StreamNet Quarterly Progress Report

(October - December 1998)



Submitted to: Bonneville Power Administration

Submitted by: Pacific States Marine Fisheries Commission

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I. Columbia River Inter-Tribal Fish Commission

PERIOD HIGHLIGHTS

Cataloging

Limited numbers of documents were cataloged this quarter due to the loss of Krista Schauer, Library Technician in August and Gretta Siegel, Managing Librarian in mid-October. We were able to catalog 182 pieces, including StreamNet documents.

Services

Continued to provide reference, online search, and interlibrary loan services.

Reference requests

Approximately 40; Requesters included:

CRITFC

NMFS

Several independent writers

Members of the public

USFWS

Bureau of Indian Affairs

H. Radtke (consultant)

CRiSP

Pacific Biological Station / Department of Fisheries and Oceans (Canada)

Michael Black, Consulting (CA)

PSU graduate students

Marylhurst students

BioAnalysts (consulting group from Boise)

Stratus Consulting (CO)

PSMFC

<u>Interlibrary loan requests</u>

150 items borrowed, 10 items lent (Several to federal agencies, including National Agriculture Library and Environmental Protection Agency)

Circulation

Approximately 100 books and technical reports.

Photocopier usage

2573 copies made by CRITFC, NMFS, NPPC, and PSU students.

Meetings

Library staff only attended pertinent CRITFC meetings this quarter due to staff shortages.

Administrative and Miscellaneous

Wrote quarterly report for StreamNet project.

Signed on as a Lender with OCLC Interlibrary Loan, taking effect January 1, 1999.

Provided input for Library Technician and Librarian job descriptions.

Successfully completed hiring process for Library Technician. David Liberty, Umatilla Tribe, was hired for the position and began work in mid-November 1998. Began limited training for managing the periodical collection as well as familiarization with the books and technical reports collection.

II. Idaho Department of Fish and Game

PERIOD HIGHLIGHTS

Ongoing development of interface for entering stream and lake survey data. System will be used to compile Department data for StreamNet.

Entered and edited juvenile and adult anadromous/resident data.

Coordinated information systems strategies with Fisheries Bureau.

Completed first review of new Idaho portion of region 1:100,000 scale hydrography and submitted changes to regional GIS Manager.

Continued development of AML program to programmatically route unrouted, unnamed streams in hydrography.

Implemented Reference and Collecting Permit interface in Fisheries Bureau.

Trained Fisheries Bureau staff to enter data into Reference and Collecting Permit interface.

Fisheries staff entered data into Reference and Collecting Permit interface.

Completed matching lake polygons to IDFG catalog numbers.

Continued data entry and error checking historical fish stocking data.

Hosted StreamNet Steering Committee Meeting.

Completed initial database development of Instream Flow database on SR3 project.

PLANS FOR NEXT QUARTER

Continue development of stream and lake survey interface.

Complete second review of new hydrography.

Submit all changes to hydrography to regional GIS Manager.

Rebuild hydrographic network connections in regional hydrography layer

Continue entry of stream survey forms into SSS.

Attend StreamNet Steering Committee Meeting

Continue development of hatcheries, dams, and barriers databases.

Complete data entry in historical fish stocking database.

Continue error-checking historical fish stocking data.

Process 1998 anadromous fish update data.

Begin data entry into SR3 Instream Flow database.

Start 1998 Spawning Ground Report.

DATA REQUESTS

END_DATE	USER_ORG	USER_REP	SUPPLIER	DATA_TYPE
10/6/98	NRCS	Dave Hoover	Butterfield	fish dist data
10/6/98	Alden Research	Freq	Butterfield	bull tr. And redband
		Winchell		dis
10/6/98	BioAnalysts, Inc.	Mark Miller	Butterfield	bull tr and redband dist
10/6/98		Vicki Hill	Butterfield	IRIS recreation data
11/8/98	IDFG	Steve Yundt	Butterfield	WSC dist map
11/16/98	DEQ	Tom Herron	Klaus	upper Salmon hydro, fish
11/17/98	AG office	via Will Reid	Hartpence	BT, WSC, RB maps
11/16/98	IDFG	Mike Larkin	Hartpence	Brook Trout dist maps
12/16/98	Strata Consulting	Amy	Butterfield	Resident fish dist data
		Beaulieu		
11/4/98	IDFG	Will Reid	Hartpence	bull trout distribution
11/10/98	IDFG	Mike Larkin	Hartpence	maps of barriers and div
11/16/98	IDFG-CDC	Stephanie Mitche	Hartpence	presence of WSC, STHD by
11/30/98	IDFG - Nampa Res.	Paul Bunn	Hartpence	6th field HU coverage
12/21/98	Idaho Rivers	Scott Bosse	Hartpence	distrib of BTR and
12/22/09	United	Dob	Houtmanaa	Cutth
12/23/98		Bob Griswold	Hartpence	graphics of streams
12/22/98		Carol	Hartpence	presence of BTR and WSC

III. Montana Department of Fish, Wildlife & Parks

PERIOD HIGHLIGHTS

Data Development

Completed update of tabular and spatial Fish Electrophoretic Sampling Data; will provide map products and reports to state and federal fisheries biologists and managers this spring. Began discussions with staff of the Wild Trout and Salmon Genetics Lab at the University of Montana concerning reporting the data to us. Will create a reporting/data entry prototype in Access for their use.

Received all additional information to review FWP Stream Fisheries Ratings; began design of ArcView project to review ratings and rewrote the assessment guidelines outlining the procedures used to rate each stream for their recreational value and their species and habitat value.

Sent out maps, tabular lists, and instructions to state and federal fisheries biologists for the annual updating and editing of MRIS Bull trout data; made follow-up phone calls and received all edited products back except R-1.

Collected information from state, federal, and private hatcheries for the StreamNet hatchery database.

Reviewed several other states standard Stream Survey forms and developed a prototype for Montana. Standard stream survey form would allow for many fields in MRIS to be filled in.

Continued to coordinate and make progress toward the conversion from RRN to LLID; received some data from the USFS and continue to try to include them in the process; certain forests have proceeded in assigning LLIDs only on the forest, not the entire hydrologic unit and others did not name the streams that they assigned LLIDs to. Part of process has including quality checking the 1:100 K hydrography.

Worked on data exchange format for resident fish; process has including redesigning structure for MRIS as we move these data from short_rrn to LLID.

Received outplanting data from Bob McFarland, FWP ISU Coordinator in Bozeman. Will provide to StreamNet when data exchange format has been finalized.

Prepared maps of westslope distribution data.

Data Management and Delivery

The Fisheries Division has initiated a Native Species Management Plan. Had initial meetings at the Fisheries Division meeting in December; Janet has volunteered to chair the *Identification of Native Species Management Areas*; fish distribution data from MRIS and GIS will be used extensively in the initial determination of these areas.

Began work on creating a new Montana Rivers Information System database with a spatial component for entering and retrieving data. Met with NRIS staff Duane Anderson and began the first steps of the process which involved a new MRIS structure in Access, "streamizing" the data prior to LLID, checking the data for referential integrity and cleaning up according and designing a Web-Based reporting program through NRIS.

Created strategy for providing Internet access to the Stream Fisheries Rating Program results and its supporting fisheries data on the Internet.

Modified FWP Restoration edit/entry program in Access and began entering records into the database.

Responded to 95 requests for GIS data products (request log on file).

<u>Library/Reference Services</u>

Continued to have documents from the Fisheries Division Library inputted into a library cataloging system. 2500 records have been entered to date. Work will continue next quarter.

Project Management and Coordination

Created and gave a Power Point presentations for the Fisheries Division meeting in Great Falls; included an update on StreamNet activities and all other information services we are providing.

Attended Steering Committee Meeting in October in Boise.

Hired Kim Lindstrom temporarily to help with hydrography conversion and GIS requests.

MRIS Report

Continued scoping MRIS to web task. Evaluated MRIS 100k river reach number to StreamNet 100k reach number matches in Western Montana and found significant discrepancies. Identified problem reaches and prepared files for FWP (Jeff Hutten) to work with to correct problems. Met with Janet Decker-Hess and converted Dbase version of MRIS into Microsoft Access.

Other MRIS related requests served by NRIS during the period:

Date Received	Date Sent	NARRATIVE	Company/Organization	SectorName
10/3/98	10/5/98	MRIS reports on Wildcat Creek, Cottonwood Creek, and Sweetgrass Creek, all of which are tributaries to Yellowstone River. Wants to look at stream evaluation and see what MRIS reports look like. Called again on 10-13-98 and asked questions about report.		Private Non Profit
10/14/98	10/14/98	Latest climate info for Trout Creek, MT.	Department of Environmental Quality	State
10/1/98	10/5/98	MRIS reports for 10030101 on Prickly Pear Creek. Following reaches: 040000, 0470000, 0510000, 0520000, 0540000, 0560000, 0560100, 0560200, 0560213, 0560224, 0560300.	State of Montana	County/Loca
10/8/98	10/13/98	Ownership, topography, streams, roads for the Absaroka-Beartooth mt as a whole and 7 of its basins clipped with the same info.	Montana Fish, Wildlife, and Parks	State
10/14/98	10/16/98	Water quality and uses of Trumbull Creek in the Miller Creek area (probably Flathead drainage.)	Whitefish High School	Academic
10/27/98	10/27/98	MRIS stream covers for MT and the dewatered database file. To be used to aid and assist in the federal adjudication of water rights for the forest service.		Unknown
10/29/98	10/30/98	Needed correction to Peoples Creek map and addition of creek names.	Fort Belknap Reservation	Federal
11/23/98	11/23/98	Requested help on how to locate information source on 303d streams in Montana on the Internet.	WCEI	Private Non Profit
11/16/98	11/18/98	Resource materials for Mineral County Watershed including a map of the county showing creeks, and historic averages of water flows.	Mineral County Watershed Council	County/Loca
11/2/98	11/9/98	Information on 1 mile of the Clearwater River near Seeley Lake: discharge or stream flow data, upstream regulations (dams, water	Five Valleys Land Trust	Private Non Profit

		rights), water quality info, aquatic life, recreation uses and management considerations.		
11/9/98	11/9/98	EPA reach number for Carpenter Creek in HUC 10030105 (T14NR8E).	Montana Bureau of Mines and Geology	State
11/24/98	11/24/98	Fisheries report for reach #2120000 on Spring Creek for HUC 10030101.	State of Montana	County/Loca
11/30/98	11/30/98	In house request for 12 copies each of the following: Conservation District Map, SWSI 9/98 map, Well Distribution map, MRIS report. (For DEQ meeting with heads of the departments.)	Montana State Library	Private Non Profit
11/30/98	12/1/98	Any information on N. Meadow Creek. To be used in land use planning in a collaborative effort between Mad Valley Ranch Lands Association Group and him (a hired person).	MONTANA NATURE CONSERVANCY	Private Non Profit
12/1/98	12/4/98	Info on the Hell Creek Formation; what areas does it cover?		Unknown
12/12/98	12/14/98	Copy of following: Pfankuch, D.J. 1975. Stream reach inventory and channel stability evaluation. US Department of Agriculture, Forest Service, Region 1, Missoula, MT.	Universidade Estadual de Campinas	Academic
12/6/98	12/8/98	Info on Upper Rock Creek, between Sluice Gulch and Antelope Creek. Specifically, discharge info, water withdrawals, water rights, damps, biota, conservation and management of the wetland region.		Private Non Profit
12/6/98	12/7/98	Info on Liverpool creek just north of Lincoln. Specifically, discharge, water manipulation, biota, management of area.	Five Valleys Land Trust	Private Non Profit
12/30/98	1/5/98	MRIS report requests: Lump Gulch, Jackson Creek, Warm Springs Creek.	State of Montana	County/Loca
12/12/98	12/14/98	Requested hard copy of following: Pfankuch, D. J. 1975. Stream reach inventory and channel stability evaluation. US Department of Agriculture Forest Service, Region 1, Missoula, MT.	Universidade Estadual de Campinas	Academic
12/16/98	12/17/98	Would like stream flow data (from a previous request) sent to him on floppy in .xls format (Excel).	Montana State University	Academic
12/1/98	12/11/98	Map with prickly pear info including watershed, county, streams, hwy, towns, and	Lewis and Clark Conservation District	County/Loca

ownership, mines.	

IV. Oregon Department of Fish and Wildlife

PERIOD HIGHLIGHTS

Completely updated the anadromous species distribution maps for the Rogue basin. This included providing verifiable data documentation where it was available and accessible. (Bowers, Brodeur, Cooney, Forsberg, Sounhein; Task 1.1a).

Converted 1998 Coastal Salmonid Inventory Project data into StreamNet compatible format and incorporated into Rogue basin distribution update in order to rectify differences. (Bowers, Task 1.1a).

Continued efforts to develop Oregon's Barrier Database. To this point, 1,014 Oregon barriers have been reviewed, verified, and referenced. Some barriers discovered during the 1996 Salmon Inventory Project: Random Summer Reconnaissance Surveys were also incorporated into our Barriers Database. These data will be converted into the new Barrier Exchange format when the format is finalized. (Brodeur, Sounhein; Task 1.1a and 1.2a).

Began reviewing and updating the Hatchery Facilities and Hatchery Production data tables. (Forsberg; Tasks 1.1e,1.2d, and 1.4b).

Submitted modifications to the StreamNet Juvenile Abundance and Mitigation exchange formats, and a provided comments on a number of other exchange formats. (Brodeur, Cooney, Forsberg, Sounhein; Task 2.3).

Updated & rectified discrepancies in the stream route coding system in the Oregon portion of the PNW 100K Hydrography. (Bowers, Forsberg; Task 2.6).

A total of 7 data, 69 document, 4 map/GIS related, and 5 other requests were answered during this quarter. (All staff; Task 2.7).

Created a project poster presentation to be displayed at the October 1998 ODFW Commission meeting. This poster will be periodically updated and used for future meeting. (Forsberg; Task 5.3).

Hired Jon Bowers to fill our GIS Analysts position. (Cooney; Task 5.1).

One or more staff members participated in 12 essential project coordination meetings. Bowers, Brodeur, Cooney, Forsberg, Hill, Sounhein; Task 5.1).

Compiled and submitted 1998 Annual/Quarterly Report information for Oregon. (Cooney; Task 5.1).

PLANS FOR NEXT QUARTER

Complete hiring process for ODFW StreamNet Database Manager. (Cooney).

Continue updating the anadromous species distribution throughout Oregon using the 1:100K Hydrography and provide data documentation for distribution in the Willamette basin. (Bowers, Brodeur, Cooney, Forsberg, Sounhein, Data Manager).

Enhance our Barriers Database with new information and link this database with our anadromous species distribution information. (Bowers, Brodeur, Sounhein).

Modify and improve electronic Library request data entry system and continue to catalog pending and completed Library requests. (Data Manager, Cooney, Bourne).

Provide updated adult abundance estimates and indices for anadromous species with available 1997 and 1998 data. (Sounhein).

Continue to answer information requests as received. (All).

DATA REQUEST/RESPONSE LOG

DATE	REQUESTER	ORGANIZATION	REQUEST	Who
	,		-	Responded
10/01/98	Georgia	BioAnalysts Inc, Boise	2 docs	Bourne
10/01/98	Laura Conroy	NW Economics Assoc.	doc	Bourne
10/01/98	Lenora Oftedall	CRITFC SN Library	doc	Bourne
10/01/98	Matthew Luxon	Institute Env. Toxicology & Chemistry, Bellingham, WA	6 docs	Bourne
10/01/98		SP Cramer Assoc.	2 docs	Bourne
10/02/98	John Hawksworth	Wash Co Soil &	2 docs	Bourne
10/01/00	~	Conservation		
10/06/98		Pacific Habitat Service	2 docs	Bourne
10/06/98		BLM Medford	doc	Bourne
10/12/98	Briana Sounhein	ODFW@Corvallis	doc	Bourne
10/12/98	Darren Cobeck	OR Wheat Growers League, Pendleton	doc	Bourne
10/12/98		ODFW	Barriers in the Coos- Coquille District	Brodeur
10/13/98	Dick Ewing	Bio Tech	doc	Bourne
10/13/98	Emily Smith	PSU student	5 docs	Bourne
10/14/98	E. J. Williams	North Wales, U.K.	6 docs	Bourne
10/14/98	Kelly Hazen	BLM- Burns, GIS	Export file of Wildlife Management Units	Forsberg
10/15/98	Steve Kuchas	Portland Water Bureau	Salmonid distribution map info.	Forsberg
10/15/98	Troy Christenson	Eastern WA Univ. Library	17 docs	Bourne
10/16/98	Bryan Flaig/Jennifer Vick	Stillwater Sciences, Berkeley, CA	8 docs	Bourne/NWP PC
10/16/98	Gretchen Oosterhout	Division Matrix, Canby	Doc	Bourne
10/20/98	Joseph Taylor	Dept. of History, Iowa St Univ.	5 doc, 1 picture	Bourne
10/21/98	Michael Wing	Forest Engineering Dept., OSU	CSRI CORE maps	Forsberg
10/22/98	Burke Strobel	USFS Estacada	2 docs	Bourne
10/22/98	Lloyd Golden	public	Doc	Bourne
10/23/98	Asa Kestrup	? Agency, Montreal, Canada	5 docs	Bourne
10/26/98		PGE Hydro Project	2 docs	Bourne
10/26/98	Neal Young	MHCC, Biology Dept	Doc	Bourne
10/27/98	Michael Wing	OSU Forest Engineering	Converted CSRI CORE tables to coverages, exported, and zipped them to ftp. He wanted	Forsberg

			more than maps.	
10/28/98	Robert Marquette	private	9 docs	Bourne
10/30/98	Becky Crockett	Montgomery & Watson Cons.	5 docs	Bourne
10/30/98	Todd Moses	Watershed Application	Doc	Bourne
10/30/98	Travis Collier	MHCC student	2 docs	Bourne
11/02/98	Briana Sounhein	ODFW@Corvallis	2 docs	Bourne
11/03/98	Ted Williams	SP Cramer Assoc.	Doc	Bourne
11/03/98	Ted Williams	SP Cramer Assoc.	Doc	Bourne
11/05/98	Debra Sparber	OR State Library	Doc	Bourne
11/05/98	Gordon Haas	Ministry of Fisheries, Canada	6 docs	Bourne
11/06/98	Keith Braun	ODFW - Tillamook	Review salmonid age/life stage table	Cooney
11/06/98	Ted Williams	SP Cramer & Assoc.	Doc	Bourne
11/07/98	Joseph Taylor	Dept History, Iowa St Univ.	Picture	Bourne
11/10/98	Judi Chein	Willamette Univ. Library	Doc	Bourne
11/10/98	Kathryn?	R 2 Resources	Doc	Bourne
11/10/98	Susan Brodeur	ODFW@Corvallis	2 docs	Bourne
11/12/98	Ted Williams	SP Cramer & Assoc.	4 docs	Bourne
11/12/98	Ted Williams	SP Cramer & Assoc.	9 docs	Bourne
11/13/98	Molly McClure	PSU, State of the Envir. Report Dept Public Admin	2 docs	Bourne/to Lance
11/16/98		Montana St Univ. student	Info	Bourne
11/16/98	Janet Webster	OSU Guin Library	Doc	Bourne
11/18/98	Lenora Oftedahl	CRITFC SN Library	2 docs	Bourne
11/19/98	Ann Richards	Southern OR Univ. Library	Doc	Bourne
11/19/98	Jay Beckstead	public	Doc	Bourne
11/19/98	Trish Webb	Foster, Wheeler Envir Corp Library	2 docs	Bourne
11/20/98	Jay Beckstead	public	2 docs	Bourne
11/20/98	Molly McClure	PSU, State of the Envir Report Dept Public Admin	Doc	Bourne
11/23/98	Gary Susac	ODFW	Winter Steelhead: Mid- Willamette	Sounhein
11/23/98	<u> </u>	public	21 docs	Bourne
11/23/98		BioAnalysts	bib copy	Bourne
11/23/98	,	CH2MHill for ODOT	Fish and Wildlife resources in Polk Co for ODOT improvement project environmental assessment	Forsberg
11/23/98	Nick Iadanca	NMFS, Portland	doc	Bourne
11/23/98	Sean Meegan	BEAK	2 doc	Bourne
11/24/98	Georgia	BioAnalysts	bib copy	Bourne
11/24/98	Robert Busch	private, B.C. Canada	2 docs	Bourne
11/30/98	Becky Fried	ODFW-Corvallis	Projection file from PSMFC to Oregon Lambert	Forsberg
11/30/98	Diane Mitchell	WA State Library, Olympia	4 docs	Bourne

11/30/98	Kevin Kitchart	Williams Creek Watershed Council	ORIS web location	Forsberg
11/30/98	Lenora Oftedahl	CRITFC SN Library	Doc	Bourne
11/30/98	Ron Yokum	private	2 docs	Bourne
12/02/98	Bill Pearcy	OSU Oceanography student	Doc	Bourne
12/02/98	Briana Sounhein	ODFW@Corvallis	bib zip	Bourne
12/02/98	Jurgen Westrheim	Can Fish & Oceans	tour, 9 docs	Bourne
12/02/98	Mary Hanson	ODFW	Maps of STS in L.	Forsberg
			Deschutes & Trout Cr. &	
			CHS for L. Deschutes. for	
			review of report on Lower	
12/07/98	Briana Sounhein	ODFW@Corvallis	Deschutes 2 docs	Bourne
12/07/98	Bruce Jackson			
		ODFW-Engineering	Wanted copy of ORIS for Fishways info	Forsberg
12/09/98	Molly McClure	State of the Envir Report PSU	Doc	Bourne
12/10/98	Karen Pratt	Pratt Consulting	Doc	Bourne
12/10/98	Molly McCluer	State of Environment	Sent 4-disk copy of ORIS	Forsberg
		Project, PSU	and manual for their	
10/11/00	D ' 0 1 '	ODEM'SC 11,	project review.	D
12/11/98	Briana Sounhein	ODFW@Corvallis	2 docs	Bourne
12/11/98	Kay Quigley	OSU student	Doc	Bourne
12/11/98	Randy Smith	ODFW	Coos & Coquille Winter Steelhead maps with	Bowers
			Public Land Survey	
			boundaries	
12/11/98	Briana Sounhein	ODFW@Corvallis	Doc	Bourne
12/14/98	Gary Susac	ODFW	Winter Steelhead: Rogue	Sounhein
	J		creel data	
12/14/98	Steve Cramer	SP Cramer	4 docs	Bourne
12/15/98	Steve Evans	Agra Earth & Environment	Doc	Bourne
12/16/98	Jay Beckstead	private	3 docs	Bourne
12/21/98	Patty Michak	Fishpro	Doc	Bourne
12/21/98	Peggy O'Neal	PSU	6 docs	Bourne
12/28/98	Janet Webster	OSU Guin Library	5 docs	Bourne
12/29/98	Lenora Oftedahl	CRITFC SN Library	2 docs	Bourne
12/29/98	Susan Gilmont	OSU Guin Library	disk of Progress Reports	Bourne
12/30/98	Janet Webster	OSU Guin Library	2 docs	Bourne
12/30/98	Kent Mayer	PSU student	doc	Bourne
12/31/98	Paul Reimers	ODFW	Barriers in 4 HUCs	Brodeur

STREAMNET GIS DATA DOWNLOADS OFF THE ODFW FTP SERVER

(Tabulated by Brent O. Forsberg 1/6/99)

GIS Coverages	Number of Files Downloaded	Number of Different Users Downloading Files
Fall China alv	211	
Fall Chinook	211	16
Spring Chinook	219	12
Chum	44	8
Coho	279	19
Winter Steelhead	179	11
Summer Steelhead	173	10
Bull Trout	21	17
Oregon Rivers Information	518	89
System		
Routed Streams	157	19
Coastal Salmon Plan Core	27	5
Areas		
Postscript maps	80	6
Misc. other coverages	81	28

V. Pacific States Marine Fisheries Commission

PERIOD HIGHLIGHTS

Data Development

Reviewed the status of all data development tasks with project participants.

Prepared a proposal for development of an online version of the Fish and Wildlife Program Annual Implementation Work Plan.

Prepared a Columbia Basin-wide ecoprovince and subbasin delineation proposal for use by the Fish and Wildlife Program's Framework and M&E initiatives.

Data Management

Incorporated major data updates from WDFW.

Incorporated new anadromous distribution coverages including use types for Idaho, Washington, and Oregon.

Incorporated new Oregon hatchery release data.

Revised the StreamNet data holdings document.

Initiated a major revision of the StreamNet data exchange format document.

Error checked and revised the 100K river reach system for Idaho, Oregon, and Washington. Coordinated enhancement activities within the states.

Completed review and revision of the 1:100,000-scale PNW hydrography.

Maintained contact with regional river reach system users including the USFS, BLM, and states, in order to ensure compatibility of efforts.

Maintained contact with the national NHD team.

Maintained and revised the StreamNet 100K web site feature.

Library/Reference System

Assisted CRITFC in the hiring of a new librarian and library technician by reviewing resumes and participating in interviews.

Data Delivery

Introduced the updated version of the StreamNet online query system, including mapping and tabular reporting capabilities. Incorporated an online data holdings feature.

Maintained and enhanced test versions of the data query and reference system.

Enhanced the education portion of the StreamNet home page by adding links to environmental education sites.

Maintained and revised the project management section to the home page, principally by posting new project documents as these were produced.

Monitored use of the StreamNet web site.

Responded to all web site "feedback" comments within 24 hours of receipt.

Revised a list of StreamNet home page enhancement ideas and identified priorities for future home page improvements.

Project Management

Prepared sub-contracts for seven participating agencies.

Prepared a project "quick" plan that summarized the more detailed work statement.

Prepared a project implementation and data development plan that identified

Attended and gave presentations at two Multi-species Framework workshops.

Attended and made a presentation at the Resident Fish Caucus meeting.

Attended and made a presentation at a CRITFC-sponsored watershed conference.

Held coordination meetings with NWPPC and CBFWA staff.

Scheduled and facilitated the October Steering Committee meeting.

Maintained contact with project coordinators via telephone and email on at least a weekly basis.

Reviewed sub-contractor invoices and prepared BPA invoices.

Prepared the FY 2000 project proposal including background, proposed tasks, and proposed budget.

PLANS FOR NEXT QUARTER

Data Development

Continue to coordinate data development by participating agencies, including mid-year review of status.

Data Management

Incorporate new data as received from participating agencies. Significant additions are anticipated from ODFW, IDFG, and WDFW.

Consult with BPA, NWPPC, and CBFWA regarding an online version of the FY2000 Annual Implementation Work Plan. Prepare an online product based on these discussions.

Complete version 99.1 of the data exchange format document.

<u>Library</u>

Provide direction to library staff regarding library use policies and other appropriate issues.

Cooperate with library staff in updating source references.

Data Delivery

Continue to enhance the online data query system as per the existing enhancement plan.

Enhance the utility and visual appeal of the StreamNet Internet query system by revising the help system, revising text, and inserting appropriate graphic images.

Respond to requests for data and data services as needed.

Project Management

Hold coordination meetings with CRITFC, IDFG, ODFW, and WDFW. Contact other participants via telephone.

Prepare for and conduct a January steering committee meeting.

Continue to monitor project progress, including overseeing work of subcontractors.

Continue to monitor Fish and Wildlife Program-related activities and reports in order to identify links with these activities.

Prepare and conduct briefings on the project to applicable CBFWA managers' caucuses.

Prepare work priority lists for a) data manager, b) programmer, and c) data technician.

VI. Shoshone-Bannock Tribes

PERIOD HIGHLIGHTS

Attended quarterly Steering Committee meeting.

Reviewed project products.

PLANS FOR NEXT QUARTER

Attend quarterly Steering Committee meeting.

Review project products.

Monitor applications/issues for StreamNet in the Fish and Wildlife Program as identified in the CBFWA project evaluation process.

VII. U.S. Fish and Wildlife Service

PERIOD HIGHLIGHTS

Attended the Steering Committee meeting.

PLANS FOR NEXT QUARTER

Continue translating return information to the exchange format.

VIII. Washington Department of Fish and Wildlife

PERIOD HIGHLIGHTS

General

WDFW participated in the StreamNet Steering Committee meeting in Boise to review the direction of work and relationship to contributing funding sources for the upcoming fiscal year. Staff also participated in a number of conference calls to discuss compiling and integrating resident fish data in priority categories.

Database Development

Tabular

Key developments this quarter include 1997 data updates initiated for several adult abundance categories, compilation of 1998 statewide hatchery returns data for conversion and eventual exchange, compilation of statewide sport and commercial harvest data, and provision (finally!) of historical 1981-1994 steelhead release data.

Spatial

Staff worked with Ken Williams of Region 2 to identify, enter data, and produce maps indicating lake and stream presence of westslope cutthroat trout in selected Eastern Washington basins in response to a proposed USFWS regional listing for this species. We also made other updates to the salmonid distribution and use data, began integration and review of a statewide hatchery facilities layer, began to move old resident fish distribution data into the spatial data library, and started cleanup work on the lakes information tables.

Systems Development

The SaSI98 stock status and reporting system development was completed for Windows 95/98, except for user documentation and help files. Existing SaSI data were restructured to fit the new model, which is flexible enough to meet current extended needs that weren't evident in 1992. Exchange formats for all data categories were reviewed in conjunction with other regional StreamNet staff, with special attention paid to the usefulness of current versions of certain formats for capturing resident fish data.

Spatial
The "StreamNet" menu-based data release and mapping system was updated to allow dBASE format exports, bull trout and cutthroat trout distribution data maps, and prototype lakes data access. SaSI stock-related presence data was integrated with our standard species-based "distribution/use" data and reviews of the "fit" are on-going. A program generating simple township-based presence reports for all priority fish species in Washington was also added to this system. Digitizing routines that support spatial data entry onto streams layers were updated to provide data entry and subsequent mapping into lakes on a trial basis, to support the westslope cutthroat urgent need.

DATA REQUEST/RESPONSE LOG

WDFW StreamNet staff record both spatial data and tabular data requests in a similar format. The cooperation of Habitat Management Program staff was instrumental to both compilation and standardization of information concerning spatial data requests, or "data releases". Over 150 data requests that use some of the StreamNet-developed spatial layers (hydro, barriers, facilities, or fish distribution/use) were filled by these staff during this reporting period, but are not listed here. More specific requests for StreamNet data products and services are handled directly by the StreamNet staff listed at the beginning of this report.

The table on the following pages (Appendix A) summarizes the people who made these more specific requests, the type of information they needed, and the date the information was delivered by StreamNet staff during this project reporting period.

Requestor	Organization	Data Requested	Date Delivered
Dick O'Connor	St.Michael School	General Fish and Wildlife maps	10/05/1998
Tom Owens	WDFW	HUC map 17110011- Coho	10/05/1998
Bill Zook	WDFW	10 Statewide Resident Fish maps	10/10/1998
Tom Johnson	WDFW	WRIA 15 for all species	10/13/1998
Tom Owens	WDFW	HUC 17100103 PHS	10/14/1998
Don Haring	WA Conservation Commission	WRIA 13-all species	10/15/1998
Ken Williams	WDFW	Westslope Cutthroat For E. Washington; several maps	10/15/1998
Steve Meyer	WA Conservation Commission	Streams with Critical or Depressed SaSI stocks by county	10/26/1998
Robert Kope	NMFS	Columbia River Chum Data	10/27/1998
Maggie Bell- McKinnon	DOE	Lakes with salmon/anadromous fish in them	10/30/1998
Robert Woodard	WDFW	Complete copy of Oldrel.db (Historical Hatchery Releases database)	11/04/1998
Don Haring	WA Conservation Commission	8 user defined steelhead maps of assorted WRIA's	11/09/1998
Olaf Langness	WDFW	Historical hatchery returns for Lower Columbia Hatcheries.	11/09/1998
Jenny Lang	Nature Conservancy	ESA-state maps poster, Bull trout statewide map	11/10/1998

Virginia Neff	WDFW	WRIA 32,33	11/10/1998
Ken Williams	WDFW, Region 2	Statewide Historical Hatchery Cutthroat Releases	11/19/1998
Wolf Dammers	WDFW	Cedar Creek trap counts and Gorley Creek Trap Counts.	11/19/1998
Roger Ramsdell	DNR	Washington state hatcheries: name, owner, TRS	11/24/1998
Sara Breslow	UW PNW Coastal Ecosystems Reg. Office	StreamNet Online basic navigation, results interp.	12/04/1998