### **2022 ANNUAL REPORT**

### ALASKAN SALMON HATCHERY

Year ending December 15, 2022

Hatchery name/Location **KITOI BAY** 

Permit holder	name/Address	Trenten [



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	СНИМ	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	СОНО	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	СНИМ	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	соно	LITTLE KITOI LK	KITOI BAY H	662,661	557,470	541,000	424,360	
5	2020	соно	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	соно	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	СНИМ	STURGEON R	KITOI BAY H	KITOI BAY 252-31	15,401,486
1	!01225KRAA02	2021	СНИМ	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	СНИМ	STURGEON R	KITOI BAY H	KITOI BAY	271	114,356	175,929
3	СОНО	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							

#### Schedule F - Return

ID	Species	Stock	Project	Cost Recovery	Comm Property	Total Return
----	---------	-------	---------	---------------	---------------	--------------

### 2022 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

									I	ΚΙΤΟΙ ΒΑΥ
		Co	ontinued to							
1.	Species			CHUM						
2.	Donor stock			ΚΙΤΟΙ ΒΑ	ΥH					
3.	Ancestral stock			STURGE	ON R					
4.	Viable broodstock (spawne	ed, eggs in i	ncubators)		20,238	females	26,525	males	46	6,763 total
5.	. Inviable broodstock (green/over-ripe/bad)				1,082	females	555	males		1,637 total
6.	Unspawned fish (roe recov	very, excess	males)		5,966	]				
7.	Holding mortalities (racewa	ay, pen mort	alities)		5,409	]				
8.	Adults sacrificed for broods	stock (sum 4	1 thru 7)		59,775	]				
9.	Average length and weight	of adults us	sed for broo	odstock						
			Females			mm		kg		
			Males			mm		kg		
10.	Average fecundity (eggs/fe			1,768	□ ov	erride auto calculation	۱			
11.	Egg-take dates (first date)			C	)7/15/2022	]				
12.	Egg-take dates (last date)			C	8/03/2022					
13.	Number of green eggs take	en		3	35,781,557	]				
14-16.	Transfers, Morts, and Culls	3								
	Transfer Type	Date	Life S	tage	FTP	Directio	on Site/I	Discard C	Cause	Total
						Tota	l Transfers, Morts, an	d Culls		
17.	Number of green eggs reta	ained in hato	hery	3	35,781,557	]				
18.	Number remaining in hatch	nery at eyed	stage	3	31,057,147	86.797	% survival 🛛 Ove	rride au	to calculation	
19.	Describe procedures used	for egg take	es and eval	uation of in	-hatchery	survivals:	•			
	ry spawning method used. eggs once inventoried at e estimated by taking eggs/g	gg pick and	includes se	eeded eggs	s and morta	ality/disca	rded eggs. The estim			
		E	Entered By	KRAAHQ		]	Date Last Modified	12/15/2	2022 9:29:35 AI	м

### 2022 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

								ŀ	(ITOI I	BAY
	Co	ontinued to				]				
1.	Species		PINK							
2.	Donor stock		KITOI BAY	Ή						
3.	Ancestral stock		BIG KITOI	CR						
4.	Viable broodstock (spawned, eggs in i	ncubators)		138,995	females	73,586	6 males	212	2,581	total
5.	Inviable broodstock (green/over-ripe/b	ad)		4,753	females	947	7 males	5	5,700	total
6.	Unspawned fish (roe recovery, excess	males)		66,650			_			
7.	Holding mortalities (raceway, pen mort	alities)		30,993						
8.	Adults sacrificed for broodstock (sum 4	1 thru 7)		315,924						
9.	Average length and weight of adults us	sed for broc	dstock							
		Females			mm	0.9	5 kg			
		Males			mm	0.9	5 kg			
10.	Average fecundity (eggs/female)			1,540		verride auto calculatio	_ on			
11.	Egg-take dates (first date)		0	9/03/2022						
12.	Egg-take dates (last date)		0	9/16/2022						
13.	Number of green eggs taken		21	3,986,683						
14-16.	Transfers, Morts, and Culls									
	Transfer Type Date	Life S	tage	FTP	Directi	ion Site	/Discard (	Cause	Tota	al
			- 1	1	Tota	al Transfers, Morts, a	nd Culls			
17.	Number of green eggs retained in hato	herv	21	3,986,683		,,,,,,,				
	Number remaining in hatchery at eyed				93 471	]% survival □ Ov	erride au	ito calculation		
	Describe procedures used for egg take	0		, ,		1				
10.	Dry spawning method used. Eggs are			,			water ha	rdening takes nl	ace l	ine
	#13 is number of eggs once inventorie eggs at egg take was estimated by tak number of eggs per bucket. The avera shift.	ed at egg pie king eggs/gi	ck and inclu ram sample	ides seede s and weig	d eggs a hing a p	and mortality/discarde	ed eggs. egg take	The estimated n buckets to get a	umbei n aver	r of age
	E	Entered By	KRAAHQ			Date Last Modifie	12/15/	2022 9:31:03 AN	Λ	

### 2022 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

							_			KITOI BAY
		Co	ontinued to							
1.	Species			SOCKEY	Έ					
2.	Donor stock			SALTER	Y LK 259-41					
3.	Ancestral stock			SALTER	Y LK 259-41					
4.	Viable broodstock (sp	awned, eggs in i	ncubators)			female	es	n	nales	total
5.	Inviable broodstock (green/over-ripe/bad)					female	es 📃	n	nales	total
6.	Unspawned fish (roe i	recovery, excess	males)							
7.	Holding mortalities (ra	iceway, pen mor	talities)							
8.	Adults sacrificed for b	roodstock (sum	4 thru 7)							
9.	Average length and w	eight of adults u	sed for broc	dstock						
			Females			mm		k	g	
			Males			mm		k	g	
10.	Average fecundity (eg	lgs/female)					Override aut	to calculation		
11.	Egg-take dates (first o	late)								
12.	Egg-take dates (last d	late)								
13.	Number of green eggs	s taken								
14-16.	Transfers, Morts, and	Culls								
	Transfer Type	Date	Life St	tage	FTP		Direction	Site/Di	scard Cause	Total
	Transferred	9/15/2022	GREEN EG	G	17A-0045	FR	OM	SALTERY LK	259-41	775,000
						То	tal Transfer	s, Morts, and	Culls	775,000
17.	Number of green eggs	s retained in hate	chery		774,416					
18.	Number remaining in	hatchery at eyed	stage		707,842	91.40	3 % surviv	al 🛛 Overr	ide auto calculatior	ı
19.	Describe procedures	used for egg tak	es and eval	uation of i	n-hatchery s	urvival	s:			
	Eggs collected at Salt Lake directly to KBH.								d, then transferred	from Saltery
		I	Entered By	KRAAHQ	)		Date La	ast Modified	12/15/2022 9:31:46	AM



										к	ITOI BAY
		Co	ontinued to								
1.	Species			соно							
2.	Donor stock			ΚΙΤΟΙ ΒΑ	AY H						
3.	Ancestral stock			LITTLE K	KITOI LK						
4.	Viable broodstock (spawne	d, eggs in i	ncubators)		806	females		528	males	1,	,334 total
5.	Inviable broodstock (green/	over-ripe/b	ad)		79	females		4	males		83 total
6.	Unspawned fish (roe recov	ery, excess	males)		7,643	]					
7.	Holding mortalities (racewa	y, pen mort	alities)		54	]					
8.	Adults sacrificed for broods	tock (sum 4	1 thru 7)		9,114	]					
9.	Average length and weight	of adults us	sed for broc	dstock		-					
			Females			mm			kg		
			Males			mm			kg		
10.	Average fecundity (eggs/fe			2,854	□ ov	rride	auto calculatio	n			
11.	Egg-take dates (first date)				11/17/2022	]					
12.	Egg-take dates (last date)				11/22/2022	]					
13.	Number of green eggs take	en			2,300,000	]					
14-16.	Transfers, Morts, and Culls										
	Transfer Type	Date	Life St	tage	FTP	Directio	on	Site/	Discard C	Cause	Total
						Tota	l Trans	fers, Morts, an	d Culls		
17.	Number of green eggs reta	ined in hato	hery			]			-		
18.	Number remaining in hatch	ery at eyed	stage				% sur	vival 🛛 Ove	rride aut	to calculation	
19.	Describe procedures used	for egg take	es and eval	uation of i	n-hatchery	survivals:					
	Dry spawning method used loading into incubators. Ea 2,300,000. Fecundity appe	ch hen's eg	gs are kept	separate	for single fa	mily track	king. Tl	he estimated n			
		E	Entered By	KRAAHG			Date	Last Modified	12/15/2	2022 9:32:55 AM	

### Schedule B-1 2022 ANNUAL FISH CULTURE PRODUCTION REPORT

					KITOI BAY
Species	СНИМ	Donor Stock	KITOI BAY H	Brood Year	2021
		Ancestral Stock	STURGEON R		
		Continued from	2021, A-1 to		

#### A. Life Stage Information

Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments. Acutal Number % cum survival 1. Green Eggs 36,313,632 100 2. Eyed Eggs 92 33,408,266 3. Emergent Fry 89.95 32,664,303 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
				Tota	I 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

5/24/23, 8:28 AM

24/20, 0.207 W			https://fitala	is.aaig.aabita.gov/i	
Untagged Re	lease	Annual Report:	2022, SCHEDULE B-1		
Release ID Code:	!01225KRAA01	]			
General Informat	lion				
Project Leader:	WACHTER	Species:	СНИМ	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2021	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	ТМ
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:	
Untagged Releas	se Information				
Release Super	visor: WACHTER		Release Stage	: FED FRY	
Release	Site: KITOI BAY 252-31		Unmarked Counting Method	: WEIGHT DERIVE	D
Anadromous Strea	am #:		Expected Survival	NORMAL	
Si	ze at Release		Release Dates		Total Fish Released
Weight (g): 1.5	6 Fork Length (mm):	Began:	05/19/2022 Ended:	05/19/2022	15,401,486
Comments: 250 ch	aracters max.				
CHANGED PROJ	ECT LEADER AND RELEASE	SUP FROM KRAA	PCH (JE 12/28/2022)		
Report version: 202	3.01.09.1102				

5/24/23, 8:28 AM

-4/20, 0.20 AM			https://ittale	is.aaig.aidska.gov/i	
Untagged Re	lease	Annual Report:	2022, SCHEDULE B-1		
Release ID Code:	!01225KRAA02	]			
General Informat	lion				
Project Leader:	WACHTER	Species:	СНИМ	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2021	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	ТМ
Facility:	KITOI BAY	1		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:	
Untagged Releas			Release Stage	: FED FRY	
Release			Unmarked Counting Method		 ח
Anadromous Stre			Expected Survival		-
	ze at Release		Release Dates		Total Fish Released
Weight (g): 2.9	2 Fork Length (mm):	Began:	06/01/2022 Ended:	06/01/2022	17,050,721
	aracters max. SITIVE FOR VIBRIO AFTER F MPLES WERE SENT TO STA				
Report version: 202	3.01.09.1102				

2022 ANNUAL FISH CULTURE PRODUCTION REPO	RT
--	----

				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

Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments. Acutal Number % cum survival 1. Green Eggs 216,065,572 100 2. Eyed Eggs 94.50 204,177,326 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

5/24/23, 8:28 AM

Untagged Re	elease	Annual Report:	2022, SCHEDULE B-2	]	
Release ID Code:	!01226KRAA01				
General Informa	tion				
Project Leader:	WACHTER	Species:	PINK	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2021	Release Type:	PRODUCTION
Division/Section:		Adult Run:	FALL	Mark Type:	ТМ
Facility:	KITOI BAY			Thermal Mark ID:	KITOI21PINK
Donor Stock:	KITOI BAY H	Release Group:	1	Hatch Code:	2,3H
		FTP:	22A-0004	Experimental Class:	
Ancestral Stock:	ative: 250 characters max.				
	ative: 250 characters max.				
Experimental Narr	ative: 250 characters max. se Information		Release Stage		
Experimental Narr	ative: 250 characters max. se Information rvisor: WACHTER			e: FED FRY	D
Experimental Narr Untagged Relea Release Supe	ative: 250 characters max. se Information rvisor: WACHTER e Site: KITOI BAY 252-31		Release Stage	e: FED FRY d: WEIGHT DERIVE	D
Experimental Narr Untagged Relea Release Supe Release Anadromous Stre	ative: 250 characters max. se Information rvisor: WACHTER e Site: KITOI BAY 252-31		Release Stage Unmarked Counting Method	e: FED FRY d: WEIGHT DERIVE	D Total Fish Released
Experimental Narr Untagged Relea Release Supe Release Anadromous Stre	ative: 250 characters max. se Information rvisor: WACHTER e Site: KITOI BAY 252-31 am #:		Release Stage Unmarked Counting Method Expected Surviva	e: FED FRY d: WEIGHT DERIVE	
Experimental Narr Untagged Relea Release Supe Release Anadromous Stre	ative: 250 characters max. se Information rvisor: WACHTER e Site: KITOI BAY 252-31 am #: ize at Release Fork Length (mm):		Release Stage Unmarked Counting Methoo Expected Surviva Release Dates	e: FED FRY d: WEIGHT DERIVE I: NORMAL	Total Fish Released

2022 ANNUAL FISH CULTURE PRODUCTION REPORT
--

						KITOI BAY
Species	SOCKEYE	Donor Stock	KITOI BAY H		Brood Year	2020
		Ancestral Stock	SALTERY LK 259-4	1		
		Continued from	2021, B-3	to		

#### A. Life Stage Information

Annotate transfers between hatcheries, significant mortalities, or provide other descriptive comments. Acutal Number % cum survival 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) 442,874 87.53 5. Smolts

#### B. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
				Tota	l 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 Release	ed 🗌	405.414

D. Other

https://mtalab.adfg.alaska.gov/FMPD/ReleaseReport.aspx?rid=1094

Annual Report: 2022, SCHEDULE B-3

Release ID Code: 101224KRAA06

#### **General Information**

Project Leader:	WACHTER	Species:	SOCKEYE	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2020	Release Type:	EXPERIMENTAL
Division/Section:		Adult Run:		Mark Type:	ТМ
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): Beg	an: 06/02/2022 Ended:	06/02/2022 70,777			
Comments: 250 characters max.						
			ASE SUP FROM KRAAKBH. CHANGED			
		CIATED WITH RELEASE !01224KRA				
ORIGINALLY REPORTE	D TOGETHER (108,237) BUT SPLIT	SINCE NOT ALL WERE MARKED. (	JE 12/30/22)			

Report version: 2023.01.09.1102

5/

4/23, 8:28 AM			https://mtal	ab.adfg.alaska.gov/F	MPD/ReleaseReport.a
Untagged Re	lease	Annual Report:	2022, SCHEDULE B-3	]	
Release ID Code:	!01224KRAA05	]			
General Informat	tion				
Project Leader:	WACHTER	Species:	SOCKEYE	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2020	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	ТМ
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:	
Untagged Releas Release Super Release	visor: WACHTER	31	Release Stage Unmarked Counting Method		D
Anadromous Strea	am #: 252-31-10030-0010		Expected Surviva	al: NORMAL	
Si	ize at Release		Release Dates		Total Fish Released
Weight (g): 18.4	47 Fork Length (mm):	Began:	06/02/2022 Ended:	06/03/2022	284,679
Comments: 250 ch	aracters max.				
CHANGED PROJ	ECT LEADER AND RELEASE	SUPERVISOR FR	OM KRAAKBH (JE 12/30/22	)	
Report version: 202					

5/24/23, 8:28 AM

720, 0.207 W					
Intagged Re	elease	Annual Report:	2022, SCHEDULE B-3		
Release ID Code:	!01224KRAA03				
General Informa	tion				
Project Leader:	WACHTER	Species:	SOCKEYE	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2020	Release Type:	OTHER
Division/Section:		Adult Run:	SUMMER	Mark Type:	ТМ
Facility:	KITOI BAY			Thermal Mark ID:	KITOI20
Donor Stock:	KITOI BAY H	Release Group:	1	Hatch Code:	5,4H
Donor Slock:				i	Г
Ancestral Stock:	SALTERY LK 259-41	FTP:	16A-0038(1)	Experimental Class:	
Ancestral Stock:	ative: 250 characters max.	FTP:	16A-0038(1)	Experimental Class:	
Ancestral Stock: Experimental Narra	ative: 250 characters max.	FTP:	16A-0038(1) Release Stage		
Ancestral Stock: Experimental Narra Untagged Releas	ative: 250 characters max. se Information visor: WACHTER			e: SMOLT	D
Ancestral Stock: Experimental Narra Untagged Releas Release Super	ative: 250 characters max. se Information visor: WACHTER e Site: OUZINKIE BOAT H/		Release Stage	e: SMOLT t: WEIGHT DERIVEI	D
Ancestral Stock: Experimental Narra Untagged Release Release Super Release Anadromous Stre	ative: 250 characters max. se Information visor: WACHTER e Site: OUZINKIE BOAT H/		Release Stage Unmarked Counting Method	e: SMOLT t: WEIGHT DERIVEI	D Total Fish Released
Ancestral Stock: Experimental Narra Untagged Release Release Super Release Anadromous Stre	ative: 250 characters max.  se Information  visor: WACHTER  a Site: OUZINKIE BOAT H/ am #:  ize at Release	ARBOR 259	Release Stage Unmarked Counting Method Expected Surviva	e: SMOLT t: WEIGHT DERIVEI	
Ancestral Stock: Experimental Narra Untagged Releas Release Super Release Anadromous Stre	ative: 250 characters max. se Information visor: WACHTER e Site: OUZINKIE BOAT H/ am #: ize at Release 45 Fork Length (mm): [	ARBOR 259	Release Stage Unmarked Counting Methor Expected Surviva Release Dates	e: SMOLT d: WEIGHT DERIVEI l: NORMAL	Total Fish Released

### Schedule B-4 2022 ANNUAL FISH CULTURE PRODUCTION REPORT

					KITOI BAY
Species	СОНО	Donor Stock	KITOI BAY H	Brood Year	2021
		Ancestral Stock	LITTLE KITOI LK		
		Continued from	2021, A-4 to		

#### A. Life Stage Information

Annotate transfers between hatcheries, significant mortalities, or **Acutal Number** % cum survival provide other descriptive comments. 1. Green Eggs 662,661 100 557,470 84.13 2. Eyed Eggs 3. Emergent Fry 81.64 541,000 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

### 2022 ANNUAL FISH CULTURE PRODUCTION REPORT

					KITOI BAY
Species	СОНО	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	

#### 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 P		1 206 025

Total Released 1,386,835

D. Other

ReleaseReport.aspx?rid=1094

	lease	Annual Report:	2022, SCHEDULE B-5		
Release ID Code:	!01222KRAA05	]			
General Informat	ion				
Project Leader:	WACHTER	Species:	СОНО	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2020	Release Type:	PRODUCTIC
Division/Section:		Adult Run:	FALL	Mark Type:	ТМ
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:	
	tive: 250 characters max.				
Untagged Releas					
Untagged Releas			Release Stag	e: SMOLT	
			Release Stag Unmarked Counting Metho		D
Release Superv	Site: KITOI BAY 252-31		6	d: WEIGHT DERIVE	D
Release Super Release Anadromous Strea	Site: KITOI BAY 252-31		Unmarked Counting Metho	d: WEIGHT DERIVE	
Release Super Release Anadromous Strea	Site: KITOI BAY 252-31 am #: ze at Release	Began:	Unmarked Counting Metho Expected Surviva	d: WEIGHT DERIVE	D Total Fish Re 1,386,83

Report version: 2023.01.09.1102

### Schedule C-1 2022 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

							KITOI BAY
	Species PINK	Donor Stock KIT	OI BAY H		Pro	ject KITO	BAY
		Ancestral Stock BIG	KITOI CR				
A.	Hatchery Escapement						
1.	Cost-recovery (line 12a & 12b): traditiona	al harvest and roe-recovery fis	sh		929,12	26	
2.	Adults sacrificed as broodstock (Schedu	le A line 8) minus roe-recovery	y fish (12b)		311,27	74	
3.	Escapement for hatchery watershed (as	required in permit)			25,00	00	
	Jacks						
5.	Other (annotate for each Other escapem	ent return)		Other escape	ement	Other esca	apement comment
6.	Total hatchery escapement				1,265,40	00	
	Other Comments						
	Common Property Harvest						
7.	Commercial Harvest			Г		_	
	a. Troll b. Gillnet					4	
	c. Seine				2,745,28	26	
	d. Other (annotate for each Other comm	ercial return)		Other comm			mercial comment
						_	
0	Total Commercial Harvest				2,745,28	30	
0.	a. Sport			[			
	b. Personal Use					=	
	c. Subsistence					=	
	d. Other (annotate for each Other nonco	mmercial return)		Other noncom	mercial	 Other nonco	mmercial 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
	Estimated ocean survival by brood year		Brood	Total # in Run,	Cumulativ	/e Ocean	Complete Return
			Year	Current Year	Surviv	al (%)	(yes or no)
			2021	4,015,336		3.1	Yes
	Total Ocean Survival				4,015,33	36	
	Harvest Comments						
12.	Disposition of Hatchery Escapement		# 6 - I I-I	lle a fiale			
	a. Traditional harvest fish	adulta	# fish sold	Ibs fish			
		adults jacks	924,476	3,108,3	99		
		total	924,476	3,108,3	99		
	b. Roe-recovery fish		# fish	lbs fish		os roe	
	,,,,,	Sold	4,650			1,824	]
		Dontated				,	1
		Disposed					]
		total number of fish	4,650	11,4		1,824	]
	c. Carcasses		# Sold	# Donated	# D	isposed	Total
		Spawners	272,634			38,730	311,364
	Oth	er (annotate in comments)					

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

Total

### Schedule C-2 2022 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

					KITOI BAY
	tock KITOI BAY H		Pro	ject KITC	DI BAY
Ancestral S	tock STURGEON R				
A. Hatchery Escapement					
1. Cost-recovery (line 12a & 12b): traditional harvest and roe-rec	covery fish		27	1	
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe	-recovery fish (12b)		59,77	5	
3. Escapement for hatchery watershed (as required in permit)			1,52	7	
4. Jacks					
5. Other (annotate for each Other escapement return)		Other escap	ement	Other esc	apement comment
6. Total hatchery escapement			61,57	3	
Other Comments				-	
B. Common Property Harvest					
7. Commercial Harvest				-	
a. Troll				4	
b. Gillnet c. Seine			114.35		
d. Other (annotate for each Other commercial return)			,	_	
		Other com		_	nmercial comment
Total Commercial Harvest			114,35	6	
8. Noncommercial Harvest		<b></b>		-	
a. Sport b. Personal Use				4	
c. Subsistence				4	
d. Other (annotate for each Other noncommercial return)		Other noncor	mercial	)ther nonc	ommercial comment
Total Noncommercial Harvest					ommercial comment
9. Total Common Property Harvest (sum 7 and 8)				J	114,356
10. Total Return (sum 6 and 9)					175,929
11. Estimated ocean survival by brood year	Brood	Total # in Run.	Cumulativ		Complete Return
	Year	Current Year	Surviva		(yes or no)
	2017	22,871			No
	2018	140,743			No
	2019	12,315			No
Total Ocean Survival			175,92	9	
Harvest Comments					
12. Disposition of Hatchery Escapement					

#### # fish sold lbs fish 271 1,626 a. Traditional harvest fish adults jacks 1,626 271 total b. Roe-recovery fish # fish lbs fish lbs roe Sold Dontated Disposed total number of fish # Disposed c. Carcasses # Sold # Donated

### https://mtalab.adfg.alaska.gov/FMPD/ReleaseReport.aspx?rid=1094

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** 

2022 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

11. Estimated ocean survival by brood year       Brood Total # in Run, Cumulative Ocean Complete Return (yes or no)         2018       22,430       2         Total Ocean Survival       22,430       2         Harvest Comments       22,430       2         It. Disposition of Hatchery Escapement         a. Traditional harvest fish       adults       2         jacks       2       2         b. Roe-recovery fish       # fish       Ibs fish         b. Roe-recovery fish       # fish       Ibs fish         c. Carcasses       # Sold       2         total number of fish       2       2         year       22,430       2         year       2       2         year       3       3         yea								KITOI BAY	
A Hathery Escapement  1. Cost-recovery (line 12a & 12b): traditional harvest and roe-recovery fish 2. Adults acrifted as brodstock (Schedule A line 8) minus roe-recovery fish (12b) 2. Seapement for hatchery watershed (as required in permit) 4. Jacks 5. Other (annotate for each Other escapement return) Cother commercial Harvest 3. Commercial Harvest 3. Sort 5. Commercial Harvest 3. Sort 5. Personal Use 5. Subsistence 4. Other each Other noncommercial return) Cother consomercial Harvest 5. Personal Use 5. Subsistence 4. Other noncommercial return) Cother consomercial Harvest 5. Personal Use 5. Subsistence 5. Carcasses  4. Traditional harvest fish 5. Carcasses  4. Traditional harvest fish 5. Roe-recovery fish 5. Roe-		Species COHO	Donor Stock KIT	OI BAY I	H		Project KITC	DI BAY	
1 Costreovery (line 12e & 12b); traditional harvest and roe-recovery fish 12b) 2. Scaugement for hatchery watershed (as required in permit) 3. Scaogement for hatchery escapement return) 3. Total hatchery escapement 0ther escapement comment. 5. Total hatchery escapement 0ther escapement comment. 5. Total hatchery escapement 0ther commercial Harvest a. Trol b. Gillent c. Seline d. Other (annotate for each Other commercial return) 0ther commercial Harvest a. Trol b. Gillent c. Seline d. Other (annotate for each Other commercial return) Total Commercial Harvest a. Sport b. Personal Use c. Subsistence d. Other noncommercial return) Total Commercial Harvest a. Sport b. Personal Use c. Subsistence 11. Estimated ocean survival Harvest (sum 7 and 8) 12. Total Neuron Property Harvest (sum 7 and 8) 13. Total Return (sum 6 and 9) 14. Estimated ocean survival by brood year Total Ocean Survival Harvest Comments 15. Disposition of Hatchery Escapement a. Traditional harvest fish a. Traditional harvest fish a. Traditional harvest fish c. Carcasses # Sold # Sold # Donated # Sold # Donated # Disposed 15. Sold 15. Stail 15. Sold 15. Sold 15			Ancestral Stock LIT	TLE KIT	OLK				
B. Common Property Harvest         7. Commercial Harvest         a. Troll         b. Gillnet         c. Seine         d. Other (annotate for each Other commercial return)         Total Commercial Harvest         a. Sport         b. Personal Use         c. Subsistence         d. Other (annotate for each Other noncommercial return)         Total Commercial Harvest         a. Sport         b. Personal Use         c. Subsistence         d. Other (annotate for each Other noncommercial return)         Total Common Property Harvest (sum 7 and 8)         9. Total Common Property Harvest (sum 7 and 8)         9. Total Coean Survival         Harvest Comments         2018       22,430         22,430       2         Yeas         Total Ocean Survival       22,430         Harvest Comments       22,430         L       Disposition of Hatchery Escapement         a. Traditional harvest fish       adults         jacks       itsi         b. Roe-recovery fish       # fish         b. Roe-recovery fish       # fish         c. Carcasses       # Sold	1. 2. 3. 4. 5.	Cost-recovery (line 12a & 12b): traditional Adults sacrificed as broodstock (Schedul Escapement for hatchery watershed (as Jacks Other (annotate for each Other escapement <b>Total hatchery escapement</b>	e A line 8) minus roe-recov required in permit)		12b)	Cother escap	3,886 ement Other esca	pement comment	
7. Commercial Harvest a. Troll b. Gillnet c. Seine d. Other (annotate for each Other commercial return) Total Commercial Harvest a. Sport b. Personal Use c. Subsistence d. Other (annotate for each Other noncommercial return) Other noncommercial Other noncommercial comment Total Noncommercial Harvest a. Sport b. Other (annotate for each Other noncommercial return) Other noncommercial Other noncommercial comment d. Other (annotate for each Other noncommercial return) Other noncommercial Other noncommercial comment a. Sport b. Personal Use c. Subsistence d. Other (annotate for each Other noncommercial return) Other noncommercial Other noncommercial comment othal Comperty Harvest (sum 7 and 8) Othal Return (sum 6 and 9) Total Return (sum 6 and 9) Total A Return (sum 6 and 9) Total A Return (sum 6 and 9) Total Z2,430 Total Comments Total Ocean Survival Harvest Comments Total Ocean Survival Harvest Comments Commen									
8. Noncommercial Harvest a. Sport b. Personal Use c. Subsistence d. Other (annotate for each Other noncommercial return) Other noncommercial Marvest 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. Total Return (sum 6 and 9) 11. Estimated ocean survival by brood year Total Ocean Survival by brood year Total Ocean Survival Harvest Comments  Total Ocean Survival Harvest fish a. Traditional harvest fish a. Traditional harvest fish b. Roe-recovery fish c. Carcasses H Sold Spawners 9. Sold H Donated Disposed Spawners 9. Sold H Donated Disposed Spawners 9. Sold H Donated H J Sonate H Sold H Donated H Sold H Donated H J Sonate H Sold H Donated H J Sonate H Sold H Donated H J Sonate H J Sold H Donated H J Sonate H J Sold H J Sonate H J Sonate H J Sold H J Sonate H J S		Commercial Harvest a. Troll b. Gillnet c. Seine	ercial return)			Other comm	-,	mercial comment	
8. Noncommercial Harvest a. Sport b. Personal Use c. Subsistence d. Other (annotate for each Other noncommercial return) Other noncommercial Marvest 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. Total Return (sum 6 and 9) 11. Estimated ocean survival by brood year Total Ocean Survival by brood year Total Ocean Survival Harvest Comments  Total Ocean Survival Harvest fish a. Traditional harvest fish a. Traditional harvest fish b. Roe-recovery fish c. Carcasses H Sold Spawners 9. Sold H Donated Disposed Spawners 9. Sold H Donated Disposed Spawners 9. Sold H Donated H J Sonate H Sold H Donated H Sold H Donated H J Sonate H Sold H Donated H J Sonate H Sold H Donated H J Sonate H J Sold H Donated H J Sonate H J Sold H J Sonate H J Sonate H J Sold H J Sonate H J S		Total Commercial Harvest					9.430		
Total Noncommercial Harvest	8.	a. Sport b. Personal Use c. Subsistence	mmercial return)			Other noncom	mercial Other nonco	mmercial comment	
9. Total Common Property Harvest (sum 7 and 8) 10. Total Return (sum 6 and 9) 11. Estimated ocean survival by brood year Total Ocean Survival Harvest Comments		,	,						
10. Total Return (sum 6 and 9) 11. Estimated ocean survival by brood year 11. Estimated ocean survival by brood year 12. Disposition of Hatchery Escapement a. Traditional harvest fish b. Roe-recovery fish c. Carcasses 4 Sold c. Carcasses 4 Sold 5 Sold	9		and 8)				I	9 4 3 0	
11. Estimated ocean survival by brood year       Brood Total # in Run, Cumulative Ocean Complete Return (yes or no)         2018       22,430       2         Total Ocean Survival       22,430       2         Harvest Comments       22,430       2         It. Disposition of Hatchery Escapement         a. Traditional harvest fish       adults       2         jacks       2       2         b. Roe-recovery fish       # fish       Ibs fish         b. Roe-recovery fish       # fish       Ibs fish         c. Carcasses       # Sold       2         total number of fish       2       2         year       22,430       2         year       2       2         year       3       3         yea									
Year       Current Year       Survival (%)       (yes or no)         2018       22,430       2       Yes         Total Ocean Survival         Harvest Comments       22,430         Image: Survival (%)         Uters of the survival (%)         Image: Survival (%)         Harvest Comments         Image: Survival (%)         Image: Survival (%) <td col<="" td=""><th></th><td>( , , , , , , , , , , , , , , , , , , ,</td><td></td><td>Г</td><td>Brood</td><td>Total # in Run</td><td></td><td>;</td></td>	<th></th> <td>( , , , , , , , , , , , , , , , , , , ,</td> <td></td> <td>Г</td> <td>Brood</td> <td>Total # in Run</td> <td></td> <td>;</td>		( , , , , , , , , , , , , , , , , , , ,		Г	Brood	Total # in Run		;
Total Ocean Survival       22,430         Harvest Comments       22,430         12. Disposition of Hatchery Escapement       # fish sold lbs fish         a. Traditional harvest fish       adults         jacks		, , ,							
Harvest Comments				[	2018	22,430	2	Yes	
I2. Disposition of Hatchery Escapement         # fish sold       Ibs fish         a. Traditional harvest fish       adults         jacks		Total Ocean Survival					22,430		
# fish sold       lbs fish         a. Traditional harvest fish       adults         jacks		Harvest Comments							
# fish sold       lbs fish         a. Traditional harvest fish       adults         jacks									
b. Roe-recovery fish	12.		1	# fish	sold	lbs fish	_		
b. Roe-recovery fish total number of fish total number of		a. Traditional harvest fish	L L L L L L L L L L L L L L L L L L L			<u> </u>			
b. Roe-recovery fish # fish lbs fish lbs roe Sold Dontated Disposed total number of fish c. Carcasses # Sold # Donated # Disposed Total Spawners9,1149,114			· · ·						
c. Carcasses #Sold #Donated #Disposed Total Spawners 9,114 9,114		b. Roe-recovery fish	lotar	# f	sh	Ibs fish	 lbs roe		
Disposed		2	Sold						
c. Carcasses total number of fish c. Carcasses # Sold # Donated # Disposed Total Spawners9,114 9,114			Dontated						
c. Carcasses # Sold # Donated # Disposed Total Spawners									
Spawners 9,114 9,114			total number of fish		- 1 -1		# Diamage I	 	
		C. Carcasses	0	# S	old	# Donated		,	
		Oth	spawners er (annotate in comments)				9,114	9,114	

total number of f	ish	9,114	9,114
total pour	nds	72,912	72,912
Disposition Comments			

2022 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

							KITOI BAY
	Species SOCKEYE	Donor Stock SALTE	RY CR 103-	25		Project K	ITOI BAY
		Ancestral Stock SALTE	RY LK 259-4	41			
1. 2. 3.	Hatchery Escapement Cost-recovery (line 12a & 12b): traditional ha Adults sacrificed as broodstock (Schedule A Escapement for hatchery watershed (as req Jacks	line 8) minus roe-recovery f			2	206	
	Other (annotate for each Other escapement	return)		Other escap	ement	 Other esc	apement comment
6.	Total hatchery escapement Other Comments					206	·]
	No egg take occurred at Little Kitoi Lake in 2	2022.					
	Common Property Harvest Commercial Harvest a. Troll b. Gillnet c. Seine d. Other (annotate for each Other commerci	al return)		Other comm	25,7 nercial		nmercial comment
	Total Commercial Harvest				25,7	'92	
8.	Noncommercial Harvest a. Sport b. Personal Use c. Subsistence d. Other (annotate for each Other noncomm	ercial return)		Other noncom	nmercial	Other nonce	ommercial 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		ive Ocean val (%)	Complete Return (yes or no)
			2018	20,799			No
			2019	5,199			No
	Total Ocean Survival Harvest Comments				25,9	98	
12.	Disposition of Hatchery Escapement		# fish sold	lbs fish			
	a. Traditional harvest fish	adults					
		jacks		<u> </u>			
	b. Roe-recovery fish	total	# fish	_l Ibs fish		lbs roe	
	,	Sold					7
		Dontated					]
		Disposed					
		total number of fish					
	c. Carcasses		# Sold	# Donated	#1	Disposed	Total
		Spawners		<u></u>			<u></u>
	Other (a	annotate in comments)			1		

total number of fish		
total pounds		
Disposition Comments		

## Schedule D-1 **PROJECTED RETURNS FOR 2023**

KITOI BAY

Run Spec	Orresien	Species First Brood Year	Last Brood Year	Release Site	Total number of fish expected	Range of expected return	
	Species					minimum	maximum
SUMMER	СНИМ	2018	2020	KITOI BAY 252-31	109,500	87,600	131,400
СНИМ				109,500	87,600	131,400	
FALL	соно	2020	2020	KITOI BAY 252-31	132,500	99,400	165,600
СОНО				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.)