Agenda
Alaska Hatchery Research Project Informational Meeting
March 9, 2022
Crown Plaza Anchorage-Midtown
9:00 AM to 5:00 PM

Introductions

9:00 Science Panel Members **(Bill Templin)**
Contractors: Prince William Sound Science Center & Sitka Sound Science Center
Alaska Department of Fish and Game

Introduction to AHRP

9:10 Background to the AHRP **(John Burke)**

9:35 Priority research questions **(John Burke)**

1. What is the genetic stock structure of pink and chum salmon in each region?
2. What is the extent and annual variability in straying of hatchery pink salmon in Prince William Sound (PWS) and chum salmon in PWS and Southeast Alaska (SEAK)?
3. What is the impact on fitness (productivity) of wild pink and chum salmon stocks due to straying of hatchery pink and chum salmon?

9:40 Funding/Budget **(Flip Prior)**
Primary funding sources
State of Alaska
Private non-profit hatchery operators
Processors
Proposals submitted for outside funding
Northern Fund
North Pacific Research Board
Saltonstall-Kennedy
Pacific States Marine Fisheries Commission

Question 1: What is the genetic stock structure of pink and chum salmon in each region?

9:50 Population structure: chum salmon in SEAK **(Chris Habicht)**
10:10 Population structure: pink salmon in PWS **(Wei Cheng)**

Break **10:25** 10-minute break

Question 2: What is the extent and annual variability in straying of hatchery pink salmon in Prince William Sound (PWS) and chum salmon in PWS and Southeast Alaska (SEAK)?

10:35 Sampling for hatchery fish in streams; pink and chum salmon PWS **(Pete Rand)**
10:45 Proportion of hatchery pink and chum in streams by year for PWS Districts and Area **(Pete Rand)**
10:55 Sampling for hatchery fish in streams and estimating proportion of chum salmon in wild stock systems by geographic area in SEAK **(Alex Wertheimer)**

Question 3: What is the impact on fitness (productivity) of wild pink and chum salmon stocks due to straying of hatchery pink and chum salmon?

11:30 PWS ocean sampling, overall estimates of run sizes in PWS, estimated harvest rates **(Pete Rand)**

1st Public Comment and Discussion Session

11:50 Comments

Lunch Break **12:00 – 1:15** Lunch (not provided)

Changes to the experimental design

1:15 Description of changes to plan **(Chris Habicht)**

1:20 Statistical power analysis **(Kyle Shedd)**

Fitness Studies – PWS Pink Salmon

1:30 Development of genetic markers **(Tyler Dann)**

1:35 Pedigree sampling **(Pete Rand)**

1:50 Pink salmon pedigree analyses methods **(Kyle Shedd)**

2:15 Pink Salmon pedigree analyses and remaining work **(Kyle Shedd)**

Fitness Studies – SEAK Chum Salmon

2:50 Progress on genetic markers **(Kristen Gruenthal)**

2:45 Pedigree sampling **(Ron Heinz)**

3:00 Chum salmon pedigree analyses and remaining work **(Kyle Shedd)**

Communication of Research

3:10 Timeline for publications and presentations **(Bill Templin)**

Conclusion of AHRP-funded analyses

Break **3:15** 15-minute break

Department Framework for Interpretation of Results

3:30 Mechanisms **(Chris Habicht)**

3:40 Review of evidence of genetic interaction between hatchery and wild pink salmon in Prince William Sound **(Chris Habicht)**

2nd Public comment session and wrap-up

4:10 Discussion

5:00 Meeting end