

2018 ANNUAL MANAGEMENT PLAN
Haines Projects
Northern Southeast Regional Aquaculture Association

This plan remains in effect until superseded by the next year’s annual management plan (AMP). The AMP serves as an instruction manual for hatchery operations and adult return management; it is incumbent upon Alaska Department of Fish and Game (ADF&G) and hatchery staff to share information with each other regularly for successful adherence to this plan. Anticipated departures from the plan should be communicated as soon as possible in the event an amendment is necessary. Unintended and unexpected changes should be disclosed immediately. The ADF&G private nonprofit (PNP) coordinator will advise as to whether an amendment, exception report, or other action is warranted.

1.0 Executive Summary

1.1 *Introduction*

From 1984 until 2015, Northern Southeast Regional Aquaculture Association (NSRAA) successfully used streamside incubators to increase egg-to-fry survival of wild chum salmon in the Klehini and Chilkat rivers. Green eggs were collected from adult chum salmon returning to areas close to release locations. Broodstock were captured with beach seines and dip nets. Carcasses from broodstock were returned to the location from which they were collected. NSRAA does not currently have operational funding for egg take or weir operations this year.

1.2 *New this year (production, harvest management, culture techniques, etc.)*

No production planned this year.

1.3 *New permits or permit amendments*

No permit alterations, fish transport permits (FTP), or amendments are needed this year.

1.4 *Expected returns*

Species, run	Program Name	Projected Common Property Harvest	Other¹	Total Projected Return, Current Year
Chum salmon, fall	31-Mile	2,966	4,449	7,415
Chum salmon, fall	Herman Creek	5,848	8,772	14,620
Chum salmon, fall	17-Mile	4,548	6,822	11,370
Total		13,362	20,043	33,405

¹Other includes broodstock, cost recovery, escapement, etc.

1.5 *Production summary*

No production since brood year 2014. No production planned this year.

1.6 *Current permitting*

In 1992, NSRAA was issued PNP Hatchery Permit #34 to operate the Haines projects. Permitted capacity is 2.4 million green chum salmon eggs for 17-Mile, 1.6 million green chum salmon eggs for Herman Creek, and 800,000 green chum salmon eggs for 31-Mile incubation projects. Permitted capacity for sockeye salmon is 2.0 million green eggs.

2.0 Herman Creek Spawning Channel Fall Chum Salmon Production

2.1 *Program details*

In 1996, construction of an infiltration gallery and pipeline to supply incubation boxes with water was completed at Herman Creek spawning channel. In 2004, permitted capacity at this site was increased to 1.6 million chum salmon eggs. No production is planned for this coming year.

2.2 *Egg takes*

Program Name	Ancestral Stock(s)	Egg-Take Site	Primary or Alternate Source?	Current Year Egg Goal	Permitted Maximum
Herman Creek spawning channel chum salmon incubation	Klehini River	Herman Creek spawning channel	Primary	0	1,600,000
Herman Creek spawning channel chum salmon incubation	Klehini River	New channel adjacent to Herman Creek	Primary	0	1,600,000
Herman Creek spawning channel chum salmon incubation	Klehini River	Herman Creek	Secondary	0	1,600,000

2.3 *Broodstock capture method*

No broodstock collection is planned for this year.

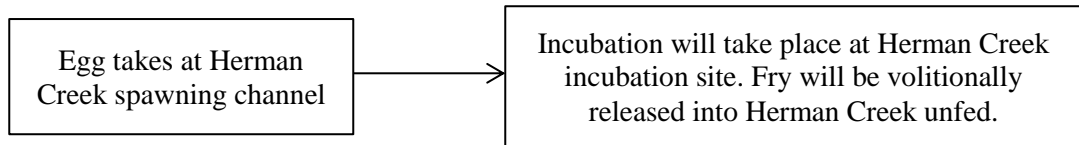
2.4 *Planned releases this calendar year of previous brood year's production*

None.

2.5 *Previous brood years that will remain in culture during the entire calendar year*

Program Name	Brood Year	Number Live (Jan. 1)	Life Stage	Type of Mark, % to Mark	Number to Release, Date
None					

2.6 *Operational diagram*



2.7 *Fish transport permits*

FTP #	Egg take, transport, or release	Transport from to	Maximal #, life stage	Expires
11J-1017	Egg take, release	Herman Creek	1,600,000 green eggs	8/01/2021

3.0 17-Mile Fall Chum Salmon Incubation Boxes

3.1 *Program details*

The 17-Mile chum salmon incubation site was developed as mitigation for loss of spawning habitat upstream of an improperly placed culvert. The broodstock collection sites for this project were 17-Mile slough, 24-Mile spawning channel, and 3 miles south of latitude 59°21.680'. In 2004, a new infiltration gallery was installed, and the number of incubation boxes was increased from two to four boxes. No production is planned for this year.

3.2 *Egg takes*

Program Name	Ancestral Stock(s)	Egg-Take Site	Primary or Alternate Source?	Current Year Egg Goal	Permitted Maximum
17-Mile chum salmon incubation	Chilkat River	24-Mile spawning channel	Primary	0	2,400,000
17-Mile chum salmon incubation	Chilkat River	17-Mile spawning channel	Primary	0	2,400,000
17-Mile chum salmon incubation	Chilkat River	Chilkat River	Secondary	0	2,400,000

3.3 *Broodstock capture method*

No broodstock collection is planned for this year.

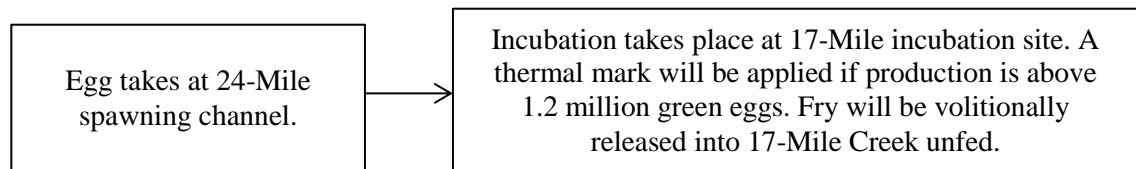
3.4 *Planned releases this calendar year of previous brood years' production*

None

3.5 *Previous brood years that will remain in culture during the entire calendar year*

Program Name	Brood Year	Number Live	Life Stage	Type of Mark, % to Mark	Number to Release, Date
None					

3.6 *Operational diagram*



3.7 *Fish transport permits*

FTP #	Egg take, transport, or release	Transport from To	Maximal #, life stage	Expires
95J-1019	Egg take, transport, release	24-Mile spawning channel to 17-Mile chum salmon incubation	2,400,000 green eggs	12/31/2021

4.0 31-Mile Fall Chum Salmon Incubation

4.1 Program details

The 31-Mile chum salmon incubation area has been adversely affected by both the incursion of Klehini River and rebuilding of Haines Highway. To improve fish access to upstream spawning and rearing habitat, ADF&G removed an impoundment supplying water to incubators and installed an off-channel water intake system that now supplies water to the incubators. No production is planned this year.

4.2 Egg takes

Program Name	Ancestral Stock(s)	Egg-Take Site	Primary or Alternate Source?	Current Year Egg Goal	Permitted Maximum
31-Mile chum salmon incubation	Klehini River	31-Mile chum salmon spawning channel	Primary	0	800,000
31-Mile chum salmon incubation	Klehini River	Herman Creek Spawning Channel	Secondary	0	800,000
31-Mile chum salmon incubation	Klehini River	New Spawning Channel Adjacent to Herman Creek	Secondary	0	800,000

4.3 Broodstock capture method

No broodstock collection planned for this year.

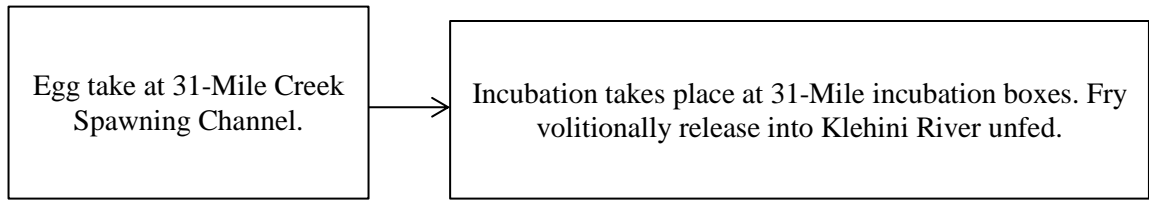
4.4 Planned releases this calendar year of previous brood years' production.

None.

4.5 Previous brood years that will remain in culture during the entire calendar year.

Program Name	Brood Year	Number Live	Life Stage	Type of Mark, % to Mark	Number to Release, Date
None					

4.6 *Operational diagram*



4.7 *Fish transport permits*

FTP #	Egg take, transport, or release	Transport from □□ to	Maximal #, life stage	Expires
11J-1019	Egg take, transport, release	Herman Creek spawning channel to 31-Mile chum salmon incubation	800,000 green eggs	8/15/2021

5.0 Harvest Management

5.1 *Special harvest area*

There is no special harvest area associated with these releases.

5.2 *Projected return this year*

Species, run	Program Name	Projected Common Property Harvest	Other ¹	Total Projected Return, Current Year
Chum salmon, fall	31-Mile	2,966	4,449	7,415
Chum salmon, fall	Herman Creek	5,848	8,772	14,620
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Total		13,362	20,043	33,405

¹Other includes broodstock, cost recovery, escapement, etc.

5.3 *Common property fisheries management*

Commercial fisheries

The return of chum salmon from 31-Mile and Herman Creek spawning channel is managed in conjunction with the natural return of chum salmon to Klehini River. The size of this project warrants no special fishery management.

The return of chum salmon from the 17-Mile incubation site is managed in conjunction with

the natural return of chum salmon to Chilkat River. The size of this project warrants no special fishery management.

Sport fisheries

The sport fisheries harvest of chum salmon is insignificant for all three releases. Sport fisheries will be managed as described in codified regulations for these waters. The department may use emergency order authority to address issues as they arise in season.

5.4 *Cost-recovery harvest management*

Species	Cost-Recovery Goal
Chum salmon	None

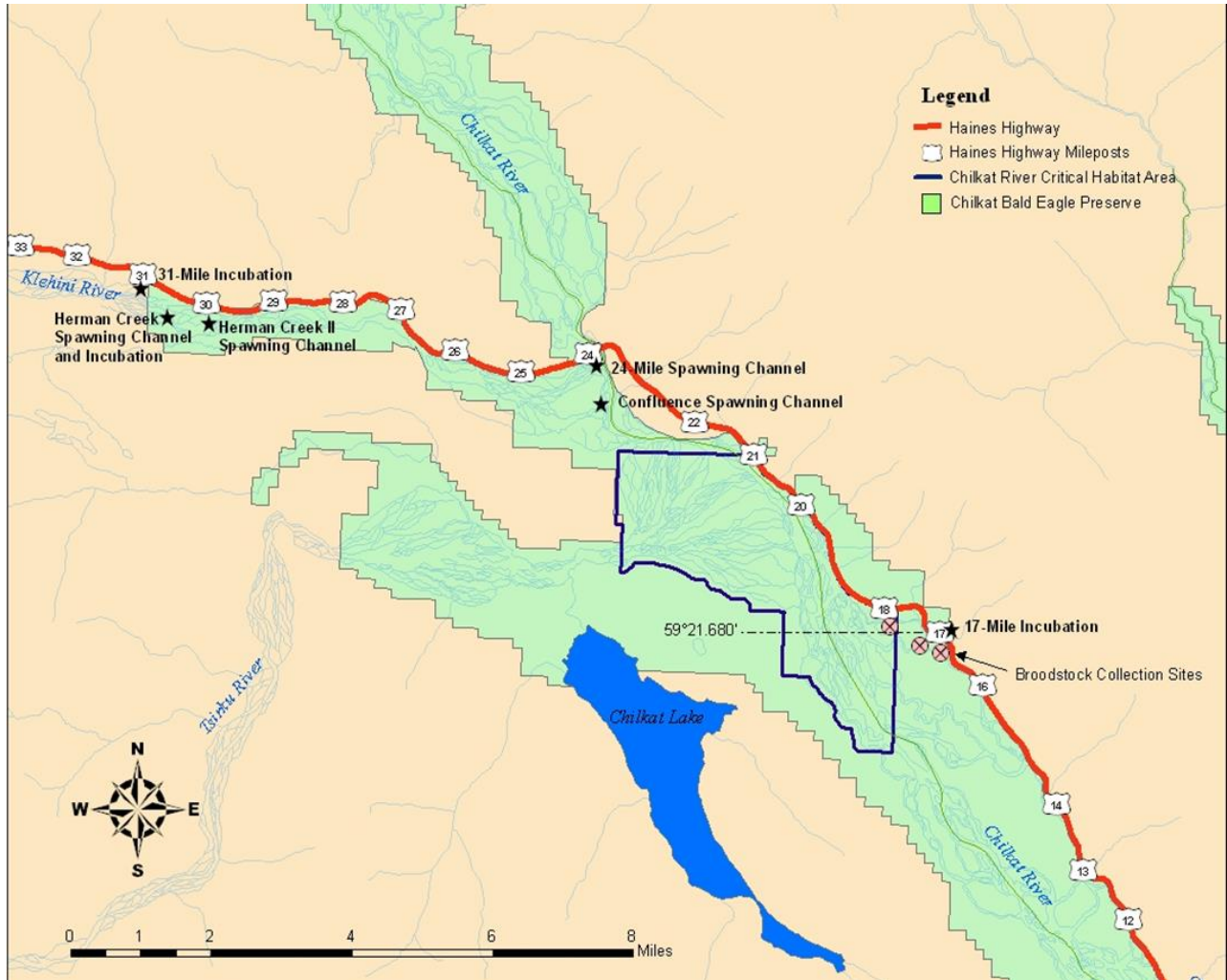
6.0 Additional Information

None

7.0 APPENDICES

- Maps:
Figure 1.–Haines Project Locations.

Figure 1. – Haines Project Locations



8.0 APPROVAL

Recommendation for Approval: Haines Projects Hatchery Annual Management Plan, 2018

Approved via email, 4/25/2018

Scott Wagner, NSRAA

Approved via email, 4/23/2018

Richard Chapell, Area Management Biologist, Division of Sport Fish

Approved via email, 5/1/2018

Wyatt J Rhea-Fournier, Area Management Biologist, Division of Commercial Fisheries

Approved via email, 5/1/2018

Judy Lum, Regional Supervisor, Division of Sport Fish

Approved via email, 4/23/2018

Lowell Fair, Regional Supervisor, Division of Commercial Fisheries

Approved via email, 5/1/2018

Flip Pryor, Regional Resource Development Biologist,
Division of Commercial Fisheries

Approved via email, 5/1/2018

Lorraine Vercessi, PNP Hatchery Program Coordinator,
Division of Commercial Fisheries

Approval:

The 2018 Haines Projects Hatchery Annual Management Plan is hereby approved:

Approved via email, 5/3/2018

Tom Taube, Deputy Director, Division of Sport Fish

Approved via email, 5/8/2018

Peter Bangs, Deputy Director, Division of Commercial Fisheries

