



Yakima River Management and Data (YKFP) Annual Report for Project Activities from 10/1/2016 to 9/30/2017

BPA Project # 1988-120-25

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THE CONFEDERATED TRIBES AND BANDS OF
THE YAKAMA NATION
Toppenish, WA 98948

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1. Executive Summary

This Management and Data project (1988-120-25) is the overall umbrella organization for the Yakima River Portion of the Yakima/Klickitat Fisheries Project (YKFP), which includes a number of sub-projects that address facilities operations and maintenance (O&M) and research, monitoring and evaluation (RME). This project includes the overall management and administration, as well as the data management, for the entire Yakima Subbasin YKFP program. This report summarizes project achievements relative to management oversight, policy development, project planning, administrative support, data management, communication of science results (project annual review), and watershed planning.

YKFP-related habitat activities for the Yakima Subbasin are addressed under project 1997-051-00. Hatchery Production Implementation (O&M) is reported under project 1997-013-25. Yakima Basin research, monitoring, and evaluation (RME) is reported under project 1995-063-25. Klickitat Basin RME, Watershed Enhancement, Management/Data, and O&M are reported under projects 1995-063-35, 1997-056-00, 1988-120-35 and 1997-013-35 respectively. Well field data for the Cle Elum Supplementation and Research Facility (CESRF) are reported quarterly to the Washington State Department of Ecology with copies to personnel at BPA. Yakima Basin Steelhead (*O. mykiss*) RME work is reported in related viable salmon population (VSP; 2010-030-00) and Kelt Reconditioning (Columbia River Inter-Tribal Fish Commission-CRITFC 2008-458-00 and 2007-401-00) projects. The Washington Department of Fish and Wildlife (WDFW) is reporting hatchery uncertainties related to genetic and ecological interactions under project 1995-064-25.

2. Introduction

The Yakima/Klickitat Fisheries Project (YKFP or Project) is split into several sub-projects (Monitoring and Evaluation, Operations and Maintenance, and Construction) under the overall umbrella for the program. The Management and Data project includes the overall management and administration, as well as the data management, of the YKFP program. Habitat protection and restoration components have been combined with the Side Channels (1997-051-00) to form a fish habitat and land acquisition project.

This project provides for all Yakama Nation (YN) management and coordination functions associated with the YKFP in the Yakima Subbasin. The YKFP was initially established in a 1994 Memorandum of Agreement with the Washington Department of Fish and Wildlife (WDFW; project co-manager) as the Yakima Fisheries Project (YFP), the purpose of which was to implement and evaluate artificial propagation methods used to restore and rebuild anadromous fish populations in the subbasin. The YFP was subsequently expanded to include the Klickitat Subbasin and became the YKFP. However, Klickitat Subbasin management and coordination activities are covered under a separate Bonneville Power Administration (BPA) project, 1988-120-35. This umbrella management approach was developed through discussions with the Bonneville Power Administration (BPA) and the Northwest Power and Conservation Council (NPCC), WDFW participates in YKFP management through BPA Project 1995-064-25, YKFP Policy/Technical Involvement/Planning.

Principal YKFP activities include the use of artificial propagation of juvenile fish derived from natural origin broodstock to supplement the natural populations of spring Chinook, fall Chinook and coho. Activities also include actions to increase harvest opportunities and to protect and improve available habitat for the supplemented populations. Research, monitoring and evaluation (Project 1995-063-25) is performed to address, among other issues, (1) the effects of supplementation on the natural populations, (2) the effectiveness of juvenile rearing methods and acclimation in achieving juvenile survival and supplementation objectives, (3) ecological impacts from supplementation, and (4) the development of data to allow adjustments to hatchery and acclimation operations to meet project objectives according to adaptive management principles. Supplementation activities must be coordinated with habitat availability to manage ecological risks and optimize natural production and adult recruitment.

The YKFP is a complex and comprehensive project that requires significant management and administrative resources. It includes fish production and research facilities, numerous research programs and habitat protection and maintenance activities. The Yakama Nation serves as the YKFP “Lead Agency” and is responsible for implementation of all YKFP programs; including managing and directing YKFP project employees, developing and administering associated project budgets, and ensuring the quality and efficiency of project activities.

Implementation is coordinated with WDFW, which participates in project planning and performs certain research activities related to ecological interactions, genetics research and analysis, and reproductive success of supplementation fish. In broad categories, the Yakama Nation, as Lead Agency implements and coordinates:

1. Project planning activities, including those pertaining to facility construction and modifications;
2. Operation and maintenance activities at all YKFP facilities;
3. Project research activities including production of scientific reports and publications;
4. Design, development and administration of a centralized database for Project use and dissemination to others;
5. Habitat restoration and protection projects within the target ecosystem;
6. Development and submittal of funding proposals that ensure consistency with the 2008 MOA between the Three Treaty Tribes and the FCRPS Action Agencies, and sufficient funding for YKFP operations.
7. Coordination and integration of Klickitat and Yakima Basin research and data management activities.

To meet its lead agency responsibilities, the Yakama Nation employs approximately 100 people, including managers, scientists, technicians, fish culturists, laborers and office support personnel. Project management personnel work out of the YKFP's Central Office in Toppenish, Washington, the Nelson Springs Office and Research Facility northeast of Yakima, Washington and a satellite office in Ellensburg, Washington (Figure 1).

The contract (#56662 REL 115) addressed in this report implements the Management and Data project and funds the activities of YKFP executive management, project coordination and administrative staff necessary for discharging these responsibilities, including administrative support for day to day YKFP operations in the Yakima Subbasin. Management services funded by this contract include oversight and support of the following YKFP programs:

1. O&M Lower Yakima River Supplementation and Research Complex,
2. O&M Upper Yakima River Supplementation and Research Complex
3. Yakima Basin Monitoring and Evaluation
4. Yakima Basin Side Channels Land Acquisition

5. YN Coho Hatchery Program Holmes Step 2/3
6. Coho Production Facility & Marking
7. YN Project to provide VSP Estimates

The success of all YKFP projects depends on the administrative structure funding provided by this contract. The Yakama Nation's management and coordination responsibilities are expected to continue through and beyond the contract performance period.

This contract has seven primary objectives:

1. Provide comprehensive management oversight of the implementation of YKFP activities.
2. Support YN policy development related to YKFP activities in the Yakima Subbasin.
3. Coordinate and/or perform all tasks necessary to the development of project planning documents.
4. Provide required administrative support for Project operations, including financial management and accountability and realty services coordination and technical review.
5. Design, develop and manage data storage and information systems for all Yakima-Basin generated YKFP project data. Coordinate Yakima Basin data management activities with Klickitat, other Yakama Nation Fisheries projects, inter-tribal and regional data management activities and goals.
6. Schedule and conduct the Yakima Basin Aquatic Science and Management Conference (incorporates Project Annual Review), which includes presentations by project scientists and provides for peer review of research activities.
7. Participate in watershed planning, protection and restoration initiatives by various agencies, groups and committees.

This report documents activities and results related to the primary contract objectives listed above.

Other YKFP Project Reporting

Activities and results for other YKFP projects are reported elsewhere as noted in the following:

YKFP-related habitat activities for the Yakima Subbasin are addressed under project [1997-051-00](#). Hatchery Production Implementation (O&M) is reported under project [1997-013-25](#). Yakima Basin research, monitoring, and evaluation and 2008-465-00 MRSCF initial draw,

procurement and build phase (RME) is reported under project [1995-063-25](#). Klickitat Basin RME, Watershed Enhancement, Management/Data, and O&M are reported under projects [1995-063-35](#), [1997-056-00](#), [1988-120-35](#) and [1997-013-35](#) respectively. Well field data for the Cle Elum Supplementation and Research Facility (CESRF) are reported quarterly to the Washington State Department of Ecology with copies to personnel at BPA. Yakima Basin Steelhead (*O. mykiss*) RME work is reported in related VSP ([2010-030-00](#)) and Kelt Reconditioning (CRITFC [2008-458-00](#) and [2007-401-00](#)) projects. WDFW is reporting hatchery uncertainties related to genetic and ecological interactions under project [1995-064-25](#).

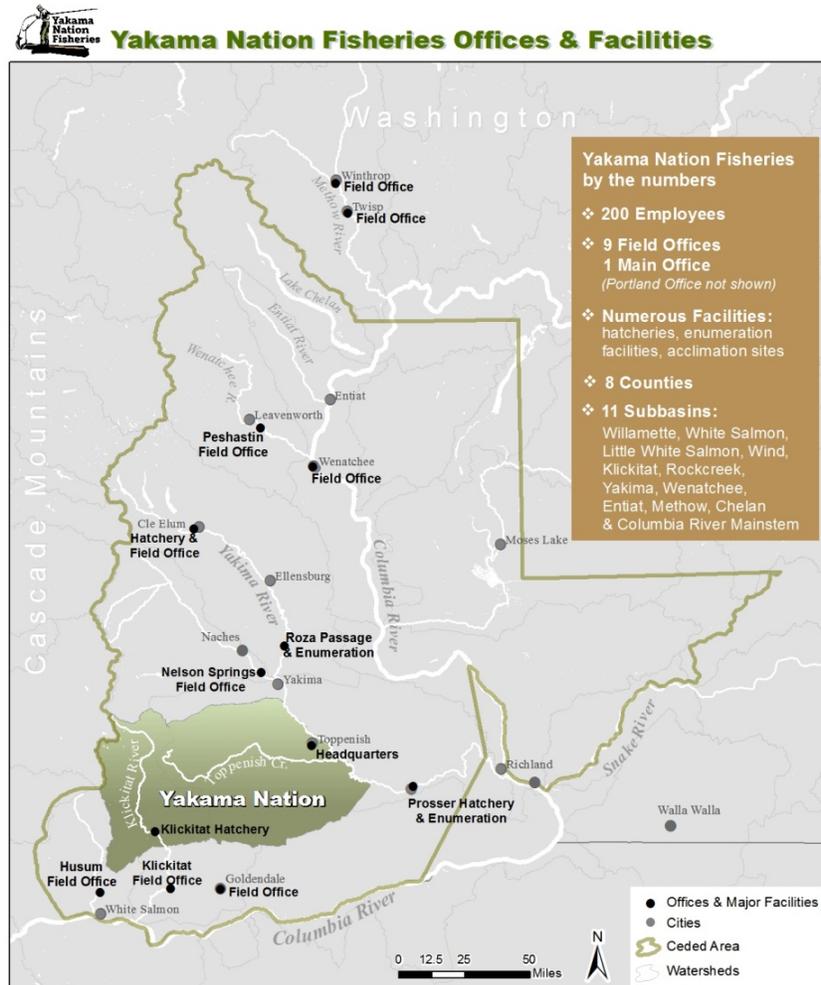


Figure 1. Yakama Nation Fisheries Offices and Facilities.

3. **Provide comprehensive management oversight of the implementation of YKFP activities.**

Methods: The YKFP is co-managed by the Yakama Nation (YN) and the Washington State Department of Fish and Wildlife (WDFW). The Project is controlled by the Policy Group, which is made up of one representative appointed by YN and one representative appointed by WDFW. The Policy Group is responsible for policy development and planning. The YKFP MOA provides for review and approval of annual planning documents by the YKFP's Policy Group. The Project's Science Technical Advisory Committee (STAC), consists of senior biologists from the Yakama Nation and WDFW, and advises the Policy Group. The Policy Group works closely with Bonneville Power Administration (BPA) on funding and NEPA issues.

Results and Discussion: The YKFP Policy Group meets regularly to review project related activities and to discuss and address issues as they arise. Minutes of meetings conducted during this project period (Oct. 1, 2016-Sep. 30, 2017) are provided in Appendix B. Management and Data personnel also provided policy support for development and implementation of procurement procedures for the Melvin R. Sampson Coho Facility EPC contracting process together with BPA.

4. **Support YN policy development related to YKFP activities in the Yakima and Klickitat Subbasins.**

Methods: Maintain Project policy development activities at a level that enables effective management of the YKFP. Coordinate the development of policies pertaining to Project activities, and ensure adequate oversight of said policies by Yakama Nation elected officials and administration. Represent the YKFP in relations with other governments, organizations or entities affecting Project performance. As a co-managed project, it is essential that the Yakama Nation and WDFW maintain adequate participation in NPCC processes and other local and regional activities that affect the Project.

Results and Discussion: During this performance period, YKFP personnel actively engaged in: review of NPCC reports and processes, ongoing negotiations with the U.S. Army Corps of Engineers regarding expansion of John Day Mitigation fall Chinook production, and review and monitoring of the Mitchell Act Hatchery EIS and Hydrosystem Biological Opinion documentation and processes. The YKFP also monitored regional litigation activities that have the potential for affecting Project

funding and operations. These activities addressed matters that concerned the role of existing and future hatcheries in addressing fisheries mitigation requirements, and could potentially affect the scientific and regulatory framework and funding requirements for effective and adequate production. On the subbasin level, YKFP staff coordinated with the Bureau of Reclamation, the Washington Department of Ecology, and other subbasin interests as part of the Yakima Basin Integrated Water Resource Management Plan, which concerns water resources development projects that promote fish habitat and passage in the Subbasin, and thereby further YKFP stock restoration and reintroduction efforts. On a local level, the YKFP coordinated with local governments on land use matters (e.g. Kittitas County land use ordinance updates) that affect aquatic health and carrying capacity of streams that are also crucial to the success of YKFP fish stock restoration and reintroduction.

5. Coordinate and/or perform all tasks necessary to the development of project planning documents.

Methods: Maintain Project planning activities at a level that enables effective management of the YKFP. This proposal supports all YKFP planning functions for the Yakima Subbasins. Coordinate necessary planning activities conducted by the YKFP, and represent the YN in all matters pertaining to these activities. Implement the YKFP's adaptive management policy by maintaining and keeping current all Project planning and operations documents. Coordinate these functions with the co-manager, science and technical advisory committee (STAC), and other agencies, as necessary.

Results and Discussion: Project personnel participated in the development of documents relating to implementation of the Melvin R. Sampson Coho Facility on the Holmes property as well as continued updates to the "Klickitat River Anadromous Fisheries Master Plan". A comprehensive list of YKFP Policy Group decision documents, used to adaptively manage the project, is provided in Appendix C.

6. Provide required administrative support for Project operations, including financial management and accountability and realty services coordination and technical review.

Methods: The financial management and compliance monitoring for BPA intergovernmental contracts and YKFP subcontracts requires extensive attention and

effort. The compliance, accountability and contracting requirements are internal for both the Yakama Nation and BPA. The administrative support component of the contract provides necessary personnel to perform secretarial, bookkeeping, accounting, and reporting tasks on a timely basis.

Results and Discussion: Quarterly reports, operational modifications, and year-end closeouts were completed as necessary. Also assisted habitat project staff in development of realty acquisition documents, including purchase and sales agreements and conservation easements requirement for BPA funding on habitat property purchases.

7. **Design, develop and manage YKFP's Data and Information System.**

Methods: One of the YKFP's primary objectives is to develop and provide information about supplementation activities and results to resource managers and scientists throughout the Columbia River basin, so that regional recovery activities may be improved to better mitigate effects of hydroelectric operations on anadromous fisheries. Under this objective, we are working to standardize, consolidate, centralize, and make accessible all data and information that is generated by the YKFP within the Yakima River Basin and coordinate activities with other YN projects as well as regional data management and sharing goals. Note that a separate data manager is employed with this same objective for the Klickitat Subbasin.

The Yakama Nation has been collecting and reporting fish related information, including fish population status and hatchery performance data for many years now. We have participated in and contributed to the Collaborative Systemwide Performance and Evaluation (CSMEP) and Coordinated Assessments (CA) projects over the past 20+ years, and we continue to make progress in meeting project, tribal, and regional data management and data sharing expectations. The YKFP has been maintaining, updating and sharing project data and information regularly through its ykfp.org web site as well as a number of other web sites and methods (Appendix A).

Project data are generally entered into data collection forms using Microsoft Access and Visual Basic software. In most instances software procedures are in place to automatically capture detected PIT tag data and incorporate it into the Access form/table. This prevents data entry error. YKFP data managers oversee the maintenance, development, quality control, and backup of these databases. To the maximum extent possible, data are integrated with regional databases (e.g., DART,

PTAGIS, RMIS, etc.) as noted above. The YN is working with CRITFC and the Tribal Data Network project to employ data stewards who will assist us with continued development and improvement of data collection, exchange, and sharing strategies and tools.

Results and Discussion:

We continue to believe that the best way to prioritize our data management work load is to develop databases to store the status and trend data we have been collecting over many years as well as the web tools necessary to access these data in downloadable format. Over the past two years we have used resources provided under existing YN (Yakima and Klickitat Management, Data, M&E and STAR) projects as well as the CRITFC Tribal Data Network project to purchase servers and begin to populate them with long-term status and trend data sets. We now have a system up and running that serves Yakima Basin adult abundance and trap sampling data for the Prosser and Roza data sets. This system can be accessed at: <http://dashboard.yakamafish-star.net/drupal/>. Log in with user name, 'NSexternal' and password, 'SaveTheFish'.

Other major data management accomplishments to date include:

- Development and maintenance of ykfp.org web site to host information relating to Yakima and Klickitat Basin project activities including: redd counts, juvenile and adult migration counts, technical reports and publications, project review/conference information, etc.
- Comprehensive VSP accounting and reporting for Yakima Basin spring Chinook (see Appendix B in [YKFP M&E 199506325 Annual Report](#))
- Automated integration of Prosser and Roza dam daily count data with [DART](#) (though this is being phased out as we continue to develop and expand the pilot system briefly described above)
- Integration of PIT and CWT release and recovery data with [PTAGIS](#), [RMPC](#), and [Fish Passage Center](#) databases
- Production and support of data bases necessary to support BPA quarterly and annual reports (available via Pisces and [cbfish.org](#))
- Production and support of data bases necessary to support NPCC project proposals (available via [CBfish.org](#))
- Development and maintenance of databases to support the following M&E data collection activities: Prosser and Roza video counts; Prosser denil and Roza adult trap sampling; Yakima Basin juvenile migration timing and biological data sampling; juvenile PIT tagging operations at all subbasin locations; Cle Elum spring Chinook spawning and rearing; Cle Elum facility water usage, temperature, and flow monitoring; Prosser

steelhead kelt reconditioning; spawner surveys at all subbasin locations; scale sampling; age and sex composition; radio telemetry and tracking; Klickitat habitat surveys; Lyle Falls adult trap counts; Klickitat smolt trap counts; Klickitat stream temperature and sediment data; Zone 6 and tributary harvest accounting; and Zone 6 Treaty commercial fish ticket accounting

- Development of a server with “legacy” (historical archive) databases pursuant to the Tribal Data Network project to facilitate off-site backups as well as internal project and regional sharing of data. For access to some of these data sets see <http://dashboard.yakamafish-star.net/drupal/>. Log in with user name, ‘NSexternal’ and password, ‘SaveTheFish’.
- Development of queries and data tables to support statistical analyses for manuscripts and annual reports
- Development of GIS maps as needed to support YNFP activities
- Development and maintenance of spreadsheets to summarize and track annual trends in above data
- Maintenance of hardware and software necessary to support the above
- Continued participation in regional processes and workshops (e.g., Coordinated Assessments) to prioritize regional data management needs and develop a pilot regional VSP database

Project metadata are contained in information system management plans developed for each subbasin (Yakima and Klickitat) as well as in accompanying Microsoft Word documentation files for each database. Data sources for all tables and figures included in project annual reports are also well documented in accompanying Microsoft Word documentation files. To the maximum extent practical data managers are attempting to remain current and comply with available regional standards.

In addition to the above, the YKFP has and continues to share data in the following ways:

- Annual Yakima Basin and Klickitat Basin Science and Management Conferences
- Direct e-mails with those requesting project data. Entities with whom we have directly shared YKFP project information include: the Washington Department of Fish and Wildlife, the United States Fish and Wildlife Service, the National Oceanic and Atmospheric Administration – National Marine Fisheries Service, U.S. Bureau of Reclamation, U.S. Forest Service Naches Ranger District, U.S. Geological Survey, Yakima Subbasin Fish and Wildlife Recovery Board, Pacific States Marine Fisheries Commission, Columbia River Inter-Tribal Fish Commission, University of Idaho,

University of Washington, Central Washington University, Eastern Washington University, Mobrand, Jones, and Stokes, and several other consultants and contractors.

8. Schedule and conduct the YKFP's Science & Management Conference (incorporates Project Annual Review), which includes presentations by project scientists and provides for peer review of research activities.

Methods: An explicit goal of the YKFP is to assess the performance and impacts of supplementation so that it might be better used to mitigate effects on anadromous fisheries throughout the Columbia River Basin. The Project schedules and conducts an annual project review, which includes presentations on the annual progress and results of specific scientific and resources management tasks comprised by the Project. Invitations to the conference are provided to persons and organizations throughout the region that are interested in the YKFP. The agenda, abstracts, and presentations from the review are posted to the project web site and provide an accurate and complete record of the proceedings. The public conference is preceded by a formal technical meeting (internal project review) to review and discuss all ongoing experimental tasks, whether they are still needed, and if so, any changes or improvements that could be implemented moving forward. Conference records afford the opportunity to employ adaptive management and assist the Policy Group in Project planning and management activities.

Results and Discussion: The 2017 Yakima Science Conference was held on June 14-15, 2017 and the results are available [here](#). Minutes of the internal project reviews are maintained by YKFP staff and are available upon request. For a complete list of reports and publications related to YKFP work in the Yakima Basin, see references in the 2017 [YKFP M&E 199506325 Annual Report](#). A synthesis of findings from the Cle Elum Spring Chinook Supplementation and Research project was published in the AFS North American Journal of Aquaculture in the summer of 2015.

9. Participate in watershed planning, protection and restoration initiatives by various agencies, groups and committees.

Methods: Ensure that environmental compliance procedures and documentation are managed consistent with subbasin and watershed planning and recovery documents. Promote and implement restoration, passage, screening and protection projects. Participate in watershed management forums to promote Project goals. Provide comments on land use projects as applicable to watershed stewardship.

Results and Discussion

Land use coordination occurred on many land use proposals and comprehensive plan amendments, involving rural and mineral lands designations, flood and shoreline planning and critical areas protection standards.

Restoration of stream and floodplain habitat was implemented on SF Cowiche Creek, in collaboration with Mid Columbia Fisheries Enhancement Group, and with funding from Washington State Resource Conservation Office.

Floodplain restoration occurred in Indian Creek, which is a tributary to the NF Teanaway. This project serves as a pilot project for future restoration on the Washington State owned Teanaway Community Forest Trust, which encompasses over 50,000 acres in the Teanaway, Swauk and Cabin Creek watersheds.

Floodplain restoration also occurred in NF Taneum in collaboration with The Nature Conservancy, and in Oak Creek in collaboration with Washington Department of Fish and Wildlife.

Restoration designs were developed and finalized for the next phase of restoration in the Teanaway Community Forest and USFS lands. This project encompasses over 8.5 stream miles in eight tributaries to the mainstems in the Teanaway and Swauk watersheds. Implementation is planned for 2017-18. Collaboration with state agencies and environmental groups is embodied in this project approach.

10. References

- ISRP. 2012a. ISRP Step 2 Review of the Klickitat River Anadromous Fisheries Master Plan. Northwest Power and Conservation Council, Portland, OR. [ISRP 2012-12](#).
- ISRP. 2012b. ISRP Review of the Yakima Subbasin Summer and Fall Run Chinook and Coho Salmon Hatchery Master Plan. Northwest Power and Conservation Council, Portland, OR. [ISRP 2012-13](#).
- ISRP. 2013a. Response Review of the Klickitat Master Plan. Northwest Power and Conservation Council, Portland, OR. [ISRP 2013-1](#).
- ISRP. 2013b. Response Review of the Yakima Subbasin Summer and Fall Run Chinook and Coho Salmon Hatchery Master Plan. Northwest Power and Conservation Council, Portland, OR. [ISRP 2013-8](#).

- ISRP. 2013c. Geographic Review Final Report, Evaluation of Anadromous Fish Habitat Restoration Projects. Northwest Power and Conservation Council, Portland, OR. [ISRP 2013-11](#).
- Yakama Nation. 2012a. Yakima Subbasin Summer-and Fall-Run Chinook and Coho Salmon Hatchery Master Plan. Prepared by the Confederated Tribes and Bands of the Yakama Nation for the Bonneville Power Administration and Northwest Power and Conservation Council. Yakama Nation Fisheries, Toppenish, WA. May 2012.
- Yakama Nation. 2012b. Klickitat River Anadromous Fisheries Master Plan. Prepared by the Confederated Tribes and Bands of the Yakama Nation in cooperation with Washington Department of Fish and Wildlife for the Bonneville Power Administration and Northwest Power and Conservation Council. Yakama Nation Fisheries, Toppenish, WA. July 2012 as amended August 3, 2012.
- Yakama Nation. 2013a. Yakama Nation Response to the Independent Scientific Review Panel's Step Two Review of the Yakama Nation's July 2012 Klickitat Anadromous Fisheries Master Plan (ISRP 2012-12). Yakama Nation Fisheries, Toppenish, WA. January, 2013.
- Yakama Nation. 2013b. Response of the Yakama Nation to the comments offered by the Independent Scientific Review Panel following their review of the Yakima Subbasin Summer and Fall Run Chinook and Coho Salmon Hatchery Master Plan (Project No. 1988-115-25; ISRP 2012-13). Yakama Nation Fisheries, Toppenish, WA. February 21, 2013.
- Yakama Nation. 2013c. Yakama Nation Response to the Independent Scientific Review Panel's Step Two Response Review of the Yakama Nation's Klickitat River Anadromous Fisheries Master Plan (ISRP 2013-1). Yakama Nation Fisheries, Toppenish, WA. April, 2013.
- Yakama Nation. 2013d. [Sponsor Response to Independent Scientific Review Panel Assessment: Project Number: 1988-120-25 Review: 2013 Geographic Review](#). Yakama Nation Fisheries, Toppenish, WA. July 2, 2013.

Appendix A: Use of Data & Products

All data and findings should be considered preliminary until results are published in the peer-reviewed literature.

Where will you post or publish the data your project generates?

[Fish Passage Center](#)

[Yakama Nation Fisheries website](#)

[DART - Data Access in Real Time](#)

[RMIS - Regional Mark Information System](#)

[Yakima-Klickitat Fisheries Project website](#)

[BPA Pisces](#)

[StreamNet Database](#)

[cbfish.org](#)

[PTAGIS Website](#)

[Washington State SaSI](#)

For access to additional project data sets see <http://dashboard.yakamafish-star.net/drupal/>. Log in with user name, 'NSexternal' and password, 'SaveTheFish'.

Describe the accessibility of the data and what the requirements are to access them?

- Prosser and Roza dam daily count and trap sample data <http://dashboard.yakamafish-star.net/drupal/>. Log in with user name, 'NSexternal' and password, 'SaveTheFish'.
- Integration of PIT and CWT release and recovery data with [PTAGIS](#), [RMIS](#), and [Fish Passage Center](#) databases
- Production and support of data bases necessary to support BPA quarterly and annual reports (available via PISCES and [BPA reports](#) web site)
- Production and support of data bases necessary to support NPCC project proposals (available via [CBfish.org](#))

Additional data is available on the [ykfp.org](#) web site and by email contact through the data managers (Yakima Basin, contact Bill Bosch, bbosch@yakama.com; Klickitat Basin, contact Michael Babcock, mbabcock@ykfp.org). Project data managers continue to participate in the Coordinated Assessments process to develop pilot exchange templates for adult and juvenile abundance and productivity parameters. However, we continue to believe that the best way to prioritize our data management work load is to develop databases to store the status and trend data we have been collecting over many years as well as the web tools necessary to access these data in downloadable format. The pilot system to share Prosser and Roza dam daily count and trap sample data is an example of the progress we are making towards this end.

Appendix B: YKFP Policy Group Minutes



MEMORANDUM

DATE: October 27, 2016
TO: Melvin R. Sampson
FROM: Carol Sue Martin
SUBJECT: YKFP P.G. Minutes for October 26, 2016 meeting @ Prosser Hatchery

In attendance: Melvin R. Sampson, Dr. Dave Fast, Bill Fiander, John Easterbrooks, Anthony Fritts, Bill Bosch, Patrick Spurgin, Charles Strom, Andre L'Heureux and Shirley Alvarado.

Meeting called to order @ 9:20

Agenda Review: Bill Sharp is out today, working on master plan. MaryTodd is out this week and Michelle O'Malley will not be in attendance.

Added Agenda Items:

NEPA:

- Klickitat exchange of letter between Phil Ridgon and Lori Bodi. Spring Chinook (no fall Chinook or Coho)
- Development of MOU (an ongoing O&M) between YN, NOAA and BPA. Do we have enough money to update housing for hatchery staff?
- Update to NEPA plan.
- MOA for construction
- Current draft EIS
- Record decision by 2013 still has not been done (won't be done till NEPA is done)
- Supplemental EIS
- Looking at HGMP's
- Mitchell Act money not being release till January.
- Never had contract with Corp for fall Chinook
- Nothing to report on MRS Coho Facility

BUDGETS:

- All set for budgets for the next year and half.
- Agency Decision Framework (ADF) major decisions – many players.

- Being developed to address post accords.
- Multiply parties will be involved.
- Used selectively and some go through this process
- Strategy to adjust contracts to run as long as possible.
- Elements of accord with YN that are not optional for YKFP going to continue with any scenario. Don't see a sense of urgency for a contract that have an early start date.
- Renewal of accords, rolling over 2-3 years
- BPA is losing revenue, does not equate to money amount for YN. Sept 30th 2018 is when accords end.
- See behavior of BPA when it comes to accords. YN has been around long enough to know the process.

MEETING BROKE TO WATCH SALMON RESCUE FROM CANAL.

- Meeting resumed at 11:00 and Bill Bosch, Bill Fiander and John Easterbrooks went to another room for a conference call.

CONSTRUCTION:

- Built reserves in our budget and they have been reduced each year. We were flat lined a few years ago and Charlie and Billy had to go through and make decisions on what they could do with out in order to keep operating.
- It was also to where "If you didn't use it, you would lose it" this could not be rolled over.

PROJECT REPORTS:

- STAR (status, trend and reporting)
- EPA Grant through data network project that were waiting on.
- QW Consulting working with Bin Quan and helping out.
- Working on dam counts.
- We could also include counts from from Prosser/Roza. Updated almost all the time.
- Similar to DART report
- Actual trap data that is available
- "Save the Fish" is the password.
- **SPRING CHINOOK PREVIEW:** Bill Bosch
- 2017 Projection Summary handout (attached)
- 2015 was an awful year for migration conditons, as we all know.
- Leaning towards the 5510 forecast.
- **D.C. LEADERSHIP TOUR:** Dr. Dave Fast
- Two day tour October 12 and 13, 2016. Two bus loads.
- Started at Cle Elum Hatchery, toured the woosh and spawning salmon. Ate salmon luncheon at the hatchery.
- Next day of tour it rained
- Hoping that the D.C. deligates when they return will share their experience they had on the tour and explain what a great job were doing with the salmon and habitat and keep funding and the importance of our projects and the work we do.
- **KLICITAT TOUR:** John Easterbrooks
- Tour was held a day before the D.C. tour and included Phil Rigdon, John E. Bill Sharp and Jim Unsworth.

- Castile Falls and Jared Bartholomew showed us around and explained how things worked. Its truly amazing the system they have here.
- Continue tour at the Klickitat Hatchery where we met with Jason and Marilyn. Walk in freezer is now assembled.
- Lyle facility and how it operates. Fishing on the river has slowed a bit.
- Phil Rigdon talked about forestry work that was being done in area and wildlife on the wolves.
- Logging dead wood from the fire last year near Mt. Adams.
- **SPRING CHINOOK HOOKING MORTALITY STUDY:** Anthony Fritts
- Almost done with final report for review.
- Should this go through the tribe first? Will send to Dr. Dave Fast for his review and forward on.
- **SOCKEYE SALMON:** John Easterbrooks
- Is Brian gillnetting sockeye yet?
- Will start next week sometime
- John will send Brian an email by end of the week.
- Will take down “Sockeye Salmon Spawning” signs and will take to Brian’s office to store for the year. These are posted on three bridges and we don’t want hunters using them as target practice.

STAC: Dr. Dave Fast

- BPA NPCC RRS Workshop
- Reproductive Success BPA Power Council
- Research studies: highlighted our projects in Yakima basin
- Spawning channel (2008 and 2010)
- Pedigree study should be almost done
- 2018 will have samples analyzed
- Basin is worth the investment, due to the size and infrastructure
- No summary of meeting has been posted yet.
- **FUTURE OF OUR SALMON CONFERENCE:**
- Was held at Oregon Convention Center with high level people re: floodplain restoration
- Spring chinook IPAR, Bill Bosch will work on late November or early February.

NEXT MEETING: December 7, 2016 at Nelson Springs

1. **NEXT MEETING DATE AND PLACE: December 7, 2016 at Nelson Springs**
2. Recess



MEMORANDUM

DATE: December 12, 2016
TO: Melvin R. Sampson
FROM: Carol Sue Martin
SUBJECT: **YKFP P.G. Minutes for December 7th, 2016 meeting @ Nelson Springs**

Dec. 7, 2016

Policy Group Meeting, Nelson, 9:00 (minutes by Bill Bosch)

Attendance: Mel Sampson, Dave Fast, Bill Bosch, Michelle O'Malley, John Easterbrooks, Bill Fiander, Pat Spurgin, Charlie Strom, Bill Sharp, Scott Nicolai, Anthony Fritts (on phone)

1. Agenda Review

2. NEPA

- Klickitat Hatchery complex update. Moving forward on scope of work for Hatchery upgrades (spring chinook). Lower river sites are “off the table”. Steelhead – 2020 check-in to revisit future steelhead actions. J. Dixon – MA consultation, January release-of-funds, Klickitat is status quo, opinion will list concerns and actions to take (reasonable and prudent alternatives). NEPA paperwork will need to be “reframed”, still looking at supplemental EIS. Discussion on timeline for getting paperwork set up so that BPA’s EIS process can proceed quickly in early 2017.
- Columbia River Systems Operation EIS public meetings are in progress. YN invited to participate as cooperating agency (no decision made as of yet).

Klickitat (non-NEPA)

- Work is moving forward, e.g., chiller, 3-phase power (NOAA funded).
- Making good progress on lease and MOA with WDFW.
- Discussion of 3-party MOU between YN, BPA, and NOAA regarding how to split O&M costs in future. BPA has identified Peter Lofy as lead contact for O&M, and Mary Todd as lead for capital construction.
- Working on review and comment of proposed County and City Shoreline Master Plan updates through Dept. of Ecology process.
- April 18 is set for Klickitat science conference.

3. Budgets, Contracts

No items to discuss.

4. Construction, Maintenance, Mitigation

Charlie mentioned keystone actuator valves are being replaced.

B Sharp mentioned meeting at Lyle trap on Dec. 13 for NPCC/BPA O&M tour. While at Lyle, they will also review the Castile Facility using pictures, drawings and operator’s manuals, etc.

B Fiander reported that Chandler is shut down, still working on plans for river water pump and plumbing. Scott N reported that Boone's Pond project turned into acquisition only; BPA reluctant to use site as mitigation for dried wetlands at CESRF; buying property with no connection to river will serve as sufficient mitigation; still in discussion with regulatory agencies.

5. Project Reports

- WDFW office space at M&E building, Julie Howard stated need for use agreement – looking for signed document stating that WDFW employees allowed to work in M&E building at Cle Elum, could even just be a signed memo. Pat will work on drafting a memo.

6. STAC

- a. Hooking mortality report – A. Fritts reported that he sent a draft out and is waiting for comments. Due to WDFW Board by Jan. 5. Mortality to lower end of spawn grounds was 10% and mortality to Sept. 1 (beginning of spawning) was 12%.
- b. Whooshh transport test. D Fast reported on a sort test with coho and fall Chinook (different sized fish) at Prosser. Engineers working on adjusting algorithms based on work so far. Setting up for testing at Cle Elum Dam next year.
- c. Spring Chinook internal PAR. Jan. 10, 2017. D Fast reported that original intent was for PAR to serve as peer review. Internal PAR now serves in this capacity.
- d. Steelhead release. D Fast reported on 2016 kelt reconditioning statistics, 525 held, 390+ survived to Sept blood work sampling, 340+ survived to release date in late October 2016. B Bosch reported that 2016-17 steelhead run at Prosser is projected to be about 2,000 fish based on returns through late November. J Easterbrooks and S Nicolai reported on passage restoration actions recently completed in Manastash Creek (30 miles of steelhead habitat).
- e. Sockeye harvest report. D Fast reported on CRITFC analysis of sockeye PIT returns to Bonneville Dam (estimate was about 5400 adult sockeye to Bonn with about 75% estimated to be Wenatchee stock). WDFW catch record card estimate for 2016 harvest in Yak. R. mouth fisheries won't be available until later in 2017. They will begin doing creel estimates in this fishery in 2017.

7. Next Meeting: Weds, Jan. 18, 2017 at Nelson.



MEMORANDUM

DATE: January 01, 17
TO: Melvin R. Sampson
FROM: Carol Sue Martin
SUBJECT: YKFP P.G. Minutes for Jan, 2017 meeting @ Nelson Springs

No Meeting



MEMORANDUM

DATE: February 01, 2017
TO: Melvin R. Sampson
FROM: Carol Sue Martin
SUBJECT: YKFP P.G. Minutes for Feb, 2017 meeting @ Nelson Springs

No Meeting



MEMORANDUM

DATE: March 1, 2017
TO: Melvin R. Sampson
FROM: Carol Sue Martin
SUBJECT: YKFP P.G. Minutes for March 1st, 2017 meeting @ Nelson Springs

March 1, 2017
Policy Group Meeting, Nelson, 9:00 (minutes by Bill Sharp)

Attendance: Mel Sampson, Dave Fast, John Easterbrooks, Bill Fiander, Pat Spurgin, Bill Sharp, Mary Todd Haight, Anthony Fritts.

8. Agenda Review

9. NEPA

- Pat discussed the [Columbia River System Operations](#) (CRSO) EIS process that is now underway. Nearly 250,000 scoping comments have been received. The first of a series of hearing is scheduled for March 9th. Oregon continues to support more spring spill than is currently agreed. Mary Todd pointed out that additional Snake River spill could affect BPA funds available. The schedule identifies a Final EIS in March 2021.
- Pat described how tribes are contemplating engagement into the process. Recent conversation with Ms. Bodi (BPA) identified possible options, one that included a potential for “cooperating agency” status, using a MOU with Actions Agencies and Cooperating Agencies. It may be challenging to develop such a MOU that is flexible enough for such a diverse group (tribes, agencies and entities).
- Related to this, Mary Todd described that BPA has engaged with other governments and entities about establishing Accord agreements and is targeting summer of 2017 to formulate any agreements. Roy Beatty is BPA’s lead negotiator in this effort.
- Klickitat Hatchery (KH) NEPA. Judy Woodward is contracted to lead the KH EIS process that will require a supplemental analysis which will revise the 3 alternatives, and pull the lower basin acclimation discussion from the EIS. Supplemental Analysis will require reengagement of public process.
- Relate to this is the WDFW SEPA processes. John Easterbrooks discussed that process and WDFW Commission engagement. John relayed that KH lease has been stalled in YN OLC shop. Update – mid day on March 1, YN OLC attorney forwarded revised lease to WDFW legal counsel and that should finalized soon.
- Jeff Stire – is BPA’s current Acting Fish & Wildlife Manager.

10. Budgets, Contracts

- BPA has formulated plan for contract budget gaps that extend beyond the Accord period. Accord projects that start in the first ½ of the year will be same project amount as FY17. FY18 funding is proposed to be level with no inflation adjustments. PIT tag purchases were to be held level.
- Bill and Mary Todd, discussed opening a “Contract Request” for Klickitat Design & Construction (EXP).
- Mary Todd, described that there are ~5 big capital construction project in-play at the end of the Accords and BPA accountants are being mindful of total cap budgets.

11. Construction, Maintenance, Mitigation

- MRS Coho Hatchery held 50% design meeting in February 2017. Group discussed potential affects from well field in wetland in SW corner of property. Identified a set of options which may include moving well location. These wells are 30ft deep. Additional geotechnical work will be conducted.
- MRS team are coordinating with WADOE on outstanding water rights matters. BOR (Joel Hubble is POC) and engaged in developing draft Report of Exam.
- MRS Coho 90% design is anticipated in April 20017 w/ final draft EIS late Fall 2017.
- MRS Coho. March/April 2018 breaking ground.
- KH Design and Construction (EXP and CAP) is advancing with BPA holding the contract as defined in Option 1 of BPA’s procurement guidelines. Next steps include MOA, Request for Offers (document to solicit Engineer- Procure-Construction firm).
- Bill provide update on Lyle Shop. YN Cultural folks can now access to snow-free site. Site visit set for March 6th. YKFP anticipates construction in late summer 2017.
- Cle Elum Hatchery same overhead waterline ruptured this winter resulting in water damage to breakroom area.
- John Marvin provided and update on Ahtanum Creek (Borton Packing property near City of Union Gap). YN will be acquiring 54 acres w/ 1 mile of creek. Opportunity of habitat enhancements that will benefit steelhead. 5 year process on this property purchase.

12. Project Reports

- a. Bill reminded folks about [Gorge Conference](#) (April 18th at the Discovery Center in The Dalles). Registration will be open on March 9th.
- b. No comments on reports provided.

13. STAC

- Dave reported that as of Feb 21st there are 23 kelts in the Cle Elum spawning channel. 13 of these are Naches fish (11 female and 2 males). Crews are now angling for additional males. There are discussions about fishing directly below Roza Dam. Resident males RBT will be used if needed
- Bill Bosch handout of Yakima Subbasin Spring Chinook run forecasting update. 2016 forecast was 4610 w/ actual of 5,510. The 2017 forecast is for ~3,560 wild and natural production, 2,760 hatchery origin (4/5 age adults).
- Easty indicated that with the 2017 forecasted numbers there will be a sport fishery. One fishing regulation change will be to open above Prosser (Wine County Rd. Bridge) to SR 241 Br (near Reservation boundary). WDFW creel work will include wanding and collection of snouts to identify S line fish and acclimation site origin. Regulation is two single point barbless.
- Dave updated the group on Bateman Island. A conference call/meeting will be March 1 (1PM), in Richland w/ US Army Corps and other stakeholders. Corp maybe taking the lead on this project. Possible solutions include moving marina to new location, however there is local opposition by folks

want access to island. WDFW with MCRFEG have thoroughly evaluated need to causeway removal. WDFW and YN agree on causeway removal.

- PIT tag array has been installed on upper Manashtash Creek, now there are two arrays in place (lower and upper basin).
- Dave/Anthony discussed YKFP Decision document - conversation stemming from Internal PAR
- Dave Fast handout attach here

14. Next Meeting: Weds, April 26 2017 at Nelson Springs.



MEMORANDUM

DATE: April 27, 2017
TO: Melvin R. Sampson
FROM: Carol Sue Martin
SUBJECT: **YKFP P.G. Minutes for April 26, 2017 meeting @ Nelson Springs**

Meeting called to order at 9:15

Attendance: Mel Sampson, Dave Fast, John Easterbrooks, Bill Fiander, Pat Spurgin, Bill Sharp, Bill Bosch Anthony Fritts.

1. Agenda Review
 - a. No BPA Reps at this meeting
 - b. Klickitat Conference – Bill Sharp
 - c. Columbia River Systems Operation – EIS (CRSO-EIS)
 - d. Discussion by Bill Bosch re: conversation with Chris F. (hallway chat)
2. NEPA
 - a. Judy Woodward formerly of Crossing Borders now works for BPA is she will be doing supplemental EIS for Klickitat. Bill Sharp will work on getting a site tour set up with her.
 - b. Evaluate EIS Mitchell Act for Klickitat (if it covers us). Yes, the Klickitat is covered by the EIS
 - c. Washington DNR has purchased land that surrounds the Hatchery. WA ST DNR purchased property from Hancocks Timber Groups.
 - d. Policy Group Decision 2017-02 has been done for: Relevant biological design criteria for the incubation chiller system. NOAA funded action.
 - e. Currently all fish on site at Klickitat Hatchery are 100% Mitchell Act funded. Funding is never adequate, and has to be augmented each year.
 - f. CRSO-EIS
 - g. Massive sale undertaking, prepared in 1995 – system wide analysis was done
 - h. Yakama Nation got invited to be a Cooperating Agency
 - i. CEQ regulations based on specific evaluating of project, technically orientated.
 - j. Broder MOU/MOA – recognize/recognizes Accord policy
 - k. MRS Coho Hatchery – 10:00 a.m. conference call today re: MRS Coho Hatchery. Updates, draft EIS.
3. BUDGETS:
 - a. Klickitat design startup is set for June 1, 2017
 - b. M&E work on Yakima Basin
 - c. Longer term budget
 - d. Potential cliff on Accord funding. Contract budget periods and Accords (ending dates)

- e. BPA requesting budget agreements for short term?
 - f. Process underway meeting set for June 21st, 2017
4. CONSTRUCTION:
- a. Policy Group Decision: Klickitat Hatchery NOAA grant
 - b. WDFW/YN Lease and MOA in place
 - c. Identifies WDFW and YN approval mechanism to advance capital improvements to hatchery
 - d. Chiller in by end of summer 2017
5. PROJECT REPORTS
- a. The group discussed the need for discussions and potential development of a three-party MOA between BPA, YN and NOAA regarding long-term O&M funding for the Klickitat Hatchery. BPA encouraged YN to develop specifics regarding long-term O&M need.
 - b. Science conference at Discovery Center went well this year.
 - c. The group discussed communication about YKFP project activities within BPA. This is an ongoing discussion which Pat Spurgin will continue with Lydia Grimm of BPA.
6. STAC:
- Science & Management Conference: Dr. David Fast & Anthony Fritts
- a. June 14 & 15 at CWU
 - b. Agenda is pretty much completed
 - c. Will be held in same room as last year.
- Spring Chinook Forecast
- d. No difference in forecast (hand-out chart)
 - e. No detections of our fish at Bonneville
 - f. Two weeks from now, we should see a spike in numbers.
 - g. Smolts are all out.
 - h. 74 over McNary as on April 25, 2017 according to DART
 - i. Lower Yakima sport fishery opens Friday, April 28, 2017 same as Ice Harbor Fishery
- Steelhead Spawning Channel
- j. April 14, 2017 fish done spawning
 - k. Fish didn't like the new set-up
 - l. Releasing water from Easton, had to go with well water
 - m. No more fish will be caught to go into spawning channel



MEMORANDUM

May PGM

Postponed

June PGM

Postponed

July PGM

Postponed



MEMORANDUM

DATE: August 21, 2017
TO: Melvin R. Sampson
FROM: Carol Sue Martin
SUBJECT: **YKFP P.G. Minutes for August 9, 2017 meeting @ Nelson Springs**

Meeting called to order at 9:15

Attendance: Mel Sampson, Dave Fast, John Easterbrooks, Bill Fiander, Pat Spurgin, Bill Sharp, Bill Bosch Anthony Fritts.

15. Agenda Review

- a. Will make every third week of the month for Policy Group Meeting.
- b. Next meeting is then scheduled for September 20, 2017 at Prosser at 1:00 PM

16. NEPA

- a. Judy Woodward working with BPA as technical writer
- b. Notice of Intent , goes out in October 2017, specific: spring Chinook
- c. EIS process to ROD, should be around April 2018
- d. MRS draft EIS – was asked if report was submitted? I don't get monthly reports from Mark J.
- e. Large scale five-year plan EIS
- f. MOU for tribes, as far as cooperative agencies in process. Be prepared to go in and make our organized and timely input.

g.

17. BUDGETS:

- a. September 2018 Accords will be done
- b. Term sheet? General statement on what an agreement would look like. Not an actual agreement more of an outline.

18. CONSTRUCTION:

- a. Klickitat Hatchery, three phase power hooked in
- b. RFQ at Lyle shop
- c. Pond #25 is out of EIS compliance, preliminary investigator in process with getting it into compliance.
- d. Have a new office trailer at Marion Drain, TSI placing in water alarms.
- e. S-line fish collected?
- f. Continued to monitor the wild
- g. Will have pre spawn meeting next week.
- h. Jack Creek acclimation site had a rough season.
- i. Generator continued to have problems, NC Machinery from Bellevue will be out to look at.
- j. Kelly Clayton updated permits and were good for another five-years.

19. STAC:

- a. Sockeye update 127 Sockeye at Roza.
- b. One summer at Roza on July 3rd.
- c. Collected 990 Sockeye from Priest Rapids, Grant County PUD required Facility Use Agreement this year, due to staff member of Whoosh falling in pond last year.
- d. Non-employees of Grant County PUD were not allowed on grounds unless they had a Facility Use Agreement.
- e. Steelhead Spawning Channel:
- f. Fish showed up in Naches trap on June 21 and ended Aug 3rd. 15-20 Naches fish and 10-15 Yakima fish.
- g. Estimated Yakima River Spring Chinook returns & escapement 7/1/17 (see attached table)

20. NEXT MEETING: September 20th, 2017 at Prosser at 1:00 PM

Bill R

Estimated Yakima R. Spring Chinook Returns and Escapement 7/11/2017

	Wild		Hatchery		Total	
	adults	jacks	adults	jacks	adults	jacks
Riv/Wh	2,548	345	1,703	824	4,251	1,169
tribal blw	66	4	44	8	110	12
sport blw						
Prosser	2,482	341	1,659	677	4,141	1,018
tribal abv	93	48	62	95	155	143
sport abv						
Roza	1,446	192	1,596	721	3,042	913
Roza Brd	337	21	169	36	506	57
HC Removals			131	119		
SH to Lake Cle Elum		0	0	0		
Escape						
UppYak	1,109	171	1,296	566	2,405	737
Nach/Am	943	101				



MEMORANDUM

DATE: Sept, 2017
TO: Melvin R. Sampson
FROM: Carol Sue Martin
SUBJECT: **YKFP P.G. Minutes for Sept, 2017 meeting @ Nelson Springs**

No Meeting

Appendix C: YKFP Policy Group Decision Documents

Document ID	Date	Description
2001-01	2/21/2001	Easton Ponds Coho Acclimation
2002-01	3/26/2002	Easton Ponds Coho Smolt Acclimation
2002-02	3/26/2002	Evaluation of energy expenditure in adult salmon and steelhead migrating upstream in the Columbia and Snake rivers: understanding the influence of delay, fallback, water temperature, and dam operations on fish performance.
2002-03	3/26/2002	Approval and implementation of the preferred domestication experimental design for upper Yakima River spring chinook salmon.
2002-04	3/26/2002	Determine the effects of genetics and food on age 0+ precocial maturation of spring chinook salmon at the Cle Elum Hatchery.
2002-05	3/26/2002	Determination of YKFP action on supplementation fish that result from adults with high and/or very high BKD levels.
2003-01	5/20/2003	Disposition of fry from predator and behavioral dominance assays.
2003-02	12/1/2003	Monitoring of the wild control line of spring Chinook in the Naches River system.
2003-03	12/1/2003	Develop Yakima Basin Master Plans for steelhead, fall chinook, sockeye, and lamprey.
2003-04	12/1/2003	NOAA Fisheries precocial minimization: Test whether early ponding and growth manipulations can significantly reduce the incidence of precocialism, without unintended negative consequences.
2004-01	9/15/2004	Change the containment objective for cutthroat trout from 0% impact to not to exceed 10% impact in the main stem and 40% impact in the tributaries. Investigation of the cause of impacts for resident trout (rainbow, cutthroat) in tributaries will be initiated at or before decreases of 20%.
2006-01	5/24/2006	Terminate the precocial minimization (normal versus slowed growth feeding regime) experiment at CESRF after three brood years of study. Direct CESRF personnel to use the normal growth feeding regime for all ponds beginning with brood year 2005 fish.
2006-02	9/15/2006	Do not collect broodstock for the wild control line during 2006 because of potential harm to the Naches population and the uncertainty of being able to collect a sufficient sample size.
2006-03	12/18/2006	Test the effect of emergence timing on age-1 male maturation (precocious parr) in Yakima River Spring Chinook salmon.
2007-01	2/26/2007	Authorize CESRF personnel to implement a control/treatment study at the acclimation sites using the BioTransfer (saltwater transfer) diet beginning with

Document ID	Date	Description
		brood year 2005 fish.
2007-02	2/22/2007	Do not collect Naches population wild control broodstock unless Naches Basin estimated escapement is 500 or more adults.
2007-03	3/28/2007	Conduct genetically based pedigree analyses to identify the treatment origin of hatchery fish when pre-season forecasts suggest that fewer than 120 HC fish will return to the upper Yakima and prioritization of adult HC pedigree is higher than spawning channel fry pedigree.
2007-04	8/17/2007	Based on current information on the number of HC broodstock on hand plan on suspending the Reproductive Success spawning channel study for just 2007. Reassess the plan subject to the results of the first broodstock sort. Suspended tasks would include work associated with monitoring spawning adults, maintaining fry traps, and sampling fry production.
2008-01	8/5/2008	Authorize the Yakama Nation to proceed with the proposal to re-establish a summer run component to enhance viable salmon population parameters for Fall Chinook in the Yakima Basin. The Yakama Nation will work with WDFW to develop monitoring and evaluation measures for adult returns to the spawning grounds that are sufficient to address concerns regarding spatial and temporal overlap and potential genetic introgression with spring Chinook. The entire proposal including M&E measures will be included in the Fall Chinook Master Plan.
2013-01	2/28/2013	Transfer Accords budget for Yakima steelhead acclimation facilities to corresponding budgets for construction, operation and maintenance of the hatchery facilities at the Holmes property.
2013-02	12/13/2013	Approve and forward the spring Chinook, fall Chinook, and coho HGMPs by the Yakama Nation and WDFW to NOAA Fisheries for ESA consultation purposes.
2014-01	8/7/2014	Approve research at the CESRF to study the effect of parent age on the rate of minijack production among male progeny of spring Chinook and the effect of parent age, size, and egg size on the growth (length and weight) of spring Chinook at the Fry and Parr stage.
2014-02	10/23/2014	Approve the use of the CESRF spawning channel for steelhead kelt reproductive success research beginning in the late winter/spring of 2015.
2015-01	08/11/2015	Suspend collection of broodstock for the Naches wild control line in 2015 because of potential harm to the Naches population due to high water temperatures.
2016-01 Klick/Lyle shop construction	02/24/2016	Relocate existing bullpen at Lyle Falls trap and construct a new 2400 sq. ft. pre-engineered steel building (40' wide, 60' long, and 15' high) with 6" thick concrete slab on grade to accommodate the weight of the reach fork (30,000 lbs).
2016-02 Klick/Lyle shop construction	04/26/2016	Prepare area and construct new truck shop/maintenance building at the Klickitat Hatchery to support YKFP hatchery operations.
2016-03 3-phase power	7/15/2016	Contract with KPUD to upgrade electrical service to the Klickitat Hatchery.

Document ID	Date	Description
KPUD		
2016-04 Suspend Naches Wild Control	7/19/2016	Suspend collection of wild control line broodstock from the Naches River during BY2016 due to concerns about the impact to the population.
2017-01 Naches Wild Control – periodic sampling	3/1/2017	Approve periodic (e.g., generational rather than annual) collection of Naches wild control line brood stock (eggs).
2017-02 Install chilled water system at Klickitat Hatchery	4/26/2017	Procure and install chilled water system into existing incubation water supply at the Klickitat Hatchery.