

FISHERIES TECHNICIAN FIELD ACTIVITIES

8812008

SHORT DESCRIPTION:

Retain 14 Yakama employees to assist in field data collection, task activities/assignments, and special fishery related projects consistent with the overall objectives of YKFP. Retain 10 temporary employees to operate Chandler and Roza.

SPONSOR/CONTRACTOR: YIN

Yakama Indian Nation
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SUB-CONTRACTORS:

N/A

GOALS

GENERAL:

Supports a healthy Columbia basin, Maintains biological diversity, Maintains genetic integrity, Increases run sizes or populations, Adaptive management (research or M&E), Program coordination or planning, Basinwide, Education

ANADROMOUS FISH:

Production, O&M, Research, M&E

RESIDENT FISH:

O&M, Research, M&E

NPPC PROGRAM MEASURE:

7.4K.1

RELATION TO MEASURE:

This project is used for the collection of field data vital to evaluating and monitoring the success of the YKFP.

OTHER PLANNING DOCUMENTS:

The YKFP is specifically identified in Wy Kan Ush Me Wa Kush Wit under Subbasin plans, Yakima River, Recommended Actions for the Yakima River system. Part (9a) page 59, Part (9b) page 60, Fall Chinook; Part (9c) page 60, Summer Chinook; Part (9d) page 60, Coho; Part (9e) page 60, Sockeye; and part (9f) page 60-61, Steelhead.

TARGET STOCK

Yakima basin coho

Naches Subbasin summer steelhead

Upper Yakima summer steelhead

Toppenish creek summer steelhead

Satus creek summer steelhead

Yakima mainstem fall chinook

American River spring chinook

Naches River spring chinook

Upper Yakima spring chinook

LIFE STAGE

Prespawning adult through smolt

MGMT CODE (see below)

E,S

S,W

S,W

S,W

S,W

S,W

S,W

S,W

S,W

AFFECTED STOCK

Competitors

Pathogens

Mutualists

Predators

Yakima basin west slope cutthroat

Yakima basin bull trout

BENEFIT OR DETRIMENT

Neutral

Neutral

Beneficial

Beneficial

Neutral

Beneficial

BACKGROUND

Stream name:

Yakima, Klickitat and Tributaries

Subbasin:

Yakima, Klickitat

Stream miles affected:

Yakima 939 miles - Klickitat 250 miles

Land ownership:

Tribal, State, Private, Federal

HISTORY:

The YKFP has been in the Fish and Wildlife plan since 1982. The Yakima phase of the Project initially included an all stock initiative. There still remains an all stock initiative but not all at once. The Policy Group's preferred an all stock initiative. There still remains an all stock initiative but it will be implemented through a phase in process. The Policy Group's preferred alternative that's included within the FEIS is to implement the supplementation aspects for Spring Chinook and develop and implement a monitoring plan for the now released coho in the basin. The other stocks will be implemented through a tiering process. The Klickitat aspect of the Project currently is doing fishery surveys, population monitoring, habitat inventory, and engineering surveys of passage barriers in the Klickitat River watershed. This is consistent with the Preliminary Design Report.

BIOLOGICAL RESULTS ACHIEVED:

The technicians were utilized to collect pre-supplementation data. This information will be used as a gauge to the effectiveness of supplementation and to assist in the adaptive management concept.

PROJECT REPORTS AND PAPERS:

Fast, D.E. et al. 1989 Yakima/Klickitat Natural Production and Enhancement Program. Prepared for Bonneville Power Administration. Project No. 88-120. Grant DE-A179-88BP93203.
 Hubble J.D. et al 1990 Yakima Klickitat Natural Production and Enhancement Program. Prepared for Bonneville Power Administration. Project No. 88-120. Grant DE-A179-88BP93203.
 Hubble J.D. et al 1991 Yakima Klickitat Natural Production and Enhancement Program. Prepared for Bonneville Power Administration. Project No. 88-120. Grant DE-A179-88BP93203.
 Hubble J.D. et al 1992 Yakima Klickitat Natural Production and Enhancement Program. Prepared for Bonneville Power Administration. Project No. 88-120. Grant DE-A179-88BP93203.
 Hubble J.D. et al 1993 Yakima Klickitat Natural Production and Enhancement Program. Prepared for Bonneville Power Administration. Project No. 88-120. Grant DE-A179-88BP93203.

ADAPTIVE MANAGEMENT IMPLICATIONS:

Adaptive Management for the YKFP is based on the data collected by the technicians, includes pre and post supplementation.

PURPOSE AND METHODS

SPECIFIC MEASUREABLE OBJECTIVES:

- 1) To test the assumption that new supplementation techniques can be used in the Yakima River Basin to increase natural production and to improve harvest opportunities, while maintaining the long-term genetic fitness of the native salmonid populations and keeping adverse ecological interactions within acceptable limits.
- 2) To provide knowledge about the use of supplementation, so that it may be used to enhance anadromous fisheries throughout the Columbia River Basin.

CRITICAL UNCERTAINTIES:

N/A

BIOLOGICAL NEED:

The technicians will be used in on going and future research/monitoring projects associated with YKFP.

ALTERNATIVE APPROACHES:

N/A

JUSTIFICATION FOR PLANNING:

N/A

METHODS:

Ten full time and four part time Fisheries Technicians, three Fish Culturists and two Fish Biologists will be retained to assist in field data collection, task/assignments and special fishery related project consistent with the overall objectives of YKFP. The specific tasks /assignments will be determined cooperatively amongst the participating agencies/personnel who need and request their services. These tasks include but are not limited to, operation of the Chandler juvenile fish facility, operation of the Roza adult and juvenile fish facility, spawning ground surveys, coho predation study and assisting WDF&W interaction study.

PLANNED ACTIVITIES

SCHEDULE:

PROJECT COMPLETION DATE:

As long as YKFP is in operation this project will be performed.

CONSTRAINTS OR FACTORS THAT MAY CAUSE SCHEDULE OR BUDGET CHANGES:

N/A

OUTCOMES, MONITORING AND EVALUATION

SUMMARY OF EXPECTED OUTCOMES

Expected performance of target population or quality change in land area affected:

The data collected by the technicians will be used to monitor and evaluate the YKFP.

Present utilization and conservation potential of target population or area:

N/A

Assumed historic status of utilization and conservation potential:

N/A

Long term expected utilization and conservation potential for target population or habitat:

N/A

Contribution toward long-term goal:

The data collected by the technicians will be used to monitor and evaluate the YKFP.

Indirect biological or environmental changes:

N/A

Physical products:

N/A

Environmental attributes affected by the project:

N/A

Changes assumed or expected for affected environmental attributes:

N/A

Measure of attribute changes:

N/A

Assessment of effects on project outcomes of critical uncertainty:

N/A

Information products:

As part of the annual review process, the data collected by the technicians will be statistically analyzed to monitor and evaluate the YKFP and its adaptive management concept.

Coordination outcomes:

N/A

MONITORING APPROACH

Provisions to monitor population status or habitat quality:

With respect to adult salmonids spawning ground surveys (redd counts) are conducted for spring chinook, steelhead (Satus and Toppenish basins only) and coho (around release sites). Adult salmonids are also video monitored at Prosser and Roza dams. Currently, juvenile fish monitoring for all salmonids species occurs at the Chandler Juvenile Facility (smolts and winter parr outmigrants). Currently, juvenile outmigrant monitoring capabilities are being developed at Roza dam.

Data analysis and evaluation:

Data collected will be analyzed and evaluated by the MIPT team of the YKFP.

Information feed back to management decisions:

This project is formulated on the adaptive management concept. After the data has been analyzed and evaluated the various scientific committees will make their recommendations to the managers of the YKFP.

Critical uncertainties affecting project's outcomes:

N/A

EVALUATION

The success of the project will be based on the overall survival of the targeted stocks. This includes post release survival, Long term fitness, Reproductive success, and Species interaction.

Incorporating new information regarding uncertainties:

All uncertainties will be addressed by various scientific committees associated with YKFP.

Increasing public awareness of F&W activities:

From its inception the YKFP has been very concerned that the public be aware of its intentions and goals. This has been obtained through the use of the various media groups, holding public meetings and giving tours to any interested parties.

RELATIONSHIPS

RELATED BPA PROJECT

RELATIONSHIP

9602000	Same as 8812004
9506404 Policy/Technical Involvement and Planning for YKFP	Same as 8812004
9506402	Same as 8812004
9506401 Refinement of Marking Methods for YKFP Note - Project Is Closing and Will Note Be Seeking Additional Funds in 1998 and Beyond	Same as 8812004
5507700 Monitoring of Supplementation Response Variables for YKFP	Same as 8812004
8903000 Effects of Acclimation on the Survival of Spring Chinook Salmon	Same as 8812004
9506800 Klickitat Passage/Habitat Preliminary Design	Same as 8812004
9006300	Same as 8812004
9006900 Yakima Hatchery - Final Design	Same as 8812004
8811500	Same as 8812004
9506800 Klickitat Passage/Habitat Preliminary Design	Same as 8812004
8812010	Same as 8812004
8812009	Same as 8812004
8812008 Fisheries Technician Field Activities	Same as 8812004
8812004	Training Assistance for Personnel for YKFP needs. Technical personnel support for field data collection, Task assignments and special projects consistent with Y/KFP objectives and needs. Develop enhancement strategies/production objectives for coho; develop stochastic models for progress assessment for spring/fall chinook and steelhead. Chandler certification study, via estimates of upper Yakima smolt production, will determine performance of hatchery groups to identify impacting factors for monitoring and corrections. Klickitat passage/habitat preliminary design. Design/construction for upper Yakima spring chinook supplementation facilities for Y/KFP. Final design for upper Yakima spring chinook acclimation sites & wells. Develop and test M&E plans for Y/KFP. Initiates the tasks needed to provide basic information from fisheries surveys, population monitoring, habitat inventory & engineering surveys for passage barriers for Preliminary Design Report. Effects of acclimation on the survival of spring chinook salmon. M

OPPORTUNITIES FOR COOPERATION:

The technicians work with other contracting agencies (WDF&W, NMFS, PSMFC, BOR and various private consultants) to collect data used in the implementation, evaluation and monitoring of the YKFP.

COSTS AND FTE

1997 Planned: \$822,565

FUTURE FUNDING NEEDS:

PAST OBLIGATIONS (incl. 1997 if done):

<u>FY</u>	<u>\$ NEED</u>	<u>% PLAN</u>	<u>% IMPLEMENT</u>	<u>% O AND M</u>	<u>FY</u>	<u>OBLIGATED</u>
1998	\$942,893			100%	1994	\$537,924
1999	\$1,010,243			100%	1995	\$496,850
2000	\$1,010,243			100%	1996	\$627,288
2001	\$1,010,243			100%	1997	\$822,565
2002	\$1,070,858			100%	TOTAL:	\$2,484,627

Note: Data are past obligations, or amounts committed by year, not amounts billed. Does not include data for related projects.

OTHER NON-FINANCIAL SUPPORTERS:

N/A

LONGER TERM COSTS: \$1,070,857.50

This is for the continued implementation of monitoring and evaluating of the YKFP.

1997 OVERHEAD PERCENT: 26.6%

HOW DOES PERCENTAGE APPLY TO DIRECT COSTS:

Total direct costs

CONTRACTOR FTE: 15

SUBCONTRACTOR FTE: N/A