YAKAMA NATION SOCKEYE RESTORATION PROJECT Mark Johnston, Sr. Research Scientist, Dave Fast Sr. Research Scientist, and Brian Saluskin, Fish Passage Biologist



achxilpanisha ishchit "making a way"















Andrew Matala CRITFC Conservation Geneticist Peter Galbreath Fish Science Department



Wendy Christensen Richard Visser Bureau of Reclamation





Richard Bussanich Fisheries Biologist at Okanagan Nation Alliance Howie Wright Fisheries Manager at Okanagan Nation Alliance

Eric Anderson aka Mr. Bulltrout WDFW John Easterbrooks Regional Fisheries Program Manager WDFW



Tom Dresser GCPUD

Yakama Nation Tech's

Kevin Seger, Erica Thompson, Chuck Carl, Arnold Barney, Jeremiah Waltermann, Quincy Walahee, Gene Sutterlict Jr



Dr. Dave Fast Senior Research Scientist Mark Johnston Senior Research Scientist Emily Washines YN Public Relation Ida Sohappy Ike & Monica Clark Bookkeeping

WHAT'S GONNA BE COVERED

- Where is the Yakima Basin?
- What Happened to the Yakima Basin Sockeye?
- How did we get here?
- Sockeye Reintroduction...
- What else is being reintro'd?
- What is being outro'd?
- What's happening next?



• Where is the Yakima Basin?





• What Happened to the Yakima Basin Sockeye?

Timber crib dams constructed by location of between 1904-1910 at the outlet of these five natural glacial lakes blocked fish passage to tributaries upstream from the dams.

Timber dams were followed by the larger Reclamation storage dams, eliminated access to previously productive spawning and rearing habitat for anadromous salmonids and resident fish and inundated a considerable amount of pristine, high-quality habitat.



How did we get here?

- IN 2002 THE YAKAMA NATION FILED A LAWSUIT
- 2003 YN FILED A APPEAL
- BOR AND YN ENTERED A SETTLEMENT AGREEMENT
 - CONGRESSIONAL AUTHORITY AND FUNDING
 - BOTH TO DEVELOP AND STUDY FEASIBILITY MEASURES
 - IMPLEMENT INTERIM DOWN STREAM PASSAGE AT CLE ELUM DAM
 RECLAMATION AGREED TO PROVIDE FUNDING TO THE YN
 RECLAMATION AGREED TO PREPARE PLANNING REPORT
 BOTH AGREED TO ASSEMBLE A TECHNICAL WORKING GROUP





Sockeye Reintroduction...

- CURRENTLY, ADULT REINTRODUCTION PROJECT ONLY, NO HATCHERY PROCESS
- Two donor stocks Lake Wenatchee and Lake Osoyoos
- LETTER TO GRANT COUNTY PUBLIC UTILITIES DISTRICT (GCPUD) REQUESTING TO USE OFF-LADDER ADULT FISH TRAP (OLAFT) AT PRIEST RAPIDS DAM
- Receive annual transport permit from Washington Department Fish & Wildlife (WDFW)
 - CONTACTED LOCAL LAND OWNER ON LAKE CLE ELUM TO ACCESSING HIS PROPERTY TO RELEASE SOCKEYE
 - TO WORK AT THE OLAFT, YN CREW MUST COMPLETE SECURITY AND SAFETY TEST TO RECEIVE CLEARANCE BADGE TO ACCESS FACILITY



Sockeye Reintroduction...

AFTER ESCAPEMENT GOALS ARE REACHED AT BONNEVILLE DAM OF 80,000 RETURNING SOCKEYE, COLLECTION CAN BEGIN AT PRIEST RAPIDS DAM

The adult take starts at 1000 and can increase to 10,000 based on a PAC approved sliding scale

Genetic sampling of Sockeye helps determine which stock is the most successful of the two donor stocks used, Lake Wenatchee or Lake Osoyoos, this occurs at four different stages of the process:

- 1.) PRIEST RAPIDS DAM ADULT COLLECTION
- 2.) ON SPAWNING GROUNDS (CARCASS SURVEYS)
- 3.) Smolt migration at Roza Dam and Chandler JV
- 4.) RETURNING ADULTS BACK TO THE YAKIMA BASIN



Broodyear	Bonneville Dam Count	Trap & Haul to Cle Elum Lake	Natural Production Returnees
2009	177,823	1,000	
2010	386,525	2,500	
2011	185796	4,000	
2012	515,673	10,000	
2013	185,505	4,500	703
2014	614,179	10,000	2653
2015	510,706	10,000	300
2016	342,498	10,000	4600
2017	87,693	1,000	1000













State of Washington to Get 5,000,000 Mackinaw-Trout-Eggs-from-Wisconsin-County Game Commission will Ask for All They Can Get.

Chairman M. C. Miller of the Kitti-tas Game Commission Wednesday received word from State Game Warden Darwin that 5,000,000 Mackinaw trout Darwin that 5,000,000 Mackinaw trout eggs would become available for plant-ing in this state next year. They will come from Wisconsin. Mr. Miller states that the county rame commis-sion will immediately apply for all they can get to plant in Lakes Cle-Elim. Keechelms and Kachess, all of which are deep water lakes well adapted to the Mackinaw. This season 50,000 of them were planted in Lake Cle-Elim. Mr. Darwin's letter, which contains some other matters of interest, to sportsmen, follows:-Gentlemen:

A holder of a non-resident hunters' license may take the number of birds which if is lawful for him to kill in this state in one day out of the state with him, providing that he executes with him, providing that he executes an affidavit before a notary public or other officer having a seal, stating that the game to be so removed from the state was killed by him in. a lawful-manner and that the said game is not heing exported for the purpose of sale. Such affidavit shall describe said birds and shall be attached to said birds while in transit from the state while in transit from the state. .The above is the substance of an opinion just rendered to me by the Hon. L. L. Thompson, Attorney General, and we will govern ourselves accordingly.

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The Attorney General gives it as his opinion that Section 5373 Rem. & Bal. Code, which was enacted in 1905, and which expressly permits non-resi-dent hunters to take their kill out of the state as provided above, was not repealed by the passage of the Game Code in 1913. This reverses the con-struction of the law heretofore given it by the Attorney General and the State Game Warden. We are laying our plans this year to

distribute a large number of Chinose pheasant eggs and a smaller number of Mallard duck eggs, without charge, from the State Game Farm at Walla Walla to those County Game Commissions and citizens generally in the state who will agree to hatch the eggs and liberate the offspring when it is able to take care of itself.

Commission to receive any of these esgs of either variety, and if.so, the number that you would like to have? If your County Game Commission is unable to handle this, I suggest that you take the matter up with the news-papers of your county and see if they will not ascerlain if any of their read-ors card to receive eggs on the above conditions. Last year we had hundreds of applications for eggs from persons who desired to raise Chinese, pheasants.

We also beg to advise you that we have arranged an exchange with the State of Wisconsin of five million silver trout eggs for five million Mackinaw trout eggs. Mackinaw trout require deep water. Kindly advise if your county desires any of these, and

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FRIDAY, DECEMBER 24, 1920 150,000 EGGS FOR OUR COUNTY

Huge Shipment of Mackinaw Trout Eggs Delivered at County Hatchery In South Cle Elum by Darwin

Sup't Riggs of the county hatchery super figs of the county intenery inte has week received a shipment of 150,000 Mackinaw trout ergs from State Itah Commissioner Darwin, which he will hatch out next spring for early planting in this county. This is the largest shipment of Mackinaws yet received and the county game commission is very gratoful for it, as well as sportsmen generally. Some time ago Representative Hubbell went after more Mackinaw eggs and in a letter to the editor stated that Commissioner Darwin seemed very favor-ably disposed.

Last spring 50.000 Mackinaws were planted in Lake Cle Elum. This spec-ies of trout will very likely all be placed in large lakes of the county as the Mackinaw grows to a large size and requires deep water. If the Mackinaw thrives here, the people of Kittitas county will have some of the finest fishing imaginable as well as a fish which is the peer of any in the world for enting.

A movement is under way now to trade Silver trout-eggs which can be taken in Lake Keechelus in large quantities for brook trout eggs, which are more acceptable here.

PLANT NEARLY 2,000,000 FRY Kittitas. County .Game Commission Make Annual Report-Of Much

Interest to Sportsmen Over the County.

Make Annual Report Of Much Interest to Sportsmen Over the County. According to a report of W. E. Goondy game commission, early and lakes and sloughs of the county within the fast-year. Of this num-ber 1.256,000 were Eastern Brook trout, 114,200 Stechead trout, 97,-000,000 fish have been reard and distributed in the various streams, lakes and sloughs of the county within the fast-year. Of this num-ber 1.256,000 were Eastern Brook trout, 114,200 Stechead trout, 97,-000 Rainbow, trout, 50,000 Montana Black Spotted trout and 200,000 Cut-throat trout, or a total of 1,717,700. The fish were all hatched at the county hatchery on Cash creek about a mile west of South Cle Elum, under-the direction of Fred Yoeman. The planting of the fry have been in the following waters: Eastern Brook-Short & Dunning-ton ranch, 40,000; Fitterer's slough near. Tjossen's mill, 40,000; Thorp prond. 400000; Faitway slough near Thord, 400000; Faitway slough near Thord, 400000; Faitway slough near Thord, 40000; Faitway slough near Thord, 40,000; Faith Jake, 200,000; Pease, slough south of El-lensburg, 35,000; Lake Keechelus, 100,000; Indian George slough south of Tellensburg, 35,000; Willace slough near Thorp, 35,000; Willace stort, 100,000; Nennametreek, Cut-threats, 100,000; Mennashtash creek, Cuthroats, 30,000; Mennashtash creek, Cuthroats, 30,000; Mennashtash creek, Cuthroats, 30,000; Mennashtash creek, Cuthroats, 100,000; Mennashtash creek, Cuthroats, 30,000; Mennashtash creek, Cuthroats, 100,00

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• What is being outro'd?



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FOR KITTITAS

MORE TROUT

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CLE ELUM, KITTITAS COUNTY, WASHINGTON, FRIDAY, APRIL 6, 1923

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 Fitterer's slough near Thrail, 35,000; Lake on Lookent mountain, 6,000; Fish lake, 200,000; Pease, slough south of El-lensburg, 35,000; Hansen creek, north-cast of Ellensburg, 35,000; Wallace slough, near upper Lake Keechelus, 100,000; Indian George slough south of Tellensburg, 35,000; Wallace slough, as 114,200; Rainbows, 97, 500; Taneum Ereck, Montana Black Keechelus, three of the most inf 19, 20, 2000; Namam creek, Cut-threats, 100,000; Namam creek, Cut-threats, 100,000; Namam creek, Cut-threats, 100,000; Mannah shereck, Cuthreats, 100,000; Mannash Make Annual Report-Of Much Interest to Sportsmen Over the County.

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REMOVAL/REDUCE (BEGAN IN 2013)

REQUIRED-MACKINAW REMOVAL PROPOSAL

WDFW partnership

SCIENTIFIC COLLECTORS PERMIT FROM YN FISH AND WILDLIFE COMMITTEE

GILL NETTING

UP TO 6 GILL NETS USED AND THE FOLLOWING INFORMATION COLLECTED,

WEIGHTS, LENGTHS AND HEADS FOR AGING

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What else is being reintro'd?

- Coho Salmon
- Bull Trout
- Steelhead
- Spring Chinook
- Also help Bull Trout movement (not functioning properly)
- Other Native Species











• What's happening next?

- Elders Meeting with ONA and Fisheries Staff
 Rimrock Lake
- Creating Brand
- Community Outreach and Education
- Hydro-Acoustic and Trawl Surveys
- Lake Surveys
- Electro Shocking Invasive Species Available Habitat Surveys Presenting Anywhere and Everywhere New Boat, Drum & Reel



2015 GROUNDBREAKING







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Yakamafish-nsn.gov

OUE'S'T'IONS?

passagebio@qwestoffice.net (509) 945-6701

achxilpanisha ishchit "making a way"





