

A close-up, high-angle photograph of a large school of salmon swimming in water. The fish are densely packed, creating a complex pattern of orange, red, and greenish-brown colors. The water is dark and turbulent, with white foam and bubbles visible around the fish. The text 'Fisheries Program Update' is overlaid in a large, white, sans-serif font in the upper-middle portion of the image.

# Fisheries Program Update

**December 16, 2019**

# Why we're here today

- Update on new Rock Island Passive Integrated Transponder (PIT) Tag Antenna  
*Alene Underwood*
- Resident Fish Stocking  
*Ian Adams*
- Habitat Conservation Plan Tributary Committee (HCP TC) Update  
*Catherine Willard*
- 2019 Adult Fish Returns  
*Catherine Willard*

# New RI PIT Tag Antenna

- Staff presented to the Board for sole source resolution (*18-14276*) October 15, 2018
  - Noise levels interfering with PIT tag detections
  - New location for array identified in 2018
- New antenna array installed in early 2019 to remedy noise issues
- Agreed to update the Board on project effectiveness

# New RI PIT Tag Antenna Performance

	Original PIT Tag Systems (previously installed in 2004 and 2015)	New PIT Tag System Only (installed in 2019)
Percent Noise (Range)	50 – 100%; frequently peaking to 100%	5 – 55%

***Note: The maximum percent noise level where tag signals can still be deciphered by PIT tag readers = 60%; > 60% tag signals are mostly concealed by the noise and tagged fish can escape detection***

Species (PIT-tagged fish)	Number of Fish Detected in Old System	Number of Fish Detected in New System	% Increase in Detected Fish
Chinook	244	316	23%
Sockeye	201	229	12%
Coho	188	201	6%
Steelhead	132	151	12%



# RESIDENT FISH STOCKING

65,200 Kokanee

99,380 Rainbow Trout

49,430 Cutthroat



# Habitat Conservation Plans (HCP) Tributary Committees (TC) and Plan Species Funds

- No Net Impact (NNI)
- Plan Species Fund
  - Two percent unavoidable project mortality
- Tributary Committee Representatives
  - Yakama Nation, Colville Confederated Tribes, US Fish and Wildlife Service, National Marine Fisheries Service, Washington Dept. of Fish and Wildlife, Chelan PUD

RR Tributary Fund	
RR Balance 2019	\$2,888,124
2019 Contribution	\$371,474

RI Tributary Fund	
RI Balance 2019	\$7,136,309
2019 Contribution	\$784,331

# HCP TC 2019 Funded Projects

Project Name	Location	Sponsor	Total Cost	TC Contribution
Stormy Project Area "A" Stream & Floodplain Enhancement	Entiat River	Yakama Nation	\$1,564,211	\$823,161
Napeequa Side Channel Connection	Napeequa River	Cascade Col. Fish. Enhance. Group	\$58,290	\$49,399
Restore Lower Chiwaukum Creek – Phase 1	Chiwaukum Creek	Cascade Col. Fish. Enhance. Group	\$116,256	\$55,098
Monitor Side Channel Construction	Wenatchee River	Chelan County NRD	\$296,530	\$148,265
Peshastin RM 4.3 Side Channel	Peshastin Creek	Chelan County NRD	\$99,010	\$19,802
Upper Kahler Stream & Floodplain Enhancement	Nason Creek	Yakama Nation	\$400,000	\$149,000
Nason Ridge Acquisition	Nason Creek	Chelan County NRD	\$5,500,000	\$500,000
Lower Wenatchee Instream Flow Enhancement	Wenatchee River	Trout Unlimited	\$2,500,000	\$250,000
Upper Burns & Angle Point Areas Enhancement	Entiat River	Yakama Nation	\$1,070,500	\$189,000
<b>TOTAL:</b>			<b>\$11,604,797</b>	<b>\$2,183,725</b>

# Adult Fish Returns – Rock Island

Species	2019 Count	2018 Count	10 -Year Average	% of Average at RI	% of Average at BON
Spring Chinook	8,788	7,894	17,793	49%	37%
Summer Chinook	41,090	38,816	59,723	69%	51%
Fall Chinook	12,584	9,318	21,155	59%	53%
Steelhead	4,306	5,229	15,271	28%	27%
Sockeye	58,562	172,009	261,845	22%	20%
Coho	12,872	7,736	14,138	91%	67%
Lamprey	1,330	5,849	3,947	34%	58%
Bull Trout	24	19	60	40%	---



Questions or  
Comments?

