2022 ANNUAL REPORT

ALASKAN SALMON HATCHERY

Year ending December 15, 2022

Hatchery name/Location	**KITOI BAY**
Permit holder name/Address	Trenten Dodson

Person to contact	Trenten Dodson	name
regarding this report	9074866555	phone

Schedule A - Egg-take

ID	Brood Year	Species	Ancestral Stock	Donor Stock	Egg-take Green	Eggs Retained	Eggs Survived
1	2022	CHUM	STURGEON R	KITOI BAY H	35,781,557	35,781,557	31,057,147
2	2022	PINK	BIG KITOI CR	KITOI BAY H	213,986,683	213,986,683	200,016,365
3	2022	SOCKEYE	SALTERY LK 259-41	SALTERY LK 259-41		774,416	707,842
4	2022	COHO	LITTLE KITOI LK	KITOI BAY H	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	2021	CHUM	STURGEON R	KITOI BAY H	36,313,632	33,408,266	32,664,303	32,452,207	
2	2021	PINK	BIG KITOI CR	KITOI BAY H	216,065,572	204,177,326	200,089,158	196,429,159	
3	2020	SOCKEYE	SALTERY LK 259-41	KITOI BAY H	505,973	451,280	438,016	423,466	442,874
4	2021	COHO	LITTLE KITOI LK	KITOI BAY H	662,661	557,470	541,000	424,360	
5	2020	COHO	LITTLE KITOI LK	KITOI BAY H	2,109,114	1,839,193	1,778,055	1,778,055	1,386,835

Schedule B - Section C - Release

ID	Release ID/Tag Code	Brood Year	Species	Ancestral Stock	Donor Stock	Site	Total Released
5	!01222KRAA05	2020	COHO	LITTLE KITOI LK	KITOI BAY H	KITOI BAY 252-31	1,386,835
3	!01224KRAA03	2020	SOCKEYE	SALTERY LK 259-41	KITOI BAY H	OUZINKIE BOAT HARBOR 259	49,958
3	!01224KRAA05	2020	SOCKEYE	SALTERY LK 259-41	KITOI BAY H	LITTLE KITOI LK 252-31	284,679
3	!01224KRAA06	2020	SOCKEYE	SALTERY LK 259-41	KITOI BAY H	LITTLE KITOI LK 252-31	70,777
1	!01225KRAA01	2021	CHUM	STURGEON R	KITOI BAY H	KITOI BAY 252-31	15,401,486
1	!01225KRAA02	2021	CHUM	STURGEON R	KITOI BAY H	KITOI BAY 252-31	17,050,721
2	!01226KRAA01	2021	PINK	BIG KITOI CR	KITOI BAY H	KITOI BAY 252-31	196,429,159

Schedule C - Return

ID	Species	Ancestral Stock	Donor Stock	Project	Cost Recovery	Comm Property	Total Return
1	PINK	BIG KITOI CR	KITOI BAY H	KITOI BAY	929,126	2,745,286	4,010,686
2	CHUM	STURGEON R	KITOI BAY H	KITOI BAY	271	114,356	175,929
3	COHO	LITTLE KITOI LK	KITOI BAY H	KITOI BAY		9,430	22,430
4	SOCKEYE	SALTERY LK 259-41	SALTERY CR 103-25	KITOI BAY		25,792	25,998

Schedule F - Return

ID	Species	Stock	Project	Cost Recovery	Comm Property	Total Return

Schedule A-1

2022 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

KITOI BAY

Continued to

1. Species: CHUM
2. Donor stock: KITOI BAY H
3. Ancestral stock: STURGEON R
4. Viable broodstock (spawned, eggs in incubators): 20,238 females, 26,525 males, 46,763 total
5. Inviable broodstock (green/over-ripe/bad): 1,082 females, 555 males, 1,637 total
6. Unspawned fish (roe recovery, excess males): 5,966
7. Holding mortalities (raceway, pen mortalities): 5,409
8. Adults sacrificed for broodstock (sum 4 thru 7): 59,775
9. Average length and weight of adults used for broodstock

Females		mm		kg
Males		mm		kg

10. Average fecundity (eggs/female): 1,768 ☐ Override auto calculation
11. Egg-take dates (first date): 07/15/2022
12. Egg-take dates (last date): 08/03/2022
13. Number of green eggs taken: 35,781,557

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: 35,781,557
18. Number remaining in hatchery at eyed stage: 31,057,147 | 86.797 % survival ☐ Override auto calculation
19. Describe procedures used for egg takes and evaluation of in-hatchery survivals:

ry 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: KRAAHQ Date Last Modified: 12/15/2022 9:29:35 AM

Schedule A-2

2022 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

KITOI BAY

Continued to

1. Species: PINK
2. Donor stock: KITOI BAY H
3. Ancestral stock: BIG KITOI CR
4. Viable broodstock (spawned, eggs in incubators): 138,995 females; 73,586 males; 212,581 total
5. Inviable broodstock (green/over-ripe/bad): 4,753 females; 947 males; 5,700 total
6. Unspawned fish (roe recovery, excess males): 66,650
7. Holding mortalities (raceway, pen mortalities): 30,993
8. Adults sacrificed for broodstock (sum 4 thru 7): 315,924
9. Average length and weight of adults used for broodstock

Females		mm	0.95	kg
Males		mm	0.95	kg

10. Average fecundity (eggs/female): 1,540 ☐ Override auto calculation
11. Egg-take dates (first date): 09/03/2022
12. Egg-take dates (last date): 09/16/2022
13. Number of green eggs taken: 213,986,683

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: 213,986,683
18. Number remaining in hatchery at eyed stage: 200,016,365 93.471 % survival ☐ 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: KRAAHQ Date Last Modified: 12/15/2022 9:31:03 AM

Schedule A-3

2022 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

KITOI BAY

Continued to

1. Species: SOCKEYE
2. Donor stock: SALTERY LK 259-41
3. Ancestral stock: SALTERY LK 259-41
4. Viable broodstock (spawned, eggs in incubators): females / males / total
5. Inviable 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	9/15/2022	GREEN EGG	17A-0045	FROM	SALTERY LK 259-41	775,000

Total Transfers, Morts, and Culls: 775,000

17. Number of green eggs retained in hatchery: 774,416
18. Number remaining in hatchery at eyed stage: 707,842 | 91.403 % 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: KRAAHQ Date Last Modified: 12/15/2022 9:31:46 AM

Schedule A-4

2022 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

KITOI BAY

Continued to

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. Inviable broodstock (green/over-ripe/bad): 79 females, 4 males, 83 total
6. Unspawned fish (roe recovery, excess males): 7,643
7. Holding mortalities (raceway, pen mortalities): 54
8. Adults sacrificed for broodstock (sum 4 thru 7): 9,114
9. Average length and weight of adults used for broodstock

Females		mm		kg
Males		mm		kg

10. Average fecundity (eggs/female): 2,854 ☐ Override auto calculation
11. Egg-take dates (first date): 11/17/2022
12. Egg-take dates (last date): 11/22/2022
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
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. Fecundity appeared lower than normal. Some fish may have been partially spawned out.

Entered By: KRAAHQ Date Last Modified: 12/15/2022 9:32:55 AM

Schedule B-1

2022 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species CHUM **Donor Stock** KITOI BAY H **Brood Year** 2021

Ancestral Stock STURGEON R

Continued from 2021, 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	36,313,632	100	
2. Eyed Eggs	33,408,266	92	
3. Emergent Fry	32,664,303	89.95	
4. Fed Fry	32,452,207	89.37	
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
!01225KRAA01		STURGEON R	KITOI BAY H	KITOI BAY 252-31	5/19/2022	FED FRY	15,401,486
!01225KRAA02		STURGEON R	KITOI BAY H	KITOI BAY 252-31	6/1/2022	FED FRY	17,050,721

Total Released 32,452,207

D. Other

Untagged Release

Annual Report: 2022, SCHEDULE B-1

Release ID Code: !01225KRAA01

General Information

Project Leader:	WACHTER	Species:	CHUM	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:	KITOI21CHUM
Donor Stock:	KITOI BAY H	Release Group:	1	Hatch Code:	3,3,3H
Ancestral Stock:	STURGEON R	FTP:	22A-0003	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	WACHTER	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): 1.56	Fork Length (mm):	Began: 05/19/2022	Ended: 05/19/2022	15,401,486

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAPCH (JE 12/28/2022)

Report version: 2023.01.09.1102

Untagged Release

Annual Report: 2022, SCHEDULE B-1

Release ID Code: !01225KRAA02

General Information

Project Leader:	WACHTER	Species:	CHUM	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:	KITOI21CHUMA
Donor Stock:	KITOI BAY H	Release Group:	2	Hatch Code:	3,2,4H
Ancestral Stock:	STURGEON R	FTP:	22A-0003	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

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

Size at Release		Release Dates		Total Fish Released
Weight (g): 2.92	Fork Length (mm):	Began: 06/01/2022	Ended: 06/01/2022	17,050,721

Comments: 250 characters max.

FISH TESTED POSITIVE FOR VIBRIO AFTER RELEASE. MORTALITY WAS NOTICED FLOATING IN THE BAY THE MORNING AFTER RELEASE AND SAMPLES WERE SENT TO STATE PATHOLOGY. CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAPCH (JE 12/28/2022)

Report version: 2023.01.09.1102

Schedule B-2

2022 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species PINK | **Donor Stock** KITOI BAY H | **Brood Year** 2021

Ancestral Stock BIG KITOI CR

Continued from 2021, 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	216,065,572	100	
2. Eyed Eggs	204,177,326	94.50	
3. Emergent Fry	200,089,158	92.61	
4. Fed Fry	196,429,159	90.91	
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
!01226KRAA01		BIG KITOI CR	KITOI BAY H	KITOI BAY 252-31	5/24/2022	FED FRY	196,429,159

Total Released 196,429,159

D. Other

Untagged Release

Annual Report: 2022, SCHEDULE B-2

Release ID Code: !01226KRAA01

General Information

Project Leader:	WACHTER	Species:	PINK	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:	KITOI21PINK
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:	WACHTER	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): 0.61	Fork Length (mm):	Began: 05/24/2022	Ended: 05/24/2022	196,429,159

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAPCH (JE 12/28/22)

Report version: 2023.01.09.1102

Schedule B-3

2022 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species SOCKEYE **Donor Stock** KITOI BAY H **Brood Year** 2020

Ancestral Stock SALTERY LK 259-41

Continued from 2021, B-3 to

A. Life Stage Information

	Acutal Number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green Eggs	505,973	100	
2. Eyed Eggs	451,280	89.19	
3. Emergent Fry	438,016	86.57	
4. Fed Fry	423,466	83.69	Held for release in 2022 (underestimated)
5. Smolts	442,874	87.53	

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
!01224KRAA06		SALTERY LK 259-41	KITOI BAY H	LITTLE KITOI LK 252-31	6/2/2022	SMOLT	70,777
!01224KRAA05		SALTERY LK 259-41	KITOI BAY H	LITTLE KITOI LK 252-31	6/3/2022	SMOLT	284,679
!01224KRAA03		SALTERY LK 259-41	KITOI BAY H	OUZINKIE BOAT HARBOR 259	5/31/2022	SMOLT	49,958

Total Released 405,414

D. Other

Untagged Release

Annual Report: 2022, SCHEDULE B-3

Release ID Code: !01224KRAA06

General Information

Project Leader:	WACHTER	Species:	SOCKEYE	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2020	Release Type:	EXPERIMENTAL
Division/Section:		Adult Run:		Mark Type:	TM
Facility:	KITOI BAY			Thermal Mark ID:	KITOI20A
Donor Stock:	KITOI BAY H	Release Group:	2	Hatch Code:	5,4,2H
Ancestral Stock:	SALTERY LK 259-41	FTP:	18A-0021	Experimental Class:	REARING STRATEGY

Experimental Narrative: 250 characters max.

FISH WERE DIFFERENTLY MARKED AND REARED IN THE LITTLE KITOI ESTUARY, AT THE MOUTH OF LITTLE KITOI CREEK.THIS WAS CONDUCTED TO DETERMINE IF DESMOLTIFICATION WAS OCCURRING AND AFFECTING ADULT RETURNS. RETURNING ADULTS WILL BE CHECKED FOR MARKS.

Untagged Release Information

Release Supervisor:	WACHTER	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): 17.65	Fork Length (mm):	Began: 06/02/2022	Ended: 06/02/2022	70,777

Comments: 250 characters max.

70,777 OF THE RELEASED FISH HAD 5,4,2H MARK. CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH. CHANGED ROTAL RELEASE FROM 108,237. THIS RELEASE IS ASSOCIATED WITH RELEASE !01224KRAA10 (37,460 WITH NO MARK), ORIGINALLY REPORTED TOGETHER (108,237) BUT SPLIT SINCE NOT ALL WERE MARKED. (JE 12/30/22)

Report version: 2023.01.09.1102

Untagged Release

Annual Report: 2022, SCHEDULE B-3

Release ID Code: !01224KRAA05

General Information

Project Leader:	WACHTER	Species:	SOCKEYE	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2020	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY			Thermal Mark ID:	KITOI20
Donor Stock:	KITOI BAY H	Release Group:	1	Hatch Code:	5,4H
Ancestral Stock:	SALTERY LK 259-41	FTP:	18A-0021	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	WACHTER	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): 18.47	Fork Length (mm):	Began: 06/02/2022	Ended: 06/03/2022	284,679

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUPERVISOR FROM KRAAKBH (JE 12/30/22)

Report version: 2023.01.09.1102

Untagged Release

Annual Report: 2022, SCHEDULE B-3

Release ID Code: !01224KRAA03

General Information

Project Leader:	WACHTER	Species:	SOCKEYE	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2020	Release Type:	OTHER
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY			Thermal Mark ID:	KITOI20
Donor Stock:	KITOI BAY H	Release Group:	1	Hatch Code:	5,4H
Ancestral Stock:	SALTERY LK 259-41	FTP:	16A-0038(1)	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	WACHTER	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): 17.45	Fork Length (mm):	Began: 05/31/2022	Ended: 05/31/2022	49,958

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUPERVISOR FROM KRAAKBH (JE 12/30/22)

Report version: 2023.01.09.1102

Schedule B-4

2022 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species COHO **Donor Stock** KITOI BAY H **Brood Year** 2021

Ancestral Stock LITTLE KITOI LK

Continued from 2021, A-4 to

A. Life Stage Information

	Acutal 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	424,360	64.04	held for release as smolt 2023
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

Total Released

D. Other

Schedule B-5

2022 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species COHO **Donor Stock** KITOI BAY H **Brood Year** 2020

Ancestral Stock LITTLE KITOI LK

Continued from 2021, B-4 to

A. Life Stage Information

	Acutal Number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green Eggs	2,109,114	100	2,319,840 green eggs estimated at eggtake. 2,109,114 eggs inventoried at egg pick.
2. Eyed Eggs	1,839,193	87.20	68,295 eggs culled for BKD (single family tracking) before egg pick
3. Emergent Fry	1,778,055	84.30	
4. Fed Fry	1,778,055	84.30	375,437 fry released for stocking programs. 1,392,548 held at hatchery for release in 2022.
5. Smolts	1,386,835	65.75	

B. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Culled	2/2/2021	EYED EGG			BKD - Bacterial Kidney Disease	68,295

Total Transfers, Morts, and Culls -68,295

C. Release Information

Release ID/ Tag Code	FTP	Ancestral Stock	Donor Stock	Site	Date Last Released	Life Stage	Total
!01222KRAA05		LITTLE KITOI LK	KITOI BAY H	KITOI BAY 252-31	6/3/2022	SMOLT	1,386,835

Total Released 1,386,835

D. Other

Untagged Release

Annual Report: 2022, SCHEDULE B-5

Release ID Code: !01222KRAA05

General Information

Project Leader:	WACHTER	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2020	Release Type:	PRODUCTION
Division/Section:		Adult Run:	FALL	Mark Type:	TM
Facility:	KITOI BAY			Thermal Mark ID:	KITOIBAY20
Donor Stock:	KITOI BAY H	Release Group:	1	Hatch Code:	2,2H
Ancestral Stock:	LITTLE KITOI LK	FTP:	18A-0022	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	WACHTER	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): 13.73	Fork Length (mm):	Began: 06/03/2022	Ended: 06/03/2022	1,386,835

Comments: 250 characters max.

RELEASED EARLY DUE TO HOT WATER AND CHUM FRY IN NEARBY PENS HAVING VIBRIO. RELEASED TO MINIMIZE THE CHANCE OF TRANSMISSION. NO MORTALITY NOTED FOLLOWING RELEASE. CHANGED PROJECT LEADER AND RELEASE SUPERVISOR FROM KRAAKBH (JE 12/30/22)

Report version: 2023.01.09.1102

Schedule C-1

2022 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	929,126
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	311,274
3. Escapement for hatchery watershed (as required in permit)	25,000
4. Jacks	

5. Other (annotate for each Other escapement return)

Other escapement	Other escapement comment

6. Total hatchery escapement	1,265,400

Other Comments

B. Common Property Harvest

7. Commercial Harvest

a. Troll	
b. Gillnet	
c. Seine	2,745,286

d. Other (annotate for each Other commercial return)

Other commercial	Other commercial comment

Total Commercial Harvest	2,745,286

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)	2,745,286
10. Total Return (sum 6 and 9)	4,010,686

11. Estimated ocean survival by brood year

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2021	4,015,336	3.1	Yes

Total Ocean Survival	4,015,336

Harvest Comments

12. Disposition of Hatchery Escapement

		# fish sold	lbs fish
a. Traditional harvest fish	adults	924,476	3,108,399
	jacks		
	total	924,476	3,108,399

b. Roe-recovery fish	# fish	lbs fish	lbs roe
Sold	4,650	11,400	1,824
Dontated			
Disposed			
total number of fish	4,650	11,400	1,824

c. Carcasses	# Sold	# Donated	# Disposed	Total
Spawners	272,634		38,730	311,364
Other (annotate in comments)				

total number of fish	272,634		38,730	311,364
total pounds	804,918			804,918

Disposition Comments

Schedule C-2

2022 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	271
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	59,775
3. Escapement for hatchery watershed (as required in permit)	1,527
4. Jacks	

5. Other (annotate for each Other escapement return)

Other escapement	Other escapement comment

6. Total hatchery escapement	61,573

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	
b. Gillnet	
c. Seine	114,356

d. Other (annotate for each Other commercial return)

Other commercial	Other commercial comment

Total Commercial Harvest	114,356
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)		114,356
10. Total Return (sum 6 and 9)		175,929

11. Estimated ocean survival by brood year

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2017	22,871		No
2018	140,743		No
2019	12,315		No

Total Ocean Survival	175,929

Harvest Comments

12. Disposition of Hatchery Escapement

		# fish sold	lbs fish
a. Traditional harvest fish	adults	271	1,626
	jacks		
	total	271	1,626

b. Roe-recovery fish	# fish	lbs fish	lbs roe
Sold			
Dontated			
Disposed			
total number of fish			

c. Carcasses	# Sold	# Donated	# Disposed	Total

Spawners			59,775	59,775
Other (annotate in comments)				
total number of fish			59,775	59,775
total pounds			358,650	358,650

Disposition Comments

Schedule C-3

2022 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)	9,114	
3. Escapement for hatchery watershed (as required in permit)	3,886	
4. Jacks		
5. Other (annotate for each Other escapement return)	Other escapement	Other escapement comment
6. Total hatchery escapement	13,000	

Other Comments

B. Common Property Harvest

7. Commercial Harvest		
a. Troll		
b. Gillnet		
c. Seine	9,430	
d. Other (annotate for each Other commercial return)	Other commercial	Other commercial comment
Total Commercial Harvest	9,430	
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)		9,430
10. Total Return (sum 6 and 9)		22,430

11. Estimated ocean survival by brood year

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2018	22,430	2	Yes

Total Ocean Survival 22,430

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			
Dontated			
Disposed			
total number of fish			

c. Carcasses

	# Sold	# Donated	# Disposed	Total
Spawners			9,114	9,114
Other (annotate in comments)				

total number of fish			9,114	9,114
total pounds			72,912	72,912

Disposition Comments

Schedule C-4

2022 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)	206
4. Jacks	

5. Other (annotate for each Other escapement return)

Other escapement	Other escapement comment

6. Total hatchery escapement	206

Other Comments

No egg take occurred at Little Kitoi Lake in 2022.

B. Common Property Harvest

7. Commercial Harvest

a. Troll	
b. Gillnet	
c. Seine	25,792

d. Other (annotate for each Other commercial return)

Other commercial	Other commercial comment

Total Commercial Harvest	25,792

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)	25,792
10. Total Return (sum 6 and 9)	25,998

11. Estimated ocean survival by brood year

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2018	20,799		No
2019	5,199		No

Total Ocean Survival	25,998

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			
Dontated			
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 D-1

PROJECTED RETURNS FOR 2023

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	2020	KITOI BAY 252-31	109,500	87,600	131,400
CHUM					**109,500**	**87,600**	**131,400**
FALL	COHO	2020	2020	KITOI BAY 252-31	132,500	99,400	165,600
COHO					**132,500**	**99,400**	**165,600**
SUMMER	PINK	2020	2020	KITOI BAY 252-31	5,700,000	4,300,000	7,200,000
PINK					**5,700,000**	**4,300,000**	**7,200,000**
SUMMER	SOCKEYE	2017	2020	LITTLE KITOI BAY 252-31	10,750	8,608	12,911
SUMMER	SOCKEYE	2017	2020	OUZINKIE BOAT HARBOR 259	504	403	605
SOCKEYE					**11,254**	**9,011**	**13,516**

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