

StreamNet FY 99 Quick Plan (BPA, NMFS, EPA contracts)



Objective 1 - Data Development. *Increase the knowledge base concerning the region's fish and wildlife resources through the acquisition of new information that responds to emerging needs as well as the updating and enhancement of production and survival trends and other existing information.*

Task 1.1 Anadromous Fish.

- a) Freshwater range, life history, barriers
- b) Adult abundance (escapement, redd counts, trap counts, dam counts)
- c) Juvenile data
- d) Harvest (in-river, terminal, other as available)
- e) Natural production (survival, production factors, spawner recruit)
- f) Hatchery production (releases, returns, disposition, straying)
- g) Age/sex composition for returning adults
- h) Genetics (data availability)
- i) Population delineation (as determined by others)
- j) Historic range (general, reach specific where available)

Task 1.2 Resident Fish.

- a) Freshwater range, life history, barriers (salmonids, sensitive natives, competitors)
- b) Adult abundance (escapement, redd counts, trap counts, dam counts)
- c) Angler use (fishing pressure, creel census)
- d) Hatchery production (releases, out-plants)
- e) Genetics (data availability)
- f) Population delineation (as determined by others)
- g) Historic range (general, reach specific where available)
- h) Status (stable, declining, etc.)

Task 1.3 Aquatic Habitat.

- a) Habitat data from ICBEMP
- b) Other appropriate data layers from the ICBEMP
- c) Water quality (303(d))
- d) Stream survey data linked to the StreamNet data system (for prototype watershed planning projects)

- e) Other appropriate information compiled by others

Task 1.4 Facilities.

- a) Dams and fish passage facilities
- b) Hatcheries (including resident fish)
- c) Diversion/screening (for prototype watershed planning projects)

Task 1.5 Environmental Improvement Projects.

- a) Fish and Wildlife Program projects
- b) MOA, state, and federal land manager projects (initiate)
- c) Other state, tribal, and private projects

Objective 2 - Data Management and Delivery. *Provide high quality data management services, with specific emphasis on the creation of regionally consistent data sets and the timely delivery of data to users in formats that meets their policy, planning, and management needs.*

Task 2.1 Database Management.

Task 2.2 Data Plan.

Task 2.2 Data Exchange Standards.

Task 2.3 GIS Data System.

Task 2.4 StreamNet Internet Site.

Task 2.5 1:100,000-scale Hydrography.

Task 2.6 Data Requests.

Objective 3 - Library / Reference Services. *Provide professional library services targeted to meeting the needs of the region's fish and wildlife decision-makers, planners, and managers. This includes continuing to acquire and catalog StreamNet data source materials and other critical documents and providing open and efficient access to these materials.*

Task 3.1 Collection Development.

Task 3.2 Access to Collection.

Task 3.3 Catalog and Index Materials.

Task 3.4 Library Services.

Task 3.5 Inter-library Coordination.

Objective 4 - Services to Fish and Wildlife Program Activities. *Provide substantive technical data services to Fish and Wildlife Program decision-makers and appropriate Fish and Wildlife Program projects.*

Task 4.1 Project Tracking.

- a) Current year AIWP data base (cooperator)
- b) Internet version of FY 1999 AIWP
- c) Internet version of FY 2000 AIWP

Task 4.2 Monitoring and Evaluation.

- a) Participate in and/or monitor FWP monitoring and evaluation work groups.
- b) StreamNet data plan consistency with M&E needs.
- c) Data reports and other products in support of M&E activities.

Task 4.3. Watershed Projects.

- a) Watershed orientation data
- b) Project tracking
- c) Technical support to projects
- d) Compile regionally-consistent watershed data
- e) Internet delivery of watershed data and information
- f) Long-term data storage and access
- g) Assistance to watershed M&E activities

Task 4.4 Stock Assessment Projects.

- a) Region-wide data exchange standards
- b) Technical assistance
- c) Internet access

Task 4.5 Service to Fish and Wildlife Program Projects and Activities

- a) Analysis Projects (custom data reports and GIS products, data archive and access)
- b) Research Projects (library services, custom data reports and GIS products, data archive and access)
- c) Special Projects (as identified in the final AIWP)
- d) Policy Reports and Plans (custom products for FWP reports and plans)

Task 4.6 Internet Access.

StreamNet will provide Internet access for information about, and data from, select FWP projects and activities.

Task 4.7 Protected Areas.

- a) Maintain the official version of the Council's Protected Areas dataset.

- b) Archive official version as a historic record.
- c) Respond to requests for information concerning Protected Areas.

Objective 5 - Project Management. *Provide effective leadership that ensures the production of high quality products targeted at critical applications and the development of these products in a timely, cost-effective manner.*

Task 5.1 Manage Project Activities.

- a) Work statement
- b) Personnel
- c) Finances
- d) Project reporting

Task 5.2 Participate in Fish and Wildlife Program Development Activities.

Task 5.3 Prepare Public Information Materials.

Task 5.4 Coordinate With Related Activities.

Objective 6 - EPA Environmental Data Development. *Expand, management, and maintain the StreamNet database to meet several high priority data needs identified by the Environmental Protection Agency.*

Note: The geographic scope for data development under objective 1, tasks 1.1 through 1.8 includes the states of Idaho, Oregon, and Washington.

Task 6.1 Salmonid Species Data.

- a) Distribution
- b) Legal status (state and federal)
- c) Population delineation (where available)

Task 6.2 Field Stream Survey Data.

Agency data linked to PNW hydrographic files, ODFW field surveys as first priority.

Task 6.3 Stream Temperature Summary Data.

- a) Existing data linked to PNW hydrography.
- b) List of summary statistics.

Task 6.4 Macroinvertebrate Sampling Data.

Xerces Society macroinvertebrate sampling data linked to PNW hydrography.

Task 6.5 Water Quality Data.

- a) Data exchange format for spatial 303d data
- b) Conversion of existing data to new format, referencing to regional 100k hydrography.

Task 6.6 Remote Access to Spatial Data.

Provide means for creation of aquatic resource data on PC without GIS software.

Task 6.7 Data Compilation Processes

Establish mechanisms for data collection and quality assessment within States to streamline and increase efficiency of collection and error checking of aquatic data.

Task 6.8 IRICC Web Page

Enhance and maintain WWW page for the Interagency Resource Information Coordinating Council.

Objective 7 - NMFS Anadromous Fish Trend Data Development. *Expand the StreamNet database to all anadromous salmonid populations in the states of California, Oregon, and Washington.*

Task 7.1 Abundance Data.

Update natural adult abundance data, focusing on anadromous populations outside of the Columbia River Basin.

Task 7.2 Hatchery Data.

Update hatchery release and return data, focusing on anadromous populations outside of the Columbia River Basin.

Task 7.3 Harvest Data.

Update freshwater and marine harvest data, focusing on anadromous populations outside of the Columbia River Basin.

Objective 8 - NMFS Habitat Restoration Projects. *Expand the StreamNet database to include habitat restoration projects in the states of California, Idaho, Oregon, and Washington.*

Task 8.1 Standardized Format.

Specify, in a standardized format, the types of information on habitat restoration projects to be included in StreamNet.

- a) Project title.
- b) Sponsor
- c) Project manager name/address/phone number of project manager
- d) Target stocks.
- e) Location/size/physical characteristics of the treated area.

- f) Land use and land ownership patterns.
- g) Beginning and completion dates.
- h) Types and magnitude of restoration activities undertaken.
- i) Restoration costs by year with inflation factor.

Task 8.2 Enhancement Project Data Development.

Gather and incorporate information on habitat restoration projects since 1980 for the benefit of salmon or steelhead stocks.

Task 8.3 Technical Guidance and Assistance.

Provide guidance/advice to NMFS regarding the structure and format of the RFA database.

Task 8.4 Coordination with NMFS.

Consult regarding problems that may arise in connection with data collection, formatting, etc.

Task 8.5 Meeting Coordination.

Assist in coordinating two meetings of experts to develop and estimate models for predicting restoration costs. Meetings will identify appropriate models and evaluate results of model estimation.