

**2024 ANNUAL REPORT
ALASKAN SALMON HATCHERY**

Year ending December 15, 2024

Hatchery name/Location	KITOI BAY
Permit holder name/Address	Jakob Cronk

Person to contact	Jakob Cronk	name
regarding this report	(229)234-9413	phone

Schedule A - Egg-take

ID	Brood Year	Species	Ancestral Stock	Donor Stock	Egg-take Green	Eggs Retained	Eggs Survived
1	2024	CHUM	STURGEON R	KITOI BAY H	34,534,071	34,534,071	27,250,218
2	2024	PINK	BIG KITOI CR	KITOI BAY H	215,152,171	215,152,171	201,472,413
3	2024	COHO	LITTLE KITOI LK	KITOI BAY H	207,360	207,360	
4	2024	SOCKEYE	SALTERY LK 259-41	SALTERY LK 259-41		847,000	714,135

Schedule B - Section A - Life Stage Information

ID	Brood Year	Species	Ancestral Stock	Donor Stock	Green	Eyed	Emg Fry	Fed Fry	Smolt
1	2023	CHUM	STURGEON R	KITOI BAY H	27,813,026	22,463,673	21,118,004	20,875,844	
2	2023	PINK	BIG KITOI CR	KITOI BAY H	218,091,555	205,967,724	201,980,963	198,856,532	
3	2023	SOCKEYE	SALTERY LK 259-41	SALTERY LK 259-41	863,315	671,337	609,497	490,431	
4	2023	COHO	LITTLE KITOI LK	KITOI BAY H	2,300,000	1,912,015	1,854,534	1,854,534	
5	2022	SOCKEYE	SALTERY LK 259-41	SALTERY LK 259-41	774,416	707,842	454,426	327,500	295,087
6	2022	COHO	LITTLE KITOI LK	KITOI BAY H	2,386,957	2,006,479	1,937,111	1,937,111	1,365,080

Schedule B - Section C - Release

ID	Release ID/Tag Code	Brood Year	Species	Ancestral Stock	Donor Stock	Site	Total Released
4	!01242KRAA07	2023	COHO	LITTLE KITOI LK	KITOI BAY H	JENNIFER LK 252-31 (B)	225,112
4	!01242KRAA08	2023	COHO	LITTLE KITOI LK	KITOI BAY H	RUTH LK 252-30 (B)	38,769
4	!01242KRAA09	2023	COHO	LITTLE KITOI LK	KITOI BAY H	CRESCENT LK 252-36 (B)	183,390
4	!01242KRAA10	2023	COHO	LITTLE KITOI LK	KITOI BAY H	KITOI BAY 252-31	994,790
6	!01242KRAA02	2022	COHO	LITTLE KITOI LK	KITOI BAY H	KITOI BAY 252-31	1,325,080
6	!01242KRAA01	2022	COHO	LITTLE KITOI LK	KITOI BAY H	OUZINKIE BOAT HARBOR 259	40,000
5	!01244KRAA03	2022	SOCKEYE	SALTERY LK 259-41	SALTERY LK 259-41	OUZINKIE BOAT HARBOR 259	45,539
5	!01244KRAA01	2022	SOCKEYE	SALTERY LK 259-41	SALTERY LK 259-41	LITTLE KITOI LK 252-31	79,709
5	!01244KRAA02	2022	SOCKEYE	SALTERY LK 259-41	SALTERY LK 259-41	LITTLE KITOI LK 252-31	169,839
1	!01245KRAA01	2023	CHUM	STURGEON R	KITOI BAY H	KITOI BAY 252-31	9,166,901
1	!01245KRAA02	2023	CHUM	STURGEON R	KITOI BAY H	KITOI BAY 252-31	11,708,943
2	!01246KRAA01	2023	PINK	BIG KITOI CR	KITOI BAY H	KITOI BAY 252-31	198,856,532

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		372,347	427,693
2	SOCKEYE	SALTERY LK 259-41	SALTERY CR 103-25	KITOI BAY		79,372	80,681
3	COHO	LITTLE KITOI LK	KITOI BAY H	KITOI BAY		10,024	10,324
4	PINK	BIG KITOI CR	KITOI BAY H	KITOI BAY	1,086,964	2,424,673	3,780,335

Schedule F - Return

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

2024 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

KITOI BAY

Continued to 2025, B-1

- 1. Species: CHUM
- 2. Donor stock: KITOI BAY H
- 3. Ancestral stock: STURGEON R
- 4. Viable broodstock (spawned, eggs in incubators): 19,713 females, 24,718 males, 44,431 total
- 5. In viable broodstock (green/over-ripe/bad): 1,417 females, 428 males, 1,845 total
- 6. Unspawned fish (roe recovery, excess males): 3,127
- 7. Holding mortalities (raceway, pen mortalities): 4,943
- 8. Adults sacrificed for broodstock (sum 4 thru 7): 54,346
- 9. Average length and weight of adults used for broodstock:
 - Females: mm kg
 - Males: mm kg
- 10. Average fecundity (eggs/female): 1,752 Override auto calculation
- 11. Egg-take dates (first date): 07/16/2024
- 12. Egg-take dates (last date): 07/31/2024
- 13. Number of green eggs taken: 34,534,071

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: 34,534,071
- 18. Number remaining in hatchery at eyed stage: 27,250,218, 78.908 % survival Override auto calculation
- 19. Describe procedures used for egg takes and evaluation of in-hatchery survivals:

Dy 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.

Entered By: KRAAKBH Date Last Modified: 12/13/2024 2:32:21 PM

Schedule A-2
2024 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

KITOI BAY

Continued to

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|--|---|----------------------|--|----------------------|--|
| 1. Species | <input type="text" value="PINK"/> | | | | |
| 2. Donor stock | <input type="text" value="KITOI BAY H"/> | | | | |
| 3. Ancestral stock | <input type="text" value="BIG KITOI CR"/> | | | | |
| 4. Viable broodstock (spawned, eggs in incubators) | <input type="text" value="146,306"/> | females | <input type="text" value="94,634"/> | males | <input type="text" value="240,940"/> total |
| 5. Inviable broodstock (green/over-ripe/bad) | <input type="text" value="12,601"/> | females | <input type="text" value="1,451"/> | males | <input type="text" value="14,052"/> total |
| 6. Unspawned fish (roe recovery, excess males) | <input type="text" value="59,313"/> | | | | |
| 7. Holding mortalities (raceway, pen mortalities) | <input type="text" value="31,431"/> | | | | |
| 8. Adults sacrificed for broodstock (sum 4 thru 7) | <input type="text" value="345,736"/> | | | | |
| 9. Average length and weight of adults used for broodstock | | | | | |
| | Females | <input type="text"/> | mm | <input type="text"/> | kg |
| | Males | <input type="text"/> | mm | <input type="text"/> | kg |
| 10. Average fecundity (eggs/female) | <input type="text" value="1,471"/> | | <input type="checkbox"/> Override auto calculation | | |
| 11. Egg-take dates (first date) | <input type="text" value="09/06/2024"/> | | | | |
| 12. Egg-take dates (last date) | <input type="text" value="09/20/2024"/> | | | | |
| 13. Number of green eggs taken | <input type="text" value="215,152,171"/> | | | | |

14-16. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Total Transfers, Morts, and Culls						<input type="text"/>

- | | |
|--|--|
| 17. Number of green eggs retained in hatchery | <input type="text" value="215,152,171"/> |
| 18. Number remaining in hatchery at eyed stage | <input type="text" value="201,472,413"/> <input type="text" value="93.642"/> % 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.

Entered By

Date Last Modified

Schedule A-3

2024 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	<input type="text"/>	mm	<input type="text"/>	kg
Males	<input type="text"/>	mm	<input type="text"/>	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
Total Transfers, Morts, and Culls						<input type="text"/>

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:

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 207,360. Low amount of brood stock returned.

Entered By

Date Last Modified

Schedule A-4

2024 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	10/2/2024	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.

Entered By

Date Last Modified

Schedule B-1

2024 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species **CHUM**

Donor Stock **KITOI BAY H**

Brood Year **2023**

Ancestral Stock **STURGEON R**

Continued from **2023, 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	27,813,026	100	
2. Eyed Eggs	22,463,673	80.77	
3. Emergent Fry	21,118,004	75.93	
4. Fed Fry	20,875,844	75.06	
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
I01245KRAA01		STURGEON R	KITOI BAY H	KITOI BAY 252-31	5/20/2024	FED FRY	9,166,901
I01245KRAA02		STURGEON R	KITOI BAY H	KITOI BAY 252-31	5/31/2024	FED FRY	11,708,943
Total Released							20,875,844

D. Other

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Untagged Release

Annual Report: 2024, SCHEDULE B-1

Release ID Code: 101245KRAA01

General Information

Project Leader:	CRONK	Species:	CHUM	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2023	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Thermal Mark ID:	KITOI23CHUM		
Donor Stock:	KITOI BAY H	Release Group:	REGULAR	Hatch Code:	3N,2H
Ancestral Stock:	STURGEON R	FTP:	22A-0003	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	CRONK	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):	1.37	Fork Length (mm):		
Began:	05/20/2024	Ended:	05/20/2024	9,166,901

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUPERVISOR FROM KRAAKBH, JAKOB CRONK ENTERED THE RELEASE (KMD 12/19/24)

Untagged Release

Annual Report: 2024, SCHEDULE B-1

Release ID Code: 101245KRAA02

General Information

Project Leader:	CRONK	Species:	CHUM	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2023	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Thermal Mark ID:	KITOI23CHUMA		
Donor Stock:	KITOI BAY H	Release Group:	LATE LARGE	Hatch Code:	4,4,2H
Ancestral Stock:	STURGEON R	FTP:	22A-0003	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	CRONK	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):	2.88	Fork Length (mm):		
Began:	05/31/2024	Ended:	05/31/2024	11,708,943

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUPERVISOR FROM KRAAKBH, JAKOB CRONK ENTERED THE RELEASE (KMD 12/19/24)

Schedule B-2

2024 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species

Donor Stock

Brood Year

Ancestral Stock

Continued from to

A. Life Stage Information

	Acutal Number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green Eggs	218,091,555	100	
2. Eyed Eggs	205,967,724	94.44	
3. Emergent Fry	201,980,963	92.61	
4. Fed Fry	198,856,532	91.18	
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
101246KRAA01		BIG KITOI CR	KITOI BAY H	KITOI BAY 252-31	5/23/2024	FED FRY	198,856,532
Total Released							198,856,532

D. Other

Untagged Release

Annual Report: 2024, SCHEDULE B-2

Release ID Code: 101246KRAA01

General Information

Project Leader:	CRONK	Species:	PINK	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2023	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Release Group:	1	Thermal Mark ID:	KITOI23PINK
Donor Stock:	KITOI BAY H	FTP:	22A-0004	Hatch Code:	2,3H
Ancestral Stock:	BIG KITOI CR	Experimental Class:			

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	CRONK	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):	0.65	Fork Length (mm):		
Began:	05/23/2024	Ended:	05/23/2024	198,856,532

Comments: 250 characters max.

CHANGED RELEASE SUPER VISOR AND LEADER FROM KRAAKBH, JAKOB CRONK ENETERED THE RELEASE 9KMD 12/20/24)

Schedule B-3

2024 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species **SOCKEYE**

Donor Stock **SALTERY LK 259-41**

Brood Year **2023**

Ancestral Stock **SALTERY LK 259-41**

Continued from **2023, A-3** to **2025, B-4**

A. Life Stage Information

	Actual Number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green Eggs	863,315	100	
2. Eyed Eggs	671,337	77.76	
3. Emergent Fry	609,497	70.60	
4. Fed Fry	490,431	56.81	Significant mortality due to coagulated yolk.
5. Smolts			

B. 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						847,000

C. Release Information

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

D. Other

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Schedule B-4

2024 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species **COHO**

Donor Stock **KITOI BAY H**

Brood Year **2023**

Ancestral Stock **LITTLE KITOI LK**

Continued from **2023, A-4** to **2025, B-5**

A. Life Stage Information

	Actual Number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green Eggs	2,300,000	100	
2. Eyed Eggs	1,912,015	83.13	
3. Emergent Fry	1,854,534	80.63	
4. Fed Fry	1,854,534	80.63	447,271 fish stocked to remote lakes. 411,802 fish held for release as smolt in 2025.
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
I01242KRAA09		LITTLE KITOI LK	KITOI BAY H	CRESCENT LK 252-36 (B)	7/15/2024	FED FRY	183,390
I01242KRAA07		LITTLE KITOI LK	KITOI BAY H	JENNIFER LK 252-31 (B)	7/15/2024	FED FRY	225,112
I01242KRAA10		LITTLE KITOI LK	KITOI BAY H	KITOI BAY 252-31	5/24/2024	EMERGENT FRY	994,790
I01242KRAA08		LITTLE KITOI LK	KITOI BAY H	RUTH LK 252-30 (B)	7/15/2024	FED FRY	38,769
Total Released							1,442,061

D. Other

994,790 fish lost down drain and leaks from tail race.

Untagged Release

Annual Report: **2024, SCHEDULE B-4**

Release ID Code: **101242KRAA09**

General Information

Project Leader:	CRONK	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2023	Release Type:	PRODUCTION
Division/Section:		Adult Run:	FALL	Mark Type:	TM
Facility:	KITOI BAY	Thermal Mark ID:	KITOI BAY 23		
Donor Stock:	KITOI BAY H	Release Group:		Hatch Code:	2,2H
Ancestral Stock:	LITTLE KITOI LK	FTP:	18A-0024(1)	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	CRONK	Release Stage:	FED FRY
Release Site:	CRESCENT LK 252-36 (B)	Unmarked Counting Method:	VOLUMETRIC
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released
Weight (g):	0.6	Fork Length (mm):		
Began:	07/15/2024	Ended:	07/15/2024	183,390

Comments: 250 characters max.

Untagged Release

Annual Report: **2024, SCHEDULE B-4**

Release ID Code: **101242KRAA07**

General Information

Project Leader:	CRONK	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2023	Release Type:	PRODUCTION
Division/Section:		Adult Run:	FALL	Mark Type:	TM
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	KITOI BAY 23
Donor Stock:	KITOI BAY H	FTP:	18A-0026(1)	Hatch Code:	2,2H
Ancestral Stock:	LITTLE KITOI LK	Experimental Class:			

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	CRONK	Release Stage:	FED FRY
Release Site:	JENNIFER LK 252-31 (B)	Unmarked Counting Method:	VOLUMETRIC
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released
Weight (g):	0.65	Fork Length (mm):		
Began:	07/15/2024	Ended:	07/15/2024	225,112

Comments: 250 characters max.

Untagged Release

Annual Report: 2024, SCHEDULE B-4

Release ID Code: 101242KRAA10

General Information

Project Leader:	CRONK	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2023	Release Type:	OTHER
Division/Section:		Adult Run:	FALL	Mark Type:	TM
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	KITOI BAY 23
Donor Stock:	KITOI BAY H	FTP:		Hatch Code:	2,2H
Ancestral Stock:	LITTLE KITOI LK	Experimental Class:			

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	CRONK	Release Stage:	EMERGENT FRY
Release Site:	KITOI BAY 252-31	Unmarked Counting Method:	VOLUMETRIC
Anadromous Stream #:		Expected Survival:	WARNING

Size at Release		Release Dates		Total Fish Released
Weight (g):	0.25	Fork Length (mm):		
Began:	05/24/2024	Ended:	05/24/2024	994,790

Comments: 250 characters max.

THESE FISH WERE NOT INTENTIONALLY RELEASED. SOME WERE LOST DOWN DRAINS DUE TO INCUBATOR OVERFLOW AND OTHERS THROUGH LEAKS FROM THE TAIL RACE. SURVIVAL OF THESE FISH IS EXPECTED TO BE LOW. (EK 12/17/24) ADDED PSMFC COMMENT AS PER EXPECTED SURVIVAL AND COMMENT (KMD 12/23/24)

Untagged Release

Annual Report: **2024, SCHEDULE B-4**

Release ID Code: **101242KRAA08**

General Information

Project Leader:	CRONK	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2023	Release Type:	PRODUCTION
Division/Section:		Adult Run:	FALL	Mark Type:	TM
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	KITOI BAY23
Donor Stock:	KITOI BAY H	FTP:	18A-0025(1)	Hatch Code:	2,2H
Ancestral Stock:	LITTLE KITOI LK	Experimental Class:			

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	CRONK	Release Stage:	FED FRY
Release Site:	RUTH LK 252-30 (B)	Unmarked Counting Method:	VOLUMETRIC
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released		
Weight (g):	0.6	Began:	07/15/2024	Ended:	07/15/2024	38,769

Comments: 250 characters max.

Schedule B-5

2024 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 **2023, B-3** to

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	295,087	38.10	

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
I01244KRAA01		SALTERY LK 259-41	SALTERY LK 259-41	LITTLE KITOI LK 252-31	5/15/2024	SMOLT	79,709
I01244KRAA02		SALTERY LK 259-41	SALTERY LK 259-41	LITTLE KITOI LK 252-31	5/22/2024	SMOLT	169,839
I01244KRAA03		SALTERY LK 259-41	SALTERY LK 259-41	OUZINKIE BOAT HARBOR 259	6/4/2024	SMOLT	45,539
Total Released							295,087

D. Other

Untagged Release

Annual Report: 2024, SCHEDULE B-5

Release ID Code: 101244KRAA01

General Information

Project Leader:	CRONK	Species:	SOCKEYE	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:	KITOI22		
Donor Stock:	SALTERY LK 259-41	Release Group:	1	Hatch Code:	4,2H
Ancestral Stock:	SALTERY LK 259-41	FTP:	18A-0021(1)	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

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

Size at Release		Release Dates		Total Fish Released
Weight (g):	13.4	Fork Length (mm):		
Began:	05/15/2024	Ended:	05/15/2024	79,709

Comments: 250 characters max.

SOME MORTALITY WAS EXPERIENCED DURING THE TRANSFER FROM KBH TO LITTLE KITOI ON 5/3. FISH CONTINUED TO DROP OUT OVER THE NEXT 5 DAYS, AND STAFF WAS WORRIED ABOUT A DISEASE OUTBREAK. FISH WERE RELEASED EARLY. CHANGED RELEASE SUPERVISOER AND LEADER FROM KRAAKBH. CHANGES EXPECTED SURVIVAL FROM NORMAL AS PER COMMENT. ADDED PSMFC COMMENT (KMD 12/23/24)

Untagged Release

Annual Report: 2024, SCHEDULE B-5

Release ID Code: 101244KRAA02

General Information

Project Leader:	CRONK	Species:	SOCKEYE	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:	KITOI22		
Donor Stock:	SALTERY LK 259-41	Release Group:	2	Hatch Code:	4,2H
Ancestral Stock:	SALTERY LK 259-41	FTP:	18A-0021(1)	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	CRONK	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):	16.59	Fork Length (mm):		
Began:	05/21/2024	Ended:	05/22/2024	169,839

Comments: 250 characters max.

CHANGED RELEASE SUPERVISOR AND LEADER FROM KRAAKBH. (KMD 12/23/24)

Untagged Release

Annual Report: 2024, SCHEDULE B-5

Release ID Code: 101244KRAA03

General Information

Project Leader:	CRONK	Species:	SOCKEYE	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:	KITOI22		
Donor Stock:	SALTERY LK 259-41	Release Group:	OUZINKIE	Hatch Code:	4,2H
Ancestral Stock:	SALTERY LK 259-41	FTP:	16A-0038(1)	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	CRONK	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):	17.6	Fork Length (mm):		
Began:	06/04/2024	Ended:	06/04/2024	45,539

Comments: 250 characters max.

CHANGED RELEASE SUPERVISOR AND LEADER FROM KRAAKBH. (KMD 12/23/24)

Schedule B-6

2024 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species **COHO**

Donor Stock **KITOI BAY H**

Brood Year **2022**

Ancestral Stock **LITTLE KITOI LK**

Continued from **2023, B-5** to

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	1,365,080	57.19	

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
I01242KRAA02		LITTLE KITOI LK	KITOI BAY H	KITOI BAY 252-31	6/10/2024	SMOLT	1,325,080
I01242KRAA01		LITTLE KITOI LK	KITOI BAY H	OUZINKIE BOAT HARBOR 259	6/4/2024	SMOLT	40,000
Total Released							1,365,080

D. Other

Untagged Release

Annual Report: 2024, SCHEDULE B-6

Release ID Code: 101242KRAA02

General Information

Project Leader:	CRONK	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2022	Release Type:	PRODUCTION
Division/Section:		Adult Run:	FALL	Mark Type:	TM
Facility:	KITOI BAY	Thermal Mark ID:	KITOI BAY 22		
Donor Stock:	KITOI BAY H	Release Group:	1	Hatch Code:	3,2,2H
Ancestral Stock:	LITTLE KITOI LK	FTP:	18A-0022(1)	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	CRONK	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):	17.04	Fork Length (mm):		Began:	06/10/2024	Ended:	06/10/2024	1,325,080

Comments: 250 characters max.

FED MEDICATED FEED IN MARCH 2024 TO TREAT FURUNCULOSIS AS DIRECTED BY ADFG PATHOLOGY STAFF.

Untagged Release

Annual Report: **2024, SCHEDULE B-6**

Release ID Code: **101242KRAA01**

General Information

Project Leader:	CRONK	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2022	Release Type:	PRODUCTION
Division/Section:		Adult Run:	FALL	Mark Type:	TM
Facility:	KITOI BAY	Thermal Mark ID:	KITOI BAY22		
Donor Stock:	KITOI BAY H	Release Group:	OUZINKIE	Hatch Code:	3,2,2H
Ancestral Stock:	LITTLE KITOI LK	FTP:	24A-0014	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	CRONK	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):		Began:	06/04/2024	Ended:	06/04/2024	40,000

Comments: 250 characters max.

Schedule C-1

2024 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	
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	54,346
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	55,346

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	
b. Gillnet	
c. Seine	372,347
d. Other (annotate for each Other commercial return)	Other commercial Other commercial comment
Total Commercial Harvest	372,347

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)	372,347
10. Total Return (sum 6 and 9)	427,693

11. Estimated ocean survival by brood year

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2018		0.97	Yes
2019	41,583		No
2020	317,201		No
2021	68,909		No

Total Ocean Survival	427,693
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Harvest Comments

12. Disposition of Hatchery Escapement

a. Traditional harvest fish		# fish sold	lbs fish	
	adults			
	jacks			
	total			
b. Roe-recovery fish		# fish	lbs fish	lbs roe
	Sold			
	Donated			
	Disposed			
	total number of fish			
c. Carcasses		# Sold	# Donated	# Disposed
	Spawners			54,346
	Other (annotate in comments)			
	total number of fish			54,346
	total pounds			282,599

Disposition Comments

Schedule C-2

2024 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	
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	
3. Escapement for hatchery watershed (as required in permit)	1,309
4. Jacks	
5. Other (annotate for each Other escapement return)	Other escapement Other escapement comment
6. Total hatchery escapement	1,309

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	
b. Gillnet	
c. Seine	79,372
d. Other (annotate for each Other commercial return)	Other commercial Other commercial comment
Total Commercial Harvest	79,372

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)	79,372
10. Total Return (sum 6 and 9)	80,681

11. Estimated ocean survival by brood year			
	Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)
	2020	79,067	No
	2021	1,614	No
Total Ocean Survival		80,681	

Harvest Comments

12. Disposition of Hatchery Escapement

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

Disposition Comments

Schedule C-3

2024 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. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	300
3. Escapement for hatchery watershed (as required in permit)	
4. Jacks	
5. Other (annotate for each Other escapement return)	Other escapement Other escapement comment
6. Total hatchery escapement	300

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	
b. Gillnet	
c. Seine	10,024
d. Other (annotate for each Other commercial return)	Other commercial Other commercial comment
Total Commercial Harvest	10,024

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)	10,024
10. Total Return (sum 6 and 9)	10,324

11. Estimated ocean survival by brood year				
	Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
	2021	10,324	1.9	Yes
Total Ocean Survival		10,324		

Harvest Comments

12. Disposition of Hatchery Escapement

a. Traditional harvest fish		# fish sold	lbs fish	
	adults			
	jacks			
	total			
b. Roe-recovery fish		# fish	lbs fish	lbs roe
	Sold			
	Donated			
	Disposed			
	total number of fish			
c. Carcasses		# Sold	# Donated	# Disposed
	Spawners			300
	Other (annotate in comments)			
	total number of fish			300
	total pounds			2,400

Disposition Comments

Schedule C-4

2024 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

KITOI BAY

Species **PINK**

Donor Stock **KITOI BAY H**
Ancestral Stock **BIG KITOI CR**

Project **KITOI BAY**

A. Hatchery Escapement

1. Cost-recovery (line 12a & 12b): traditional harvest and roe-recovery fish	1,086,964
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	143,698
3. Escapement for hatchery watershed (as required in permit)	125,000
4. Jacks	
5. Other (annotate for each Other escapement return)	Other escapement Other escapement comment
6. Total hatchery escapement	1,355,662

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	
b. Gillnet	
c. Seine	2,424,673
d. Other (annotate for each Other commercial return)	Other commercial Other commercial comment
Total Commercial Harvest	2,424,673

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)	2,424,673
10. Total Return (sum 6 and 9)	3,780,335

11. Estimated ocean survival by brood year	Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
	2022	3,780,825	1.97	Yes

Total Ocean Survival align="right">3,780,825

Harvest Comments

12. Disposition of Hatchery Escapement

a. Traditional harvest fish		# fish sold	lbs fish		
	adults	885,416	3,049,231		
	jacks				
	total	885,416	3,049,231		
b. Roe-recovery fish		# fish	lbs fish	lbs roe	
	Sold	201,548	529,388	4,786	
	Donated				
	Disposed				
	total number of fish	201,548	529,388	4,786	
c. Carcasses		# Sold	# Donated	# Disposed	Total
	Spawners	112,757			112,757
	Other (annotate in comments)	71,233			71,233
	total number of fish	183,990			183,990
	total pounds				

Disposition Comments
 Sold 71,233 frames once egg take was concluded to get rid of excess brood.

Schedule D-1
PROJECTED RETURNS FOR 2025

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	2019	2023	LITTLE KITOI BAY 252-31	308,028	215,619	400,436
CHUM					308,028	215,619	400,436
FALL	COHO	2022	2022	LITTLE KITOI BAY 252-31	44,305	35,444	53,166
COHO					44,305	35,444	53,166
SUMMER	PINK	2019	2022	LITTLE KITOI BAY 252-31	11,452,458	8,589,343	14,315,572
PINK					11,452,458	8,589,343	14,315,572
SUMMER	SOCKEYE	2019	2022	LITTLE KITOI LK 252-31	72,820	58,256	87,384
SUMMER	SOCKEYE	2019	2022	OUZINKIE BOAT HARBOR 259	1,496	1,197	1,795
SOCKEYE					74,316	59,453	89,179

COMMENTS:

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