



Overview

- Background on Instream Flow Protection
- Water Reservations in Alaska
- ADF&G Current Southeast Alaska Projects

Summary of Alaska's Water Law

- Alaskan Constitution
 - Approved in 1959
 - Prior appropriation doctrine
- Alaska Water Use Act (AS 46.15)
 - Passed in 1966
 - Alaska DNR assigned the authority to administer water appropriation
 - Established the procedure for obtaining water rights for out-of-stream uses

Summary of Alaska's Water Law

- Reservation of Water amendment (AS 46.15.145)
 - Passed in 1980
 - Established the procedure for obtaining water rights for instream uses
 - Reservation of Water





Reservation of Water Alaska Statute 46.15.145

- Water management tool to protect stream flow and lake levels
- Instream flow: volume of water needed to protect resources and values:
 - Fish and wildlife habitat, migration, and propagation
 - Recreational activities
 - Navigation and transportation
 - Sanitation and water quality



Discussing Water Rights, A Western Pastime



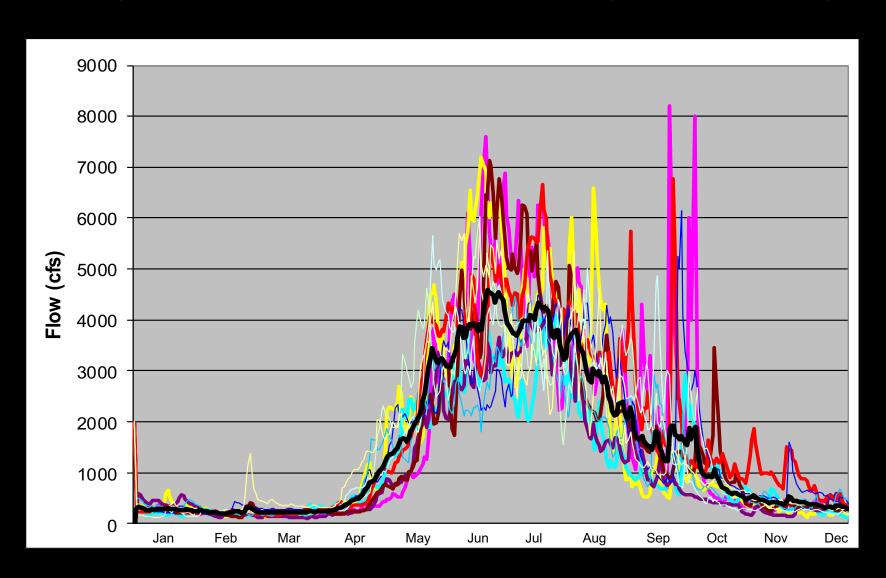
Estimation of Instream Flows Needed to Sustain Fish

 Application filed to DNR using scientific based methods calibrated to site-specific biological and hydrologic conditions

 Objective to recommend seasonal flow regimes that mimic natural conditions to which fish have adapted

Key Components of the Natural Flow Regime

Magnitude Frequency Duration Timing Rate of change



Fish Species Information

(Presence/absence, life phase, distribution, timing)

Example Fish Periodicity Table

Coho Salmon

Smolt Passage

Adult Passage

Spawning

Incubation

Rearing

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
			XXXX	XXXX	XX						
						XXXX	XXXX	XXXX	XXXX		
							XXXX	XXXX	XXXX	Х	
XXXX	XXXX	XXXX	XXXX				XXXX	XXXX	XXXX	XXXX	XXXX
XXXX											

Pink Salmon

Smolt Passage

Adult Passage

Spawning

Incubation

Rearing

			XXXX	XXXX	X						
						XX	XXXX	XXXX			
						Х	XXXX	XXXX			
XXXX	XXXX	XXXX	XXXX			Х	XXXX	XXXX	XXXX	XXXX	XXXX





Application Submittal

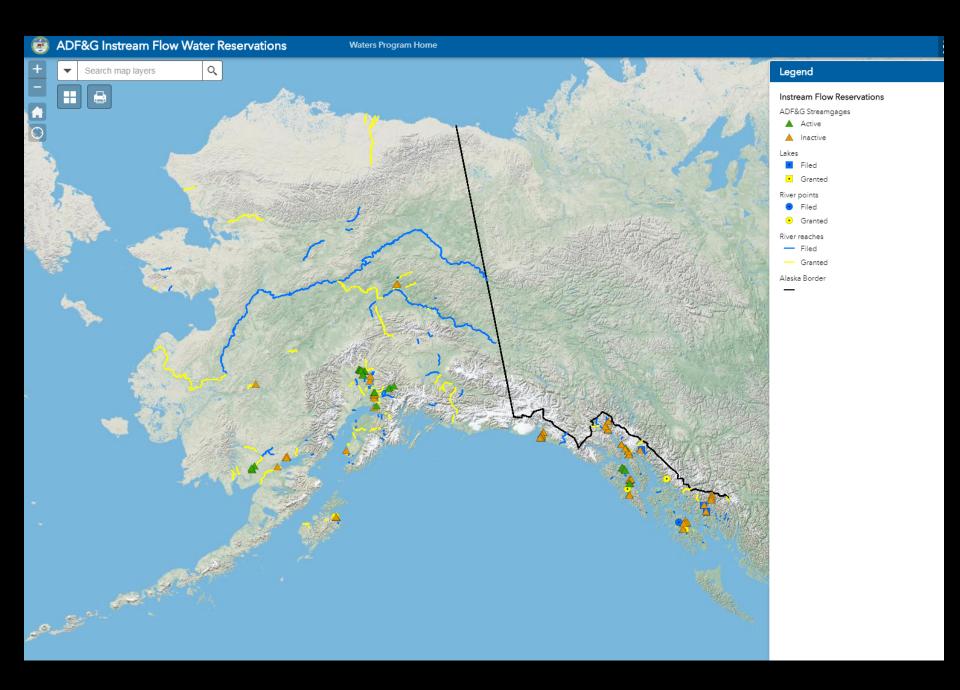
- Application is submitted with supporting information to DNR for adjudication.
- Application receives a priority date when received by DNR.

DIVISION OF MINING, LAND AND WATER WATER RESOURCES SECTION www.dnr.state.ak.us/mlw/water/index.htm Anchorage Office For ADNR Use Only 550 West 7th Avenue, Suite 1020 Date/Time Stamp Anchorage, AK 99501-3562 (907) 269-8588 Fax: (907) 269-8947 For ADNR Use Only For ADNR Use Only For ADNR Use Only LAS# CID# Receipt Type WR APPLICATION FOR RESERVATION OF WATER INSTRUCTIONS

- Complete one application per stream segment or water body (incomplete applications will not be accepted).
- Attach legible map(s) indicating all sections from the beginning to the end of stream segment or for all parts of the lake or water body.
- Submit non-refundable fee of \$1,500.
- Attach extra pages for each section, as needed.

ADF&G Water Reservations





Current Southeast Alaska Projects



CURRENT SOUTHEAST ALASKA INSTREAM FLOW PROJECTS

Central Prince of Wales Island
Streamgage
Network:

Luck Creek Control Creek

4 DM sites

- Ratz Creek
- Luck Creek- Reach B
- Eagle Creek
- Logjam Creek

Chichagof Island
Streamgage
Network:

Freshwater Creek

+

4 DM sites

- North Fork
 Freshwater Creek
- Pavlof River
- Kennel Creek
- Upper Freshwater
 Creek

Baranof Island: Eva Creek + 1 DM site

Juneau:

Davies Creek +
Cowee Creek above
Davies confluence

ADF&G funded USGS streamgages:

- Dangerous River
- Italio River

Contact us if you...

- Have stream discharge data to share
- Are interested in performing discharge measurements
- Would like to join us in the field!



