

Alaskan Salmon Aquaculture

An Overview

Allen Edsall

- **70% decline in salmon harvests**
- **Over-fishing & salmon traps**
- **Traps banned**
- **ADF&G assumes management 1971**

- **Fishermen reject private aquaculture of any sort**
- **Adopt PNP's as a means of inclusion**

The PNP's

- Prince William Sound Aquaculture
- Cook Inlet Regional Aquaculture
- Kodiak Regional Aquaculture
- Southern SE Regional Aquaculture
- Northern SE Regional Aquaculture

Alaskan Hatchery System

- 2 state hatcheries
- 31 PNP operated
- 1 tribal

ADF&G Oversight

- Genetic
- Pathology
- Tagging
- Reporting
- Fish transport
- Accounting
- Program reviews

PNP Board Member Seats

- **Purse seiners**
- **Gill netters**
- **Trollers**
- **Processors**
- **Sports**
- **Subsistence**
- **Municipality**

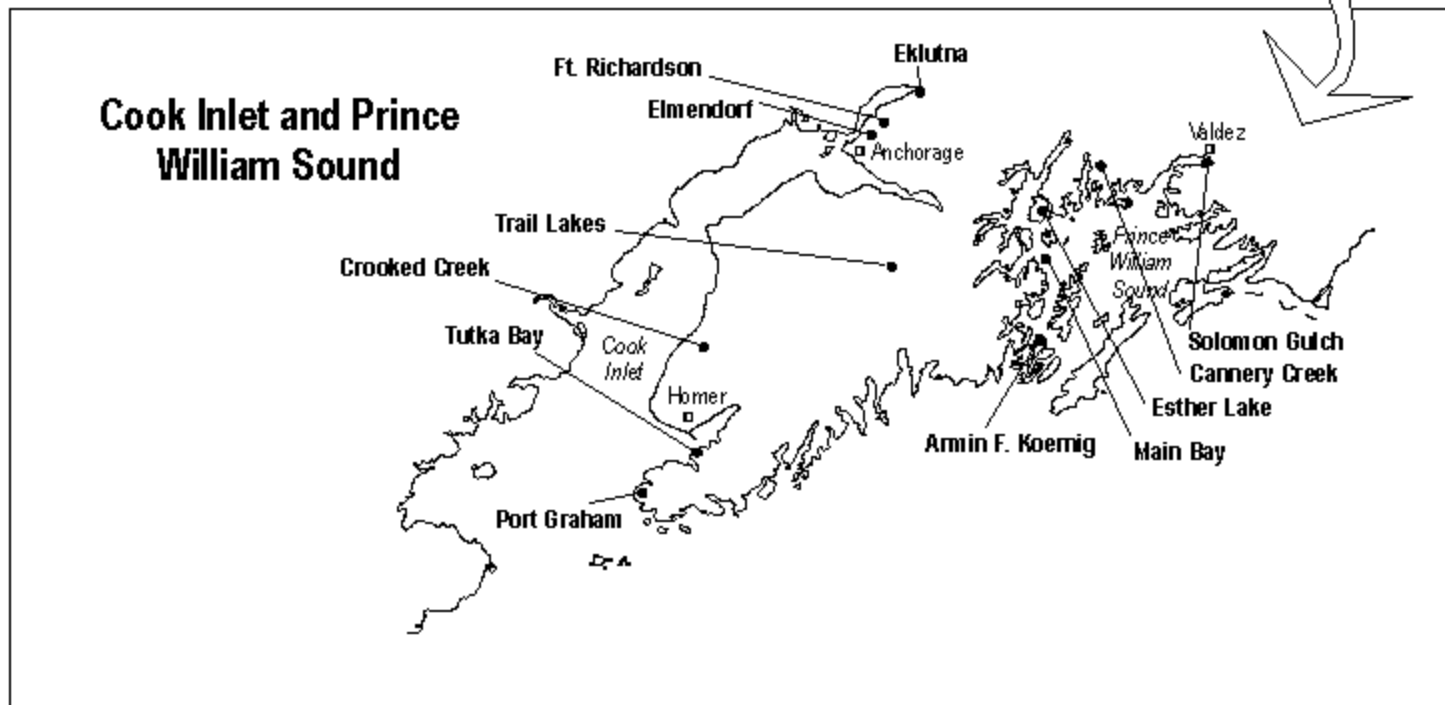
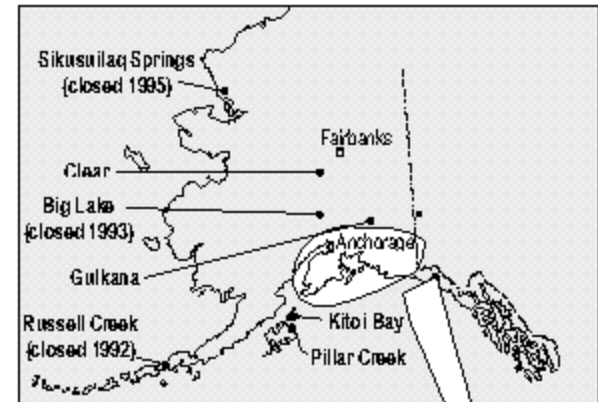
Revenues for PNP's

- Terminal area harvests (cost recovery)
- #3 % tax on salmon landings

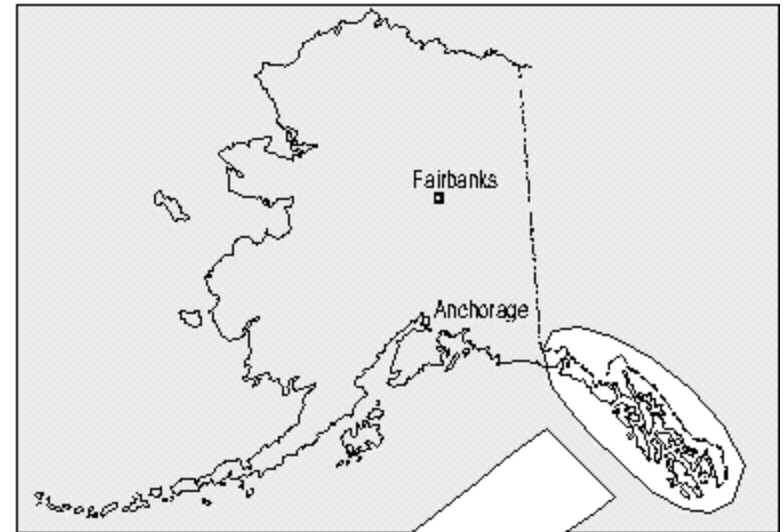
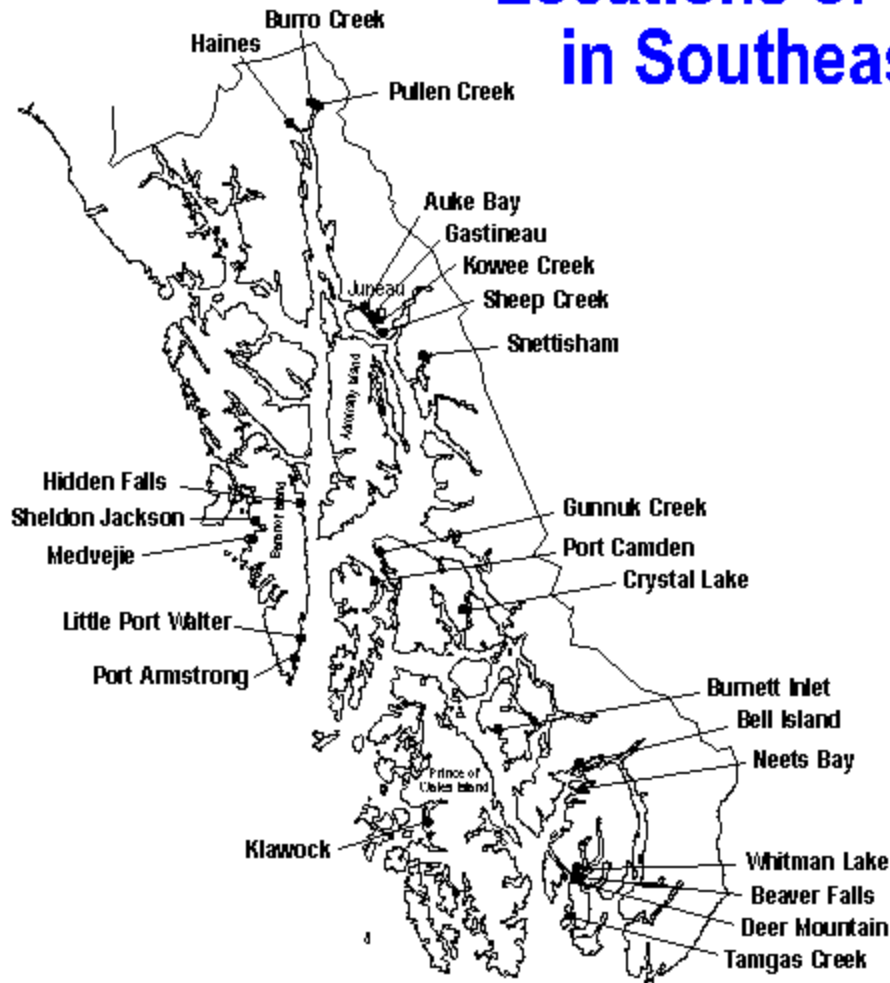


**Terminal area cost recovery of Pink Salmon at
Port Armstrong Hatchery in SE Alaska**

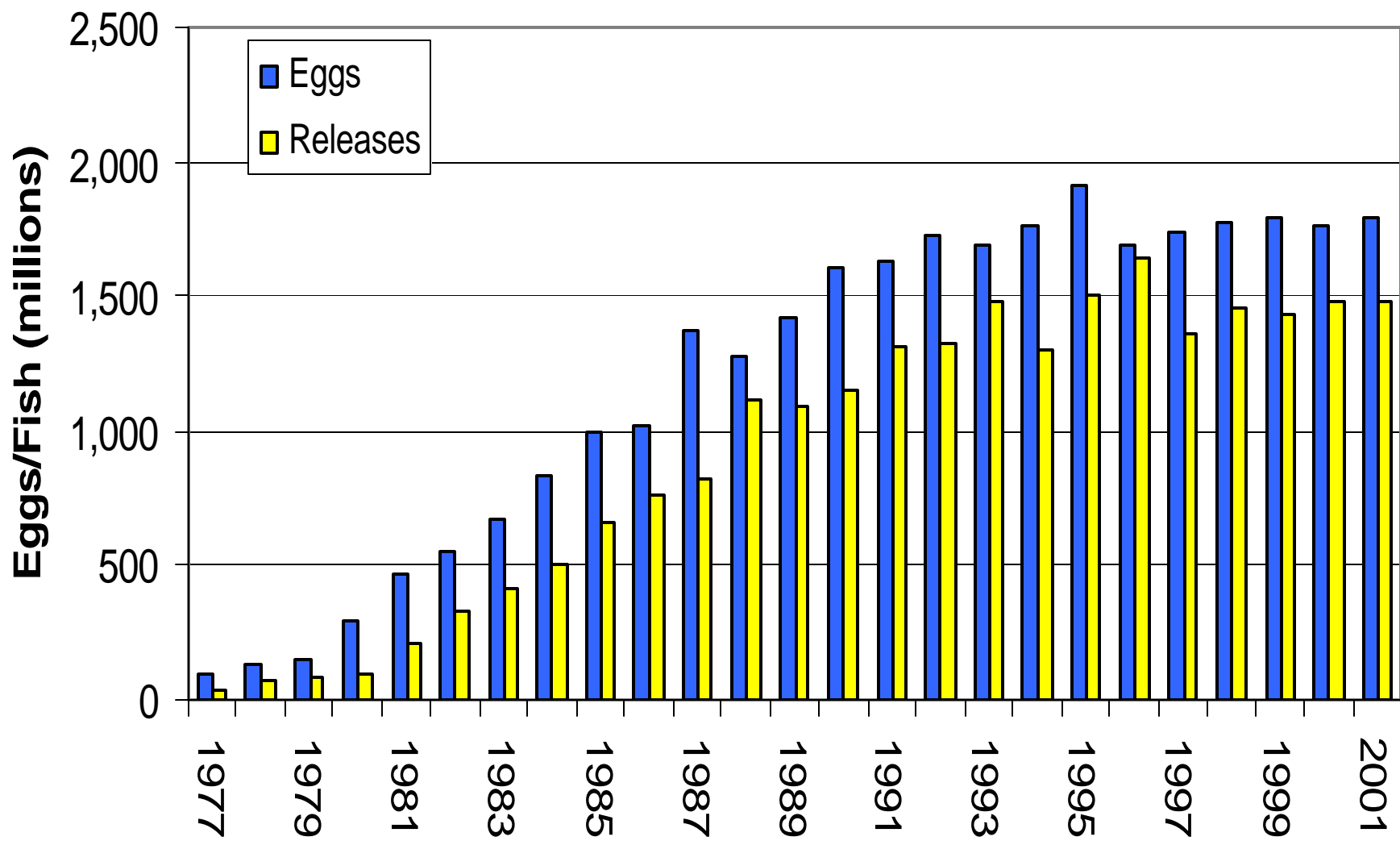
Locations of Hatcheries in Prince William Sound, Interior, and Southcentral Alaska

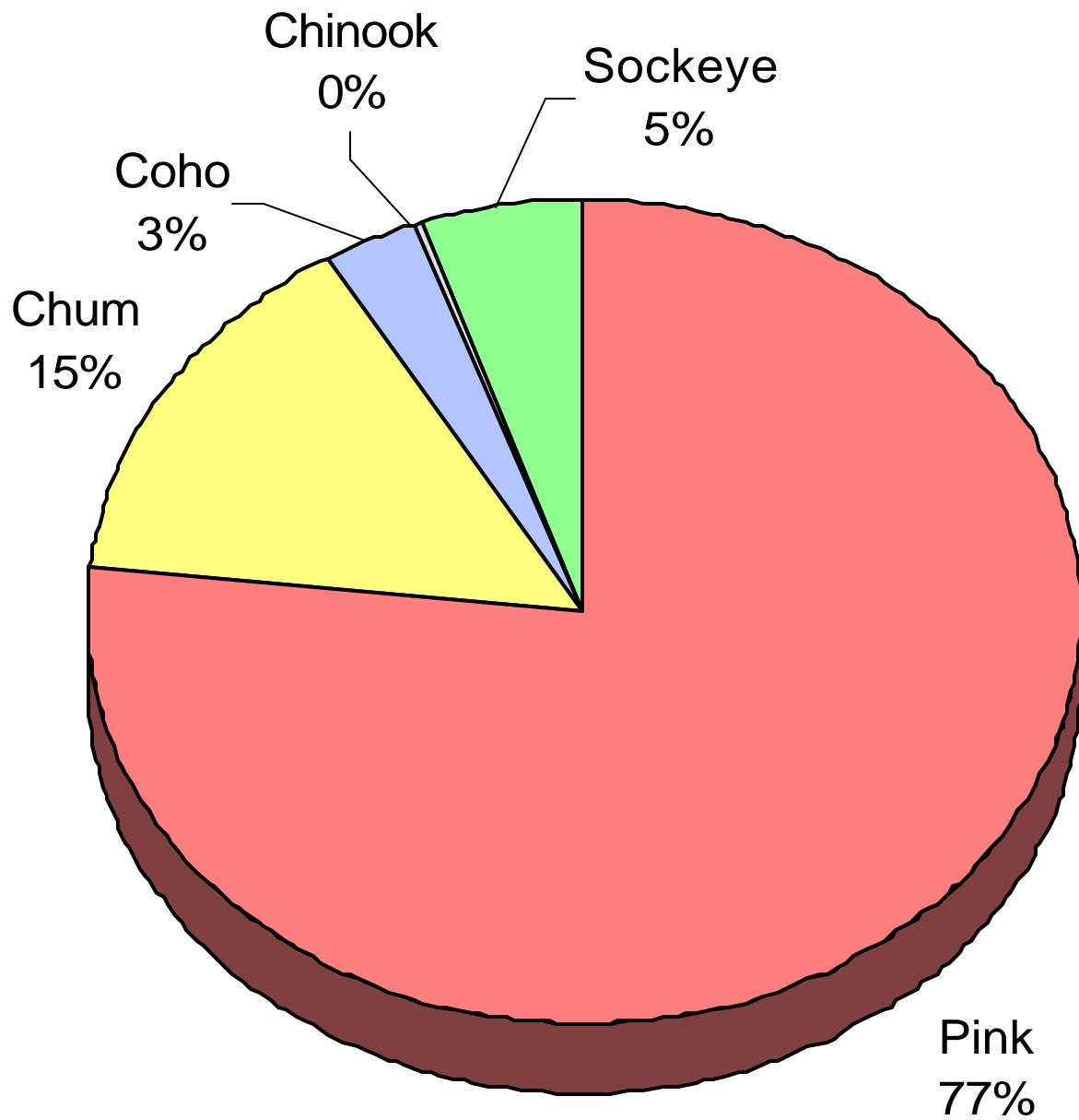


Locations of Hatcheries in Southeast Alaska

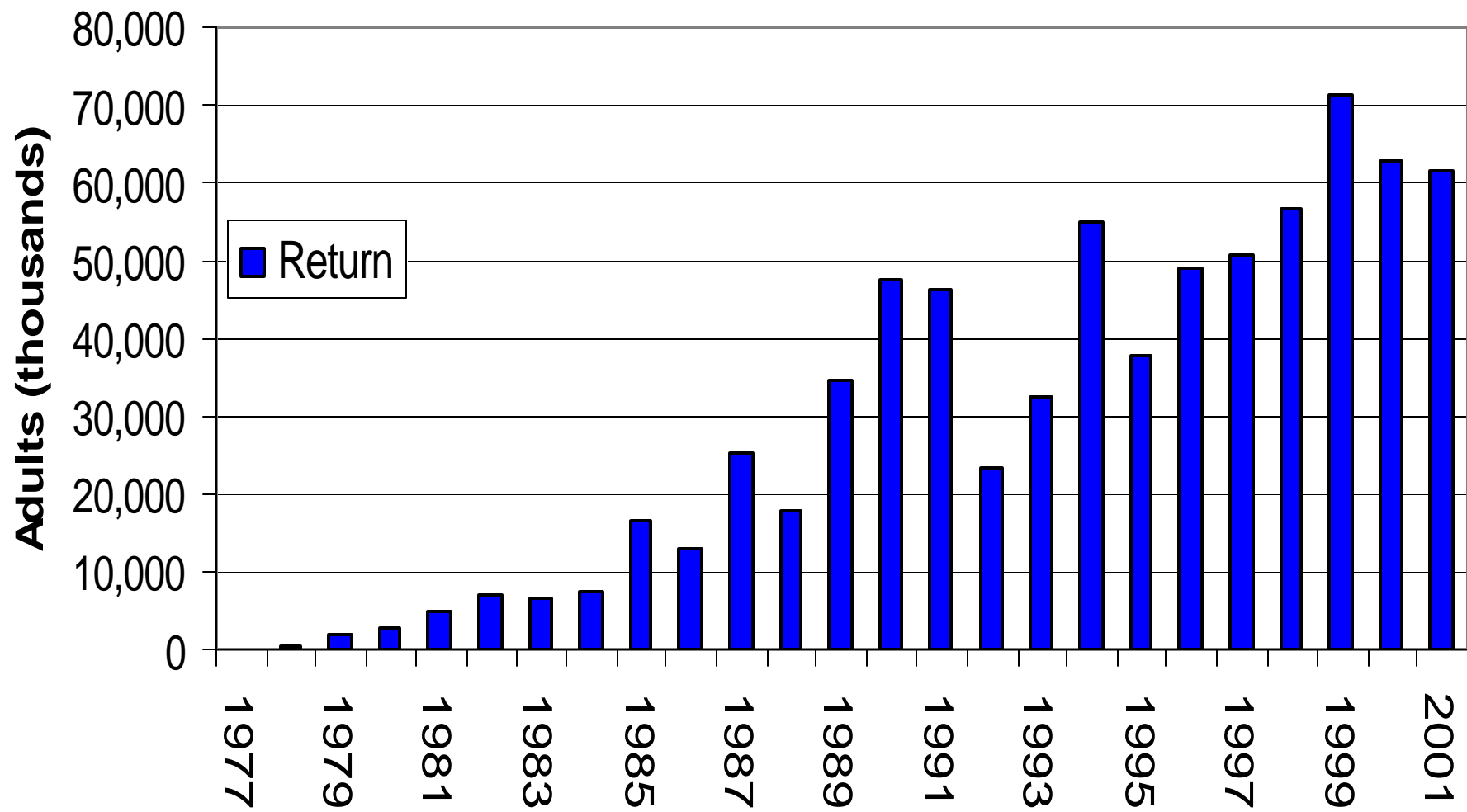








Catch by species 2000



Macaulay Salmon Hatchery, Juneau Alaska





AFK Hatchery , PWSAC



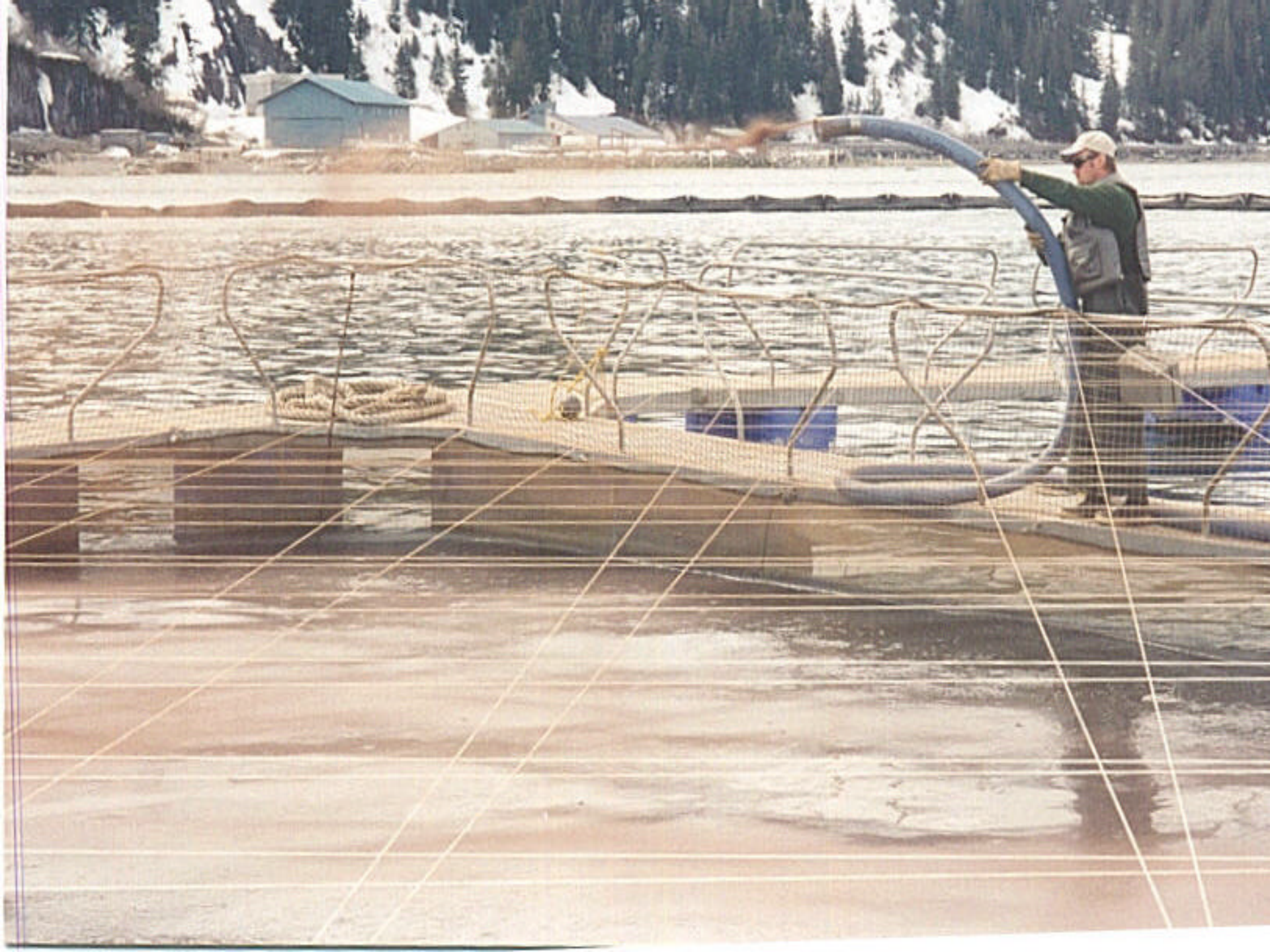
Solomon Gulch Hatchery, Valdez

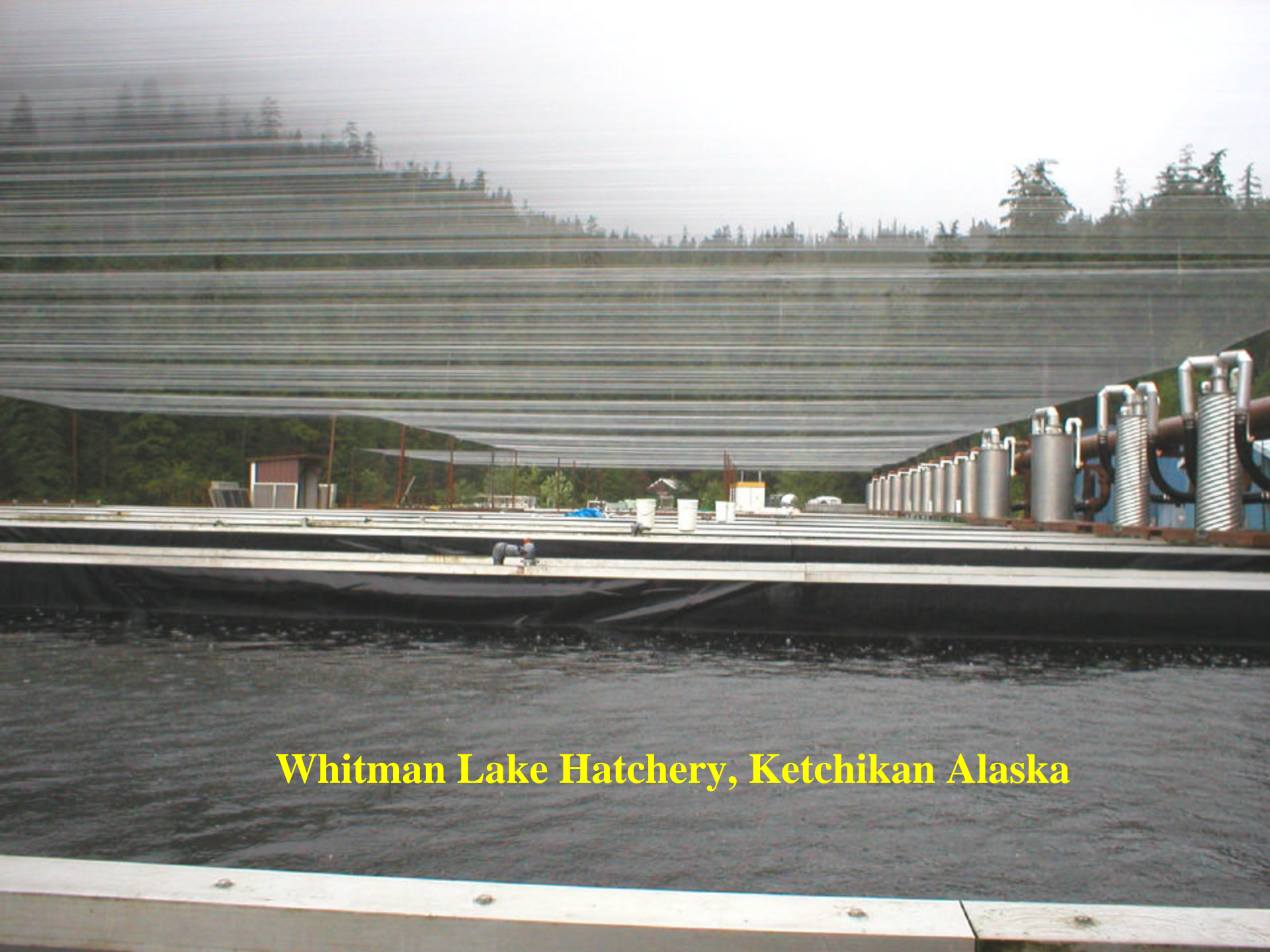
Wally Norenburg Hatchery
PWSAC





Main Bay Hatchery
PWSAC





Whitman Lake Hatchery, Ketchikan Alaska

Pillar Creek sockeye

enumerated for stocking in lakes on Kodiak



Pillar Creek sockeye airlifted to lake systems



Kitoi Hatchery, Kodiak



Survival Rates of Enhanced Salmon

- **Chum and Pinks** **2 to 3 %**
- **Coho** **10 to 15%**
- **Chinook** **2.5 to 4.5%**

Percent of Harvest of Enhanced Salmon by Region in 2001

- **Prince William Sound** **67%**
- **Kodiak region** **59%**
- **Cook inlet** **29%**
- **Southeast Alaska** **7 %**





Economic Value in 2001 to Fishermen

● PSWAC	17,000,000 \$
● CIAA	770,000 \$
● KRAA	4,000,000 \$
● SE Alaska	14,000,000 \$



Economic Benefit to S.E. Alaska

- **Provided 1400 jobs**
- **Payroll of 44 million**
- **171 million dollars of economic output**



The Result

- Mitigate the cyclical weakness in wild salmon runs
- Provide a focus to alleviate pressure on wild stocks
- Increase catch rate to the common property fisheries
- Economic Value
- Cultural Value
- Citizen involvement

Thanks to
Marianne McNair ADF&G retired
& ADF&G

