvest			
a. Troll			
b. Gillnet			
c. Seine	62,180		
d. Other (annotate for each Other commercial return)	<table border="1"> <tr> <th>Other commercial</th> <th>Other commercial comment</th> </tr> </table>	Other commercial	Other commercial comment
Other commercial	Other commercial comment		
Total Commercial Harvest	62,180		
8. Noncommercial Harvest			
a. Sport			
b. Personal Use			
c. Subsistence			
d. Other (annotate for each Other noncommercial return)	<table border="1"> <tr> <th>Other noncommercial</th> <th>Other noncommercial comment</th> </tr> </table>	Other noncommercial	Other noncommercial comment
Other noncommercial	Other noncommercial comment		
Total Noncommercial Harvest			
9. Total Common Property Harvest (sum 7 and 8)	62,180		
10. Total Return (sum 6 and 9)	95,021		

11. Estimated ocean survival by brood year				
	Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
	2020	95,201	6.9	Yes

Total Ocean Survival 95,201
Harvest Comments

12. Disposition of Hatchery Escapement

a. Traditional harvest fish		# fish sold		lbs fish	
	adults	2,814		16,067	
	jacks				
	total	2,814		16,067	
b. Roe-recovery fish		# fish	lbs fish	lbs roe	
	Sold				
	Donated				
	Disposed				
	total number of fish				
c. Carcasses		# Sold	# Donated	# Disposed	Total
	Spawners			5,295	5,295
	Other (annotate in comments)	23,333	806		24,139
	total number of fish	23,333	806	5,295	29,434
	total pounds		4,836	31,770	36,606

Disposition Comments
 23,333 coho for 147,175 lbs were sold for \$0. 806 additional fish (5,295lbs) were donated to organizations in the Kodiak community. Those 806 coho do appear in the fish ticket totals.

Schedule D-1
PROJECTED RETURNS FOR 2024

KITOI BAY

Run	Species	First Brood Year	Last Brood Year	Release Site	Total number of fish expected	Range of expected return	
						minimum	maximum
SUMMER	CHUM	2018	2022	KITOI BAY 252-31	137,975	110,380	165,570
CHUM					137,975	110,380	165,570
FALL	COHO	2021	2021	KITOI BAY 252-31	52,588	39,441	65,735
COHO					52,588	39,441	65,735
SUMMER	PINK	2022	2022	KITOI BAY 252-31	3,835,774	2,876,831	4,794,718
PINK					3,835,774	2,876,831	4,794,718
SUMMER	SOCKEYE	2018	2021	LITTLE KITOI BAY 252-31	6,002	4,801	7,202
SUMMER	SOCKEYE	2018	2022	OUZINKIE BOAT HARBOR 259	1,031	825	1,237
SOCKEYE					7,033	5,626	8,439

COMMENTS:

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