



StreamNet

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Fiscal Year 2001

First Quarter Progress Report

by

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Introduction

This report presents accomplishments of the StreamNet project for the First Quarter of Fiscal Year (FY) 2001. The report is organized to clearly link accomplishments by the project participants to the tasks and responsibilities detailed in the annual Statement of Work. It is organized by Objective and Task for all project participants, rather than by individual project participant. Since not all tasks are addressed each quarter and the project participants often work on different tasks at different times, some tasks do not show activity in any given quarter. In the cases where a project participant had no activity on one of their tasks in the current quarter, that task is simply not included in this report.

Project participants contributing to the StreamNet project during the first quarter of FY 2001 were Columbia River Intertribal Fisheries Commission (CRITFC), US Fish and Wildlife Service (FWS), Idaho Department of Fish and Game (IDFG), Montana Fish, Wildlife and Parks (MFWP), Oregon Department of Fish and Wildlife (ODFW), Pacific States Marine Fisheries Commission (Region), Shoshone-Bannock Tribes (SBT), and Washington Department of Fish and Wildlife (WDFW).

Objective1, 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.

Objective 1 Data Development

Task1 Anadromous Fish

Acquire data sets related to salmon, steelhead and, where data are readily available, other anadromous fish populations from the multiple agencies, tribes and organizations within the Columbia Basin and compile and maintain them in standardized, consistent formats for the following categories:

Objective 1 Data Development

Task 1 Anadromous Fish

SubTask 1.a Distribution, Life History (use type), and Barriers

Document the occurrence, distribution and habitat use of anadromous species, related barriers to migration, and life history characteristics

Project Job Work Element

Accomplishments, First Quarter, FY2001

IDFG	1 Identify and update missing data in anadromous barrier data.	Updated our current diversions data to the current Barrier data exchange format.
ODFW	1 Update, maintain, correct and exchange barrier information.	1) Created a user interface for the barrier, dam and reference tables in the database. 2) Added 70 new barrier records to the database. 3) Worked on resolving LLID issues in the database. 4) Verified several barrier records with information collected during other ODFW project activities. 5) Updated the allstr (HUCxLLID) and LLID tables in the database.
ODFW	2 Update, maintain, correct and exchange anadromous fish distribution information (DistUse and DistPresence tables).	Processed Rogue documentation data. Modified distribution event data to match documentation and provided to Regional StreamNet staff. This effort furthered our knowledge of how to process disparate data types to enhance our DistUse and DistPres distribution data.
ODFW	3 Modify / refine the automated approach to populating the FishBarrier table (as needed) and rectify any new anadromous distribution information with the barriers database.	Worked with regional StreamNet staff to develop guidelines for when to add records to the FishBarrier table.

ODFW	5 Update (and modify if needed) the Fish Presence Survey database which helps populate the DistPresence table.	Continued to enter data into the Fish Presence Survey Database which is designed to capture Oregon's upper fish distribution and culvert information collected by ODF/ODFW surveyors. To date, 1,969 records have been entered.
ODFW	6 Update (and modify if needed) the Incidental Fish Observation database, which captures incidental species observations not routinely reported in agency documents, which helps populate the DistPresence table.	Completed the draft data entry instructions for the IFO database. Continued to enter forms as they came in - currently, 29 of the 95 records in the database are for Col. Basin streams. New information will not be processed and submitted to StreamNet due to budget cuts.
ODFW	7 Identify appropriate documents/references for anadromous fish distribution data in order to populate the DistPresence table.	Ongoing.
ODFW	8 Update, maintain, correct and exchange photographic information (MapCat and related tables).	Made improvements to the user interface for the ODFW Image database. Resized 76 electronic barrier photos to improve space usage and improve efficiency.
ODFW	9 Populate the genetic origin and production origin fields in StreamNet distribution exchange format for all anadromous fish distribution data in the Columbia basin.	This task was dropped due to budget cuts. Standards and definitions need to be developed in order for this work to occur.
Region	1 Compile distribution updates (tabular events) as they arrive. Create anadromous fish distribution GIS coverages from these event tables, and post the shape files to the StreamNet website as downloadable GIS coverages.	Identified Chinook distribution errors in Palouse subbasin and revised distribution data through WDFW.
WDFW	1 Review barriers in the anadromous fish distribution layer, based on SSHIAP information and indicators in the Stream Catalog. Update and exchange the data with the regional database.	O'Connor coordinated fish distribution updates for chum and smelt stocks in the Lower Columbia River to enhance products generated for a public hearing.

SubTask 1.b Adult Abundance

Escapement, redd counts, trap counts, dam counts, hatchery returns

Project Job Work ElementAccomplishments, First Quarter, FY2001

FWS 1 Compile FWS hatchery return data for FWS hatcheries

compiled CY 2000 return data

IDFG 1 Compile 2000-field season redd count data and 2000 field season hatchery return data and submit to the regional database.

Migrated existing redd count data to new FIS format. Identified data that did not match to new 100K hydro. Began development of an application to allow us to proof and correct redd count data.

ODFW 1 Update existing abundance and index trends (escapement, redd counts, trap counts, peak/other spawning counts, etc.) for anadromous species through 1999 and modify as needed to adhere to the 2000.2 Data Exchange Format. Four data submissions are planned.

Added 124 trends (14 Adult Return - Peak/Other Spawning counts, 9 Adult Return - Dam/Weir counts, 1 Adult Return - Estimates of Spawning count, 92 Adult Return - Redd counts, and 8 juvenile records). Submitted new and updated trend data to regional StreamNet on Dec. 20th.

ODFW 2 Compile data on returns to ODFW hatchery facilities (updated for 1997, 1998, and part of 1999 returns).

No effort made this quarter - no database manager on staff.

SBT 1 Update adult abundance data gathered by SBT personnel through 2000 and provide to IDFG.

No data updates were scheduled in the first quarter.

WDFW 1 Update and exchange hatchery returns through 1999 in StreamNet data exchange format.

1) Didn't add this back from budget cut until Quarter 3 but Woodard delivered Washington hatchery returns to Sikora in October for delivery to PSMFC in the form of a flat file to accommodate the DEF. Sikora converted B11X codes to DEF codes and exchanged the data in October.
2) Sikora re-issued the complete oct2000 returns data to correct the EndFt. Only the EndFt entries changed in the new file wdfw-oct2000returns-corrected13dec2000.mdb.

- WDFW 2 Update and exchange natural spawner data (returns and/or redd counts) through 1999 for available species (CR, PS)
- 1) Chum data for SaSI was collected and put into SaSI format for delivery to Headquarters. Historical Columbia River landings for chum were entered into a Qpro spreadsheet for helping determine minimum run size estimates.
 - 2) Stream survey cards were entered into the SurveyCard.db to update the Grays River stream surveys performed in recent years.
 - 3) Woodard completed updating existing B11X escapement data with 1999 escapement estimates. Escapement data was delivered to Sikora in November (and resubmitted in December after fixes). A flat file was created for Leslie to accommodate the DEF until a new database for escapement estimates and redd counts is created.
 - 4) Sikora reviewed Woodard's escapement data and responded with questions concerning References, blank Count fields, FirstDate and LastDate, 60K series trends, other unaccounted (non-steelhead) WDFW records existing in SN and info needed to help her accurately assign the BegFt and EndFt.
 - 5) Lensegrav began converting Jim Cummins' Yakima basin escapement data to the StreamNet format. Early reports indicate Jim's files include natural spawner, returns and harvest data.

Objective 1 Data Development

Task 1 Anadromous Fish

SubTask 1.c Juvenile Data

Sample records, abundance indices (as available)

Project Job Work Element

Accomplishments, First Quarter, FY2001

ODFW 1 Prepare and submit recommended modifications of the draft Juvenile abundance portion of the DEF.

This task was dropped due to budget cuts.

ODFW 2 Update Oregon's 10 existing juvenile abundance records to approved DEF standards.

No work has been accomplished in this area. ODFW is awaiting a format change to the juvenile abundance DEF requirements and the resulting Trend Interface form design.

SBT 1 Update to IDFG juvenile data gathered by SBT personnel.

No data updates were scheduled in the first quarter.

Objective 1 Data Development

Task 1 Anadromous Fish

SubTask 1.d Harvest

In-river, terminal, and other harvest, as available

Project Job Work Element

WDFW 1 Update and exchange salmon harvest data through 1999, beginning with Columbia River commercial, sport and treaty harvest.

Accomplishments, First Quarter, FY2001

1) Didn't add this back from budget cut until Quarter 3 but Woodard collected historical chum harvest in the Columbia River from various reports to help with run reconstruction.
2) WDFW advised StreamNet on proposal to add ocean salmon harvest by compiling PACFIN marine data (better WDFW sources exist).

WDFW 2 Update and exchange steelhead harvest through 1998.

N/A – This job was not added back after the budget cut.

Objective 1 Data Development

Task 1 Anadromous Fish

SubTask 1.e Hatchery Production

Releases and disposition

Project Job Work Element

FWS 1 Compile FWS hatchery release data, w/ added CWT information

Accomplishments, First Quarter, FY2001

Hatchery release information was compiled.

FWS 2 Transform data to format 032

Initial transformation was completed.

IDFG 1 Compile 2000-field season hatchery returns data.

Migrated existing hatchery return data to new FIS format. Identified data that did not match to new 100K hydro. Began development of an application to allow us to proof and correct data.

ODFW 1 Develop the ability to remotely access the Portland mainframe hatchery database and download hatchery return data consistent with the StreamNet contract.

No effort was made this quarter - no database manager on staff.

ODFW 2 Compile egg-take data into StreamNet format and submit to PSMFC.

No effort was made this quarter - no database manager on staff.

Region 3 Acquire hatchery production data through 2000 from the RMIS database and incorporate into the StreamNet on-line database.

Obtained and loaded Washington, Oregon and Idaho Release and Location data from the Regional Mark Processing Center into a conversion database to begin resolving needed location coding.

SBT	1 Update SBT anadromous release information and provide to the IDFG.	No data updates were scheduled in the first quarter.
WDFW	1 Update and exchange juvenile release data to PSMFC through 2000.	Cox submitted release data to PSMFC (including available 2001 data) on February 22, 2001. Lensegrav assigned LLIDs to several subsets of WDFW's PSC location codes to aid the conversion to StreamNet's release data format. His location work needs to be consolidated and improved with the proper BegFt and EndFt assignments.

Objective 1 Data Development Task 1 Anadromous Fish

SubTask 1.f **Natural Production**

Survival, production factors, spawner recruit

Project Job Work Element

IDFG 1 Coordinate with IDFG personnel to determine the feasibility of incorporating survival/recruitment data.

Accomplishments, First Quarter, FY2001

Conducted discussions with Fisheries Bureau staff, but concluded that we have enough to do now to update our existing core data sets.

Objective 1 Data Development Task 1 Anadromous Fish

SubTask 1.g **Age**

Age/sex composition for returning adults

Project Job Work Element

ODFW 1 Compile age frequency data (updated for natural spring chinook in 1998, available time series for natural steelhead in OR portion of Columbia basin).

Accomplishments, First Quarter, FY2001

No work performed on this task during this quarter. This task was dropped due to budget cuts.

WDFW 1 Provide age/sex data associated with exchanged CRB natural returns data.

1) Didn't add this back from budget cut until Quarter 3 but Smith worked on building an age database in MS Access. Once building the database was complete she entered some age data to test data entry. She also spent a couple of days entering scale cards into the scales database to become familiar with Columbia River anadromous data.
2) Woodard worked on escapement data and filling in gaps where age data have not been entered yet.

Objective 1 Data Development Task 1 Anadromous Fish

SubTask 1.h Genetics

Areas where genetics data exists and the sources of these data

Project Job Work Element

Accomplishments, First Quarter, FY2001

CRITFC 1 Develop, with SC input, standardized database format and DEF for existing regional genetic data

Requested coast-wide salmon genetics database from NMFS. Also discussed the information in this database with contributing state agencies to determine if there were proprietary data issues in data use.

CRITFC 2 Provide allozyme and genetic data developed by CRITFC in a standard format

CRITFC data holdings were reviewed and possible database applications were discussed with staff. Important sample processing is in progress and it was decided to await those results before proceeding further.

IDFG 1 Participate in decisions regarding genetic data

Discussed genetics work with Fisheries Bureau staff. There are no plans to do any genetics work within IDFG this year.

Objective 1 Data Development Task 1 Anadromous Fish

SubTask 1.i Populations

Population delineation, as determined by others

Project Job Work Element

Accomplishments, First Quarter, FY2001

ODFW 1 Produce a cross-reference table of ODFW designated Gene Conservation Groups (GCG) by subbasin.

This task was dropped due to budget cuts.

WDFW 1 Compile and exchange updated Washington SaSI stock status data for anadromous fish using newly developed 2000.1 Data Exchange Format.

(see Task 2.3)

Objective 1 Data Development Task 1 Anadromous Fish

SubTask 1.j Historic Range

As available at the watershed-level. Compilation at the reach level is an option if these data are available

Project Job Work Element

Accomplishments, First Quarter, FY2001

ODFW 1 Work with the Steering Committee to define the term "historic" in the DEF.

Reviewed and commented on Montana's proposed definition of historic distribution.

Task2 Resident Fish and Other Aquatic Species

Acquire data sets related to resident fish species, and where specifically identified other aquatic species, from the multiple agencies, tribes and organizations within the Columbia Basin and compile and maintain them in standardized, consistent formats for the following categories:

Objective 1 Data Development Task 2 Resident Fish and Other Aquatic Species

SubTask 2.a Distribution and Life History

Document species occurrence and distribution and life history characteristics

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
IDFG	1	Add additional distribution information from references, collecting permits and stream and lake surveys for resident fish.	Continue to add collecting permit and reference information into the FIS. Will summarize these data into StreamNet formats once final FIS is operational.
MFWP	1	Complete conversion of distribution data for all fish species to measures using the routed hydrography in western Montana and eastern Montana when it becomes available. These data were collected from biologists in FY2000.	Western Montana converted to routed event data. Bull Trout and Westslope Cutthroat Trout distribution edits also updated from genetic maps and from table edits sent to biologists in 2000.
MFWP	3	Determine a schedule for updating data in the future and at what frequency data needs to be collected from field biologists, also addressing species of special concern.	Discussions with biologists determined an annual updates of survey data and distribution on as needed basis.
MFWP	4	Collect and catalog supporting references to document distribution and connect distribution to reference.	References were associated with distribution for records that were reviewed in 2000. Still need to attach data to a DJ report when possible.
MFWP	5	Explore the development of a standard field survey form to used by state and federal biologists to record occurrence be information.	Work is in progress.
MFWP	6	Continue to work with regional StreamNet staff and SC to develop/modify/add to a resident fish data exchange format if not completed in FY2000.	Draft Resident DEF reviewed by StreamNet members; received comments from StreamNet regional staff and Oregon. Resident fish DEF given a lower priority at the November Steering Committee due to workload. Decided to use current Distribution DEF and Montana will continue to modify their existing data structure to better fit the StreamNet existing DEF.
ODFW	1	Update, maintain, correct and exchange resident fish distribution information (DistUse and DistPresence tables).	Compiled both closed basin and non closed-basin Redband data into a single coverage as well as a single event table and provided the information to Regional StreamNet staff.

Region	1 Compile distribution updates (tabular events) as they arrive. Create and maintain distribution GIS coverages from these event tables and distribute these via the StreamNet web site.	Compiled ODFW distribution events of Lahontan cutthroat and updated this information to the online query system and posted as a downloadable GIS coverage. Compiled ODFW distribution events of Redband for the John Day and Oregon Closed basin areas and updated this information to the online query system.
Region	2 Assist StreamNet partners with acquisition, development, formatting and submission of data.	Added 144 White Sturgeon distribution (use) records into StreamNet database.
WDFW	1 Update and exchange statewide updated bull char distribution data at 100K resolution.	See Task 2.3.

Objective 1 Data Development Task 2 Resident Fish and Other Aquatic Species

SubTask 2.b **Adult Abundance**

Escapement, redd counts, trap counts, dam counts

Project Job Work Element

Accomplishments, First Quarter, FY2001

IDFG	1 Coordinate with IDFG personnel to determine the feasibility of incorporating resident adult abundance.	Entered available density data into collecting permit and reference module of FIS. Continued development of stream and lake survey modules of FIS, which will eventually house this type of data.
MFWP	1 Enter 2000-2001 stream fisheries survey data collected for population trends; genetics and escapement, redd counts, trap count and other counts during visits to biologists.	Completed for FWP Region 1 and portions of Region 2.
MFWP	2 Collect reference for each survey.	References were created for data collected in 2000. Still should attach these to the DJ report when they become available.
MFWP	3 Provide data in data exchange format to regional StreamNet staff.	In process, data not ready to exchange.
ODFW	1 Update existing abundance and indices trends (escapement, redd counts, trap counts, peak/other spawning counts, etc.) for resident species through 1999 and modify as needed to adhere to the 2000.2 data exchange standards. Four data submissions planned.	No work has been done to update existing resident trends. We have 37 trends coded as resident species. Of these 37, 2 are resident cutthroat, 22 are white sturgeon, 1 is bull trout, and 12 are green sturgeon. Existing data was submitted along with anadromous trends on Dec. 20th.
WDFW	1 Explore opportunities to compile, convert, and exchange portions of the Yakima Basin juvenile and adult abundance data from Ken Ham.	N/A – This job was not added back after the budget cut.

Objective 1 Data Development

Task 2 Resident Fish and Other Aquatic Species

SubTask 2.c **Angler Use**

Fishing pressure, creel census

Project Job Work Element

Accomplishments, First Quarter, FY2001

MFWP 1 Add FWP 1999 angler survey data collected by MFWP mail survey to MRIS.

Job 1 was completed.

MFWP 2 Review available creel census data on Montana's waters and determine value and availability.

No DEF or structure in MRIS to capture these data; infrequently collected and this task will be removed next year.

ODFW 1 Evaluate available creel data for appropriateness and fit into the StreamNet format.

This job was dropped due to budget cuts.

Objective 1 Data Development

Task 2 Resident Fish and Other Aquatic Species

SubTask 2.d **Hatchery Production**

Hatchery production (releases and outplants) for salmonids

Project Job Work Element

Accomplishments, First Quarter, FY2001

ODFW 1 Acquire trout release data from 1997 through 2000 (by species, location, and facility) and compile into SN exchange format.

This job was dropped due to budget cuts.

WDFW 1 Complete conversion and exchange resident fish stocking data from 1930-1981, once location coding has been standardized and verified.

Work was postponed until the Lakes layer is improved.

Objective 1 Data Development

Task 2 Resident Fish and Other Aquatic Species

SubTask 2.e **Genetics**

Areas where genetics data exists and the sources of these data

Project Job Work Element

Accomplishments, First Quarter, FY2001

MFWP 1 Update genetic spatial and tabular databases that contain the results of genetic analysis of populations of Montana's species of special concern

Updated databases with results received during the quarter.

MFWP 2 Update fish distribution table when new samples affect fields.

Work is ongoing.

MFWP	3 Exchange data.	Work is ongoing, no final DEF yet.
MFWP	4 Work with University of Montana Genetics Lab staff to develop a more efficient method of data entry/delivery.	Met with University of Montana Wild Salmon Genetics Lab staff to begin transfer of data entry duties to the Lab rather than Montana StreamNet staff. Began modifications to the edit/entry program to assist Lab staff in data entry. Added several new fields requested by the lab.

Objective 1 Data Development Task 2 Resident Fish and Other Aquatic Species

SubTask 2.f Population

Population delineation, as determined by others

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
MFWP	1	Maintain spatial delineation of bull trout populations, core and nodal habitat. Enhance layer with population risk field.	Updated bull trout distribution data; provided spatial layer and hard copy maps to existing mailing list.
MFWP	2	Finalize westslope cutthroat trout priority areas as part Westslope Cutthroat Conservation Agreement and provide to StreamNet.	Finalized in the 1st quarter. Will exchange with StreamNet in 2nd quarter.

Objective 1 Data Development Task 2 Resident Fish and Other Aquatic Species

SubTask 2.g Historic Range

As available at the watershed-level

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
MFWP	1	Complete the review of the historic distribution of Montana's native species developed by The Nature Conservancy.	Reviewed database provided by The Nature Conservancy; met with Fish Historian and reviewed maps of each species; maps included TNC data, MRIS current distribution and data from a review of historic documents that occurred in the early 1990's. Made modifications to layer based on this review and then further refined the layer by documenting MRIS current distribution through a literature search of documents in the FWP Fisheries Library.
MFWP	2	Coordinate the development of a Data Exchange Format for StreamNet by working with a Steering Committee subcommittee.	Coordinated the development of a definition of "Native Range" through the Steering Committee. Will finalize next quarter.

Objective 1 Data Development

Task 2 Resident Fish and Other Aquatic Species

SubTask 2.h Status

Population stability index

Project Job Work Element

Accomplishments, First Quarter, FY2001

All

No work specific to this subtask was undertaken this quarter.

Objective 1 Data Development

Task3 Habitat

Acquire data sets related to fish habitat from the multiple agencies, tribes and organizations within the Columbia Basin and compile and maintain them in standardized, consistent formats for the following categories:

Objective 1 Data Development

Task 3 Habitat

SubTask 3.a Stream / Watershed Habitat

Incorporate applicable stream and watershed level habitat and stream survey data, as these become available

Project Job Work Element

Accomplishments, First Quarter, FY2001

MFWP	1 Develop a statewide stream survey form based on information provided by Montana state and federal fisheries biologists in FY2000.	Work is ongoing
MFWP	2 Work with regional StreamNet staff on data exchange format, if sufficient interest and/or data.	Work is ongoing
Region	1 Work with Steering Committee to decide whether a format for Aquatic Inventory Project data should be developed and incorporated into the StreamNet database.	Georeferenced ODFW Aquatic Inventory Project reach-based habitat stream survey data to the 1:100,000 scale LLID hydrography (primary step in incorporating this information into the StreamNet database)
SBT	1 Update data collected by the SBT to IDFG GPM data coordinator.	No data updates were scheduled in the first quarter.

SubTask 3.b Water Quality

Incorporate existing Clean Water Act 303(d) data and other water quality data as applicable

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
MFWP	1	Integrate 303(d) (TMDL) data into the sub-basin planning effort if opportunity arises during the fiscal year.	TMDL data for Montana is available on line; could be queried for sub-basin planning. Web application: http://nris.state.mt.us/scripts/esrimap.dll?name=TMDL&Cmd=INST Interactive Mapper http://nris.state.mt.us/mapper/
MFWP	2	Link the Army Corps of Engineer stream permitting database to MRIS	Available at the NRIS website either as a stand alone application or as integrated with the MRIS data through the Interactive Mapper. http://nris.state.mt.us/mapper/Corp404/CorpMain.asp http://nris.state.mt.us/mapper/
Region	1	Complete development of the 303d event table as soon as data is available from WA Dept. of Ecology	Completed this task. Georeferenced the Washington 303(d) information to the 1:100,000 scale LLID hydrography and posted event tables to the StreamNet web site.
Region	2	Maintain GIS water quality data event tables from the 303(d) data on the StreamNet web site.	Updated Oregon 303(d) data and posted to StreamNet web site per consultation with EPA.
Region	3	Incorporate the stream nutrient and temperature data into the StreamNet query system and make available via the web site.	Developed data structure for stream nutrient data compiled by PSMFC. Expanded structure to incorporate other types of water quality data. Submitted PSMFC/EPA nutrient data set to the database manager for inclusion with the StreamNet database. Moved Payette National Forest and Wallowa-Whitman National Forest water temperature data into StreamNet format. Moved all water temperature data that had been collected into a single database. Provided references for these data sets. Determined elevation and ecoregion for all water temperature sampling locations.

Objective 1 Data Development

Task 3 Habitat

SubTask 3.c **Miscellaneous Habitat Data**

Project Job Work Element

Accomplishments, First Quarter, FY2001

MFWP 1 Meet with Montana GIS community concerning the Montana GAP data to determine layer usability particularly in riparian and wetland areas.

Organized two meetings to discuss the Montana GAP Land Cover Type spatial layer with other members of the GIS community. Creation of data layer was explained and participants provided feedback concerning the value of the layer in various analysis. Weaknesses in the layer included riparian/wetland, sagebrush, prairie types. Meeting concluded with assignments for participants to report in next quarter.

ODFW 1 Update key stream management area designations for OR including FEMAT key watersheds, AFS aquatic diversity areas, ODFW coho source river reaches, ODSL essential salmon habitat and Priority Areas.

This job was dropped due to budget cuts.

Objective 1 Data Development

Task4 Facilities

Acquire data sets related to fishery-related facilities and structures from the multiple agencies, tribes and organizations within the Columbia Basin and compile and maintain them in standardized, consistent formats for the following categories:

Objective 1 Data Development

Task 4 Facilities

SubTask 4.a **Dams and Fish Passage Facilities**

Enhance the existing StreamNet dams data set by updating relevant data from the Pacific Northwest Hydropower Database and Analysis System (NWHS) and the National Inventory of Dams

Project Job Work Element

Accomplishments, First Quarter, FY2001

IDFG 1 Incorporate enhanced dams data into StreamNet.

Migrated and performed some initial clean up of enhanced dams database into the FIS.

MFWP 1 Combine the StreamNet dams dataset with dams named in the GNIS and the National Inventory of Dams, and exchange Montana's data.

These duties were turned over to Jeff Hutten; progress next quarter.

ODFW	1 Update, maintain, correct and exchange dam information (as part of the Barrier database).	Updated the dam table with LLID data provided by regional StreamNet staff. Added four, new dam records to the database. Updated the allstr (HUCxLLID) and LLID tables in the database.
WDFW	1 Review, update, and exchange any new Washington state dams information.	Sikora and O'Connor merged all records and fields from two dam data sources (DOE dams and a dam file from StreamNet-David Graves) into one file, based on a common damid . David will use this file to augment the dams represented in SN and investigate unexplainable differences.

Objective 1 Data Development Task 4 Facilities

SubTask 4.b Hatchery Facilities

Update and maintain a dataset on anadromous and resident hatchery facilities containing information on location, design, management and authorization

<u>Project</u>	<u>Job</u> <u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
FWS	1 Update hatchery facility records as needed	updated hatchery facility database
IDFG	1 Incorporate supporting hatchery structures, such as weirs and traps, into StreamNet.	Migrated and performed initial clean up of hatchery facilities data into new FIS structure. Compiled information for fish traps that we didn't already have. Included trapping sites for Idaho Supplementation Studies.
ODFW	1 Locate at least one public domain photo of each hatchery in Oregon and provide to PSMFC.	No effort made this quarter. Due to budget cuts, there are no plans to submit new photos to StreamNet this year, however we will continue ongoing efforts to acquire new photos.
ODFW	2 Review and update Oregon hatchery facilities data and submit to PSMFC.	Worked with WDFW staff on hatchery facility DEF issues. Contacted numerous hatchery facilities via email or hardcopy letter requesting updated information.
Region	1 Maintain spatial aspect of hatcheries table including location of hatcheries and GIS data. Assist states in tying hatcheries to LLID-based stream locations when requested.	1) An old hatchery facilities data set was found which dated back to the Coordinated Information System project. This data set was archived for future inspection and possible information retrieval. 2) Added USFWS hatchery and hatchery water supply records to database. 3) Added WDFW hatchery records to database.

from the Steering Committee

WDFW 3 Complete, convert, and exchange tabular and spatial data tables of Washington state hatchery facilities, including federal and tribal stations.

exchange format for hatcheries with better georeferencing of hatchery locations.

1) O'Connor reviewed hatchery facilities draft data exchange format authored by Sikora and led a Steering Committee e-mail discussion of DEF updates, including assignment of technical leads, roles of Regional staff, and what sort of "consensus" model is needed to make effective changes.
2) Sikora corrected the hatchery facilities spatial layer to match information stored in the tabular layer.

Objective 1 Data Development

Task 4 Facilities

Task 4.c Diversion/screening

Develop a data set for water diversions and screening

Project Job Work Element

MFWP 1 Review regional data exchange format.

Accomplishments, First Quarter, FY2001

No DEF created; recommend that a DEF is not necessary since these data are usually not maintained by the State Fish and Wildlife agencies. NRIS received contract with Montana Department of Natural Resources and Conservation to develop a spatial layer of the water diversions for the state and web enable it.

ODFW 1 Develop a database structure and compile Oregon's fish screening data and submit a draft data exchange format to SC for review and adoption.

Began development of a database structure for ODFW's fish screening and passage data.

ODFW 2 Identify fish screening data that is appropriate for the StreamNet site and submit test records once an exchange format has been adopted.

This task was dropped due to budget cuts.

Objective 1 Data Development

Task5 Habitat Restoration/Improvement Projects

Acquire data sets related to habitat restoration / improvement projects from the multiple agencies, tribes and organizations within the Columbia Basin and compile and maintain them in standardized, consistent formats for the following categories:

Objective 1 Data Development

Task 5 Habitat Restoration/Improvement Projects

Task 5.a Fish and Wildlife Program Projects

Prepare and maintain standardized data relating to tracking aquatic management and restoration projects related to the Fish and Wildlife Program

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
MFWP	1	Data will be updated for FWP Projects during FY-01; the spatial data layer of project location will be updated.	In progress; conversion program from Montana's structure to the StreamNet DEF also in progress.
Region	3	Assist StreamNet partners with acquisition, development, formatting and submission of data.	Processed IDFG habitat/restoration project information. Determined locations, where possible, and updated to the StreamNet database.
WDFW	1	Follow-up from FY2000 habitat restoration project compilation	<ol style="list-style-type: none">1) Lensegrav scoped Columbia Basin Fish & Wildlife Authority habitat restoration files and updated Habrest.doc accordingly.2) Lensegrav created a database (Habrest-Internetguide.mdb) to help users understand which websites actually had Habitat Restoration Projects data to download versus mere discussion.3) Lensegrav re-created & re-designed the report in an Access 97 version of the Habrest-Internetguide.mdb. He had to recreate the report because database objects (like reports) won't carry through when converting from Access2000 to Access97.4) Sikora and Lensegrav re-designed the prototype Internet Web Guide and sent it to Stan Allen for consideration.

Task 5.b Other Projects

Prepare and maintain standardized data relating to tracking aquatic management and restoration projects other than related to the Fish and Wildlife Program

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
IDFG	1	Compile additional information from non-FWP restoration projects into StreamNet.	Proofed and uploaded BLM NEPA logs. Continued to coordinate with Forest Service to develop a database for their Schedule of Proposed Activities (SOPA) data similar to the StreamNet restoration projects database. Downloaded newest version of the MitProjects GUI. Had to troubleshoot bugs.
MFWP	1	Update Montana's Fish and Wildlife habitat restoration projects into StreamNet's Restoration and Mitigation database and submit in data exchange format.	In progress; conversion program from Montana's structure to the StreamNet DEF also is in progress.
ODFW	2	Design and develop a database to capture carcass placement data for Columbia Basin activities.	1) Conducted a literature search to compile information on the carcass placement program and past efforts, and became familiar with previous database development efforts. 2) Conducted an informal meeting with ODFW staff involved in carcass placement efforts - illustrated the capacities of Access and obtained direction for the creation of the Carcass Placement Database.
ODFW	3	Provide technical assistance to GWEB and StreamNet staff as needed to make compilation of ODFW habitat restoration / improvement projects in the Columbia basin more efficient.	1) Researched a Total Costs error and a County error that were found in the online restoration data. More than one participant is listed under one dollar amount. The problem is how to allocate those contributed dollars per participant.) Sent Sussanne Maleki a list of participant records for her to review. Sussanne will let us know how the cash/in-kind values should be distributed among the participants, and we will submit an update to StreamNet containing the correct values. 2) Worked with OWEB staff regarding some restoration data Suggestions / questions they had.

Objective 1 Data Development

Task6 Sub-basin Planning

Develop consistent data sets and information that are particularly suitable and useful for regional sub-basin planning and make them readily available for Planners

Objective 1 Data Development

Task 6 Sub-basin Planning

SubTask 6.a Provide data for Sub-basin Planning

Organize and distribute the available fish, wildlife and habitat data in a standardized format for use in Sub-basin Planning or other regional planning efforts

Project Job Work Element

Accomplishments, First Quarter, FY2001

IDFG 1 Coordinate with sub-basin planning efforts to supply data.

Had several meeting with IDFG staff to discuss upcoming Subbasin Summaries for the upcoming Clearwater and Salmon subbasins. Agreed that StreamNet will be major data source for IDFG staff and may conduct some GIS work.

ODFW 1 Participate in discussions concerning data needs to support sub-basin planning or other processes adopted by the amended Fish & Wildlife Program. Modify data plan and priorities as needed to be responsive.

Attended the Columbia Plateau Subbasin Planning Rolling Provincial Review meeting in Pendleton.

ODFW 2 Provide consultation services and assistance to ODFW data managers to assist them in meeting Subbasin Planning needs.

1) Created 5 map images of the John Day basin for Jason Seals and Tim Unterwegner. They plan to use the maps in their Subbasin Summary write up for BPA projects.
2) Processed paperwork to hire a temporary employee to work on Columbia Plateau subbasin assessment mapping.

Region 1 Meet with sub-basin planners to discuss data types that may be needed, data sources, and to plan integration methods of the various data sets. Assist planners acquire needed fisheries data.

The Project Manager met various times with NWPPC staff, NWPPC contractors, and with NMFS staff. Discussed data needs, current data availability within existing StreamNet data sets, and approaches for determining data availability in agency offices. Began development of a plan to initiate a project for the Willamette and Lower Columbia Technical Review Team to locate existing data in ODFW and other agency office files, obtain the most available priority data, and determine the availability of other data and the amount of effort that would be required to obtain it.

Region	2 Provide available tabular data described under tasks 1.1 through 1.5 to entities conducting sub-basin planning.	We attended the first meeting for Columbia Plateau Provincial Review and presented a summary of fisheries data available through the StreamNet web site. Following this meeting it became apparent that many planners are not familiar with querying a large database and are more familiar with spreadsheets. We then developed a plan to organize all existing StreamNet fisheries data types by subbasin within the provinces up for rolling review and provide the data, pre sorted, on Excel spreadsheets. We began developing data summaries for subbasins in the Columbia Plateau province.
Region	3 Provide StreamNet GIS coverages or other data (on request) to the entities conducting sub-basin planning. Assist subbasin planners with use of this data as needed.	<ol style="list-style-type: none"> 1) Worked on developing comprehensive packages of StreamNet GIS data and maps for the Columbia Plateau subbasin (work is continuing). 2) The 1990 Subbasin Planning documents were reviewed to determine the types of data and information which StreamNet could provide for the 2001 subbasin planning effort. Began efforts to create packages of data from the StreamNet database that may be of interest to the subbasin planners. 3) Developed a visual basic application to overlay two sets of stream-based data to determine areas where they overlap. This was done in order to create derived GIS data sets which show stream segments where fish distribution occur and the stream is listed for a Clean Water Act 303(d) water quality impairment for subbasin planning packages. 4) Regional staff coordinated with staff from NWPPC and BPA to determine the best approach for creating subbasin boundary maps.
SBT	1 Assist StreamNet cooperators with data needs as they are developed by Fish and Wildlife Program managers from sub-basin planning activities	No specific data were requested from the Shoshone-Bannock Tribes for sub-basin planning.

SubTask 6.b Capture information from Sub-basin Planning

Acquire information developed during subbasin planning to update anadromous fish, resident fish, and wildlife data sets

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
CRITFC	1	Develop applications and procedures to update watershed assessment data during subbasin planning	No work this quarter. Regional discussions on final subbasin assessment guidelines and tools are proceeding slowly. Last fiscal year we summarized watershed data from the last round of subbasin planning. See also reports for Objective 3 under which we are providing electronic copies of existing subbasin plans for 31 anadromous-accessible subbasins.
IDFG	1	Coordinate with sub-basin planning efforts to capture outputs.	As part of our coordination in subbasin planning efforts, we will be closely integrated with products from the subbasin summaries. Exact data capture will have to wait for an evaluation of products.
MFWP	1	Collaborate with regional staff and Montana CBFWA representative when data become available	No data developed by planning process so far to capture.
ODFW	1	Evaluate Subbasin Summaries and other Subbasin Planning related documents related to Oregon, identify data which are not contained in StreamNet and adjust staff work plans to capture new data if appropriate and applicable.	This task was dropped due to budget cuts.
WDFW	1	Provide data compilation, conversion, and analytical services in support of the subbasin assessment process, the NMFS Viable Salmon Populations model, and related NWPPC needs.	N/A – This was not added back from budget cut until Quarter 3.

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

Objective 2 Data Management and Delivery

Task 1. Database Management

Maintain functional database programs at the state and regional levels to make consistent data sets for anadromous fish, resident fish and to a lesser extent wildlife available through the StreamNet online database system. At both the regional and state levels, provide database management and administration necessary for accomplishing StreamNet objectives, to include: 1. maintaining regional and state-level StreamNet data sets, 2) processing exchange data into the regional database, 3) transporting data to the SQL environment, 4) enhancing StreamNet database structures and capabilities, and, 5) providing programming services to project participants to allow for efficient data entry and transfer.

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
IDFG	1	After beta testing, implement Fish Information System in IDFG StreamNet and IDFG Fishery Bureau	Continued massive development work on Fisheries Information System. With the finalization of our hydrography, we inserted it into the FIS. We migrated our existing Collecting Permit and Reference modules to the finalized hydrography subsystem. We conducted database design coordination with Fisheries Bureau for adding new information into the FIS. Conducted data migration and clean up of various StreamNet datasets to the final hydrography and FIS, including: dams, hatchery facilities, redd counts, and carcass counts.
IDFG	2	Continue development and improvement to Fish Info. System.	See work component 1. These are basically the same tasks.
MFWP	1	Provide state-level data management services, emphasizing coordination with StreamNet regional staff, MFWP and other state and federal natural resource agencies and encourage the use of consistent data attributes and data sets among all agencies.	Attended various meetings for coordination purposes.
MFWP	2	Provide high quality data management services with specific emphasis on creation of regionally consistent data sets and the timely delivery of data to users in formats that meet their policy, planning, and management needs.	Ongoing
MFWP	3	Update existing data sets (Task 1) and provide data to the regional StreamNet office in DEF. Provide data as sub-sets are updated rather than waiting for entire data to be complete.	Updated MRIS Access database considerably to better deal with route event editing and meet StreamNet DEF.

ODFW	1 Provide state-level StreamNet database management / administration / development. Enhance StreamNet and ODFW database structures, interfaces, tools, and capabilities as needed.	<p>1) Enhanced the Riparian Lands Tax Incentive Program database by adding custom reports and queries.</p> <p>2) Enhanced the MapCat (ODFW Image) database by improving the user interface and making the database replicable.</p> <p>3) Enhanced the barrier database by creating a user interface for the barrier, dam and reference tables, and making the database replicable.</p> <p>4) Worked with Regional Staff to correct errors in the various Trend Interface versions. Obtained and installed the updated Trend UI-3-b4 - fewer problems have been encountered.</p> <p>5) Created a data entry form to assist data entry personnel in linking harvest areas with stream identifiers (LLID) - the goal is to help develop a general database of fish species by harvest area.</p>
ODFW	2 Develop custom GIS products and database structures that help improve data management and transfer with ODFW staff.	Ongoing maintenance and processing efforts made this quarter.
Region	1 Maintain and manage the StreamNet database so information / data are available internally to project participants and externally via Internet.	<p>1) Changes to the StreamNet database structure continued throughout this project quarter to completely implement the new LLID georeferencing system, improve functionality with the web based query system and maintain consistency with data exchange formats.</p> <p>2) Computer files on floppy disk were found which contain information from previous years and may not be included in StreamNet today. These include the Distributed System produced by the CIS project, disks from the Oregon Rivers Information System, and other groups of floppy disks. These files were all copied onto the StreamNet server in order to prevent loss of this information. No explicit plans have yet been made for examining these files, but they will be evaluated at some point in the future and any useful data will be incorporated into StreamNet.</p>
Region	2 Add data submitted to the StreamNet regional office into the SN database within ~30 days of receipt from the project partners.	Loaded the following data sets into the StreamNet database: Added 66 and updated 501 Barriers records in Oregon; Added 580 and updated 2604 FishBarriers records in Oregon; Updated 229 ODFW Trends for the Columbia River Basin through year 1999; Added 125 Habitat Restoration Project trends from Oregon Conservation Reserve Enhancement Program project documentation; Added 232 Adult return records from ODFW; Added 36 Hatchery Facility records from ODFW; Added six new water quality tables, including 384 WQ Stream Sites, 199 WQ Lake Sites, 143,126 WQ Stream Data records and 54,498 WQ Lake Data records; and Added 59 and updated 198 Dam records from ODFW.

Region	3 Assist data-providing agencies with error checking of data sets.	<p>Received data error reports from users and StreamNet partner agencies. Regional staff investigated these and other errors, determined likely causes and solutions, and forwarded this information to the appropriate StreamNet employee (from any of the participating agencies). Where appropriate and agreed to by the partner agencies, errors were fixed in the StreamNet database on an as-found basis. Examples of errors found this quarter:</p> <ol style="list-style-type: none"> 1) Missing records in the "Count" tables (EscData, HatchRelData, etc.). 2) Inappropriate null fields in the Count tables. 3) Inconsistencies between the Barrier and FishBarrier tables. 4) Truncated LLIDs in the Dam table. 5) Missing LLID in the Barrier table.
Region	4 Coordinate database compilation between agencies, helping to ensure that data submitted are usable, scientifically sound, and consistent.	<ol style="list-style-type: none"> 1) Regional staff managed creation of new lookup codes in a number of tables, ensuring that duplication, ambiguities, and errors were minimized. (Barrier types; species; others) 2) Regional staff reviewed the data types of all fields in all tables in the database. The most appropriate and efficient data type for each field was determined, and inconsistencies in data types between tables for the same field were eliminated. 3) Regional staff reviewed the images contained in the "Map Catalog" to determine which were obsolete. Obsolete images were archived, then deleted from the database. 4) In conjunction with addressing problems encountered by ODFW with the Trend User Interface, regional staff examined ODFW's tables to determine if they were consistent with the regional database structure. Discrepancies were found, and PSMFC and ODFW worked to determine the most appropriate solutions in order to make the trend interface function. 5) StreamNet staff met with the GIS program at BPA to discuss mutual activities and to assure effective working relationships without duplicating efforts. 6) Spoke with Frank Young regarding the information contained in the CBFWA fish screening database to avoid duplication of effort.

Region	5 Update the database structure as new data categories are added or categories are changed.	<p>1) Migration barriers: An uncertainty arose concerning when it is appropriate to add a record to the FishBarrier table. Regional staff reviewed an ODFW/MFWP proposal for addressing this issue, and proposed a solution to the Steering Committee. This solution was agreed to at the fall 2000 steering committee meeting.</p> <p>2) Regional staff reviewed proposals for database structures for modifying the distribution and use type categories. Also reviewed their proposals for new Genetics and population estimates data categories.</p> <p>3) The Regional GIS Specialist worked on a team with WDFW, IDFG, and ODFW personnel to update the structure of the Hatchery facilities tables. Other personnel in PSMFC and the other StreamNet agencies reviewed the proposal.</p>
Region	7 Document all additions/changes to data structure, exchange formats, interface tools, etc.	Changes to the Data Exchange Format that were approved by the steering committee were incorporated into the draft of the next version on an on-going basis. When finalized, these tracked changes will be recorded into the database of official modifications to the document.
Region	8 .Develop metadata for all spatial data sets posted to the SN GIS web page.	Developed metadata for the Lahontan cutthroat distribution and water quality GIS layers. Converted all current distribution metadata to an FGDC format for better utility and to comply with federal metadata standards.
Region	10 Provide programming services to project participants to assist with efficient data entry and data transfer	<p>1) Regional staff assisted ODFW with difficulties they encountered while using the Trend User Interface. The problems were cataloged, and several modifications were made to the interface by regional staff to address errors found. It was found that the problems related to using the interface in ways slightly different than it was intended for. This is a larger issue that was not possible to correct without replacing the interface entirely; possible solutions were discussed with ODFW. Other modifications were too complex for the Regional Fisheries Biologist to perform, and he obtained the assistance of Hilary Forrest of the CRITFC StreamNet project to address some problems.</p> <p>2) At the request of WDFW, the Regional Fisheries Biologist reviewed the current error checking routines of the Trend User Interface tool and sent a report to the Steering Committee. It was found that the error checking was only for basic database integrity/rules checking, and would not find other types of obvious errors. The interface checked the data to ensure key fields, required fields, etc. were correct, but did no checking for any other types of errors.</p>

Region 13 Ensure georeferencing of data is accurate and complete.

- 1) Reviewed errors found via the query system and, where the error was due to georeferencing, corrected this in the database.
- 2) Regional staff met with WDFW staff to discuss georeferencing of ocean harvest data. Previously, these data were tied to regions of the ocean, and querying some of the information was problematic. The new system will more accurately reflect the true nature of the data, as the data will be tied to where fish were landed rather than caught. The appropriate way to query these data was also discussed (by state and county; not by subbasin or HUC), and the decision provided to the regional GIS specialist for implementation.

WDFW 1 Washington state data maintenance and exchange support services, including updated exchange format system, support for MS Access 97, and support for new data categories and fields.

- 1) Woodard started submitting his data to Sikora in a flat file to accommodate the DEF changes and data tracking issues. Woodard spent two weeks and developed a new internal hatchery returns database in December to accommodate StreamNet's DEF better. This new returns database is separate and runs independent of the escapement and harvest database due to size and complexity. Woodard also sketched out a design for the WDFW escapement database but it won't be redesigned until the 60K trend issue with the StreamNet database has been resolved after January 2001.
- 2) In the Oct2000 returns exchange, Sikora exchanged a file identifying all the 60,000 range of Hatchery Return trends that StreamNet should delete or discuss with the USFWS. WDFW asked that a similar file be stored in the shared StreamNet database until all 60K trend series are deleted or adopted by the relevant agency.
- 3) Sikora outlined two tools we need related to memo structured fields; Brown created the "Table Compare" tool and provided it for testing.
- 4) Sikora asked Mike Banach to clarify some facts in the DEF and to add definitions for all fields existing in the database Reference table in anticipation of future discussions about the Reference table.
- 5) Sikora researched issues with the Lewis River basin steelhead data to respond to a user's issues. This revealed compiling & formatting consistencies for any data that relates some count\mile TypeID.
- 6) Sikora revised the initial hatchery DEF proposal to capture the suggestions of the GIS Team and presented the new ideas in the Oct 6 Conference Call.
- 7) Sikora, Cedric Cooney, Bart Butterfield and David Graves held their own conference call after the Steering Committee had minor issues with the Hat-format3proposal in the Nov 7 SC meeting.

WDFW 2 Update existing data sets as described in Task 1 and provide data to the regional StreamNet office in Data Exchange Format (DEF). Provide data as subsets are updated, rather than waiting for entire data to be complete.

Sikora sent hatchery returns data in StreamNet exchange format as file wdfw-returns-23oct2000.mdb2) Sikora re-exchanged returns in wdfw-oct2000returns-corrected13dec2000.mdb to correct the EndFt entries.

Objective 2 Data Management and Delivery

Task2. Data Plan

Update and maintain a project data plan that identifies 1) current data holdings at the regional level, 2) data items to be incorporated in the current contract period and in future years, and 3) expectations for data development and delivery from participating organizations within the current contract period

Project Job Work Element

Accomplishments, First Quarter, FY2001

CRITFC 1 Provide input to the data plan to keep it responsive to subbasin planning and Framework needs and schedules.

Kept Steering Committee apprised of regional discussions, issues and developments concerning provincial reviews and subbasin planning. While discussions are sometimes intense, regional consensus on an approach to subbasin planning is slow to achieve.

IDFG 1 Work jointly with other participants to modify elements of data plan or priorities based on needs arising out of sub-basin planning or other processes that drive Basin data needs through the amended Fish & Wildlife Program.

Discussed data needs and plans at Steering Committee meeting.

ODFW 1 Work jointly with other participants to modify elements of data plan or priorities based on needs arising out of sub-basin planning or other processes that drive Basin data needs through the amended Fish & Wildlife Program.

Due to budget cuts, work plans will not be modified for subbasin planning efforts unless specifically instructed to do so by ODFW management. No efforts were made this quarter.

Task 3. Data Exchange Standards

Establish and maintain data exchange standards that ensure consistent format and content of data that originated from the multiple agencies and data sources in the basin. Included will be proposed and adopted data exchange formats, metadata and location look-up tables for specific data items as described under Objective 1. At the regional level, this task will provide technical assistance regarding standard codes and exchange formats for Fish and Wildlife Program and ESA- related projects, and for applicable tribal data compilation activities. At the state level, this task will provide similar technical assistance for state agency data activities applicable to StreamNet.

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
CRITFC	1	Participate in the design, development and maintenance of standard codes and data exchange formats. This will occur through involvement on the Steering Committee and technical work groups.	Reviewed DEF issues as they were presented to the Steering Committee.
IDFG	1	Participate in the design, development and maintenance of standard codes and data exchange formats. This will occur through involvement on the Steering Committee and technical work groups. There is no set schedule for this task, because it is highly dependent on issues facing the Steering Committee. Potential new data exchange standards may include juvenile abundance, genetics, stream habitat, stream temperature and resident fish releases.	Provided review, input and approval of new data exchange formats.
MFWP	1	MFWP StreamNet will participate in the design, development and maintenance of standard codes and data exchange formats through involvement on the Steering Committee and technical work groups.	Reviewed Historic Distribution, Hatchery Facility, Barriers.
ODFW	1	Participate in the design, development and maintenance of standard codes and data exchange formats. This will occur through involvement on the Steering Committee and technical work groups. There is no set schedule for this task, because it is highly dependent on issues facing the Steering Committee. Potential new data exchange standards may include juvenile abundance, genetics, stream habitat, stream temperature and resident fish releases.	1) Provided information regarding the MapDate field in the MapCat table to regional staff members, and provided feedback on ODFW's ability to populate this "required" field. 2) Contacted regional StreamNet staff regarding adding new species to the StreamNet "Specie" table. 3) Participated in one technical issues conference call with other StreamNet participants and regional staff.

Region	1 Work with the project database managers to identify needed modifications to the Data Exchange Format (DEF) to accommodate changing data needs	No major modifications were made during the quarter to the data exchange format. Some minor modifications were made as needed to the draft data exchange format. Other than for codes added, which are adopted immediately, these minor changes will be officially approved and adopted with the next version of the data exchange format.
Region	4 Lead or work with partners to develop data exchange formats for new data categories, including: population delineation (anadromous and resident); carcass placement; resident fish hatchery releases; juvenile abundance; stream habitat. As time permits and need dictates, data exchange formats may also be created for macroinvertebrate samples, and water quality parameters.	1) Reviewed MFWP's proposal for incorporating resident fishes data into the distribution/use/genetics tables of StreamNet. 2) Reviewed MFWP's proposed definition of "Native Range" and offered changes.
WDFW	2 Analyze Hatchery Returns exchange format and explore whether a second table (covering Spawning and Disposition data fields) is needed to more accurately meet the needs of the Artificial Production Committee.	Sikora reviewed O'Connor's new format proposals for Hatchery Returns and all data types related to StreamNet's EscData table. She commented on the specific EscData proposal but Bob will be the lead on the WDFW feedback for both these proposals.
WDFW	4 Move toward complete adoption of LLIDs as the standard stream referencing code by reviewing and completing the RRN-to-LLID conversion, addressing supercode issues, and assuring that LLIDs are assigned to all locations where StreamNet data exist.	1) O'Connor summarized marine catch area Water Body ID assignments for Sikora and reviewed previously-assigned marine area "supercodes" to ensure coverage of the areas needed by this new (GIS-based) approach. 2) Based on the WRIA & Streamid portion of the PSC codes, Lensegrav used the WRIA stream maps to proof (& correct) a portion of Bob's LLID assignments for the escapement1 data. When he finished proofing & correcting LLID assignments for escapement locations (using gil-proofesc1.db and gilproofesc2.db), he revisited earlier release location assignments. 3) To exchange Begft and Endft in returns data, Sikora generated the sum of the length for each LLID in the st100.db file (a subset file prepared from state100.dbf [the tabular data dump from WDFW's hydro layer]).
WDFW	5 Provide metadata for tabular and spatial datasets according to guidelines adopted by the Steering Committee.	Sikora submitted the relevant metaform.doc with the Oct 2000 returns data exchange and re-exchange in Dec 2000.
WDFW	6 Construct a new data compilation and conversion system to provide data in MS Access according to the most recently adopted exchange format version. Begin exchanging data in MS Access form by winter, 2001.	See Obj 2 Task 1 Comp 1 for details.

Task 4. GIS Data System

Establish and implement procedures for coordination of StreamNet-related spatial data activities among participating organizations, to include regular meetings and or other communication links among participating GIS specialists. Designate and maintain metadata format for spatial data to be used by StreamNet participants. Prepare map products in hardcopy and/or electronic format for use in Program-related aquatic resource policy, planning, and management. Provide for distribution of spatial data in GIS and tabular format and as GIS products.

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
IDFG	1	Maintain and enhance a geographic information system (GIS) related to regional and state-level StreamNet goals and objectives.	Conducted search and interviews for new GIS Analyst. Hired someone that will be paid primarily on other projects, but will be able to contribute to StreamNet GIS needs. Developed an ArcView application for information requests for fish distribution based on location.
IDFG	2	Prepare data and map products from StreamNet data on request	No new maps this quarter.
MFWP	1	Maintain a state level GIS program (state and StreamNet funded)	Completed the conversion from Unix to NT for the Kalispell office of StreamNet. Funded completed by the State. Two surplus Unix boxes as a result, purchased with state funds.
MFWP	2	Prepare map products in hardcopy and/or electronic format for use in Program-related aquatic resource policy, planning, and management.	Filled 12 Fisheries related GIS map and data requests during the quarter.
ODFW	1	Participate in planning and coordination meetings for state-level 24k hydrography layer to ensure compatibility with the StreamNet's adopted hydrography.	Attended one Oregon Plan monitoring team meeting and received an update on the current 24K hydrography development efforts. No compatibility issues were raised.
ODFW	2	Maintain and enhance a geographic information system (GIS) related to regional StreamNet goals and objectives (general maintenance, metadata development and maintenance, planning and coordination activities, etc.).	Developed metadata for non-closed basin Redband distribution data and provided to Regional StreamNet staff. Made efforts to improve the spatial accuracy of the facilities GIS data.
ODFW	3	Prepare spatial data and map products in hardcopy and/or electronic format for use in Program-related aquatic resource policy, planning, and management.	Created map layouts in ArcView of dams and barriers in the Hood River, Deschutes, John Day, Umatilla, Walla Walla, and Imnaha watersheds for use in ODFW planning and management meetings. Filled a request for large size winter steelhead maps from Multnomah and Clackamas county vector control districts. (Sandy, Lower and Middle Willamette, Clackamas and Molalla).

Region	1 Maintain and enhance a geographic information system (GIS) related to regional StreamNet goals and objectives.	<p>1) Upgraded the regional GIS software to Arc/Info 8.02.</p> <p>2) Researched alternative GIS software packages and reported finding to the StreamNet steering committee.</p> <p>3) Received a single-layer 30-meter DEM (digital elevation map) from Oregon Department of Environmental Quality. This layer permits easy determination of elevations throughout the state, which will be important for some data categories such as water temperatures and macroinvertebrates, should they become incorporated into the StreamNet database. Single-layer DEMs for Montana, Idaho, and Washington were also searched for, but the only product found cost approximately \$10,000 for the region. This product could become useful depending upon the types of data categories added to StreamNet in the future, but at this time there is no need or plan to acquire it.</p>
Region	2 Prepare GIS data and map products from StreamNet data.	<p>Prepared GIS data and map products from StreamNet data, as needed. Responded to all requests from the public and prepared GIS data, maps, and other products for 30 public requests. Requests were from a variety of sources including private citizens, environmental consulting firms, government agencies, educators, and students. Prepared more detailed map products for requests from the NWPPC and associates for use in reports, etc. Examples included a base map of the Palouse subbasin and summary maps of habitat restoration projects in Oregon.</p>
Region	3 Integrate the functioning of the GIS system with the StreamNet fisheries and habitat database, in support of the query system. Create cross tables and queryable maps used via the StreamNet web interface.	<p>1) Upgraded cross tables and tributary information to the query system.</p> <p>2) Performed a review of all old maps and eliminated outdated ones.</p>
Region	4 Direct users to other GIS resources when requests exceed SN capability	<p>Directed users to other GIS resources when requests exceeded SN capability.</p>
WDFW	1 Create approved reference documents for all exchanged spatial data sets.	<p>Didn't add this back from budget cut until Quarter 3, but see Obj 3 Task 1 Comp 1. (See also Task 2.3, work component 5)</p>

Objective 2 Data Management and Delivery

Task 5 StreamNet Internet Site

Continue to maintain and enhance the existing client-server system to provide access to StreamNet data products through the Internet. The StreamNet home page will continue to be recognized as the project's primary data delivery vehicle. Priority will be given to incorporating data developed through Objective 1 and providing access to reference materials secured through Objective 3. Appropriate training on the use of the system will be provided through a combination of on-line help and in-person training sessions.

Objective 2 Data Management and Delivery Task 5 StreamNet Internet Site

Task 5.a Maintain the StreamNet Client Server system

Project Job Work Element

Region 1 Maintain, upgrade as needed, and administer the StreamNet web servers

Accomplishments, First Quarter, FY2001

1) Work involved monitoring and evaluation of server status, investigation of errors logged by the web based query system and reported by users, as well as troubleshooting installation configuration settings for optimal performance, on-line status and security.
2) Provided recommendations on components and costs for replacement of the database server due to the failed hard drive in the RAID system.

Objective 2 Data Management and Delivery Task 5 StreamNet Internet Site

Task 5.b Enhance and improve the StreamNet website

Maintain and enhance components of the StreamNet home page and incorporate new features that complement existing components

Project Work Element

CRITFC 1 Work with subbasin planners to identify modifications and new uses which will make the website more useful to them

Accomplishments, First Quarter, FY2001

Met with Drew Parkin to determine the information needs of the NPPC's subbasin planning efforts. Laurie Nock and Lenora Oftedahl reviewed bibliographies and began target lists of materials to be digitized. We also jointly determined the order that the 1990 subbasin plans would be scanned and turned into PDF files.

CRITFC 2 Identify changes and new features which will improve delivery of Library services

1) Identified the need for the library to have a separate web page that can list all the services provided to clients.
2) Obtained new copy machine for client and staff use. Includes duplex feature for paper conservation.

CRITFC 3 Work with regional staff to implement changes identified above

Began close examination of Website and started listing needs/changes.

ODFW	1 Recommend and/or take part in review of new products and features. Provide feedback on content, suitability, navigability and data currency issues.	1) Provided feedback on the new test query system. 2) One staff member took the web survey to provide comments on the availability of data and problems finding/navigating through information placed on the web-site.
Region	1 Summarize results from the StreamNet online user survey. Compile a list of recommended changes and improvements to the online data system	1) The online user survey was terminated in the preceding quarter after about a month. Response to the questionnaire was dismal, with very few people taking the time to fill it out. Due to the low response, no formal analysis of the results was done. Of the results obtained, few followed any consistent pattern. A number of site limitations were brought up by respondents, but none of them were new ones we weren't already aware of. Based on these few results and feedback from individuals in other circumstances, it is becoming apparent that many users are more comfortable with data on spreadsheets than in a complex relational database that requires a complex query system. As a result, we began development of a User Guide for the online data query to make it easier to learn to use the system and to assist people with locating data. 2) In order to better track necessary and suggested changes to the StreamNet on-online query system, a database was created to track desired modifications, when they were suggested, by who, whether they were addressed, and whether the fixes did indeed work correctly. All known existing query system issues were entered into this database, and new issues are now immediately entered here as they become known. This system is providing for much improved management of changes to the query system, and also much improved administration of the programmer subcontract. Query system fixes and enhancements are proceeding more rapidly with this system in place.
Region	2 Continue to review the StreamNet website for clarity, organization and ease of use. Recommend and implement changes to maximize utility for people accessing the site to obtain information. Changes will include updating, replacing, and retirement of existing web pages, and archiving of all existing pages.	Computer files were found on the Regional Fisheries Biologist's computer, and paper files were found in filing cabinets, which hold information on the sources for the Fish Facts, species database, images used on the web site, and other information on the web site. These topics have been discussed in the past year, and these computer and paper files should allow us to eventually clear up many of the uncertainties we currently have regarding the sources of information on the StreamNet web site. We will also be able to more intelligently make any necessary changes.

Region	4 Investigate the latest internet technology in order to improve/add interactive features to our site.	This quarter, the StreamNet Web Query System was reprogrammed to utilize more efficient ADO type communications with the StreamNet database software. While this improvement, coupled with redesigned preparation of binary lookup tables improved performance, several technology upgrade-related problems affected access to the Query System by a small but significant number of users. In some cases, software and programming enhancements that fixed existing problems were found to create other problems, particularly with certain sites using advanced firewall security systems. Efforts were begun to resolve the firewall conflicts, which resulted in users receiving a blank screen upon entering the database query system.
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WDFW	1 Take part in review of new products and features. Provide feedback on content, suitability, navigability and data currency issues, especially issues related to providing static or dynamic map capabilities.	<ol style="list-style-type: none"> 1) O'Connor solicited WDFW staff volunteers to review the new StreamNet Query system and Online Users Document, and submitted written user reactions to Regional staff for incorporation into the final products. 2) Sikora and Lensegrav reviewed and sent StreamNet feedback on StreamNet's brochure. 3) Sikora reminded StreamNet of our wish list for EventMapper improvements. WDFW staff updated their existing EventMappers with the most current version of the files. 4) Sikora started re-drafting the existing TrendUI documentation to organize her personal notes on how TrendUI works. The draft also will serve as a proposal to StreamNet that further work needs to be done so the TrendUI document can instruct users better.
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Objective 2 Data Management and Delivery

Task 6. 1:100,000-scale Hydrography

Maintain the 1:100,000-scale PNW hydrography for purposes of attaching StreamNet data. Coordinate with efforts to prepare a National Hydrographic Dataset (NHD). Develop a standardized method for incorporating lake hydrography and attribute information.

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
IDFG	1	Maintain the Idaho portion of the 1:100,000-scale PNW hydrography for purposes of attaching StreamNet data.	Added a couple of new routes to our local version of hydrography, as required by specific data needs. Will submit updates to PSMFC later.
MFWP	1	Support the efforts of the NHD and convert Montana hydrography to NHD upon receipt.	NRIS received the grant to provide maintenance/enhancement to the NHD for Montana. Coordinating closely with NRIS staff in its work on the NHD. NRIS staff is quality checking all stream names in coverage; lead person has changed to Carson.

MFWP	2 Enhance layer with LLID and stream level routing.	StreamNet staff will assign LLID and stream level routes; will begin next quarter; lead person has changed to Carson.
MFWP	3 Coordinate with NRIS in the QA/QC of the NHD for Montana including the development of a lakes layer (funding provided by the BOR for lakes).	NRIS is QA/QC stream naming; StreamNet staff helped set up ArcView project to accomplish the task. As part of the BOR contract, a lakes coverage is being created using the USFS 1:24 K coverages initially. Completed most of western Montana and ready for assignment of LLID.
ODFW	1 Continue to maintain the Oregon portion of the 1:100,000-scale PNW hydrography for purposes of attaching StreamNet data and for use in ODFW information management systems. Submit all modified PNW hydrography to PSMFC for inclusion in the regional PNW hydrography data.	Resolved some border related hydro issues with Idaho. Shared updates with regional StreamNet staff.
ODFW	2 Participate in technical and policy discussions concerning efforts and activities that relate to or impact the PNW hydrography (NHD, OR/WA state framework physical data model, clearinghouse issues, data dictionary development, etc.)	Participated in one technical issues conference call with other StreamNet participants and regional staff.
ODFW	3 Provide technical advice on hydrology routing and other issues including those related to working with higher resolution hydrography.	Ongoing.
Region	1 Continue to maintain the regional 1:100,000-scale PNW hydrography.	Ongoing
Region	2 Implement updates to the 1:100,000-scale PNW hydrography from state cooperators.	Reviewed submission of IDFG updated hydrography (this was a complete revision by IDFG of their hydrography). Determined routes that had been added, changed, or deleted. Documented changes that had occurred which affected border states of OR, WA, or MT and coordinated review and resolution of these changes between the states involved.
Region	4 Assess future uses of the National Hydrography Dataset (NHD) and if adopted, coordinate the replacement of the PNW Reach files with the NHD as the StreamNet hydrography layer.	The GIS Specialist attended the NHD conference in Austin and completed a report for Steering Committee of the conference and relevance for the StreamNet project.
Region	7 Develop a complete cross-reference application between all streams in the PNW Reach Files and the NHD (National Hydrography Dataset) for Washington, Oregon, and Idaho to allow collection and distribution of stream-based data in both LLID and NHD formats.	Tested approach to develop cross-reference application between all streams in the PNW Reach Files and the NHD (National Hydrography Dataset). Anticipate work beginning on this in April assuming that the NHD flow QA is completed by then.

WDFW	2 Compile, standardize, and exchange point, line, and polygon information for lakes stocked with fish that appear at 100K (or higher) resolution.	Lensegrav started scoping and documenting a fish inventory file we received from Steve Jackson for all lakes managed by WDFW. He completed assigning Lake2k codes to records in RgTotLk.db to enhance that Fish_Inventory file and to identify problems with the Lake2k file. The fish inventory file is expected to represent all lakes managed by WDFW.
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Objective 2 Data Management and Delivery

Task 7. Data Requests

Receive and respond to requests for data, source materials, and custom products. Response to requests will be honored within the limits of available resources, with priority given to information requests having direct relevance to the Fish and Wildlife Program. Other priorities will include implementation of the Endangered Species Act and federal, state, and tribal natural resource management activities.

<u>Project</u>	<u>Job</u> <u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
CRITFC	1 See Tasks 1.1h, 1.6, and Objective 3	Answered requests for materials as in Objective 3. Began working with Drew Parkin for subbasin planning bibliographies of key materials for provinces and for the project as a whole.
IDFG	1 Continue to respond to requests for information from StreamNet database, including requests for fishery information that comes into the Idaho Conservation Data Center (Natural Heritage Program), other IDFG programs and personnel, and outside agencies and consultants.	Completed 34 requests for location specific fish species lists.
MFWP	1 Receive and respond to requests for data, source materials, and custom products. Respond to requests within the limits of available resources, with priority given to information requests having direct relevance to the FWP.	Supported FWP Fisheries Division Native Species Management, Westslope Cutthroat Trout Priority Areas and Yellowstone Cutthroat Trout Data Collection projects.
ODFW	1 As requested, consistent with other deliverables in this contract, receive and respond to requests for data, source materials, technical training, and custom products.	A total of 5 data, 57 document, 4 map, and 1 'other' requests were answered during this quarter. A detailed list by requester and request type can be made available upon request. Also, 2,348 data downloads were made from the ODFW FTP site during this quarter.

Region	1 Respond within one day whenever possible to all user requests received via email, phone, or other medium. Typical requests received include help using the query system, complex data requests not easily done with the query system, and requests for GIS coverages and maps.	30 GIS related requests were answered. 47 tabular data related requests were answered.
WDFW	1 Generate maps, data reports, and electronic copies of datasets as requested.	Didn't add this back from budget cut until Quarter 3 but WDFW StreamNet staff provided release information, chum, fall chinook, and coho escapement estimates, fall chinook harvest figures, and over 100 fish distribution maps to clients representing the US Forest Service, WDFW, WDOE, and private consultants.

Objective 3 Library / Reference Services

Provide a full service regional library for fish (and to some degree wildlife) literature (published and gray), including documentation of all data in the StreamNet database.

Objective 3 Library / Reference Services

Task 1. Collection Development

Develop a collection of materials applicable to the mission of StreamNet. Collect, catalog and organize materials to document data source materials, Fish and Wildlife Program activities and reports, and other gray literature for access by regional scientists, agencies, interested parties, and other libraries.

<u>Project</u>	<u>Job</u> <u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
CRITFC	1 Coordinate source material submissions for data compiled under Objective 1. Develop standards for document submissions	The Library received and cataloged submissions from Project members. Standards for document submissions were developed.
CRITFC	2 Collect and catalog documents prepared by contractors (including final products published by BPA and draft documents suitable for public release) under the Fish and Wildlife Program. Work with Publications Distribution for better publication notification and deposit system.	The person in charge of the Publications Distribution office at BPA retired. We began working with replacements on distribution and publication notification.
CRITFC	3 Collect and catalog documents from the Council's Fish and Wildlife Program-related collection.	We continued cataloging NPPC Fish and Wildlife Program materials.

CRITFC	4 Collect and catalog additional books, journals, agency reports, gray literature, research reports, and documents that are applicable to management of the region's aquatic resources.	295 records were added to the online catalog. These include new materials as well as older, donated materials.
MFWP	1 Provide an update to the electronic version of documents used as source materials for data compiled in Objective 1.	Fisheries Division staff updated the Fisheries Division Library; we will send new CD to StreamNet library next quarter.
ODFW	1 Provide originals/copies of all documents and reports referenced in the compilation of new StreamNet data holdings, but not already housed in the StreamNet Library.	We prepared and submitted a StreamNet Library submission of references used to update trends and create new trends in accordance with the DEF protocol.
ODFW	2 Update the set of historic (pre-1975) Oregon Fish Commission and Game Commission reports and provide to the StreamNet library as available.	This task was dropped due to budget cuts and the fact that the StreamNet Library is running out of physical space to hold new materials not linked to StreamNet trends.
ODFW	3 Update library bibliography of ODFW, Fish Commission, and Game Commission reports with historic and current publications and make the bibliography available for reference via StreamNet and ODFW websites.	Library bibliography was updated with new records, however the bibliography is not yet ready for online access because there is no database manager on staff to perform the necessary tasks.
WDFW	1 WDFW StreamNet will continue to collect documents used as source materials for data in Objectives 1 and 2. Documents will be assigned reference numbers and forwarded to the StreamNet library as per established SN guidelines.	1) In the Oct 6 conference call, Sikora stressed the need to adopt spatial reference conventions that are similar to the tabular reference conventions to minimize future confusion. She committed to drafting a proposal on how StreamNet's existing Reference table could also include GIS references. 2) O'Connor and Sikora discussed and generated a draft approach to capturing spatial data reference documentation for the StreamNet Library. 3) For the Nov 7 SC meeting, Sikora prepared a proposal on how StreamNet's existing Reference table could also include GIS references.

Objective 3 Library / Reference Services

Task2. Provide Access to Collection

Provide user access to the materials described in Task 3.1 by providing facilities for storage of paper and electronic copies of documents, an online catalog of all documents in collections, and staff to answer location questions and respond to requests.

Project Job Work Element

Accomplishments, First Quarter, FY2001

CRITFC	1 Maintain an appropriate facility for the storage and public use of the physical collection.	We maintained space for the collection. Library storage space is approximately 90% full and present facilities need to be expanded if we are to accommodate future needs.
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CRITFC	2 Catalog, organize and maintain the collection for appropriate on-site use.	1) Books were shelved in a timely manner. We reviewed shelving requirements for periodicals and new donations. We removed the backlog from the second floor of building and added shelves for existing collection. 2) We continued Integration of StreamNet documents into the Library of Congress collection.
CRITFC	3 Provide access to the StreamNet Library Catalog.	Provided access to catalog via a public access computer. We also allowed the public to use the staff terminal on service desk.
CRITFC	4 Develop a schedule for regular updates of the reference table.	We began working with regional staff on updates.
ODFW	1 Enhance, maintain, and update ODFW Library software and procedures to ensure adequate tracking of information requests, key word searches, and easy comparison to the StreamNet Library holdings.	No effort was made this quarter - no database manager on staff.

Objective 3 Library / Reference Services

Task3. Improve Electronic Access

Enhance the online capabilities of the StreamNet Library, including catalog access via the internet and an electronic archive of key Columbia Basin documents.

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
CRITFC	1	Manage and maintain the Library catalog server	Server was not yet received from CRITFC technical support.
CRITFC	2	Integrate the library catalogs into a single web application using TextWorks Web Publisher	WebPublisher is not yet in use
CRITFC	3	Develop an electronic archive of key Columbia Basin documents.	We began digitizing the 1990 subbasin plans.
CRITFC	4	Make electronic documents available through the Library web page.	The library web pages are not yet functional.

Objective 3 Library / Reference Services

Task4. Library Services

Manage the StreamNet Library and provide library services to the StreamNet user community and the general public.

Project Job Work Element

Accomplishments, First Quarter, FY2001

CRITFC 1 Provide access guide to outline services for patrons.

the library access guide was updated for the new contract year.

CRITFC 2 Assist users to locate information by providing reference, referral, and computer based search services.

1) We answered approximately 184 requests for in-depth information. We averaged about 2-3 per day for strictly directional requests, including questions such as: "Where is the catalog?" "How are your materials arranged?", etc.
2) We also received and filled requests for literature searches on fisheries in specific rivers.

CRITFC 3 Provide document delivery services, including inter-library lending and borrowing.

We lent 33 books to other libraries.
We provided materials to patrons in Portland, OR; Enterprise, OR; Chile; Idaho and other locations.

CRITFC 4 Maintain hardcopy files of draft and final documents related to the NPPC amendment process, subbasin planning, and Columbia River/Portland harbor dredging

We identified that many of these materials are only being issued electronically. We archived many of these on the Library server. We need to identify select key documents for printing.

ODFW 1 Respond to requests for ODFW documents and other source materials.

We provided 140 hardcopy documents and 1 electronic document to 147 individual users during the quarter.

Objective 3 Library / Reference Services

Task5. Inter-library Coordination

Engage in networking activities with other agency and regional library service providers to provide better access to other collections that will enhance the StreamNet Library and to avoid unnecessary duplication of effort and materials

Project Job Work Element

Accomplishment, First Quarter, FY2001

CRITFC 1 Collect information about other regional fish and wildlife library collections and access policies.

We continued relationships with Columbia Basin Institute in Seattle as well as other natural resources library collections in the Portland area.

CRITFC 2 Provide consultations for agencies and groups on ways to coordinate catalogs and services.

We identified StreamNet Library as a source for literature to many agencies and consultants through needs assessment mailing.

CRITFC	3 Coordinate with users, agencies, and regional libraries to improve services and avoid unnecessary duplication. Perform a needs assessment for the Library.	A needs assessment questionnaire was mailed to around 200 different people. We began using ORULS system for recording library periodical holdings.
CRITFC	5 Maintain presence in related Library groups (i.e. IAMSLIC, NRIC) to provide access to knowledge on Best Management Practices for libraries and current awareness of subject-related materials.	Membership in IAMSLIC was renewed.
ODFW	1 Coordinate with the Oregon State Library system to enhance access to published periodicals, journals, and other documents for StreamNet users.	We signed up for and attended the Desktop Conference at the State Library.

Objective 4 Services to Fish and Wildlife Program Activities

Provide technical data services to Fish and Wildlife Program decision-makers and appropriate Fish and Wildlife Program projects

Objective 4 Services to Fish and Wildlife

Task1 Monitoring and Evaluation

Assist in the development of products that contribute to the monitoring and evaluating (M&E) of Fish and Wildlife Program effectiveness. Specific area of involvement will include:

Objective 4 Services to Fish and Wildlife Task 1 Monitoring and Evaluation

SubTask 1.a M&E Participation

Participate in Program-related monitoring and evaluation work groups

Project Job Work Element

Accomplishments, First Quarter, FY2001

CRITFC	1 Assist basin wide efforts to develop an R/M/E plan consistent with the regional Framework	No work this quarter. This has been an inactive issue, regionally, since CBFWA and NWPPC staffs completed their reports last year. It is expected to be actively discussed again as subbasin planning efforts begin.
IDFG	1 Participate in discussions concerning data needs to support processes adopted by the amended Fish & Wildlife Program for Monitoring and Evaluation.	Participated in discussions at Steering Committee meetings.

MFWP	1 Participate in discussions concerning data needs to support processes adopted by the amended Fish & Wildlife Program for Monitoring and Evaluation.	Participated in discussions at Steering Committee meetings.
ODFW	1 Participate in discussions concerning data needs to support processes adopted by the amended Fish & Wildlife Program for Monitoring and Evaluation.	Participated in discussions at Steering Committee meetings.
Region	1 Participate in Monitoring and Evaluation work groups to provide assistance in locating, acquiring and providing data needed for R/M/E activities.	1) For the TDT process, StreamNet Regional staff provided a summary of data which StreamNet currently has, what could be developed with additional funding, and what we do not provide. 2) The 1990 Subbasin Planning documents were reviewed to determine the types of data and other information which StreamNet could provide for the 2001 subbasin planning effort.
WDFW	1 Participate in discussions concerning data needs to support processes adopted by the amended Fish & Wildlife Program for Monitoring and Evaluation.	Participated in discussions at Steering Committee meetings.

Objective 4 Services to Fish and Wildlife Task 1 Monitoring and Evaluation

SubTask 1.b Evaluation

Periodically re-evaluate the StreamNet data plan to ensure consistency with M&E needs

Project	Work Element	Accomplishments, First Quarter, FY2001
CRITFC	1 Keep Steering Committee apprised of regional R/M/E plans and needs	Presentations are made regularly to the Steering Committee when new information or action occurs at the regional level.
Region	1 Keep abreast of regional data needs related to Fish and Wildlife Program Monitoring and Evaluation and plan for StreamNet database's ability to fulfill these needs.	1) Regional staff participated with PPC staff and contractors and with NMFS staff in a variety of meetings and calls regarding data needs for Subbasin Assessments and Subbasin Summaries. 2) As a means of gathering greater input on regional data needs, the project began inviting a wider array of agency representatives to the quarterly StreamNet Steering Committee meetings, beginning with the Oct. 26-27, 2000 meeting. Response to this first attempt was low, with one representative each from NWPPC and NMFS attending the meeting. A good discussion was held on data needed for population viability analysis.

Objective 4 Services to Fish and Wildlife Task 1 Monitoring and Evaluation

SubTask 1.c M & E Reporting

Prepare reports and data products that illustrate key M&E topics

Project Job Work Element

Accomplishments, First Quarter, FY2001

All

No work specific to this SubTask was performed this quarter.

Objective 4 Services to Fish and Wildlife

Task2. Watershed Projects

Provide data and data services to Fish and Wildlife Program-sponsored watershed planning and assessment projects

Project Job Work Element

Accomplishments, First Quarter, FY2001

CRITFC 1 Assist subbasin planners to develop monitoring and evaluation activities for watershed projects that will integrate smoothly with StreamNet databases (cost sharing)

Subbasin planning activities have yet to begin. No activity this quarter.

MFWP 1 Participate in watershed and, sub-basin planning to the extent requested by the Council and other regional participants. Coordinate with Montana CBFWA representatives in the process and assure a valuable product. Volunteer to complete a pilot sub-basin in the process within Montana.

No requests were received this quarter.

ODFW 1 Participate in watershed planning and assessment activities to the extent requested by the Council and other regional participants. Coordinate with Oregon CBFWA representatives to ensure applicability to F&W Program needs.

Assisted in identifying potential anadromous salmonid habitat above 3 hatchery barriers in the Lower Columbia. This was part of an effort related to the Northwest Oregon Forest Planning process to identify habitat for restoration purposes.

Objective 4 Services to Fish and Wildlife

Task3. Stock Assessment Projects

Provide technical assistance to the Upper Columbia Basin and Upper Snake River Basin resident fish stock assessment projects, including a) identification of regionally consistent data exchange standards and b) Internet access to project data and other information. Specific actions will be defined in consultation with stock assessment project managers

Project Job Work Element

Accomplishments, First Quarter, FY2001

All

No work specific to this SubTask was performed this quarter.

ODFW 1 Provide assistance as needed.

This task was dropped due to budget cuts.

Objective 4 Services to Fish and Wildlife

Task4. Service to Other Fish and Wildlife Program Projects and Activities

In consultation with CBFWA, the Council, and BPA StreamNet will provide technical assistance and data services to select Program projects

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
CRITFC	1	Collaborate with CBFWA, NPPC, and other fish and wildlife programs in the Columbia Basin to identify and provide technical and other services to the Fish and Wildlife Program	Discussed possible StreamNet services with NWPPC and NMFS staffs. No specific services were identified due to the slow progress of subbasin planning discussions. Attended one Regional Data Management Committee meeting.
IDFG	1	Provide technical and other services to other FWP projects occurring in IDFG.	Continued to support redd count system for Idaho Supplementation Studies.
ODFW	1	Provide technical assistance and data services to F&W Program projects as needed and adjust work plan priorities accordingly.	No technical assistance was requested this quarter.
ODFW	2	Produce pre- and post-season harvest and stock status reports for Columbia River fish runs and fisheries and make reports available via either via the StreamNet site directly or via the ODFW Columbia River Management site with a link from StreamNet.	1) Completed Status Report on Columbia River Fish Runs and Fisheries, 1938-1999. 2) Completed The 1999 Lower Columbia River and Buoy 10 Recreational Fisheries report. 3)Completed 3 Fact Sheets and posted tem on the web site

Objective 4 Services to Fish and Wildlife

Task5. Protected Areas

StreamNet will a) maintain and provide access to the Council's Protected Areas dataset, b) archive the official version as a historic record, and c) in consultation with the Council, respond to requests for information concerning Protected Areas

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
Region	1	Maintain the existing Protected Areas database.	This job was ongoing during the quarter.

Objective 4 Services to Fish and Wildlife

Task6 Basin Data Needs

StreamNet will provide information and assistance to regional reviews of data management projects and data management needs conducted by the PPC, ISRP, ISAB and other regional entities

Objective 4 Services to Fish and Wildlife

Task 6 Basin Data Needs

SubTask 6.a Data Management Needs

Work with regional entities to develop an analysis of regional data management needs, challenges and capabilities

Project Job Work Element

Accomplishments, First Quarter, FY2001

CRITFC 1 Participate on Council advisory committees to identify data needs and data gaps

Phil Roger has been named as a member of the Council's Regional Data Management Committee (RDMC) and Regional Assessment Advisory Committees (RAAC). Attended and provided input to one RDMC and one RAAC meeting.

IDFG 1 Participate in discussions and coordination of basin data management needs.

Participated in Regional Data Management Committee meetings at CBFWA.

MFWP 1 Provide review of any and all regional data management issues

Attended StreamNet Steering Committee meeting where topic was discussed.

ODFW 1 Assist as needed with identifying data needs of the amended Fish and Wildlife Program

Met with Paul McElhany from NMFS to discuss the availability of Willamette data and NMFS's Viable Salmon Population exercise data needs. Worked with NWPPC staff to strategize approaches to filling NMFS and Council data needs for Oregon.

Region 2 Meet with regional data using agencies (state and tribal managers, NMFS, USFWS, EPA, FS, BLM, etc.) to determine data and information needs

1) Met with NMFS staff regarding data needed for salmon population viability analysis and recovery planning.
2) Invited NMFS and USFWS to participate in the StreamNet Steering Committee to convey information on data needs.

SBT 1 Participate with steering committee in regional analysis of data needs

Because of reduced funding this fiscal year, this work component was dropped from the Statement of Work

WDFW 1 Participate in regional discussions of data needs and data management strategies in support of the newly amended Fish and Wildlife Program.

- 1) O'Connor provided written response to NPPC request to assess data development estimates to support salmonid stock run reconstruction. Both work plan elements and a draft budget were sketched out and provided in writing.
- 2) O'Connor contributed material for a response to a NPPC letter inquiring about StreamNet's role in data analysis.
- 3) O'Connor provided written review and response to a draft plan for producing subbasin assessment products authored by Drew Parkin.
- 4) O'Connor (and other StreamNet staff) met with Chris Jordan and other NMFS staff in Seattle to discuss StreamNet data sharing and support for the VSP analysis.
- 5) O'Connor provided an amplified written copy of the StreamNet advice on data-related issues for inclusion in WDFW's response to the draft Council Fish and Wildlife Program.

Objective 4 Services to Fish and Wildlife

Task 6 Basin Data Needs

SubTask 6.b **Data Needs Workshop**

Promote organization of a regional 'data needs workshop' to establish regional data / information needs and priorities and to develop recommendations for roles and responsibilities for acquiring and providing the needed data / information

Project Job Work Element

Accomplishments, First Quarter, FY2001

All

No work specific to this SubTask was performed this quarter.

SBT 1 Participate if requested.

Because of reduced funding this fiscal year, this work component was dropped from the Statement of Work

Objective 5 Project Management / Coordination

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.

Objective 5 Project Management / Coordination

Task 1. Manage Project Activities

Administer all aspects of the project at the regional and sub-contractor levels, including oversight of budget, personnel, work statement preparation and implementation, coordination among participating agencies, active participation in steering committee work, and project reporting

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
CRITFC	1	Provide normal supervision of StreamNet Library staff and the CRITFC database Programmer.	1)Annual personnel evaluations were completed on schedule and salary adjustments were made as appropriate and following directions of the Commission and Executive Director. 2)The fiscal year 00 contract was closed out and the new contract begun. 3)Other normal supervision of staff was provided as required.
CRITFC	2	Produce quarterly reports within 1 month after the end of each Quarter	Report was delayed.
CRITFC	3	Produce final report within 2 months of the end of the contract Period	The FY00 final report was completed and provided to the project leader.
CRITFC	4	Participate in Steering Committee meetings	One Steering Committee meeting was attended this quarter.
CRITFC	5	Collaborate on developing a final detailed Statement of Work for the current contract and for the coming year	Reduced CRITFC work statement and budget in response to NWPPC-imposed budget policies.
FWS	1	Represent FWS in Steering Committee meetings	Attended Steering Committee meeting in November
FWS	3	Produce FWS component of FY2000 final report	Submitted final report for FWS FY 2000

IDFG	1 Participate in Steering Committee activities. Manage all aspects of StreamNet in IDFG, including budget, personnel, and work management. Products will include: Annual IDFG StreamNet work statement; Quarterly and annual reports of progress; and, Participation in Steering Committee activities	Conducted all parts of StreamNet management for IDFG, including progress reports, budget management, work management, and supervision.
MFWP	1 Administer all aspects of the project for Montana, including oversight of budget, personnel, work statement preparation and implementation, coordination, and project reporting. Participate in Steering Committee	Ongoing.
ODFW	1 Administer all aspects of the project for Oregon, including budget oversight, personnel, staff work plans, project implementation and coordination, Steering Committee and technical issues meeting attendance	<ol style="list-style-type: none"> 1) Crafted budgets for various StreamNet budget reduction levels. 2) Conducted another round of interviews for our database manager position, but was not able to identify a qualified candidate who was willing to take the job. 3) Hired a seasonal employee to help enhance our barrier database with new and/or corrected information.
ODFW	2 Participate/attend appropriate training and conferences in order to enhance technical skills which are relevant to StreamNet's mission	<ol style="list-style-type: none"> 1) One staff person attended a 2-day Access Level 1 training course, and two attended a 2-day Access Level 2 course. 2) Two staff members attended a seminar on the use of ArcIMS. 3) One staff member completed a "Library Procedures" class at Portland Community College.
ODFW	3 Produce and provide a Statement of Work, budget proposal, quarterly reports, and annual report for Oregon.	Prepared the 2000-4 quarterly report for the CRM portion of Oregon StreamNet.
Region	1 Provide oversight for the StreamNet Program	Regular program administration continued during the quarter. Ongoing program management and coordination was addressed through regularly scheduled staff meetings. Considerable time was spent on the FY2001 budget and work plan due to the reduction in the budget request by the NWPPC. The work plan was completed and submitted based on full funding, with the understanding that the work plan would be modified to reflect final budget decisions.
Region	2 Supervise StreamNet regional staff. Provide training opportunities for project staff to further their technical development and capabilities	<ol style="list-style-type: none"> 1) Regular supervision of regional staff continued. 2) PSMFC staff participated in Harassment and Safety Training. 3) The Regional Fisheries Biologist completed a semester-long Visual Basic class.

Region	3 Develop program budgets and manage / monitor expenditures	The FY2001 budget and Work Statement was submitted to BPA. The budget was reduced to reflect the approved amount, which did not cover the real salary increases. Justification was prepared to request reinstatement of the requested amount through the CBFWA within year adjustment process. CBFWA presented the request at the December Council meeting, but the StreamNet request was deferred to the January meeting.
Region	6 Coordinate with regional management agencies / entities and data using entities to determine information and data service needs and to assure rapid response to reasonable data and information needs	1) The StreamNet Program Manager and Regional Fisheries Biologist attended a presentation by NWPPC on the EDT (Ecosystem Diagnosis and Treatment) process, in order to learn of the types of data they will need and how StreamNet can assist this process, to learn if they have information that StreamNet should capture, and to discuss how to avoid any possible duplication of efforts. 2) Regional StreamNet staff met with Tom Pansky of BPA and the BPA GIS staff to discuss avoiding duplication, especially while providing data for subbasin planning.
Region	7 Produce quarterly reports within 1 month after the end of each quarter	An Access database was developed to capture accomplishments from all StreamNet subprojects and incorporate them into a single quarterly report so that work by the cooperating agencies is fully integrated into a single project report.. Considerable progress was made acquiring information on third and fourth quarter accomplishments from the project participants. In addition to the database for the FY2000 reports, an improved database for FY2001 quarterly reports was prepared and distributed to all project participants.
Region	9 Manage and serve the StreamNet Steering Committee through: Organizing and conducting committee meetings at least quarterly; Calling additional meetings as needed to address timely issues; and, Actively consulting with Steering Committee on program Activities	1) All PSMFC staff created a description of their individual roles and responsibilities to better inform the StreamNet Steering Committee of their activities, and to facilitate effective communication with the appropriate staff on the various interactions which are required in the conduct of the project. 2) PSMFC hosted the first day of the Fall Quarter Steering Committee meeting in Gladstone, Oregon, on Oct. 26. The second day was hosted by CRITFC.
SBT	3 Participate in Steering Committee meetings	Because of reduced funding this fiscal year, this work component was dropped from the Statement of Work

WDFW 1 The WDFW StreamNet state coordinator will participate in all Steering Committee and StreamNet Project management. Activities. The state coordinator and the state data manager will jointly manage all aspects of StreamNet in WDFW, including budget personnel, work scheduling, and product delivery.

- 1) O'Connor provided management and oversight for the six-member WDFW StreamNet staff, including direct supervisory duties for three staff. Sikora supervised three staff; Woodard supervised one staff.
- 2) O'Connor produced several refinements to the FY2001 work plan and budget including detailed budget reductions at the 7% and 11% levels.
- 3) O'Connor drafted fourth quarter and final reports for WDFW-StreamNet work in FY2000.
- 4) O'Connor prepared materials and work progress summaries, and delivered them at the Steering Committee meeting in Portland on November 6-7. He also participated in discussions both days, including priority and goal-setting work on Day 2 with Council and NMFS guests.
- 5) Sikora oversaw all Personnel-related work, including finalizing and submitting the Experience & Training Test for the two new Fish Bio 1 StreamNet Project Permanent positions to Personnel.
- 6) Woodard and Sikora spent substantial time filling out paperwork to hire Michelle Smith and Gil Lensegrav full time in late November and December.

Objective 5 Project Management / Coordination

Task2. Participate in Fish and Wildlife Program Development Activities

Organize, facilitate, and/or participate in appropriate coordination meetings with BPA, CBFWA, the Council, ESA officials, ISAB/ISRP, and/or staff and management of participating organizations aimed at identifying ways that StreamNet might more effectively contribute to the Fish and Wildlife Program (FWP). Participate in advisory groups, task forces, and other groups whose purpose is enhancing the effectiveness of the Fish and Wildlife Program and its data development activities.

Project Job Work Element

Accomplishments, First Quarter, FY2001

CRITFC 1 Participate in appropriate coordination meetings with BPA, CBFWA, the Council, ESA officials, ISAB/ISRP, and/or staff and management of participating organizations aimed at identifying ways that StreamNet might more effectively contribute to the Fish and Wildlife Program.

Had several intense discussions with NWPPC staff and contractors regarding management of EDT data and other services the project could provide to regional fish and wildlife restoration efforts. Council staff did not see any more than a limited role for StreamNet in updating existing data sets.

CRITFC	2 Where appropriate, participate in advisory groups, task forces, and other groups whose purpose is enhancing the effectiveness of the Fish and Wildlife Program and its data development activities, with particular emphasis on subbasin planning and R/M/E issues.	Phil Roger is a formal member of the Council's RDM and RAA Committees. He is also a key member of the ad hoc subbasin assessment development discussion group composed of NMFS, ODFW, and NWPPC staff. Approximately 10 formal and informal meetings with these people were held this quarter. He participates in meetings as scheduled and works with group members outside of meetings to prepare material for group consideration.
IDFG	1 Participate in appropriate coordination meetings with BPA, CBFWA, the Council, ESA officials, ISAB/ISRP, and/or staff and management of participating organizations aimed at identifying ways that StreamNet might more effectively contribute to the Fish and Wildlife Program.	Participated in Steering Committee meetings with outside agencies present to discuss coordination between StreamNet and NMFS and USFWS.
ODFW	1 Participate in activities aimed at identifying ways that StreamNet might more effectively contribute to the Fish and Wildlife Program including participation in Fish and Wildlife Program advisory groups and applicable regional policy, planning, and management forums.	Participated (via phone) in the November CBFWA monthly meeting. Contacted ODFW CBFWA Rep. about funding for our GIS support of the subbasin planning process and about CBFWA's development of a basin-wide screening database.
SBT	1 Participate in appropriate coordination meetings with BPA, CBFWA, the Council, ESA officials, ISAB/ISRP, and/or staff and management of participating organizations aimed at identifying ways that StreamNet might more effectively contribute to the Fish and Wildlife Program.	Because of reduced funding this fiscal year, this work component was dropped from the Statement of Work
SBT	2 Where appropriate, participate in advisory groups, task forces, and other groups whose purpose is enhancing the effectiveness of the Fish and Wildlife Program and its data development activities.	Because of reduced funding this fiscal year, this work component was dropped from the Statement of Work
WDFW	1 No specific work planned; available as needed for coordination	(see related work under Tasks 1.6, 2.2, 2.7, 4.2a, 4.7a).

Task3. Coordinate with Other Related Activities

Maintain communications between StreamNet and other applicable regional and state-level fish and wildlife activities to identify means for collaborative data collection, storage, and dissemination. Collaborative data activities will target tribal fishery programs within the Columbia Basin, federal land managers' fishery programs, state fish and wildlife agencies, and, with respect to water use and stream development, state water resource management agencies. Collaboration with coast-wide and private data collection/compilation efforts will be pursued when this supports overall project goals. Areas of particular emphasis are 1) participation in Fish and Wildlife Program monitoring and evaluation activities, and 2) exploring opportunities for integration of StreamNet data exchange formats into Fish and Wildlife Program contract terms and conditions.

<u>Project</u>	<u>Job</u>	<u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
CRITFC	1	Seek closer cooperation, coordination, and consistency of information management practices and standards between salmon restoration programs in the Columbia Basin (e.g. Mid-Columbia PUDs, LSRCP) by participating on appropriate work groups.	No activity this quarter. It is most likely that coordination of information management across programs (e.g. the Power Act, Forest Service, and LSRCP) will surface during subbasin planning in the second half of this fiscal year. The NWPPC is trying to more clearly define the issues.
IDFG	1	Coordinate with regional and state-level fish and wildlife activities that have relevance to the goals and objectives of StreamNet.	Ongoing.
MFWP	1	Maintain communication, help coordinate activities with Montana Department of Natural Resources, Department of Environmental Quality and the Natural Resource Information System as they relate to StreamNet activities. Participate in appropriate conferences by preparing papers and giving presentations.	Ongoing.
ODFW	1	Establish / maintain working relationships with data collection projects within and outside ODFW to promote efficient and beneficial data sharing.	Reviewed and commented on the latest draft white paper outlining restoration data integration efforts between REO, StreamNet, OWEB, and federal agencies. Also participated in conference call meetings related to this subject.

Region	<p>1 Coordinate the efforts of the StreamNet project with other data compilation projects occurring in the region. Address issues of data gaps, duplication of effort, data set integration, georeferencing standardization, scientific rigor, management needs, etc.</p>	<p>1) Regional staff met with representatives from California Department of Fish and Game to discuss data structure coordination for time series data, habitat restoration projects data, and general database coordination.</p> <p>2) Regional staff met three times with a working group which is trying to coordinate the collection of habitat restoration projects data across the several efforts currently in effect. This group is attempting to define minimum data needs, data sharing, and a potential central database and on-line access to these data.</p> <p>3) The Regional Fisheries Biologist spoke with Annie Phillips of Washington's "Watch Over Washington" volunteer water quality on-line database. Discussions covered the possibility of eventually incorporating WOWs data into StreamNet, and how to use the WOW web site to enter and retrieve data.</p> <p>4) The Regional Fisheries Biologist reviewed a PTAGIS procedures document aimed at minimizing risk of on-the-job exposures to communicable diseases while PIT tagging.</p> <p>5) Regional staff met with California Department of Fish and Game staff via telephone to discuss the StreamNet methods for georeferencing fisheries data. CDFG staff are hoping to emulate the StreamNet database in order to better manage information in that state. Helping them to understand StreamNet methods should result in better information management between that state and the StreamNet agencies, in order to better evaluate regional trends in future years.</p> <p>6) Participated in the Pacific Salmon Information Network (PSIN) to describe the StreamNet project: its functions and its data. This group meets regionally to provide a forum for those working with salmon data in the region to coordinate and understand what each is doing. This was the first meeting of this group held in Oregon.</p>
WDFW	<p>1 Maintain working contact with Washington Hydro Framework partners and USGS Regional Ecosystem Office staff to promote effective sharing of hydrology base layers and attached fish and habitat data.</p>	<p>O'Connor gave presentation to Washington Department of Natural Resources Fall 2000 GIS Users Meeting on StreamNet Spatial Data (fish distribution and use, 100K hydrology). Topics included: What is StreamNet?; What data do we have?; How do we collect it?; How do we store it?; How do you get subsets of these data?; and Can I redistribute data?</p>

Objective 5 Project Management / Coordination

Task4 Prepare Public Information Materials.

As needed, produce public information materials and participate in various meetings and forums to explain the project's capabilities and purpose and to generate support and additional data sources. Activities may include brochures, demonstrations, posters and talks.

Objective 5 Project Management / Coordination Task 4 Prepare Public Information Materials.

SubTask 4.a Prepare Public Information Materials

As needed, produce public information materials including updated versions of the project brochure, computer demonstration materials, and/or other appropriate materials

Project Job Work Element

Accomplishments, First Quarter, FY2001

CRITFC 1 Produce and update a Library brochure and Access guide listing services, hours and cost recovery fees.

Updated library brochure and access guide for new fiscal year.

MFWP 1 Montana will participate in review and recommendations.

Reviewed brochure.

ODFW 1 Write informational articles on StreamNet data activities for natural resource oriented publications and give oral presentations to relevant user groups.

1) Prepared and gave a presentation on fish distribution data development efforts at the joint USFS / BLM GIS coordinators meeting in Bend.
2) Prepared and gave a presentation to the Fish and Wildlife Orientation class at OSU on the Or. StreamNet Project and what it's like to work for ODFW.
3) Prepared and gave a presentation on StreamNet to the Salmonberry Watershed Coordinating Council and Oregon Dept. of Forestry staff.

ODFW 2 Develop an informational PowerPoint presentation about the StreamNet Project.

Prepared an informational presentation about StreamNet as part of preparation for various oral presentations. Since each presentation is unique, certain general slides were prepared, but a single static presentation is no longer warranted.

Region 2 Create improved web page help files to assist users in understanding and making better use of StreamNet information.

Regional staff created and reviewed a "First Time User's Guide" to using the StreamNet on-line query system. After several rounds of edits, this document was made available for download as .PDF from the StreamNet on-line data page, as well as being converted to html and made available on-line. It is hoped this guide will assist people in learning how to make better use of the query system.

Objective 5 Project Management / Coordination Task 4 Prepare Public Information Materials.

SubTask 4.b **Participate in informational meetings/conferences**

Participate in appropriate state, regional, and national educational and professional conferences, including, where applicable, giving presentations, preparing poster session materials, and contributing to conference proceedings.

<u>Project</u>	<u>Job</u> <u>Work Element</u>	<u>Accomplishments, First Quarter, FY2001</u>
IDFG	2 Serve as chairman and organizer for the 2001 ArcInfo User's Group Conference scheduled for October 2001.	Started organizing next fall's 2001 Northwest GIS User's Group conference.
ODFW	1 Participate in appropriate meetings & conferences as opportunities arise to highlight StreamNet programs & data	Attended the joint USFS / BLM GIS coordinators meeting in Bend.
Region	1 Participate in appropriate meetings to explain the StreamNet project, solicit new data and information, or to present relevant data from the SN database.	The Program Manager met with the Columbia Plateau province review teams to present information on the data available in the StreamNet database for use in developing subbasin summaries.