

2021 ANNUAL REPORT ALASKAN SALMON HATCHERY

Year ending December 15, 2021

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

Person to contact	Trenten Dodson	name
regarding this report	(907)942-0829	phone

Schedule A - Egg-take

ID	Brood Year	Species	Ancestral Stock	Donor Stock	Egg-take Green	Eggs Retained	Eggs Survived
1	2021	CHUM	STURGEON R	KITOI BAY H	36,313,632	36,313,632	33,408,266
2	2021	PINK	BIG KITOI CR	KITOI BAY H	216,065,572	216,065,572	204,177,326
3	2021	SOCKEYE	SALTERY LK 259-41	SALTERY LK 259-41		745,395	665,414
4	2021	COHO	LITTLE KITOI LK	KITOI BAY H	600,000		

Schedule B - Section A - Life Stage Information

ID	Brood Year	Species	Ancestral Stock	Donor Stock	Green	Eyed	Emg Fry	Fed Fry	Smolt
1	2020	CHUM	STURGEON R	KITOI BAY H	36,114,489	32,066,494	31,242,070	30,063,418	
2	2020	PINK	BIG KITOI CR	KITOI BAY H	158,368,451	136,304,860	128,363,925	127,883,209	
3	2020	SOCKEYE	SALTERY LK 259-41	KITOI BAY H	505,973	451,280	438,016	423,466	
4	2020	COHO	LITTLE KITOI LK	KITOI BAY H	2,109,114	1,839,193	1,778,055	1,778,055	1,392,548
5	2019	COHO	LITTLE KITOI LK	KITOI BAY H	2,386,399	2,048,758	1,962,616	1,856,647	1,332,880

Schedule B - Section C - Release

ID	Release ID/Tag Code	Brood Year	Species	Ancestral Stock	Donor Stock	Site	Total Released
4	!01212KRAA09	2020	COHO	LITTLE KITOI LK	KITOI BAY H	CRESCENT LK 252-36 (B)	185,386
4	!01212KRAA07	2020	COHO	LITTLE KITOI LK	KITOI BAY H	JENNIFER LK 252-31 (B)	110,062
4	!01212KRAA10	2020	COHO	LITTLE KITOI LK	KITOI BAY H	KATMAI LK 259-10	39,951
4	!01212KRAA08	2020	COHO	LITTLE KITOI LK	KITOI BAY H	RUTH LK 252-30 (B)	40,038
5	!01212KRAA06	2019	COHO	LITTLE KITOI LK	KITOI BAY H	KITOI BAY 252-31	1,332,880
1	!01215KRAA02	2020	CHUM	STURGEON R	KITOI BAY H	KITOI BAY 252-31	15,315,326
1	!01215KRAA01	2020	CHUM	STURGEON R	KITOI BAY H	KITOI BAY 252-31	14,748,092
2	!01216KRAA01	2020	PINK	BIG KITOI CR	KITOI BAY H	KITOI BAY 252-31	127,883,209

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	2,861,944	7,798,057	11,152,108
2	CHUM	STURGEON R	KITOI BAY H	KITOI BAY	177	48,557	110,908
3	COHO	LITTLE KITOI LK	KITOI BAY H	KITOI BAY	9,360	87,729	99,675
4	SOCKEYE	SALTERY LK 259-41	SALTERY CR 103-25	KITOI BAY	685	20,672	22,582

Schedule F - Return

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

2021 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
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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. 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 at eggtake was 36,173,665 and was estimated by taking eggs/gram samples and weighing all egg buckets before activating the eggs.

Entered By

Date Last Modified

Schedule A-2

2021 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)

175,899	females	110,927	males	286,826	total
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- 5. Inviabile broodstock (green/over-ripe/bad)

19,121	females	1,989	males	21,110	total
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- 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
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Total Transfers, Morts, and Culls

- 17. Number of green eggs retained in hatchery
- 18. Number remaining in hatchery at eyed stage

204,177,326	94.498	% survival	<input type="checkbox"/> Override auto calculation
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- 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 eggtake was 216,335,849 and was estimated by taking eggs/gram samples and weighing a portion of the loaded eggtake 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 eggtake shift.

Entered By

Date Last Modified

Schedule A-3

2021 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
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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 A-4

2021 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
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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 eggtake was 600,000. Fecundity appeared lower than normal. Some fish may have been partially spawned out.

Entered By

Date Last Modified

Schedule B-1 2021 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	36,114,489	100	
2. Eyed Eggs	32,066,494	88.79	
3. Emergent Fry	31,242,070	86.51	See section B
4. Fed Fry	30,063,418	83.24	
5. Smolts			

B. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Mortalities	2/18/2021	EMERGENT FRY			Mechanical Failure	1,024,942

Total Transfers, Morts, and Culls

C. Release Information

Release ID/ Tag Code	FTP	Ancestral Stock	Donor Stock	Site	Date Last Released	Life Stage	Total
!01215KRAA02		STURGEON R	KITOI BAY H	KITOI BAY 252-31	6/1/2021	FED FRY	15,315,326
!01215KRAA01		STURGEON R	KITOI BAY H	KITOI BAY 252-31	6/21/2021	FED FRY	14,748,092

Total Released

D. Other

Untagged Release

Annual Report: **2021, SCHEDULE B-1**

Release ID Code: **!01215KRAA02**

General Information

Project Leader:	WACHTER	Species:	CHUM	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2020	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Release Group:	2	Thermal Mark ID:	KITOI20CHUM
Donor Stock:	KITOI BAY H	FTP:	06A-0072(3)	Hatch Code:	3N,2H
Ancestral Stock:	STURGEON R	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):	2.65	Fork Length (mm):		Began:	06/01/2021	Ended:	06/01/2021	15,315,326

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH AS PER TINA FAIRBANKS (JE12/20/21)

Report version: 2021.06.30.0638

Untagged Release

Annual Report: **2021, SCHEDULE B-1**

Release ID Code: **!01215KRAA01**

General Information

Project Leader:	WACHTER	Species:	CHUM	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2020	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Release Group:	1	Thermal Mark ID:	KITOI20CHUMA
Donor Stock:	KITOI BAY H	FTP:	06A-0072(3)	Hatch Code:	4,4,2H
Ancestral Stock:	STURGEON R	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):	1.59	Fork Length (mm):		Began:	05/21/2021	Ended:	06/21/2021	14,748,092

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH AS PER TINA FAIRBANKS (JE12/20/21)

Report version: 2021.06.30.0638

Schedule B-2 2021 ANNUAL FISH CULTURE PRODUCTION REPORT

KITOI BAY

Species

Donor Stock

Brood Year

Ancestral Stock

Continued from to

A. Life Stage Information

	Actual Number	% cum survival	Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments.
1. Green Eggs	158,368,451	100	
2. Eyed Eggs	136,304,860	86.07	
3. Emergent Fry	128,363,925	81.05	
4. Fed Fry	127,883,209	80.75	
5. Smolts			

B. Transfers, Morts, and Culls

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

C. Release Information

Release ID/ Tag Code	FTP	Ancestral Stock	Donor Stock	Site	Date Last Released	Life Stage	Total
!01216KRAA01		BIG KITOI CR	KITOI BAY H	KITOI BAY 252-31	5/25/2021	FED FRY	127,883,209
Total Released							<input type="text" value="127,883,209"/>

D. Other

Untagged ReleaseAnnual Report: **2021, SCHEDULE B-2**

Release ID Code: !01216KRAA01

General Information

Project Leader:	WACHTER	Species:	PINK	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2020	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Release Group:	1	Thermal Mark ID:	KITOI20PINK
Donor Stock:	KITOI BAY H	FTP:	06A-0073(1)	Hatch Code:	2,3H
Ancestral Stock:	BIG KITOI CR	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):	0.84	Fork Length (mm):		Began:	05/25/2021	Ended:	05/25/2021	127,883,209

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH AS PER TINA FAIRBANKS (JE12/20/21)

Report version: 2021.06.30.0638

Schedule B-3 2021 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	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
5. Smolts			

B. Transfers, Morts, and Culls

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

C. Release Information

Release ID/ Tag Code	FTP	Ancestral Stock	Donor Stock	Site	Date Last Released	Life Stage	Total
Total Released							<input type="text"/>

D. Other

Schedule B-4 2021 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	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	1,392,548	66.03	

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

C. Release Information

Release ID/ Tag Code	FTP	Ancestral Stock	Donor Stock	Site	Date Last Released	Life Stage	Total
!01212KRAA09		LITTLE KITOI LK	KITOI BAY H	CRESCENT LK 252-36 (B)	7/28/2021	FED FRY	185,386
!01212KRAA07		LITTLE KITOI LK	KITOI BAY H	JENNIFER LK 252-31 (B)	7/26/2021	FED FRY	110,062
!01212KRAA10		LITTLE KITOI LK	KITOI BAY H	KATMAI LK 259-10	10/15/2021	PRESMOLT	39,951
!01212KRAA08		LITTLE KITOI LK	KITOI BAY H	RUTH LK 252-30 (B)	7/26/2021	FED FRY	40,038

Total Released

D. Other

Bacterial Coldwater Disease was identified in these fish in July of 2021. Medicated feed was prescribed (Florfenicol 15mg/kg fish, 2% BWD) for 10 days. The light amount of mortality that was occurring cleared right up.

Untagged ReleaseAnnual Report: **2021, SCHEDULE B-4**

Release ID Code: !01212KRAA09

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	Release Group:	4	Thermal Mark ID:	KITOI BAY 20
Donor Stock:	KITOI BAY H	FTP:	18A-0024	Hatch Code:	2,2H
Ancestral Stock:	LITTLE KITOI LK	Experimental Class:			

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	WACHTER	Release Stage:	FED FRY
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):	1.05	Fork Length (mm):		Began:	07/26/2021	Ended:	07/28/2021	185,386

Comments: 250 characters max.

ONE FLIGHT ON 07/26/2021 AND TWO FLIGHTS ON 07/28/2021. CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH AS PER TINA FAIRBANKS (JE12/20/21)

Report version: 2021.06.30.0638

Untagged Release

Annual Report: **2021, SCHEDULE B-4**

Release ID Code: **!01212KRAA07**

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	Release Group:	2	Thermal Mark ID:	KITOI BAY20
Donor Stock:	KITOI BAY H	FTP:	18A-0026	Hatch Code:	2,2H
Ancestral Stock:	LITTLE KITOI LK	Experimental Class:			

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	WACHTER	Release Stage:	FED FRY
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):	1.05	Fork Length (mm):		Began:	07/26/2021	Ended:	07/26/2021	110,062

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH AS PER TINA FAIRBANKS (JE12/20/21)

Report version: 2021.06.30.0638

Untagged ReleaseAnnual Report: **2021, SCHEDULE B-4**

Release ID Code: !01212KRAA10

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	Release Group:	5	Thermal Mark ID:	KITOI BAY 20
Donor Stock:	KITOI BAY H	FTP:	18A-0023	Hatch Code:	2,2H
Ancestral Stock:	LITTLE KITOI LK	Experimental Class:			

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	WACHTER	Release Stage:	PRESMOLT
Release Site:	KATMAI LK 259-10	Unmarked Counting Method:	WEIGHT DERIVED
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released				
Weight (g):	5.30	Fork Length (mm):		Began:	10/15/2021	Ended:	10/15/2021	39,951

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAPCH AS PER TINA FAIRBANKS (JE12/20/21)

Report version: 2021.06.30.0638

Untagged Release

Annual Report: 2021, SCHEDULE B-4

Release ID Code: !01212KRAA08

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:	KITOI BAY 20
Donor Stock:	KITOI BAY H	Release Group:	3	Hatch Code:	2,2H
Ancestral Stock:	LITTLE KITOI LK	FTP:	18A-0025	Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	WACHTER	Release Stage:	FED FRY
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):	1.05	Fork Length (mm):		Began:	07/26/2021	Ended:	07/26/2021	40,038

Comments: 250 characters max.

CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH AS PER TINA FAIRBANKS (JE12/20/21)

Report version: 2021.06.30.0638

Schedule B-5 2021 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	2,386,399	100	2,305,114 eggs estimated at egg take. 2,386,399 green eggs actual at egg pick
2. Eyed Eggs	2,048,758	85.85	57,600 eggs culled for BKD (single family tracking) before egg pick
3. Emergent Fry	1,962,616	82.24	
4. Fed Fry	1,856,647	77.80	495,277 released in 2020
5. Smolts	1,332,880	55.85	

B. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Culled	1/7/2020	EYED EGG			BKD - Bacterial Kidney Disease	57,600

Total Transfers, Morts, and Culls

C. Release Information

Release ID/ Tag Code	FTP	Ancestral Stock	Donor Stock	Site	Date Last Released	Life Stage	Total
!01212KRAA06		BUSKIN+L KITOI LK	KITOI BAY H	KITOI BAY 252-31	6/8/2021	SMOLT	1,332,880

Total Released

D. Other

Untagged Release

Annual Report: **2021, SCHEDULE B-5**

Release ID Code: **!01212KRAA06**

General Information

Project Leader:	WACHTER	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2019	Release Type:	PRODUCTION
Division/Section:		Adult Run:	FALL	Mark Type:	TM
Facility:	KITOI BAY	Release Group:	1	Thermal Mark ID:	KITOI BAY 19
Donor Stock:	KITOI BAY H	FTP:	18A-0022	Hatch Code:	3,6H
Ancestral Stock:	BUSKIN+L KITOI LK	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):	15.66	Began:	06/08/2021	Ended:	06/08/2021	1,332,880
Fork Length (mm):						

Comments: 250 characters max.

WE ENDED UP MARKING ALL OF THE BROOD YEAR 2019 COHO SALMON INSTEAD OF 500,000. CHANGED PROJECT LEADER AND RELEASE SUP FROM KRAAKBH AS PER TINA FAIRBANKS (JE12/20/21)

Report version: 2021.06.30.0638

Schedule C-1

2021 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	2,861,944
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	432,107
3. Escapement for hatchery watershed (as required in permit)	60,000
4. Jacks	
5. Other (annotate for each Other escapement return)	Other escapement Other escapement comment
6. Total hatchery escapement	3,354,051

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	
b. Gillnet	
c. Seine	7,798,057
d. Other (annotate for each Other commercial return)	Other commercial Other commercial comment
Total Commercial Harvest	7,798,057

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)	7,798,057
10. Total Return (sum 6 and 9)	11,152,108

11. Estimated ocean survival by brood year				
Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)	
2019	11,169,094	6.37	Yes	
Total Ocean Survival				11,169,094

Total Ocean Survival

Harvest Comments

12. Disposition of Hatchery Escapement

a. Traditional harvest fish		# fish sold	lbs fish		
	adults	2,844,958	744,269		
	jacks				
	total	2,844,958	744,269		
b. Roe-recovery fish		# fish	lbs fish	lbs roe	
	Sold	16,986	35,671	6,441	
	Donated				
	Disposed				
	total number of fish	16,986	35,671	6,441	
c. Carcasses		# Sold	# Donated	# Disposed	Total
	Spawners	372,788		18,492	391,280
	Other (annotate in comments)				
	total number of fish	372,788		18,492	391,280
	total pounds	782,854		38,833	821,687

Disposition Comments

Schedule C-2

2021 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	177
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	61,346
3. Escapement for hatchery watershed (as required in permit)	828
4. Jacks	
5. Other (annotate for each Other escapement return)	Other escapement Other escapement comment
6. Total hatchery escapement	62,351

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	
b. Gillnet	
c. Seine	48,557
d. Other (annotate for each Other commercial return)	Other commercial Other commercial comment
Total Commercial Harvest	48,557
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)	48,557
10. Total Return (sum 6 and 9)	110,908

11. Estimated ocean survival by brood year

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2016	233	0.51	Yes
2017	93,433	0.56	No
2018	17,242	0.06	No

Total Ocean Survival

110,908

Harvest Comments

12. Disposition of Hatchery Escapement

a. Traditional harvest fish	# fish sold	lbs fish	
	adults	177	
	jacks		
	total	177	
b. Roe-recovery fish	# fish	lbs fish	lbs roe
	Sold		
	Donated		
	Disposed		
	total number of fish		
c. Carcasses	# Sold	# Donated	# Disposed
	Spawners		61,346
	Other (annotate in comments)		
	total number of fish		61,346
	total pounds		

Disposition Comments

Schedule C-3

2021 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	9,360
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	2,112
3. Escapement for hatchery watershed (as required in permit)	20
4. Jacks	454
5. Other (annotate for each Other escapement return)	Other escapement Other escapement comment
6. Total hatchery escapement	11,946

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	
b. Gillnet	
c. Seine	87,679
d. Other (annotate for each Other commercial return)	Other commercial Other commercial comment
Total Commercial Harvest	87,679

8. Noncommercial Harvest

a. Sport	50
b. Personal Use	
c. Subsistence	
d. Other (annotate for each Other noncommercial return)	Other noncommercial Other noncommercial comment
Total Noncommercial Harvest	50

9. Total Common Property Harvest (sum 7 and 8) 87,729

10. Total Return (sum 6 and 9) 99,675

11. Estimated ocean survival by brood year	Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
	2018	99,675	9.3	Yes

Total Ocean Survival 99,675

Harvest Comments

12. Disposition of Hatchery Escapement

a. Traditional harvest fish		# fish sold	lbs fish		
	adults	9,360	65,603		
	jacks				
	total	9,360	65,603		
b. Roe-recovery fish		# fish	lbs fish	lbs roe	
	Sold				
	Donated				
	Disposed				
	total number of fish				
c. Carcasses		# Sold	# Donated	# Disposed	Total
	Spawners			1,990	1,990
	Other (annotate in comments)				
	total number of fish			1,990	1,990
	total pounds				

Disposition Comments

Schedule C-4

2021 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	685
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	
3. Escapement for hatchery watershed (as required in permit)	1,225
4. Jacks	
5. Other (annotate for each Other escapement return)	Other escapement Other escapement comment
6. Total hatchery escapement	1,910

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	
b. Gillnet	
c. Seine	20,672
d. Other (annotate for each Other commercial return)	Other commercial Other commercial comment
Total Commercial Harvest	20,672
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)	20,672
10. Total Return (sum 6 and 9)	22,582

11. Estimated ocean survival by brood year

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2015	426	2.8	Yes
2016	7,669	4.9	No
2017	14,487	2.3	No
2018		0	No

Total Ocean Survival

22,582

Harvest Comments

12. Disposition of Hatchery Escapement

a. Traditional harvest fish		# fish sold	lbs fish		
	adults	685	3,259		
	jacks				
	total	685	3,259		
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 D-1
PROJECTED RETURNS FOR 2022

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	2016	2019	KITOI BAY 252-31	136,358	109,086	163,629
CHUM					136,358	109,086	163,629
FALL	COHO	2018	2018	KITOI BAY 252-31	154,187	123,350	185,024
COHO					154,187	123,350	185,024
SUMMER	PINK	2019	2019	KITOI BAY 252-31	4,907,589	3,680,692	6,134,486
PINK					4,907,589	3,680,692	6,134,486
SUMMER	SOCKEYE	2016	2019	LITTLE KITOI BAY 252-31	15,218	12,175	18,262
SUMMER	SOCKEYE	2016	2019	OUZINKIE BOAT HARBOR 259	2,226	1,781	2,671
SOCKEYE					17,444	13,956	20,933

COMMENTS:

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