



LEAVENWORTH NATIONAL FISH HATCHERY



Located on Icicle Creek, Leavenworth National Fish Hatchery produces a variety of species including spring and summer Chinook, coho, and steelhead to enhance fish runs in the Columbia Basin. The Icicle Work Group has proposed several projects to improve hatchery operation, reduce water use, and improve water quality. Combined, these projects will provide an additional 20 cfs of water in Icicle Creek for instream flow and fish benefit year round.

Hatchery Conservation: Install recirculating tanks that reduce water use. Recirculating tanks also improve water quality.

Groundwater Augmentation: Restore diminished groundwater supply through new well construction to meet temperature and pathogen standards.

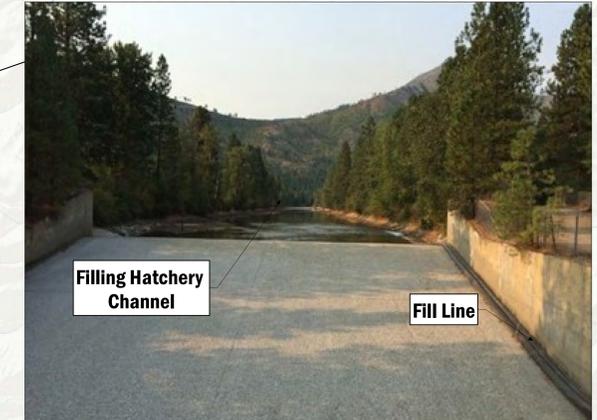
Effluent Pumpback: Reuse effluent water to augment groundwater supply. This will decrease water withdrawals from Icicle Creek.

Project Costs:
 • \$20 million total
 • \$1,384/acre foot

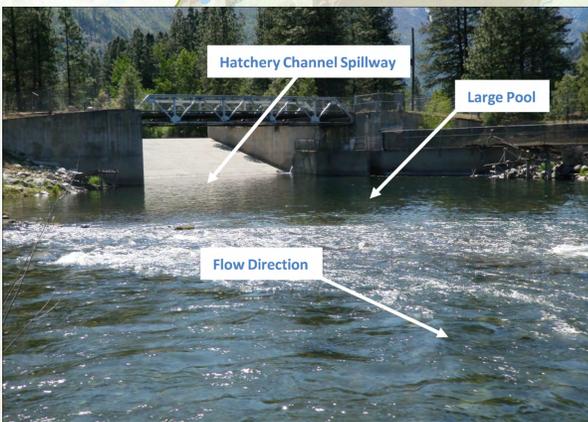
THE HATCHERY



Hatchery Conservation (Circular Tanks)



Effluent Pumpback Project – Hatchery Channel Spillway



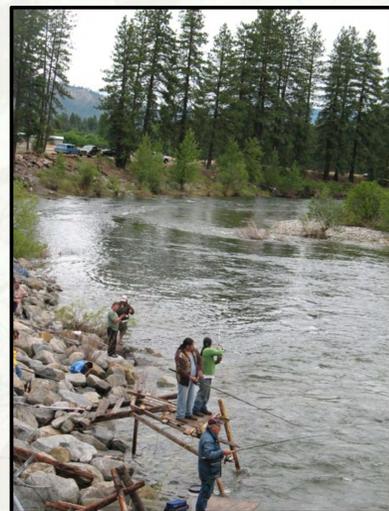
Spillway and Tribal Fishery at Downstream Pool



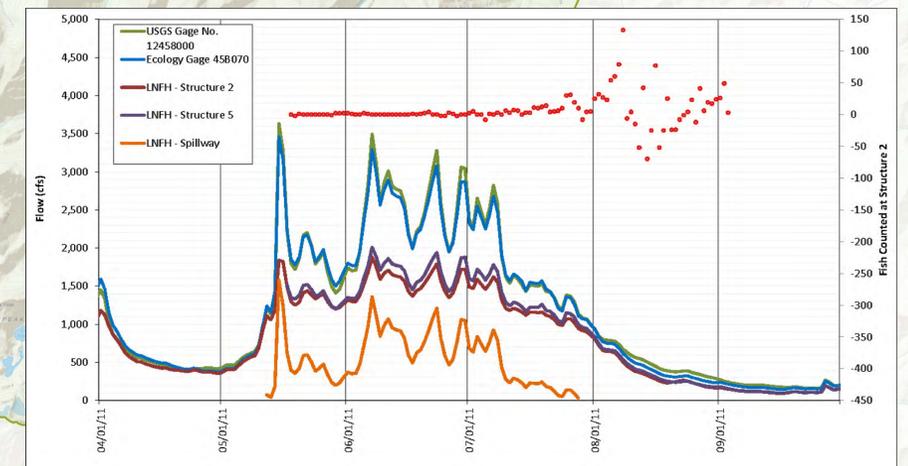
Groundwater Augmentation (Test Pits for proposed groundwater infiltration gallery on Hatchery Island)

TRIBAL FISHERIES PROJECT

The Yakama Nation and the Confederated Tribes of the Colville Reservation exercise federally protected fishing rights on Icicle Creek. From early May through mid-July of each year, the Yakama and Colville fish near LNFH at several locations, including the plunge pool at the base of the spillway to the hatchery channel. The Tribal Fisheries Preservation and Enhancement Project will ensure other projects proposed as part of the Icicle Strategy will not negatively affect the Tribal fisheries. This project includes studying the flow and channel morphology at current fishing locations, fishery effectiveness monitoring, and the development of an adaptive management plan. Additionally, this project could provide access improvements for Yakama and Colville fishers. The estimated project cost is \$500,000.



Fishing at Plunge Pool



The number of fish counted at Structure 2 compared against Icicle Creek flow.