



Douglas Island Pink & Chum Inc. Juneau's Salmon Hatchery

Southeast Conference Ketchikan – September 2022

Katie Harms

Executive Director

Douglas Island Pink and Chum, Inc.





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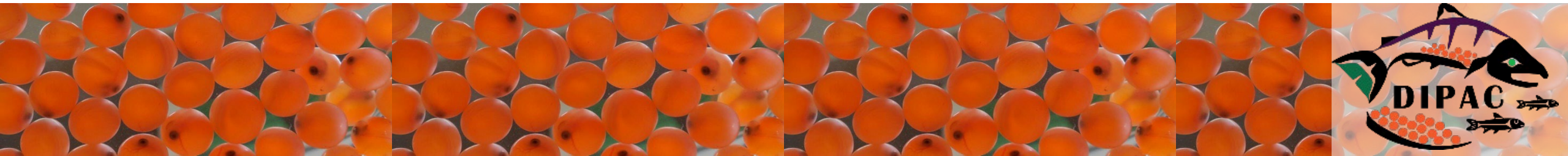
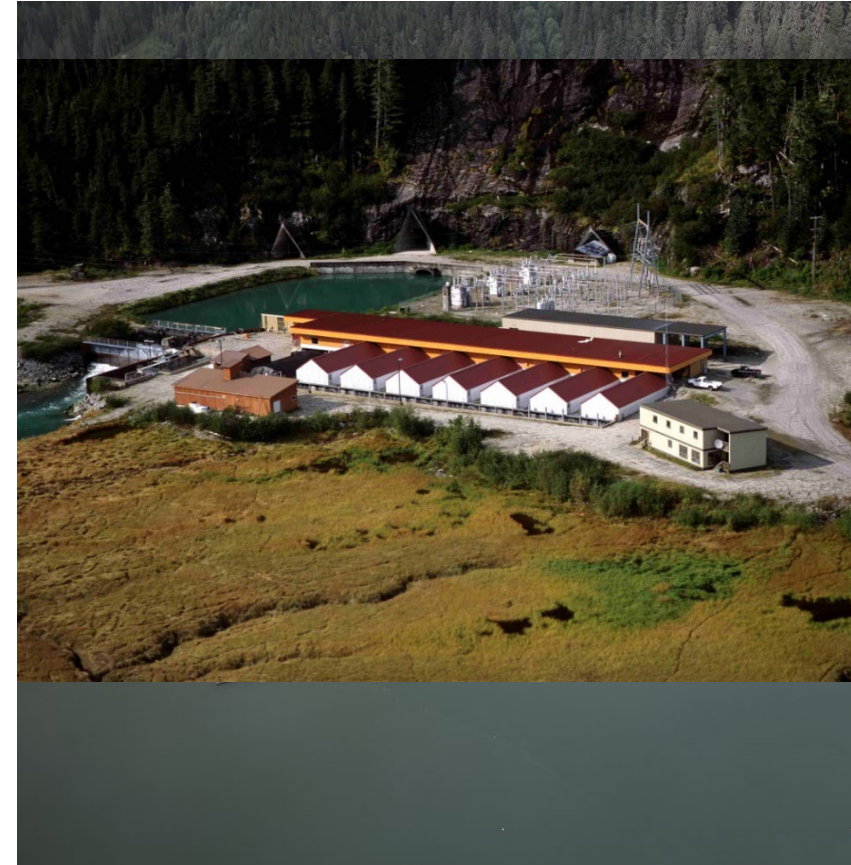
Mission Statement:

...to sustain and enhance valuable salmon resources of the State of Alaska for the economic, social, and cultural benefit of all citizens, and to promote public understanding of Alaska's salmon resources and salmon fisheries through research, education, and tourism.



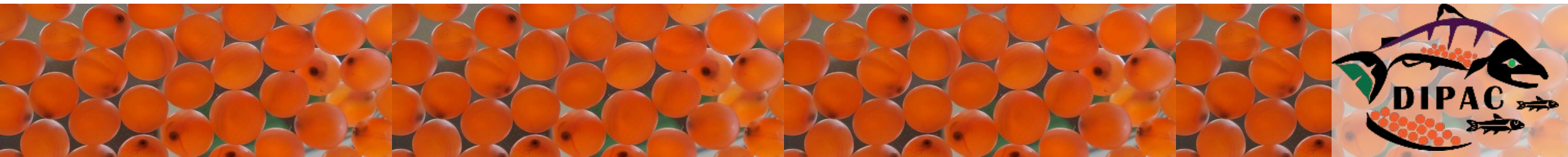
Historical Background

- 1976: Ladd Macaulay started Kowee Creek hatchery
- 1980: Sheep Creek Hatchery constructed
- 1989: Macaulay Hatchery construction finished
- 1996: Assumed the state operational contract for Snettisham Hatchery



Educational Initiatives

- Scholarship program since 2011
 - 70 baccalaureate and vocational scholarships have been awarded (total \$720k), ~\$60k annually.
- Fellowship program since 2013
 - 3 Masters Students at UAF CFOS have been funded through a \$1.5 M endowment fund
 - 4th Masters/PhD is in the process of being identified for fellowship funding
- Since 1992 our Visitor Center has hosted
 - Fall Field Trip program for pre-K through 5th grade
 - Spring Sea Week for 2nd graders
- 2014-2019 DIPAC annually funded two Marine Science programs with the JSD high schools
- In 2019, Visitor Center provided educational tours to over 4k students and welcomed 90k tourists.
- 2022 welcomed tourist and students in person again for the first time since the pandemic closure in 2020.



Salmon Species Reared

DIPAC

- Chinook
- Coho



ery

(12.5 M release goal)
since 1989

- Chinook



(100 k release goal)
1984

- Coho

(1 M release goal)

Snettish

- Sockeye



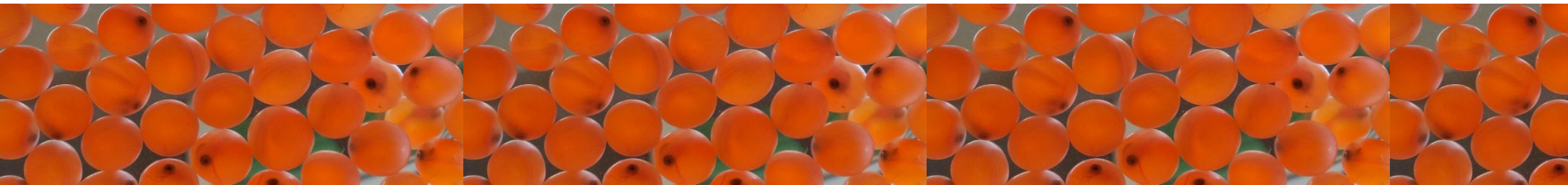
(19 M release goal)
taken over from

- 12.5 M eggtake goal (9 M release goal)

- 500
- Up
- sup
- 100

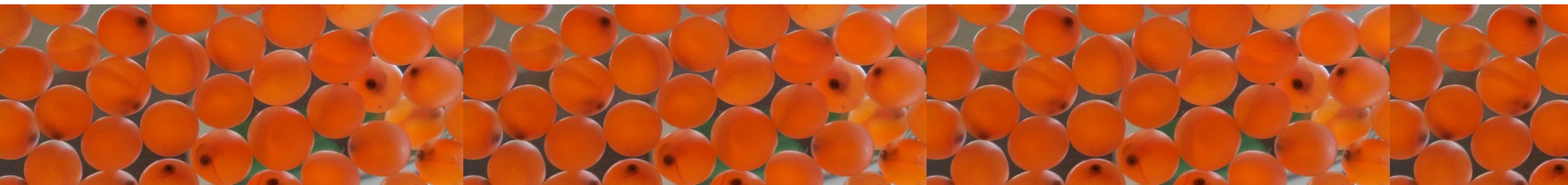


Boundary River
1996

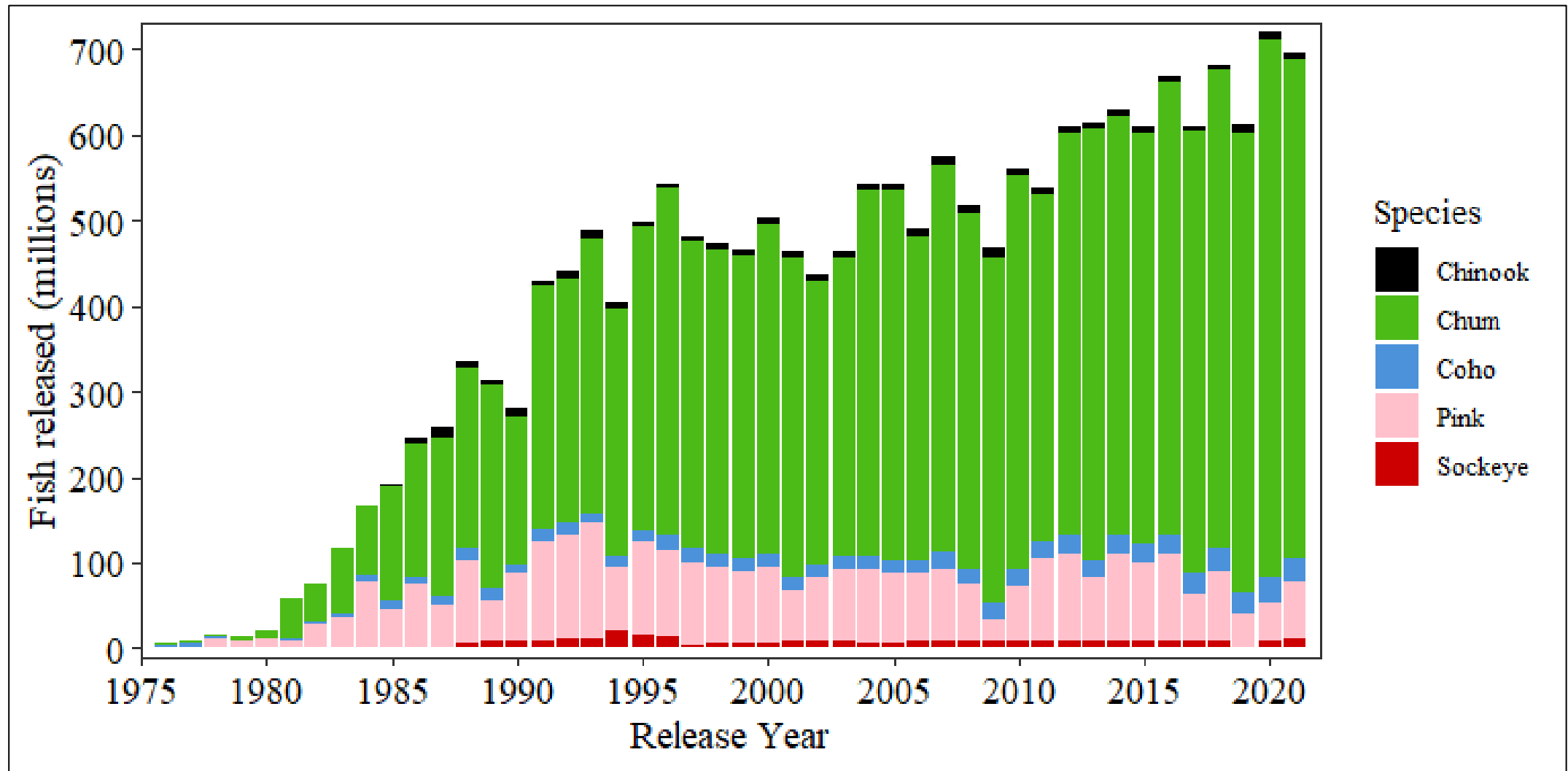


Fisheries Contributions (1979 – 2021)

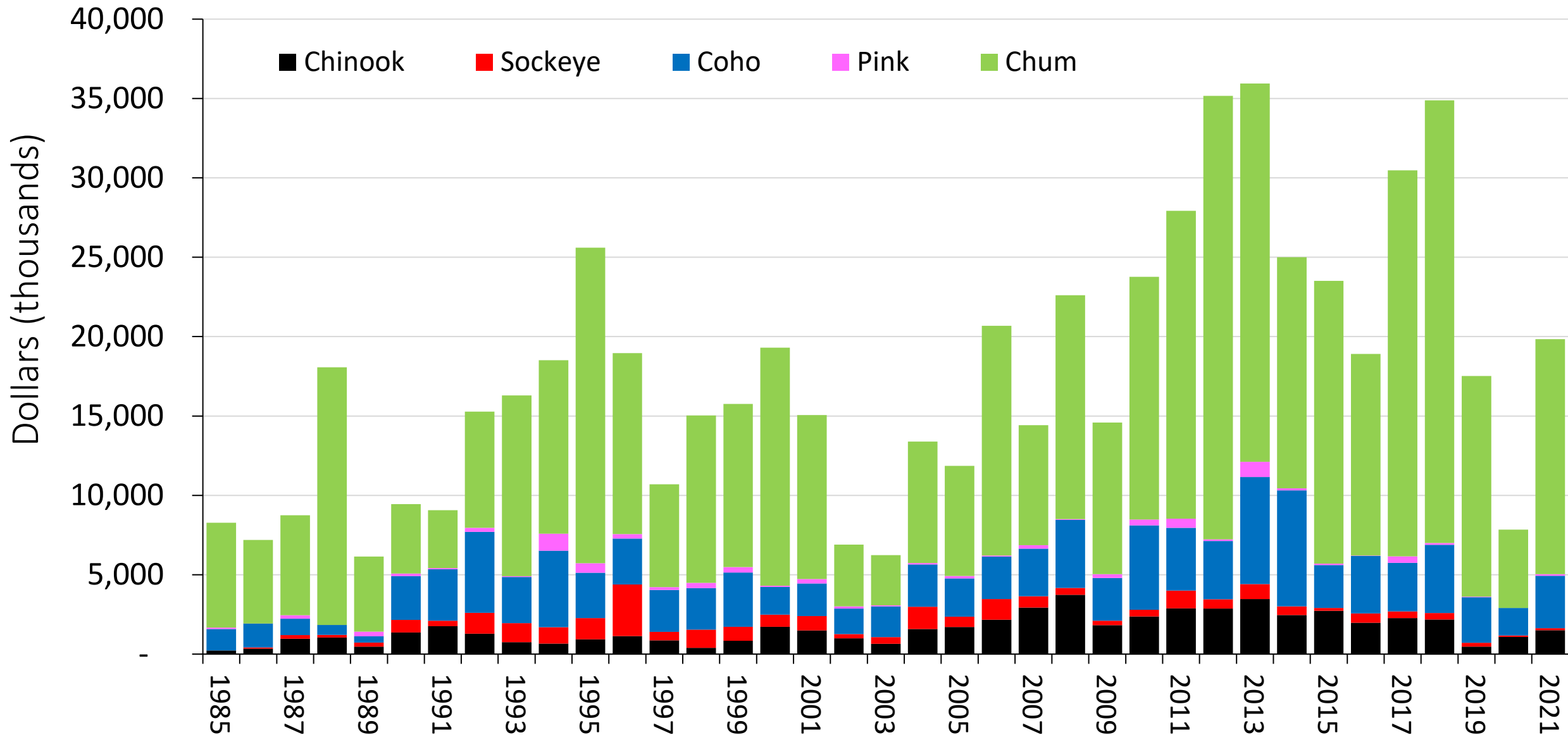
- Commercial harvest = **42 M salmon**
- Sport harvest = **594 k salmon**
- Exvessel value = **\$199 M**
- 5 years of Juneau sportfishing
 - **51,000 Coho**
 - **26,000 Sockeye**
 - **18,000 King**



SEAK Hatcheries Annual Releases of Salmon



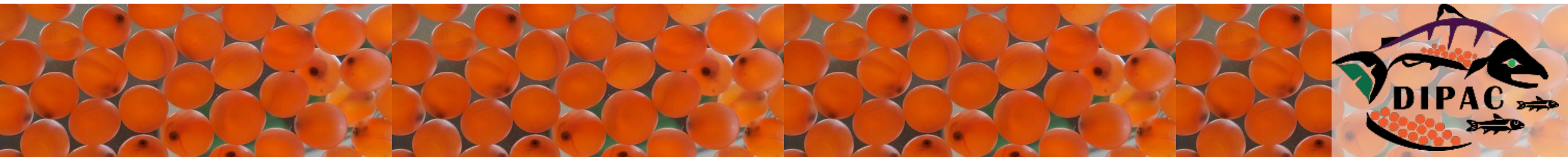
Exvessel Value of the Commercial Common Property Harvest of Hatchery-Produced Salmon in Southeast Alaska, 1985–2021.



McDowell Group: Region-wide PNP Contributions (2012 – 2016)

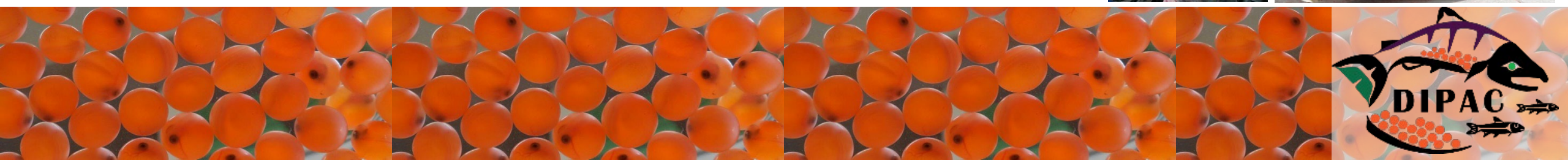
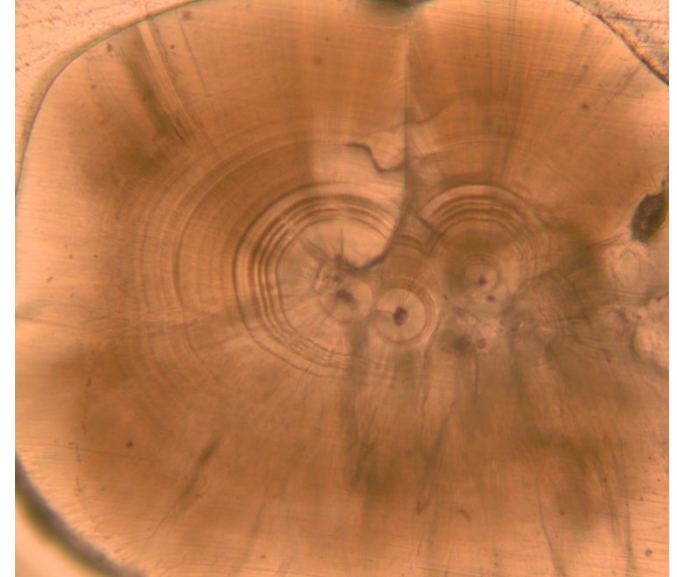


Annual Estimated Sport & Subsistence Harvest					
	Chinook	Chum	Coho	Pink	Sockeye
Sport Harvest	10,000	5,000	100,000	19,000	138,000
P.U./Subsistence (Sockeye)	PWSAC	DIPAC	KRAA	CIAA	
	102,500	3,725	2,900	1,355	



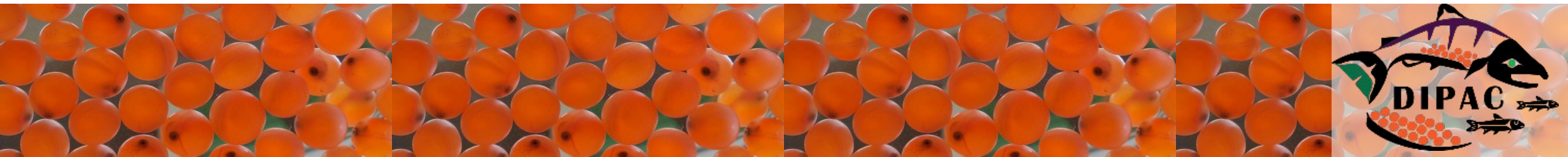
In-Season Run Analysis & Data Sharing

- DIPAC (as well as SSRAA and NSRAA) conduct catch sampling of commercial and cost recovery vessels.
- We perform our own in-season analysis of otolith data to determine hatchery contribution to catch, as well as sex and age composition, which we share with other organizations for a better understanding of run size and marine survival.
- In-season analyses aid ADF&G management in prosecuting fisheries in a way that best protects wild stocks.

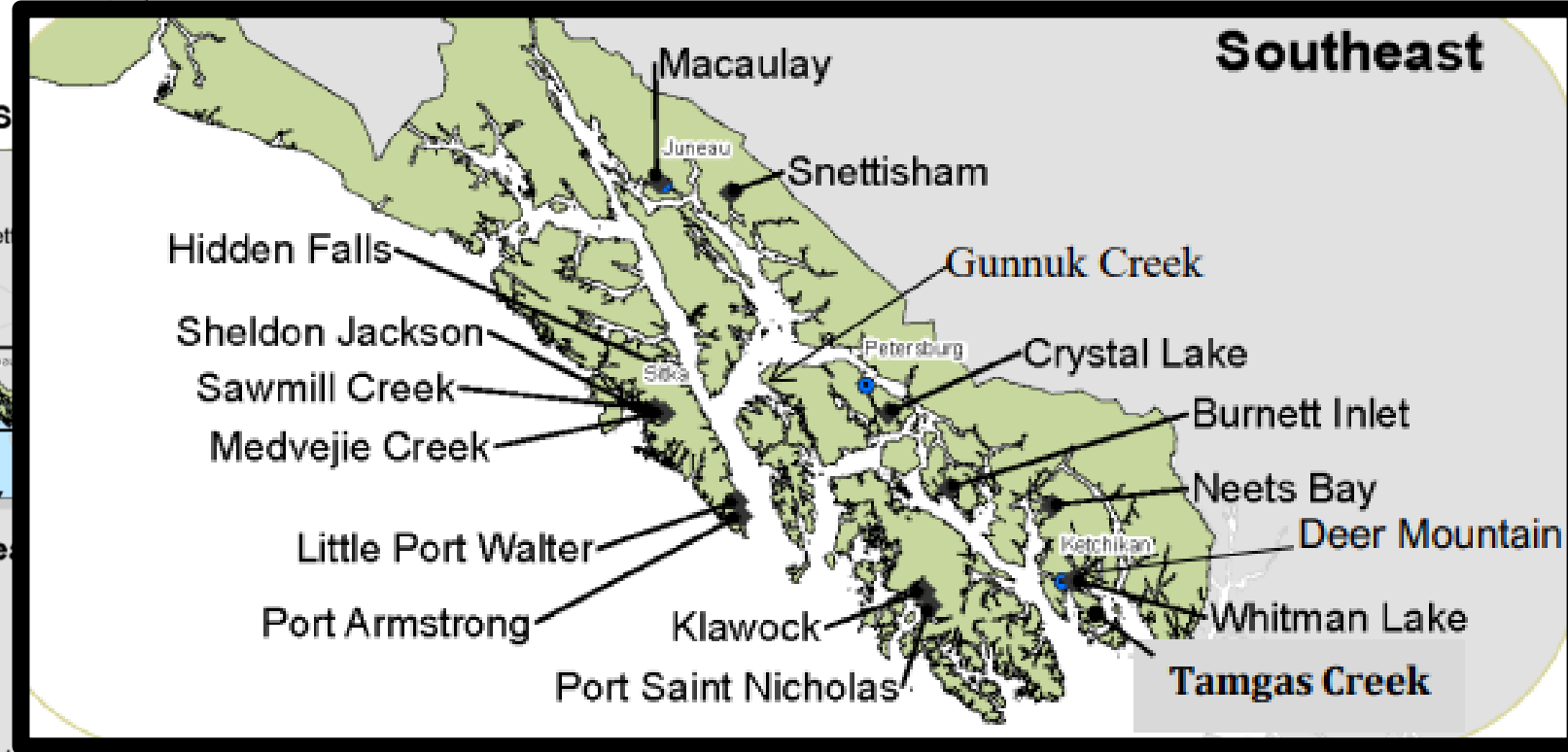
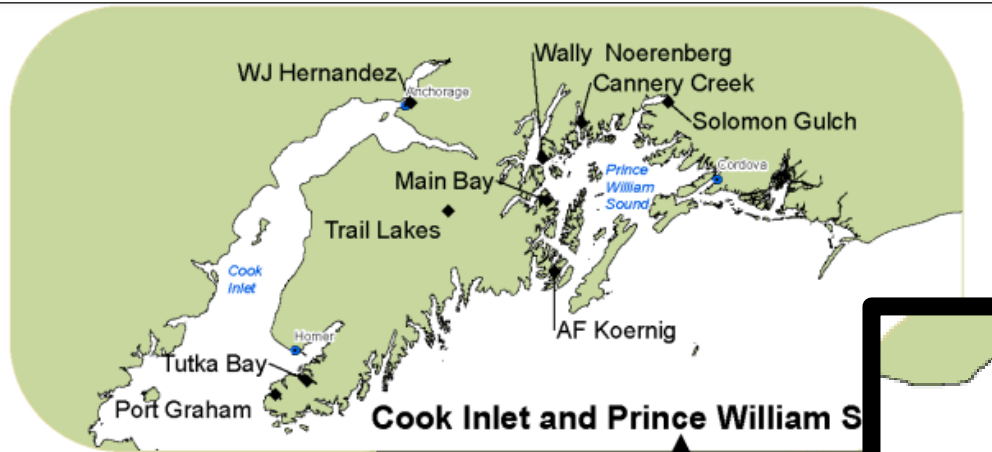


Hatchery Wild Research Project

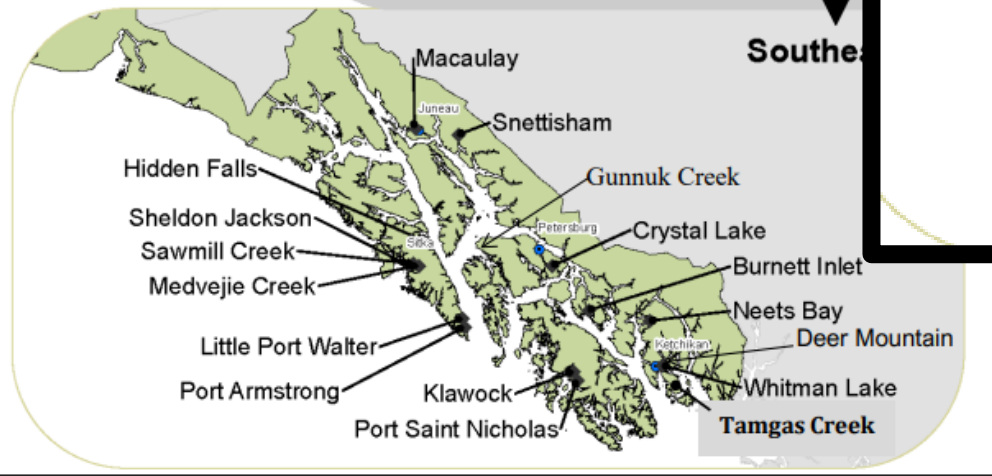
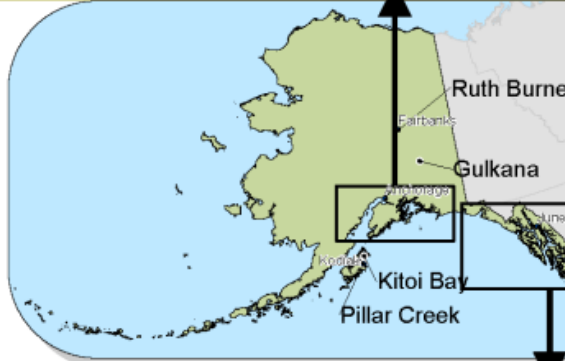
- ADF&G organized and implemented study addressing key knowledge gaps
 1. What is the genetic stock structure of pink salmon in Prince William Sound (PWS) and chum salmon in Southeast Alaska (SEAK)?
 2. What is the extent and annual variability in straying of hatchery pink salmon in PWS and chum salmon in PWS and 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?
- DIPAC has funded over \$2M towards this research
- Updates found:
http://www.adfg.alaska.gov/index.cfm?adfg=fishingHatcheriesResearch.findings_updates



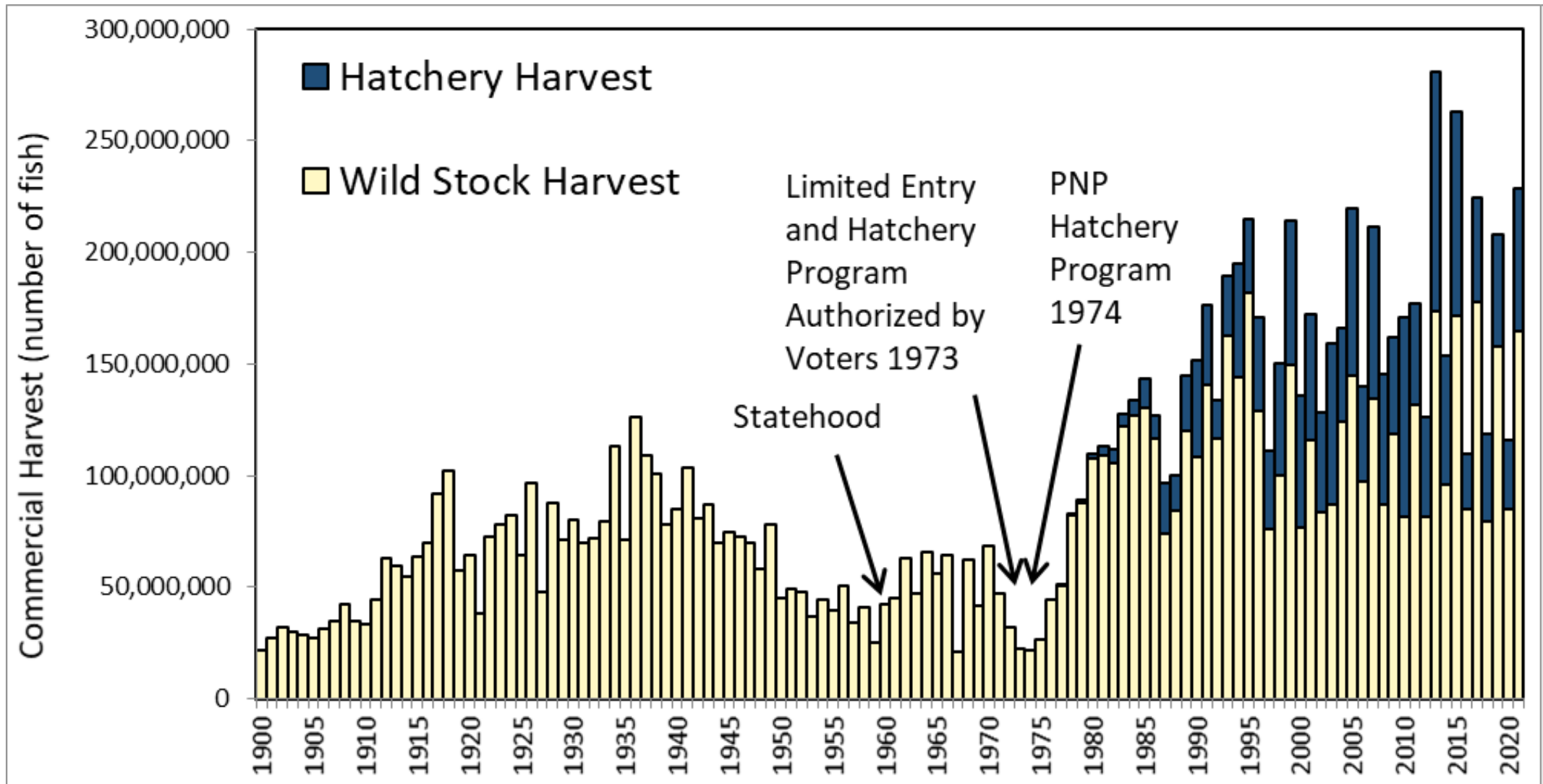
Locations of Hatcheries in Alaska



Locations of Alaska Hatcheries



The Modern Alaska Hatchery Program





Thank you!