

2016 ANNUAL REPORT ALASKAN SALMON HATCHERY

Year ending December 15, 2016

Hatchery name/Location	KITOI BAY
Permit holder name/Address	Randy Mason

Person to contact	Randy Mason	name
regarding this report		phone

Schedule A - Egg-take

ID	Brood Year	Species	Ancestral Stock	Donor Stock	Egg-take Green	Eggs Retained	Eggs Survived
1	2016	CHUM	STURGEON R	KITOI BAY H	20,888,564	20,519,184	17,268,719
2	2016	PINK	BIG KITOI CR	KITOI BAY H	94,357,489	92,219,351	76,915,355
3	2016	COHO	BUSKIN+LITTLE KITOI	KITOI BAY H	441,240	441,240	
4	2016	SOCKEYE	SALTERY LK 259-41	L KITOI LK 252-31		850,000	765,718

Schedule B - Section A - Life Stage Information

ID	Brood Year	Species	Ancestral Stock	Donor Stock	Green	Eyed	Emg Fry	Fed Fry	Smolt
1	2015	CHUM	STURGEON R	BIG KITOI CR	34,913,570	31,494,215	30,376,313	29,122,550	
2	2015	PINK		BIG KITOI CR	217,812,366	195,902,866	169,908,299	138,103,485	
3	2015	SOCKEYE	SALTERY LK 259-41	L KITOI LK 252-31	922,580	850,280	781,028	753,692	748,764
4	2014	SOCKEYE	SALTERY LK 259-41	L KITOI LK 252-31	833,931	772,221	739,129	739,129	656,651
5	2015	COHO	LITTLE KITOI LK	KITOI BAY H	1,274,755	1,112,806	1,084,166	1,074,165	1,050,000
6	2014	COHO	LITTLE KITOI LK	KITOI BAY H	1,447,290	1,305,001	1,292,317	1,221,154	1,210,099

Schedule B - Section C - Release

ID	Release ID/Tag Code	Brood Year	Species	Ancestral Stock	Donor Stock	Site	Total Released
5	I01162KRAA06	2015	COHO	LITTLE KITOI LK	KITOI BAY H	KATMAI LK 259-10	12,000
5	I01162KRAA05	2015	COHO	LITTLE KITOI LK	KITOI BAY H	CRESCENT LK 252-36 (B)	12,000
6	I01162KRAA04	2014	COHO	LITTLE KITOI LK	KITOI BAY H	KITOI BAY 252-31	1,210,099
3	I01164KRAA06	2015	SOCKEYE	SALTERY LK 259-41	L KITOI LK 252-31	LITTLE KITOI LK 252-31	106,273
4	I01164KRAA05	2014	SOCKEYE	SALTERY LK 259-41	L KITOI LK 252-31	OUZINKIE BOAT HARBOR 259	79,565
4	I01164KRAA04	2014	SOCKEYE	SALTERY LK 259-41	L KITOI LK 252-31	LITTLE KITOI BAY 252-31	577,086
1	I01165KRAA04	2015	CHUM	STURGEON R	BIG KITOI CR	KITOI BAY 252-31	13,853,288
1	I01165KRAA03	2015	CHUM	STURGEON R	BIG KITOI CR	KITOI BAY 252-31	15,269,262
2	I01166KRAA06	2015	PINK		BIG KITOI CR	KITOI BAY 252-31	2,000,000
2	I01166KRAA05	2015	PINK		BIG KITOI CR	KITOI BAY 252-31	35,743,105
2	I01166KRAA04	2015	PINK		BIG KITOI CR	KITOI BAY 252-31	100,360,380

Schedule C - Return

ID	Species	Ancestral Stock	Donor Stock	Project	Cost Recovery	Comm Property	Total Return
1	CHUM	STURGEON R	BIG KITOI CR	KITOI BAY	937	68,875	121,944
2	PINK		BIG KITOI CR	KITOI BAY	793,115	360,388	1,522,029
3	SOCKEYE	SALTERY LK 259-41	L KITOI LK 252-31	KITOI BAY	481	47,168	49,444
4	COHO		BIG KITOI CR	KITOI BAY	9	11,801	14,938

Schedule F - Return

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

Schedule A-1

2016 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
Total Transfers, Morts, and Culls						<input type="text" value=""/>

- 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 A-2

2016 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
---------------	------	------------	-----	-----------	--------------------	-------

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 A-3

2016 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
---------------	------	------------	-----	-----------	--------------------	-------

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 A-4

2016 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	4/1/2016	EYED EGG		FROM	PILLAR CREEK H	765,718

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

2016 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	34,913,570	100	Estimated 36,350,464 green at eggtake
2. Eyed Eggs	31,494,215	90.21	
3. Emergent Fry	30,376,313	87	
4. Fed Fry	29,122,550	83.41	
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
!01165KRAA03		STURGEON R	BIG KITOI CR	KITOI BAY 252-31	5/6/2016	FED FRY	15,269,262
!01165KRAA04		STURGEON R	BIG KITOI CR	KITOI BAY 252-31	5/17/2016	FED FRY	13,853,288

Total Released

D. Other

Untagged Release

Annual Report: 2016, SCHEDULE B-1

Release ID Code: !01165KRAA03

General Information

Project Leader:	MASON	Species:	CHUM	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2015	Release Type:	BOTH (EXP AND PROD)
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	KITOI15CHUM
Donor Stock:	BIG KITOI CR	FTP:		Hatch Code:	3,3,3H
Ancestral Stock:	STURGEON R			Experimental Class:	SIZE AT RELEASE

Experimental Narrative: 250 characters max.

REGULAR RELEASE GROUP

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):	3.08	Fork Length (mm):		Began:	05/06/2016	Ended:	05/06/2016	15,269,262

Comments: 250 characters max.

Untagged Release

Annual Report: 2016, SCHEDULE B-1

Release ID Code: !01165KRAA04

General Information

Project Leader:	MASON	Species:	CHUM	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2015	Release Type:	BOTH (EXP AND PROD)
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	KITOI15CHUMA
Donor Stock:	BIG KITOI CR	FTP:		Hatch Code:	3,2,4H
Ancestral Stock:	STURGEON R			Experimental Class:	SIZE AT RELEASE

Experimental Narrative: 250 characters max.

LATE LARGE GROUP

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):	3.07	Fork Length (mm):		
Began:	05/17/2016	Ended:	05/17/2016	13,853,288

Comments: 250 characters max.

Schedule B-2

2016 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	217,812,366	100	
2. Eyed Eggs	195,902,866	89.94	Poor fertilization
3. Emergent Fry	169,908,299	78.01	Mechanical Loss from Water Crisis
4. Fed Fry	138,103,485	63.40	Trickle down effect from water crissi (curly q's)
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
!01166KRAA06		BIG KITOI CR	BIG KITOI CR	KITOI BAY 252-31	4/2/2016	EMERGENT FRY	2,000,000
!01166KRAA04		BIG KITOI CR	BIG KITOI CR	KITOI BAY 252-31	5/6/2016	FED FRY	100,360,380
!01166KRAA05		BIG KITOI CR	BIG KITOI CR	KITOI BAY 252-31	5/26/2016	FED FRY	35,743,105

Total Released

D. Other

Untagged Release

Annual Report: **2016, SCHEDULE B-2**

Release ID Code: **!01166KRAA06**

General Information

Project Leader:	MASON	Species:	PINK	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2015	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:	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):	0.24	Fork Length (mm):		Began:	04/02/2016	Ended:	04/02/2016	2,000,000

Comments: 250 characters max.

EQUIPMENT FAILURE, ACCIDENTAL RELEASE

Untagged Release

Annual Report: 2016, SCHEDULE B-2

Release ID Code: !01166KRAA04

General Information

Project Leader:	MASON	Species:	PINK	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2015	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):	0.92	Fork Length (mm):		Began:	05/06/2016	Ended:	05/06/2016	100,360,380

Comments: 250 characters max.

REGULAR RELEASE

Untagged Release

Annual Report: 2016, SCHEDULE B-2

Release ID Code: !01166KRAA05

General Information

Project Leader:	MASON	Species:	PINK	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2015	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):	1.23	Fork Length (mm):		Began:	05/26/2016	Ended:	05/26/2016	35,743,105

Comments: 250 characters max.

LATE LARGE

Schedule B-3

2016 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	922,580	100	865,200 estimated at eggtake
2. Eyed Eggs	850,280	92.16	Underestimation of Green at eggtake
3. Emergent Fry	781,028	84.66	
4. Fed Fry	753,692	81.69	
5. Smolts	748,764	81.16	Estimated Release of 640,000 on 6/1/17, with 106,273 actual release

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
I01164KRAA06		SALTERY LK 259-41	L KITOI LK 252-31	LITTLE KITOI LK 252-31	10/6/2016	PRESMOLT	106,273
Total Released							<input type="text" value="106,273"/>

D. Other

Untagged Release

Annual Report: **2016, SCHEDULE B-3**

Release ID Code: !01164KRAA06

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:	PRESMOLT
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):	8.23	Fork Length (mm):		Began:	10/06/2016	Ended:	10/06/2016	106,273

Comments: 250 characters max.

LITTLE KITOI LAKE RELEASE. 5% CLIPPED AD/LV

Schedule B-4 2016 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	833,931	100	
2. Eyed Eggs	772,221	92.60	
3. Emergent Fry	739,129	88.63	
4. Fed Fry	739,129	88.63	69,293 released into Little Kitoi lake
5. Smolts	656,651	78.74	

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
I01164KRAA04		SALTERY LK 259-41	L KITOI LK 252-31	LITTLE KITOI BAY 252-31	5/27/2016	SMOLT	577,086
I01164KRAA05		SALTERY LK 259-41	L KITOI LK 252-31	OUZINKIE BOAT HARBOR 259	5/27/2016	SMOLT	79,565

Total Released

D. Other

Untagged Release

Annual Report: **2016, SCHEDULE B-4**

Release ID Code: !01164KRAA04

General Information

Project Leader:	MASON	Species:	SOCKEYE	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2014	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	KITOI14
Donor Stock:	L KITOI LK 252-31	FTP:		Hatch Code:	5,4H
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):	21.92	Fork Length (mm):		Began:	05/27/2016	Ended:	05/27/2016	577,086

Comments: 250 characters max.

NET PEN RELEASES

Untagged Release

Annual Report: **2016, SCHEDULE B-4**

Release ID Code: !01164KRAA05

General Information

Project Leader:	MASON	Species:	SOCKEYE	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2014	Release Type:	PRODUCTION
Division/Section:		Adult Run:	SUMMER	Mark Type:	TM
Facility:	KITOI BAY	Release Group:		Thermal Mark ID:	KITOI14
Donor Stock:	L KITOI LK 252-31	FTP:		Hatch Code:	5,4H
Ancestral Stock:	SALTERY LK 259-41	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):	23.83	Fork Length (mm):		Began:	05/27/2016	Ended:	05/27/2016	79,565

Comments: 250 characters max.

Schedule B-5 2016 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	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	Actual inventory 8-19-16. 12,000 release to both Crescent and Katami
5. Smolts	1,050,000	82.37	Estimated 2017 release

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
I01162KRAA05		BUSKIN R 259-21	BIG KITOI CR	CRESCENT LK 252-36 (B)	8/16/2016	PRESMOLT	12,000
I01162KRAA06		BUSKIN R 259-21	BIG KITOI CR	KATMAI LK 259-10	8/16/2016	PRESMOLT	12,000

Total Released

D. Other

Untagged Release

Annual Report: **2016, SCHEDULE B-5**

Release ID Code: **!01162KRAA05**

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:	PRESMOLT
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):	5.61	Fork Length (mm):		Began:	08/16/2016	Ended:	08/16/2016	12,000

Comments: 250 characters max.

Untagged Release

Annual Report: **2016, SCHEDULE B-5**

Release ID Code: !01162KRAA06

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:	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):	5.61	Fork Length (mm):		Began:	08/16/2016	Ended:	08/16/2016	12,000

Comments: 250 characters max.

Schedule B-6

2016 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	1,447,290	100	1,536,800 assumed at eggtake
2. Eyed Eggs	1,305,001	90.17	
3. Emergent Fry	1,292,317	89.29	
4. Fed Fry	1,221,154	84.38	Trasnfer of 12,000 each to Katmai and Crescent Lakes (24,000 total)
5. Smolts	1,210,099	83.61	

B. Transfers, Morts, and Culls

Transfer Type	Date	Life Stage	FTP	Direction	Site/Discard Cause	Total
Transferred	8/20/2015	PRESMOLT		TO	KATMAI LK 259-10	12,000
Transferred	8/20/2015	PRESMOLT		TO	CRESCENT LK 252-36 (B)	12,000

Total Transfers, Morts, and Culls

C. Release Information

Release ID/ Tag Code	FTP	Ancestral Stock	Donor Stock	Site	Date Last Released	Life Stage	Total
!01162KRAA04		BUSKIN R 259-21	BIG KITOI CR	KITOI BAY 252-31	6/1/2016	SMOLT	1,210,099

Total Released

D. Other

Untagged Release

Annual Report: **2016, SCHEDULE B-6**

Release ID Code: **!01162KRAA04**

General Information

Project Leader:	MASON	Species:	COHO	Rearing Type:	HATCHERY
Agency:	KRAA	Brood Year:	2014	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):	21.56	Fork Length (mm):		Began:	06/01/2016	Ended:	06/01/2016	1,210,099

Comments: 250 characters max.

Schedule C-1

2016 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

KITOI BAY

Species **CHUM**

Donor Stock **BIG KITOI CR**

Project **KITOI BAY**

Ancestral Stock **STURGEON R**

A. Hatchery Escapement

1. Cost-recovery (line 12a & 12b): traditional harvest and roe-recovery fish	937
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	51,999
3. Escapement for hatchery watershed (as required in permit)	133
4. Jacks	
5. Other (annotate for each Other escapement return)	Other escapement Other escapement comment
6. Total hatchery escapement	53,069

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	
b. Gillnet	
c. Seine	68,875
d. Other (annotate for each Other commercial return)	Other commercial Other commercial comment
Total Commercial Harvest	68,875
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)	68,875
10. Total Return (sum 6 and 9)	121,944

11. Estimated ocean survival by brood year

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2010		0.43	Yes
2011	34,060	0.7	No
2012	82,180	0.53	No
2013	5,704	0.03	No

Total Ocean Survival

121,944

Harvest Comments

12. Disposition of Hatchery Escapement

a. Traditional harvest fish	# fish sold	937	lbs fish	4,794				
	jacks							
	total	937	4,794					
b. Roe-recovery fish	# fish		lbs fish		lbs roe			
	Sold							
	Donated							
	Disposed							
total number of fish								
c. Carcasses	# Sold		# Donated		# Disposed		Total	
	Spawners				35,454	35,454		
	Other (annotate in comments)							
	total number of fish				35,454	35,454		
total pounds				218,397	218,397			

Disposition Comments

Schedule C-2 2016 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

KITOI BAY

Species

Donor Stock
Ancestral Stock

Project

A. Hatchery Escapement

1. Cost-recovery (line 12a & 12b): traditional harvest and roe-recovery fish	793,115
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	348,573
3. Escapement for hatchery watershed (as required in permit)	19,953
4. Jacks	
5. Other (annotate for each Other escapement return)	Other escapement Other escapement comment
6. Total hatchery escapement	1,161,641

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	
b. Gillnet	
c. Seine	360,388
d. Other (annotate for each Other commercial return)	Other commercial Other commercial comment
Total Commercial Harvest	360,388
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)	360,388
10. Total Return (sum 6 and 9)	1,522,029

11. Estimated ocean survival by brood year			
Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2014	1,522,029		Yes

Total Ocean Survival

Harvest Comments

12. Disposition of Hatchery Escapement

		# fish sold	lbs fish		
a. Traditional harvest fish	adults	793,115	4,098,549		
	jacks				
	total	793,115	4,098,549		
		# fish	lbs fish	lbs roe	
b. Roe-recovery fish	Sold				
	Donated				
	Disposed				
	total number of fish				
		# Sold	# Donated	# Disposed	Total
c. Carcasses	Spawners	89,000		69,858	158,858
	Other (annotate in comments)				
	total number of fish	89,000		69,858	158,858
	total pounds	460,130		361,166	821,296

Disposition Comments

Schedule C-3 2016 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

KITOI BAY

Species

Donor Stock
Ancestral Stock

Project

A. Hatchery Escapement

1. Cost-recovery (line 12a & 12b): traditional harvest and roe-recovery fish	481
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	
3. Escapement for hatchery watershed (as required in permit)	1,188
4. Jacks	
5. Other (annotate for each Other escapement return)	
Other escapement	607
Other escapement comment	
6. Total hatchery escapement	2,276

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	
b. Gillnet	
c. Seine	47,077
d. Other (annotate for each Other commercial return)	
Other commercial	Other commercial comment
Total Commercial Harvest	47,077
8. Noncommercial Harvest	
a. Sport	6
b. Personal Use	85
c. Subsistence	
d. Other (annotate for each Other noncommercial return)	
Other noncommercial	Other noncommercial comment
Total Noncommercial Harvest	91
9. Total Common Property Harvest (sum 7 and 8)	47,168
10. Total Return (sum 6 and 9)	49,444
11. Estimated ocean survival by brood year	

Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2010	3,302	21.1	Yes
2011	31,499	17.2	No
2012	13,731	2.2	No
2013	912		No

Total Ocean Survival

Harvest Comments

12. Disposition of Hatchery Escapement

a. Traditional harvest fish		# fish sold	lbs fish		
	adults	481			
	jacks				
	total	481			
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 C-4 2016 HARVEST MANAGEMENT AND HATCHERY ADULT RETURNS

KITOI BAY

Species

Donor Stock
Ancestral Stock

Project

A. Hatchery Escapement

1. Cost-recovery (line 12a & 12b): traditional harvest and roe-recovery fish	9
2. Adults sacrificed as broodstock (Schedule A line 8) minus roe-recovery fish (12b)	335
3. Escapement for hatchery watershed (as required in permit)	
4. Jacks	2,793
5. Other (annotate for each Other escapement return)	Other escapement Other escapement comment
6. Total hatchery escapement	3,137

Other Comments

B. Common Property Harvest

7. Commercial Harvest	
a. Troll	<input type="text"/>
b. Gillnet	<input type="text"/>
c. Seine	11,801
d. Other (annotate for each Other commercial return)	Other commercial Other commercial comment
Total Commercial Harvest	11,801
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)	Other noncommercial Other noncommercial comment
Total Noncommercial Harvest	<input type="text"/>
9. Total Common Property Harvest (sum 7 and 8)	11,801
10. Total Return (sum 6 and 9)	14,938

11. Estimated ocean survival by brood year			
Brood Year	Total # in Run, Current Year	Cumulative Ocean Survival (%)	Complete Return (yes or no)
2013	12,145		Yes
2014	2,793		No

Total Ocean Survival

Harvest Comments

12. Disposition of Hatchery Escapement

		# fish sold	lbs fish		
a. Traditional harvest fish	adults	9	57		
	jacks				
	total	9	57		
		# fish	lbs fish	lbs roe	
b. Roe-recovery fish	Sold				
	Donated				
	Disposed				
	total number of fish				
		# Sold	# Donated	# Disposed	Total
c. Carcasses	Spawners			335	335
	Other (annotate in comments)				
	total number of fish			335	335
	total pounds			2,120	2,120

Disposition Comments

Schedule D-1
PROJECTED RETURNS FOR 2017

KITOI BAY

Run	Species	First Brood Year	Last Brood Year	Release Site	Total number of fish expected	Range of expected return	
						minimum	maximum
	CHUM	2010	2013	KITOI BAY 252-31	87,018	60,912	113,123
CHUM					87,018	60,912	113,123
	COHO	2014		CRESCENT LK 252-36 (B)	1,200	900	1,500
	COHO	2014		KATMAI LK 259-10	1,200	900	1,500
	COHO	2014		KITOI BAY 252-31	171,834	117,935	242,176
COHO					174,234	119,735	245,176
	PINK	2015		KITOI BAY 252-31	10,118,874	7,589,156	12,648,593
PINK					10,118,874	7,589,156	12,648,593
	SOCKEYE	2012	2014	LITTLE KITOI BAY 252-31	72,230	55,054	91,756
	SOCKEYE	2014		OUZINKIE BOAT HARBOR 259	127	95	159
SOCKEYE					72,357	55,149	91,915

COMMENTS:

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

--