StreamNet FY 98 "Quick" Plan

Goal: Contribute to the region's efforts to protect and restore aquatic resources by:
1. acquiring current data and source materials concerning fish and wildlife life history, production, habitat, and restoration efforts,
2. incorporating these data and materials into a regionally consistent whole, and
3. providing critical data via the Internet, library services, and custom products.

Objective 1 - Data Acquisition

ANADROMOUS FISH

Task 1.1   Prepare and maintain standardized data on anadromous salmonids and, as available, other anadromous fish, to include:

   a) Ocean range and distribution.
   b) Freshwater distribution, life history, and barriers.
   c) Adult abundance (escapement, redd counts, trap counts, dam counts).
   d) Juvenile abundance (smolt monitoring, index of abundance, hatchery/wild ratio).
   e) Harvest (ocean, in-river, terminal).
   f) Natural production (survival, production factors, spawner recruit numbers).
   g) Hatchery production (releases, exploitation, maturation, returns, and disposition.
   h) Age composition at return.
   i) Genetic origin, production type, stock and population identification.
   j) Historic range.
   k) Data and appropriate analytical results derived from PATH.

RESIDENT FISH AND OTHER AQUATIC SPECIES

Task 1.2   Prepare and maintain standardized data on resident fish and other aquatic species, to include:

   a) Distribution and, when known, life history.
   b) Hatchery production (releases and outplants) for salmonids.
   c) Natural production.
   d) Genetic origin, production type, stock and population identification.
   e) Historic range.

HABITAT

Task 1.3   Prepare and maintain standardized data relating to fish and aquatic habitat, to include:

   a) Data exchange formats consistent with interagency "core variables."
   b) ICBEMP and comparable westside datasets.
   c) Proposed and final ESA critical habitats for fish and aquatic wildlife.
   d) Clean Water Act 303(d) data.
   e) Estuary and ocean habitat - devise a strategy.

f) Other sources that can contribute to characterization of aquatic habitat.

FACILITIES

Task 1.4   Maintain standardized data relating to facilities affecting fish and aquatic habitat.

a) Dams.
b) Irrigation diversions and screening status (exchange format only).
c) Man-made blockages and fish passage facilities (exchange format only).
d) Anadromous and resident hatchery facilities.

AQUATIC MITIGATION AND RESTORATION PROJECTS

Task 1.5   Prepare and maintain standardized data relating to the tracking of aquatic management and restoration projects, to include:

a) Fish and wildlife enhancement projects funded through the Fish and Wildlife Program.
b) Aquatic restoration projects funded in accordance with the interagency MOA.
c) Other restoration, protection, and mitigation projects (evaluate).

DATA REFERENCE

Task 1.6   Document data incorporated into StreamNet with reference number and source; collect applicable source documents and provide to the Library.

RIVER SYSTEM OPERATIONS

Task 1.7   Compile historic data on mainstem hydro and storage dam operations.

Task 1.8   Participate in regional discussions on providing in-season and dam operations data and determine the appropriate role for StreamNet.

Objective 2 - Data Management

Task 2.1   Design, develop, and maintain standard codes and data exchange formats for data being compiled as part of the StreamNet project, and for similar data development initiatives.

Task 2.2   Update the existing data exchange format report.

Task 2.3   Provide database management and administration, to include: 1) maintaining StreamNet data sets, 2) processing exchange data into the regional database, 3) transporting data to SQL, 4) enhancing StreamNet database structures and capabilities, and 5) providing programming services to participants to allow for efficient data entry and transfer.

Task 2.4   Designate and maintain a metadata format for spatial data.

Task 2.5   Establish and implement procedures for coordinating spatial data activities among participating organizations.

Task 2.6   Update/maintain a project data plan that identifies 1) current data holdings, 2) data items to be incorporated, and 3) data development expectations for participating agencies.

Objective 3 - Library / Reference Services

Task 3.1   Continue to develop a collection of materials including:

a) Documents used as source materials for data compiled in Objective 1.
b) Documents prepared by Fish and Wildlife Program contractors, including final products published by BPA and draft documents suitable for public release.
c) Documents from the Council's Fish and Wildlife Program-related collection.
d) Additional books, journals, agency reports, gray literature, research reports, and documents that are applicable to management of the region's aquatic resources.
e) Documents related to NMFS ESA activities.

Task 3.2   Provide improved user access to the materials described in Task 3.1, including:

a) Maintain an appropriate facility for the storage and use of the physical collection.
b) Organize and maintain the collection for appropriate on-site use.
c) Provide access to the StreamNet Library Catalog via the Internet.
d) Construct a useful keyword thesaurus/subject heading list.

Task 3.3   Catalog, index, and prepare a summary of materials acquired in Task 3.1a; catalog and index materials acquired in Task 3.1b; catalog materials acquired in Task 3.1c,d.

Task 3.4   Manage the StreamNet Library and provide library services including reference and referral, document delivery, inter-library lending and borrowing, and on-line search.

Task 3.5   Engage in networking with other agency and regional library service providers including:

a) Collect information about other regional f&w library collections, access policies.
b) Provide consultations for on ways to coordinate catalogs and services.
c) Coordinate with (others) to improve services and avoid unnecessary duplication.
d) Facilitate communications between agency library service providers.

Objective 4 - River Reach System / Hydrologic Referencing

Task 4.1   Maintain active coordination with the NHD team, providing comments and technical assistance as necessary.

Task 4.2   Assess the status of the 1:100,000-scale hydrography in terms of its treatment of lakes and reservoirs; establish graphic links and provide regionally consistent unique numbers for stream-linked water bodies (and high mountain lakes if feasible).

Task 4.3   Evaluate the NHD product in terms of accuracy and applicability to StreamNet. Make appropriate corrections to the NHD.

Task 4.4   Implement the river reach system maintenance strategy including:

a) Establish maintenance and enhancement protocol and procedures.
b) Aggregate route and ID coverage's into one library.
c) Assign names to unnamed streams, create routes, and add unique stream ID.

Task 4.5   Port applicable StreamNet data to the new 1:100,000-scale hydrography.

Task 4.6   Provide technical assistance regarding use of the 1,000,000-scale river reach system.

Objective 5 - Data Delivery / Information Systems

Task 5.1   Receive and respond to requests for data, source materials, and custom products.

Task 5.2   Continue to maintain and enhance the existing client-server system to provide access to StreamNet data products through the Internet.

Task 5.3   Maintain and enhance other components of the StreamNet home page and incorporate new features that complement existing components.

Task 5.4   Develop and implement a strategy for providing electronic access to StreamNet data through means other than the Internet.

Task 5.5   Provide training and orientation for users of the StreamNet data delivery systems upon request.

Task 5.6   Prepare data development strategies and products in support of Fish and Wildlife program monitoring and evaluation activities.

Task 5.7   Prepare map products for use in aquatic resource policy, planning, and management.

Task 5.8   Prepare topical reports that describe content, methods used, and sources of select large StreamNet datasets.

Task 5.9   Provide technical assistance to others involved in the Fish and Wildlife Program and activities that support the Program .

Objective 6 - Project Management / Coordination

Task 6.1   Administer all aspects of the project at the regional and sub-contractor levels, including oversight of budget and personnel and monitoring of project activities.

Task 6.2   Organize/participate in coordination meetings with the steering committee, BPA, CBFWA, Council, NMFS, ISAB/ISRP, and participating organizations.

Task 6.3   Prepare project administration reports including:

a) Brief quarterly reports.
b) A final report that describes project accomplishments.

Task 6.4   Produce public information materials including updated versions of the project brochure, computer demonstration materials, and/or other appropriate materials.

Task 6.5   Participate in educational and professional conferences.

Task 6.6   Maintain communications between StreamNet and other f&w activities in order to identify means for collaborative data collection, storage, and dissemination.

Task 6.7   Participate in F&W Program advisory groups and other applicable forums.

Task 6.8   Update the StreamNet data plan.

Task 6.9   Compile a project record consisting of final versions of all significant written materials that are prepared during the contract period.