

2017 ANNUAL REPORT ALASKAN SALMON HATCHERY

Year ending December 15, 2017

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

Person to contact	Trent Dodson	name
regarding this report	907-486-6555	phone

Schedule A - Egg-take

ID	Brood Year	Species	Ancestral Stock	Donor Stock	Egg-take Green	Eggs Retained	Eggs Survived
1	2017	PINK	BIG KITOI CR	KITOI BAY H	216,343,984	217,779,270	202,852,954
2	2017	CHUM	STURGEON R	KITOI BAY H	36,828,915	36,979,125	27,886,710
3	2017	COHO	LITTLE KITOI LK	KITOI BAY H	2,262,000	2,262,000	
4	2017	SOCKEYE	SALTRY LK 259-41	SALTRY CR 103-25		856,051	783,561

Schedule B - Section A - Life Stage Information

ID	Brood Year	Species	Ancestral Stock	Donor Stock	Green	Eyed	Emg Fry	Fed Fry	Smolt
1	2016	PINK	BIG KITOI CR	KITOI BAY H	94,357,489	76,915,325	71,715,179	66,578,959	
2	2016	CHUM	STURGEON R	KITOI BAY H	20,888,564	17,458,527	16,354,245	14,192,919	
3	2015	COHO	BUSKIN+L KITOI LK	KITOI BAY H	1,274,755	1,112,806	1,084,166	1,074,165	1,026,384
4	2016	COHO	BIG KITOI+BUSKIN	KITOI BAY H	483,665	403,561	398,561	397,727	376,561
5	2015	SOCKEYE	SALTRY LK 259-41	KITOI BAY H	922,580	850,280	781,028	753,692	635,198
6	2016	SOCKEYE	SALTRY LK 259-41	SALTRY LK 259-41	850,000	765,718	545,568	464,136	457,540

Schedule B - Section C - Release

ID	Release ID/Tag Code	Brood Year	Species	Ancestral Stock	Donor Stock	Site	Total Released
1	!01176KRAA01	2016	PINK	BIG KITOI CR	KITOI BAY H	KITOI BAY 252-31	66,578,959
2	!01175KRAA01	2016	CHUM	STURGEON R	KITOI BAY H	KITOI BAY 252-31	5,252,607
2	!01175KRAA02	2016	CHUM	STURGEON R	KITOI BAY H	KITOI BAY 252-31	8,940,312
3	!01172KRAA05	2015	COHO	BUSKIN+L KITOI LK	KITOI BAY H	KITOI BAY 252-31	179,991
3	!01172KRAA06	2015	COHO	BUSKIN+L KITOI LK	KITOI BAY H	KITOI BAY 252-31	846,393
4	!01172KRAA07	2016	COHO	BIG KITOI+BUSKIN	KITOI BAY H	CRESCENT LK 252-36 (B)	19,612
5	!01174KRAA08	2015	SOCKEYE	SALTRY LK 259-41	KITOI BAY H	LITTLE KITOI BAY 252-31	585,810
5	!01174KRAA09	2015	SOCKEYE	SALTRY LK 259-41	KITOI BAY H	OUZINKIE BOAT HARBOR 259	49,388

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	1,767,322	230,099	2,588,378
2	CHUM	STURGEON R	KITOI BAY H	KITOI BAY	3,951	147,989	221,094
3	COHO		KITOI BAY H	KITOI BAY	15,317	13,655	31,750
4	SOCKEYE		KITOI BAY H	KITOI BAY	342	12,317	13,319

Schedule F - Return

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

2017 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. Fertilized eggs are rinsed in buckets by decanting. Eggs are sorted, sampled, and weighed at eye to determine survival and inventory number. Total eggs placed in incubators at eye divided by total inventory determines survival. Total inventory includes seeded eggs, mortality and discarded eggs. Line #11 is number of eggs estimated at eggtake. Line #14 is number of total eggs once inventoried at egg pick. Line #15 is number of eyed eggs seeded.

Entered By

Date Last Modified

Schedule A-2

2017 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 ovidine before loading into incubators. Eggs are sorted, sampled, and weighed at eye to determine survival and inventory number. Total eggs placed in incubators at eye divided by total inventory determines survival. Total inventory includes seeded eggs, mortality and discarded eggs. Line #11 is number of eggs estimated at eggtake, line #14 is total number of eggs once inventoried at egg pick. Line #15 is seeded eyed eggs. 2. Below average fertilization, and above average fungal loads in incubators

Entered By

Date Last Modified

Schedule A-3

2017 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 ovidine before loading into incubators. Hen's are segregated individually for Single Family Tracking for BKD in 2017. Eggs have not reached eye stage, inventory numbers are from historic fecundity estimates.

Entered By

Date Last Modified

Schedule A-4

2017 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

KITOI BAY

Continued to

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

14-16. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Transferred	9/1/2017	GREEN EGG		FROM	SALTARY LK 259-41	856,051

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:

Entered By

Date Last Modified

Schedule B-1

2017 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	94,357,489	100	
2. Eyed Eggs	76,915,325	81.51	
3. Emergent Fry	71,715,179	76	
4. Fed Fry	66,578,959	70.56	
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
!01176KRAA01		BIG KITOI CR	BIG KITOI CR	KITOI BAY 252-31	5/19/2017	FED FRY	66,578,959
Total Released							<input type="text" value="66,578,959"/>

D. Other

Broodstock was diagnosed with Furunculosis, Loma salmonae, and other general bacterial infections. Poor ripening of broodstock, and mediocre egg quality. Once hatched, the progeny were in good health.

Untagged Release

Annual Report: **2017, SCHEDULE B-1**

Release ID Code: **!01176KRAA01**

General Information

Project Leader:	MASON	Species:	PINK	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2016	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	NO MARK
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	
Donor Stock:	BIG KITOI CR	FTP:		Hatch Code:	
Ancestral Stock:	BIG KITOI CR			Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	MASON	Release Stage:	FED FRY
Release Site:	KITOI BAY 252-31	Unmarked Counting Method:	BOOK ESTIMATE
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release

Release Dates

Total Fish Released

Weight (g):	1.01	Fork Length (mm):		Began:	05/19/2017	Ended:	05/19/2017	66,578,959
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Comments: 250 characters max.

CHANGED RELEASE SITE FROM BIG KITOI CR 252-31 AS PER RELEASE FORM AND AFCPR. CHECKED AFCPR B-1 (EK 3/8/18)

Schedule B-2

2017 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	20,888,564	100	
2. Eyed Eggs	17,458,527	83.58	
3. Emergent Fry	16,354,245	78.29	
4. Fed Fry	14,192,919	67.95	
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
!01175KRAA01		STURGEON R	BIG KITOI CR	KITOI BAY 252-31	5/12/2017	FED FRY	5,252,607
!01175KRAA02		STURGEON R	BIG KITOI CR	KITOI BAY 252-31	5/19/2017	EMERGENT FRY	8,940,312
Total Released							<input type="text" value="14,192,919"/>

D. Other

Poor egg quality and brood ripening at eggtake. Fry ponded to saltwater had coagulated yolk and unusual cephalic dimple, leading to 13% ponding mortality

Untagged Release

Annual Report: **2017, SCHEDULE B-2**

Release ID Code: **!01175KRAA01**

General Information

Project Leader:	MASON	Species:	CHUM	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2016	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	KITOI16CHUMA
Donor Stock:	BIG KITOI CR	FTP:		Hatch Code:	3N,2N,3H
Ancestral Stock:	STURGEON R	Experimental Class:			

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	MASON	Release Stage:	FED FRY
Release Site:	KITOI BAY 252-31	Unmarked Counting Method:	BOOK ESTIMATE
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released				
Weight (g):	1.38	Fork Length (mm):		Began:	05/12/2017	Ended:	05/12/2017	5,252,607

Comments: 250 characters max.

REGULAR RELEASE GROUP. CHANGED RELEASE SITE FROM BIG KITOI CR 252-31 AS PER RELEASE FORM AND AFCPR. CHECKED AFCPR B-2 (EK 3/8/18)

Untagged Release

Annual Report: **2017, SCHEDULE B-2**

Release ID Code: **!01175KRAA02**

General Information

Project Leader:	MASON	Species:	CHUM	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2016	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	KITOI16CHUM
Donor Stock:	BIG KITOI CR	FTP:		Hatch Code:	3,1,3H
Ancestral Stock:	STURGEON R			Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	MASON	Release Stage:	EMERGENT FRY
Release Site:	KITOI BAY 252-31	Unmarked Counting Method:	BOOK ESTIMATE
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released				
Weight (g):	2.72	Fork Length (mm):		Began:	05/19/2017	Ended:	05/19/2017	8,940,312

Comments: 250 characters max.

LATE LARGE GROUP. CHANGED RELEASE SITE FROM BIG KITOI CR 252-31 AS PER RELEASE FORM AND AFCPR. CHECKED AFCPR B-2 (EK 3/8/18)

Schedule B-3

2017 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	1,274,755	100	
2. Eyed Eggs	1,112,806	87.30	
3. Emergent Fry	1,084,166	85.05	
4. Fed Fry	1,074,165	84.26	
5. Smolts	1,026,384	80.52	

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
I01172KRAA05		BUSKIN R 259-21	BIG KITOI CR	KITOI BAY 252-31	4/22/2017	SMOLT	179,991
I01172KRAA06		BUSKIN R 259-21	BIG KITOI CR	KITOI BAY 252-31	5/31/2017	SMOLT	846,393

Total Released

D. Other

Diagnosed with furunculosis on 10-12-16, treated with OTC. Diagnosed with BKD on 2-3-17. Fed medicated feed under INAD 6013. Rolling 90 day mortality window remained under 5%. One unit (179,991 fish) approached the threshold so authorization for early release was given. Other units remained low mortality

Untagged Release

Annual Report: **2017, SCHEDULE B-3**

Release ID Code: !01172KRAA05

General Information

Project Leader:	MASON	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2015	Release Type:	PRODUCTION
Division/Section:		Adult Run:	FALL	Mark Type:	NO MARK
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	
Donor Stock:	BIG KITOI CR	FTP:		Hatch Code:	
Ancestral Stock:	BUSKIN R 259-21			Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	MASON	Release Stage:	SMOLT
Release Site:	KITOI BAY 252-31	Unmarked Counting Method:	BOOK ESTIMATE
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release		Release Dates		Total Fish Released				
Weight (g):	10.64	Fork Length (mm):		Began:	04/22/2017	Ended:	04/22/2017	179,991

Comments: 250 characters max.

EARLY RELEASE OF BKD POSITIVE GROUP. 90 DAY CUMULATIVE MORTALITY LESS THAN 5%, RELEASE AUTHORIZED. A STOCK = BUSKIN/LITTLE KITOI. CHECKED AFCPR B-3 (EK 3/8/18)

Untagged Release

Annual Report: **2017, SCHEDULE B-3**

Release ID Code: !01172KRAA06

General Information

Project Leader:	MASON	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2015	Release Type:	PRODUCTION
Division/Section:		Adult Run:	FALL	Mark Type:	NO MARK
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	
Donor Stock:	BIG KITOI CR	FTP:		Hatch Code:	
Ancestral Stock:	BUSKIN R 259-21			Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	MASON	Release Stage:	SMOLT
Release Site:	KITOI BAY 252-31	Unmarked Counting Method:	BOOK ESTIMATE
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release

Release Dates

Total Fish Released

Weight (g):	21.27	Fork Length (mm):		Began:	05/31/2017	Ended:	05/31/2017	846,393
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Comments: 250 characters max.

A STOCK = BUSKIN/LITTLE KITOI. CHECKED AFCPR B-3 (EK 3/8/18)

Schedule B-4

2017 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	483,665	100	
2. Eyed Eggs	403,561	83.44	
3. Emergent Fry	398,561	82.40	
4. Fed Fry	397,727	82.23	
5. Smolts	376,561	77.86	

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
I01172KRAA07		BUSKIN R 259-21	BIG KITOI CR	CRESCENT LK 252-36 (B)	8/12/2017	FINGERLING	19,612
Total Released							<input type="text" value="19,612"/>

D. Other

All fish single family tracked for BKD. All mid and high level prevelance eggs were destroyed. Low level prevelance were outstocked to Crescent Lake. Negative fish remain for KBH release in June 2018.

Untagged Release

Annual Report: **2017, SCHEDULE B-4**

Release ID Code: !01172KRAA07

General Information

Project Leader:	MASON	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2016	Release Type:	PRODUCTION
Division/Section:		Adult Run:	FALL	Mark Type:	NO MARK
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	
Donor Stock:	BIG KITOI CR	FTP:		Hatch Code:	
Ancestral Stock:	BUSKIN R 259-21			Experimental Class:	

Experimental Narrative: 250 characters max.

Untagged Release Information

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

Size at Release		Release Dates		Total Fish Released				
Weight (g):	3.11	Fork Length (mm):		Began:	08/12/2017	Ended:	08/12/2017	19,612

Comments: 250 characters max.

STOCK = BIG KITOI CR/PILLAR MIX, A STOCK = BUSKIN/LITTLE KITOI. CHECKED AFCPR B-4 (EK 3/8/18)

Schedule B-5

2017 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	922,580	100	
2. Eyed Eggs	850,280	92.16	
3. Emergent Fry	781,028	84.66	
4. Fed Fry	753,692	81.69	
5. Smolts	635,198	68.85	

B. Transfers, Morts, and Culls

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

C. Release Information

Release ID/ Tag Code	FTP	Ancestral Stock	Donor Stock	Site	Date Last Released	Life Stage	Total
I01174KRAA08		SALTERY LK 259-41	L KITOI LK 252-31	LITTLE KITOI BAY 252-31	6/7/2017	SMOLT	585,810
I01174KRAA09		SALTERY LK 259-41	L KITOI LK 252-31	OUZINKIE BOAT HARBOR 259	6/8/2017	SMOLT	49,388

Total Released

D. Other

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Untagged ReleaseAnnual Report: **2017, SCHEDULE B-5**

Release ID Code: !01174KRAA08

General Information

Project Leader:	MASON	Species:	SOCKEYE	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2015	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	KITOI15
Donor Stock:	L KITOI LK 252-31	FTP:		Hatch Code:	6,3H
Ancestral Stock:	SALTERY LK 259-41	Experimental Class:			

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor:	MASON	Release Stage:	SMOLT
Release Site:	LITTLE KITOI BAY 252-31	Unmarked Counting Method:	BOOK ESTIMATE
Anadromous Stream #:		Expected Survival:	NORMAL

Size at Release**Release Dates****Total Fish Released**

Weight (g):	21.01	Fork Length (mm):		Began:	06/06/2017	Ended:	06/07/2017	Total Fish Released:	585,810
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Comments: 250 characters max.

LITTLE KITOI LAKE NET PEN RELEASE. CHANGED ANCESTRAL STOCK FROM SASHIN CR AS PER RELEASE FORM. CHECKED AFCPR B-5 (EK 3/8/18)

Untagged Release

Annual Report: **2017, SCHEDULE B-5**

Release ID Code: !01174KRAA09

General Information

Project Leader: MASON	Species: SOCKEYE	Rearing Type: HATCHERY
Agency: KRAA	Brood Year: 2015	Release Type: PRODUCTION
Division/Section:	Adult Run: SUMMER	Mark Type: TM
Facility: KITOI BAY		Thermal Mark ID: KITOI15
Donor Stock: L KITOI LK 252-31	Release Group:	Hatch Code: 6,3H
Ancestral Stock: SALTERY LK 259-41	FTP:	Experimental Class:

Experimental Narrative: 250 characters max.

Untagged Release Information

Release Supervisor: MASON	Release Stage: SMOLT
Release Site: OUZINKIE BOAT HARBOR 259	Unmarked Counting Method: BOOK ESTIMATE
Anadromous Stream #:	Expected Survival: NORMAL

Size at Release		Release Dates		Total Fish Released
Weight (g):	21.06	Fork Length (mm):		Began: 06/08/2017
				Ended: 06/08/2017
				49,388

Comments: 250 characters max.

OUZINKIE BOAT HARBOR NET PEN RELEASE. CHECKED AFCPR B-5 (EK 3/8/18)

Schedule B-6

2017 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	850,000	100	
2. Eyed Eggs	765,718	90.08	
3. Emergent Fry	545,568	64.18	Mortalities from human error during dry marking
4. Fed Fry	464,136	54.60	
5. Smolts	457,540	53.83	

B. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Transferred	4/1/2016	EYED EGG		FROM	PILLAR CREEK H	765,718
Total Transfers, Morts, and Culls						<input type="text" value="-765,718"/>

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

Transferred in from Pillar creek hatchery at eyed stage, after egg pick. Human error and poor distribution lead to suffocation of eggs during dry marking. Otolith mark failed. Actual of fed fry inventory was lower than egg numbers

Schedule C-1

2017 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

KITOI BAY

Species

Donor Stock

Project

Ancestral Stock

A. Hatchery Escapement

1. Cost-recovery (line 12a & 12b): traditional harvest and roe-recovery fish	1,767,322	
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	516,957	
3. Escapement for hatchery watershed (as required in permit)	14,000	
4. Jacks		
5. Other (annotate for each Other escapement return)	Other escapement	Other escapement comment
	60,000	Leftover brood
6. Total hatchery escapement	2,358,279	

Other Comments

B. Common Property Harvest

7. Commercial Harvest		
a. Troll		
b. Gillnet		
c. Seine	230,099	
d. Other (annotate for each Other commercial return)	Other commercial	Other commercial comment
Total Commercial Harvest	230,099	
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)	230,099	
10. Total Return (sum 6 and 9)	2,588,378	

11. Estimated ocean survival by brood year

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2015	2,588,378	1.87	Yes

Total Ocean Survival

2,588,378

Harvest Comments

2. Ocean survival is total CPF, CRF, brood and escapement divided by total fish released from that brood year. Harvests are from commercial harvest summary

12. Disposition of Hatchery Escapement

	# fish sold	lbs fish		
a. Traditional harvest fish	adults	1,767,322	5,715,889	
	jacks			
	total	1,767,322	1,767,322	
b. Roe-recovery fish		# fish	lbs fish	lbs roe
	Sold			
	Donated			
	Disposed			
	total number of fish			
c. Carcasses	# Sold	# Donated	# Disposed	Total

Spawners	353,818		113,870	467,688
Other (annotate in comments)				
total number of fish	353,818		113,870	467,688
total pounds	1,096,836		352,997	1,449,833

Disposition Comments

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Schedule C-2

2017 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

KITOI BAY

Species

Donor Stock

Project

Ancestral Stock

A. Hatchery Escapement

1. Cost-recovery (line 12a & 12b): traditional harvest and roe-recovery fish	3,951	
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	62,713	
3. Escapement for hatchery watershed (as required in permit)	5,000	
4. Jacks		
5. Other (annotate for each Other escapement return)	Other escapement	Other escapement comment
	1,441	Excess brood unharvested during cost recovery.
6. Total hatchery escapement	73,105	

Other Comments

B. Common Property Harvest

7. Commercial Harvest		
a. Troll		
b. Gillnet		
c. Seine	147,989	
d. Other (annotate for each Other commercial return)	Other commercial	Other commercial comment
Total Commercial Harvest	147,989	
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)	147,989	
10. Total Return (sum 6 and 9)	221,094	

11. Estimated ocean survival by brood year

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2012	12,998	0.60	Yes
2013	146,458	0.68	No
2014	61,638	0.20	No

Total Ocean Survival

221,094

Harvest Comments

2. Ocean survival is total CPF, CRF, brood and escapement divided by total fish released from that brood year. Brood year compositions are enumerated by scale and otolith age analysis Harvests are from commercial harvest summary

12. Disposition of Hatchery Escapement

	# fish sold	lbs fish	
a. Traditional harvest fish			
adults	3,951	17,021	
jacks			
total	3,951	3,951	
b. Roe-recovery fish			
Sold	# fish	lbs fish	lbs roe
Dontated			

	Disposed			
	total number of fish			
c. Carcasses		# Sold	# Donated	# Disposed
				Total
	Spawners			57,012
	Other (annotate in comments)			
	total number of fish			57,012
	total pounds			416,188

Disposition Comments

Schedule C-3

2017 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

KITOI BAY

Species

Donor Stock

Project

Ancestral Stock

A. Hatchery Escapement

1. Cost-recovery (line 12a & 12b): traditional harvest and roe-recovery fish	<input type="text" value="15,317"/>				
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	<input type="text" value="1,533"/>				
3. Escapement for hatchery watershed (as required in permit)	<input type="text" value="971"/>				
4. Jacks	<input type="text" value="274"/>				
5. Other (annotate for each Other escapement return)	<table border="1"> <tr> <td>Other escapement</td> <td>Other escapement comment</td> </tr> <tr> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table>	Other escapement	Other escapement comment	<input type="text"/>	<input type="text"/>
Other escapement	Other escapement comment				
<input type="text"/>	<input type="text"/>				
6. Total hatchery escapement	<input type="text" value="18,095"/>				

Other Comments

B. Common Property Harvest

7. Commercial Harvest					
a. Troll	<input type="text"/>				
b. Gillnet	<input type="text"/>				
c. Seine	<input type="text" value="13,405"/>				
d. Other (annotate for each Other commercial return)	<table border="1"> <tr> <td>Other commercial</td> <td>Other commercial comment</td> </tr> <tr> <td><input type="text" value="21"/></td> <td>Incidental harvest during pink egg take; personal consumption.</td> </tr> </table>	Other commercial	Other commercial comment	<input type="text" value="21"/>	Incidental harvest during pink egg take; personal consumption.
Other commercial	Other commercial comment				
<input type="text" value="21"/>	Incidental harvest during pink egg take; personal consumption.				
Total Commercial Harvest	<input type="text" value="13,426"/>				

8. Noncommercial Harvest					
a. Sport	<input type="text"/>				
b. Personal Use	<input type="text" value="229"/>				
c. Subsistence	<input type="text"/>				
d. Other (annotate for each Other noncommercial return)	<table border="1"> <tr> <td>Other noncommercial</td> <td>Other noncommercial comment</td> </tr> <tr> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table>	Other noncommercial	Other noncommercial comment	<input type="text"/>	<input type="text"/>
Other noncommercial	Other noncommercial comment				
<input type="text"/>	<input type="text"/>				
Total Noncommercial Harvest	<input type="text" value="229"/>				

9. Total Common Property Harvest (sum 7 and 8)	<input type="text" value="13,655"/>
10. Total Return (sum 6 and 9)	<input type="text" value="31,750"/>

11. Estimated ocean survival by brood year			
Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2014	31,476	2.83	Yes
2015	274	0	No

Total Ocean Survival

Harvest Comments

2. Ocean survival is total CPF, CRF, brood and escapement divided by total fish released from that brood year. Harvests are from commercial harvest summary

12. Disposition of Hatchery Escapement

a. Traditional harvest fish		# fish sold	lbs fish	
	adults	<input type="text" value="15,317"/>	<input type="text" value="104,848"/>	
	jacks	<input type="text"/>	<input type="text"/>	
	total	<input type="text" value="15,317"/>	<input type="text" value="15,317"/>	
b. Roe-recovery fish		# fish	lbs fish	lbs roe
	Sold	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Dontated	<input type="text"/>	<input type="text"/>	<input type="text"/>

	Disposed			
	total number of fish			
c. Carcasses		# Sold	# Donated	# Disposed
	Spawners			1,339
	Other (annotate in comments)			
	total number of fish			1,339
	total pounds			9,161

Disposition Comments

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Schedule C-4

2017 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

KITOI BAY

Species

Donor Stock

Project

Ancestral Stock

A. Hatchery Escapement

1. Cost-recovery (line 12a & 12b): traditional harvest and roe-recovery fish	<input type="text" value="342"/>
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	<input type="text"/>
3. Escapement for hatchery watershed (as required in permit)	<input type="text" value="660"/>
4. Jacks	<input type="text"/>
5. Other (annotate for each Other escapement return)	<input type="text" value="Other escapement"/> <input type="text" value="Other escapement comment"/>
6. Total hatchery escapement	<input type="text" value="1,002"/>

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	<input type="text"/>
b. Gillnet	<input type="text"/>
c. Seine	<input type="text" value="12,317"/>
d. Other (annotate for each Other commercial return)	<input type="text" value="Other commercial"/> <input type="text" value="Other commercial comment"/>
Total Commercial Harvest	<input type="text" value="12,317"/>

8. Noncommercial Harvest	
a. Sport	<input type="text"/>
b. Personal Use	<input type="text"/>
c. Subsistence	<input type="text"/>
d. Other (annotate for each Other noncommercial return)	<input type="text" value="Other noncommercial"/> <input type="text" value="Other noncommercial comment"/>
Total Noncommercial Harvest	<input type="text"/>

9. Total Common Property Harvest (sum 7 and 8)	<input type="text" value="12,317"/>
10. Total Return (sum 6 and 9)	<input type="text" value="13,319"/>

11. Estimated ocean survival by brood year

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2011	379	17.30	Yes
2012	3,816	2.70	No
2013	8,793	1.42	No
2014	331	0.10	No

Total Ocean Survival

Harvest Comments

12. Disposition of Hatchery Escapement

	# fish sold	lbs fish
a. Traditional harvest fish		
adults	<input type="text" value="342"/>	<input type="text" value="1,547"/>
jacks	<input type="text"/>	<input type="text"/>
total	<input type="text" value="342"/>	<input type="text" value="342"/>

	# fish	lbs fish	lbs roe
b. Roe-recovery fish			
Sold	<input type="text"/>	<input type="text"/>	<input type="text"/>
Dontated	<input type="text"/>	<input type="text"/>	<input type="text"/>
Disposed	<input type="text"/>	<input type="text"/>	<input type="text"/>
total number of fish	<input type="text"/>	<input type="text"/>	<input type="text"/>

c. Carcasses

	# Sold	# Donated	# Disposed	Total
Spawners				
Other (annotate in comments)				
total number of fish				
total pounds				

Disposition Comments

Poor escapement. Eggtake switched to Saltery Lake for 2017.

Schedule D-1

2017 ANNUAL BROODSTOCK AND INITIAL SURVIVAL REPORT

KITOI BAY

Run	Species	First Brood Year	Last Brood Year	Release Site	Total number of fish expected	Range of expected return	
						minimum	maximum
	CHUM	2012	2015	KITOI BAY 252-31	300,000	210,000	400,000
	COHO	2015		CRESCENT LK 252-36 (B)	1,200	900	1,500
	COHO	2015		KATMAI LK 259-10	1,200	900	1,500
	COHO	2015		KITOI BAY 252-31	140,000	110,000	170,000
	PINK	2016		KITOI BAY 252-31	2,500,000	1,900,000	3,200,000
	SOCKEYE	2012	2015	KITOI BAY 252-31	55,819	44,000	66,000
	SOCKEYE	2014	2015	OUZINKIE BOAT HARBOR 259	10,000	7,100	12,900

COMMENTS:

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