

**Proposed Work Statement:
StreamNet Services to
Fish and Wildlife Program Watershed Projects**

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-Draft -



PURPOSE

Following is a preliminary proposal for StreamNet to provide data services to the Fish and Wildlife program's watershed planning and habitat restoration initiatives. Benefits to the Fish and Wildlife Program from this coordination would include:

- Increased standardization among projects in terms of data development and meeting Program objectives.
- Insurance that data created through projects will be maintained over the long-run and be made available to decision makers, managers, and the public.
- Significant cost savings through avoidance of duplication, unnecessary equipment purchases, etc.
- The availability of consistent, Basin-wide information to assist in project selection.
- Increased ability to monitor project effectiveness over time.

The impetus for StreamNet involvement in watershed projects comes from the Council's FY 98 AIWP Recommendations (NWPPC, September 16, 1997). Section 2 of that report states "*The habitat project evaluation and selection process should include provisions to ensure that StreamNet is used to coordinate, accumulate, store, and make available the relevant watershed information, assessments and projects.*" The Council goes on to suggest that approximately \$100,000 should be allocated for this activity. In response to

OBJECTIVES AND TASKS

The following objectives and tasks outline a comprehensive program for providing watershed project data services to the Fish and Wildlife Program. Objectives and tasks were developed assuming a budget of \$100,000 annually. However, a detailed cost evaluation has not been undertaken. It is likely that actual implementation would need to be phased in as data and resources are made available. It is assumed that CBFWA, NWPPC, and/or ISAB/ISRP would provide policy direction.

Objective #1: Watershed Orientation and Project Selection. Provide Fish and Wildlife Program decision makers with baseline information tailored to assist decision-makers in identifying priorities and selecting projects.

Task 1a. Assemble applicable watershed-level biological and F&W Program information from existing sources.

Following are examples of the types of information that might be included:

- FWP subbasin goal
- FWP objectives Identified problems, limiting factors
- Watershed statistics
- Land ownership
- Habitat character and condition
- Species data
- Stock/population delineation
- Distribution and life history use type
- Adult escapement
- Hatchery releases
- Hatchery returns
- Harvest
- ESA issues
- Listed species
- Proposed listing species
- State or agency sensitive species status
- Designated critical habitat

Task 1d. Incorporate database and GIS data into an Internet-based query system to facilitate ease of access and cross-watershed comparisons. Prepare hardcopy summaries for each watershed. Deliver these to CBFWA and make them available for download via the StreamNet Internet site.

Objective #2: Project Tracking. Create a watershed and habitat project database.

Task 2a. Assemble pertinent information regarding historic and current watershed, habitat protection and habitat restoration projects. Projects would include:

- FWP funded activities (first priority)
- Other federal/state mitigation activities
- Federal land management activities
- Tribal activities
- Private initiatives

(Including non-FWP projects would depend on cooperation from project sponsors to supply necessary information in an appropriate format.)

Task 2b. Incorporate information into an electronic database with a query system. All data would comply with established data exchange standards in order to facilitate program-wide review and analysis. The database would include the following:

- Administrative and financial information
- Project objective(s)
- Specific protection/restoration activities and locations
- Monitoring and evaluation activities and findings
- Operation and management activities

Task 2c. Develop procedures for incorporating monitoring data over time.

Objective #3: Support to Projects. Provide support to watershed and habitat projects.

Task 3a. Provide a "core" set of available and relevant baseline data for use by all

Task 3b. Provide technical database and GIS assistance to projects. Assistance might include:

- Instructions on use of the 1:100,000 hydrography to capture and display data
- Preparation of GIS map products (if this capability is not available)
- Technical assistance in structuring a database system.

Objective #4: Regionally Consistent Watershed Data. Provide assistance in creating a standard set of data "outputs" from all watershed-level projects.

Task 4a. Establish a set of "core" habitat and other appropriate data elements that would be collected/compiled through all watershed-level projects.

Task 4b. Establish data exchange standards.

Task 4c. Create data entry mechanisms to facilitate capture of these data.

Objective #5: Data Delivery. Provide access to watershed project information via the Internet.

Task 5a. Create a watershed project information center on the StreamNet Internet site that would serve as a means for posting information about individual watershed project. Information that could be provided for each project might include:

- Project sponsor and contact
- Project summary
- Orientation map
- FWP project description and work statement
- Project schedule, including important upcoming meetings
- Documents prepared through the project
- GIS maps prepared through the project
- Data collected/compiled through the project

(Successful implementation of the above task would depend on the cooperation of project

Objective #6: Data Storage and Access. Provide the means for compiling data and reports prepared through watershed and habitat projects and provide access to these via the Internet and the StreamNet Library.

Task 6a. Integrate data meeting StreamNet data exchange standards into the region-wide data system.

Task 6b. Establish a means to provide Internet access to "non-standardized" data (spreadsheets, databases, GIS maps, etc.) This would be accomplished by cataloging these files and integrating them into a query feature to allow the user to easily sort through available data. Once located, files could be downloaded via ftp or, as appropriate, viewed on the screen.

Task 6c. Reference all data to source materials and make these references available via StreamNet's electronic reference system.

Task 6d. Receive, catalog, and maintain hardcopy documents produced through these projects. Documents would be housed in the StreamNet Library and made available to the public via normal library procedures.

Objective #7: Program Monitoring and Evaluation. Provide technical assistance to regional decision makers in the analysis of Program-wide watershed and habitat data.

Task 7a. Prepare annual reports or map products at the Basin, sub-region, subbasin, or watershed levels on subjects relating to M&E. These would be undertaken under the direction of CBFWA and NWPPC. Examples of reports that might be requested are:

- Basin-wide reporting of habitat projects undertaken and resources expended.
- Correlation between identified watershed-level issues and restoration activities.
- Multi-year correlation between fish production trends and restoration activities.

Task 7b. Provide technical assistance to CBFWA, NWPPC, and ISAB/ISRP in the preparation of special purpose data analyses. Examples might include:

- GIS maps of relationships between FWP projects and other restoration activities
- Materials for policy briefings on subjects related to watershed projects