

# *StreamNet Quarterly Progress Report*

(January - March 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*

*StreamNet Library References Module:* Cataloged 34 new StreamNet documents

*Textworks catalog:* 482 new records were cataloged on OCLC and added to the library catalog; 570 records were either edited or deleted during a clean-up/edit effort

### *Collection Management*

*IAMSLIC duplicate exchange program:* received 85 needed journal issues and technical reports; prepared annual list for distribution to exchange members and shipped over 20 boxes of materials to other libraries.

Had further discussions with NPPC staff regarding the transfer of their library collection.

Processed and shelved cataloged materials; completed routine shelf-reads; prepared shelf-list and conducted comprehensive inventory of collection in search of errors to repair.

Renewed journal subscriptions which were not processed in the fall; initiated a few new subscriptions.

### *Services*

Continued to provide reference, online search, and interlibrary loan services (see statistics).

### *Meetings/Training*

Attended February StreamNet steering committee meeting (Gretta, Phil, Hilary)

Hosted Library Open House in January (Gretta, Krista) - event attended by approximately 25 people.

Continued to meet with CRITFC ESU committee to enable improved library support in this area (Krista)

Attended Oregon Library Association annual conference in March (Gretta)

### *Tribal Data Coordination*

Provided training on the StreamNet system to staff at Yakama. They will compile data for new trends and update existing trends as new counts become available.

Developed data entry system for Warm Springs migrant trap data. Contract is being finalized.

Prepared for Umatilla nad Nez Perce data compilation.

*Miscellaneous*

Wrote quarterly project report

Conducted interviews for Assistant Librarian Position; hired Lenora Oftedahl who began work on February 9, 1998.

Revised library web page.

**LIBRARY STATISTICS**

Reference requests: conservative estimate: 100 liberal estimate: 150  
(note: approximately 1/3 - 1/2 of reference requests do not get logged in detail)

Interlibrary loan requests: 37 borrows; 4 loans

Circulation: journals - 4, books, videos, maps and technical reports - 80

Photocopy usage: 800 - CRITFC staff; 560 - public/other agencies

**INFORMATION REQUEST LOG** (note: does not include most ILL requests)

Requestor	Affiliation	Nature of Request	Action
T. Murray and D.Geary	NE Community School	background materials for 4th-8th grade unit on salmon	Oriented to project, library, and website
Berkson, J.	CRITFC	ODFW wild fish policy	contacted Gloria and Cedric
Hopkins, I.	BioAnalysts Library	pages from 1945 document	faxed
Talbot, A.	CRITFC	background text on steelhead	provided
Evans, A.	CRITFC	article from conference	provided
Hans, K.	USGS-BRD	subject search/hatchery practices	performed and delivered
Hopkins, I.	BioAnalysts Library	subject search/ stocking sterile fish	performed and delivered
Fryer, J.	CRITFC	subject search - ocean growth/survival	performed and delivered
Stein, R.	public	TRP and CRITFC Annual Reports	provided for reading
Ellis, R.	consultant	CZES reports; fish transport documents	provided for reading

Rhodes, J.	CRITFC	document request	procured
"Mary and Kate" (7th-8th grade)	NE Community School	reference questions re: salmon run sizes	provided documents to read
Bayer, J.	USGS-BRD	1961 Fishery Bulletin	referred to Leetown (USGS) library
Gresch, T.	Interrain Pacific	reference question	answered
Hopkins, I.	BioAnalysts Library	reference question re: tribal fishing regulations, zone 6, 1957-1967	referred to CRITFE and tribal offices
Hahn, L.	OSU	reference question	answered
Scott, J.	NMFS	reference inquiry re: StreamNet	answered
Beeson, M.	GeoEngineers	to read Fish Consumption Survey	provided for reading
Olson, P.	PBS/DFO	WDFW report	not held, referred to NRB Lib in Olympia
Lee, G.	YIN	resident fish info on StreamNet	referred to Hilary
Lee, G.	YIN	requirements for H2O testing lab	referred to WA Dept of Ecol Quality Assurance Program
Roels, S.	CRITFC	Federal Register contents for 7 weeks	provided
Stone, R.	CRITFC	web assistance	provided
Stone, R.	CRITFC	reference request re: book	answered/referred
Hopkins, I.	BioAnalysts Library	image of juvenile chinook on web	not found
Fenker, J.	BPA Library	document request	not held
Gresch, T.	Interrain Pacific	assistance with NPPC reports	provided
Voeltz, B.	Nebraska Game and Parks	subject search: underwater fishing	provided
Mitchell, D.	Washington State Library	reference question	answered
Swanson, L.	NMFS	subject search: louvres, fish screens	provided
Hopkins, I.	BioAnalysts Library	citation verification	not found, referred to DFO in BC
Maxson, K.	Nova SE University Oceanographic Center	search for journal duplicates (Progressive Fish Culturist)	not found

Swanson, M.	Manitoba NR Lib.	reference request	referred to FW Reference Service
Watanabe, A.	CRITFC	document request	not held - referred to Jon Rhodes
Yoshinaka, M.	USFWS	document request	delivered
Porter, A.	Seattle University	reference question	referred to SU science lib'n
Kirk, V.	Nez Perce	article	sent
Kirk, V.	Nez Perce	citation clarification	done
Kirk, V.	Nez Perce	citation request	provided
Bowers, J.	Interrain Pacific	appt. to use library	assitance provided
Yuen, H.	CRITFC	problems with StreamNet website	worked with Duane, Henry, Brent to solve
Beaty, R.	CRITFC	reference question	answered
McClure, M.	CRITFC	reference question	answered
Martin, S.	Willamette Univ.	research inquiry	assistance and referral provided
Lear, J.	University of Idaho Law School	document request	lent via ILL
Shelley, C.	PSU	literature search / documents	provided both in-house
Hopkins, I.	BioAnalysts Library	info on ORULS	referred
Spencer, P.	NMFS - Tiburon	StreamNet document	provided
Fryer, J.	CRITFC	citation search	found reference
Strong, T.	consultant	document requests (5)	provided 3
Ory, J.	CRITFC	book requests	found and provided
Tinus, E.	ODFW	document request	provided
Chandler, D.	Grant County PUD	Corp report	not held
?	Nez Perce	StreamNet data inquiry	referred
Peterson, S.	CRITFC	StreamNet document	located
Moller, C.	PSU	research assistance	provided
O'Leary, K.	PSU	term paper research	referred
Taki, D.	Sho-Ban	StreamNet document	located and offered
Berkson, J.	CRITFC	Science Citation search	provided
Yuen, H.	CRITFC	reports form WDFW	requested
Decker-Hess, J.	MFWP	assistance with cataloging/database issues	provided

Hopkins, I.	BioAnalysts Library	subject search/ double handling and mortality	provided
Crow, J.	CRITFC	data request	coordinated w/ Duane and Henry
Ory, J.	CRITFC	subject search/ drop structures	provided
Peterson, S.	CRITFC	new document request	provided from WWW
Jordan, L.	CRITFC	reference request - Federal register	provided
Berkson, J.	CRITFC	reference assistance - document procurement: Colorado endangered species	requested and received
Netto, J.	CRITFC	reference question	answered
Backman, T.	CRITFC	reference question	answered
Jordan, L.	CRITFC	document request	located
Taki, D.	Sho-Ban	assistance with library usage	provided
Gresch, T.	Interrain Pacific	document request	located and provided in-house
Hopkins, I.	BioAnalysts Library	CRITFC doc request	mailed extra copy
Jonason, O.	Oregon DEQ Library	subject search: Lahontan cutthroat and redband trout	provided results
Heinith, B.	CRITFC	rush document needed	advised of local locations for it (not held here)

## **II. Idaho Department of Fish and Game**

### **PERIOD HIGHLIGHTS**

Completed 1997 anadromous fish data updates.

Completed initial draft of spawning ground report.

Coordinated with MIS personnel in the development and distribution of the most recent version of the Standard Stream Survey (SSS) Database and data entry program. Tested and debugged the program. Began entering data on transect locations. Data will be stored in a centralized Oracle database. Data will include juvenile abundance, fish distribution and aquatic habitat information.

Completed conversion of bull trout distribution to dynamic segmentation. Provided shape files to StreamNet regional GIS Coordinator.

Began development of lakes database and data entry program. Moving species codes and reference tables to central Oracle database. Geographic referencing in database is closely linked to GIS and StreamNet? s 1:100,000 hydrography layer.

Matched approximately 400 lakes with their corresponding Fish and Game catalog number.

Provided StreamNet and SSS update to IDFG Anadromous fish managers at their annual meeting in January.

Coordinated with Snake River Resources Review program to enter last section of the Snake River historical waterfowl data.

Met with IDFG General Parr Monitoring personnel to review and provide final edits to SSS database and entry program.

Met with IDFG Fisheries Bureau personnel, to review and discuss data needs.

Completed entry of 1940-1966 historical stocking data. Began editing.

### **PLANS FOR NEXT QUARTER**

Provide test Juvenile Abundance dataset to Regional Data Manager.

Complete edits of 1940-1966 historical stocking information.

In coordination with SR3 program, finish entry of historical waterfowl data.

Review Idaho portion of regional 1:100,000 hydrography layer.

Review Smolt Capacity data on the StreamNet homepage. Update if necessary.

Continue to work on getting Redband/Rainbow and Cutthroat distribution information to StreamNet regional GIS coordinator.

Continue work on barriers information.

Continue work on lakes database and entry program, and tie to StreamNet 1:100,000 layer.

Continue routing unnamed streams.

Continue data entry into Standard Stream Survey database.

Begin entering non-BPA project data into Projects Database.

### DATA REQUESTS

Record#	End_date	User_org	Supplier	Data_type
229	01/12/98	IDFG: Fisheries Bureau	Elms	Redd Counts
240	01/22/98	Plum Creek Timber Co	Butterfield	fish distribution data
241	01/22/98	IDFG	EB,Hartpence	5 graduated maps;SALRSF,
242	01/27/98	CH2MHILL	Butterfield	rare fish distributions
243	01/27/98	Boise NF	Butterfield	bull trout key watershed
245	01/30/98	IDFG	Butterfield	map of bull trout dist
246	01/30/98	IDFG	EB,Hartpence,Elms	SULFRC,LEMHIR strata,tra
249	03/26/98		S.Brown/L.Hartpence	River mileage
250	03/26/98	USDAFS-PAYE TTE NF	EB	bulltrout for lwr Salmon
251	04/20/98	IDFG	EB	EPARR# Hell's C-Shoshone
252	04/13/98	IDWR	Hansen	Protected Areas Info



### **III. Montana Department of Fish, Wildlife & Parks**

#### **Period Highlights**

##### *Resident Fish*

Continued to update resident fish data including distribution, natural production and survey records through the review of the Stream Assessment and Rating. Have received all but 4 biologists reviewed information back and began inputting into the computer.

Updated the Bull Trout GIS coverage to reflect the state and federal biologists 1997 bull trout updates. Will distribute data to US Fish & Wildlife Service (Portland, OR), and Plum Creek Timber Co. (Columbia Falls, MT).

Created a program in Access for the data entry and reporting of Unauthorized Fish Introductions for the state. Existing GIS data layer was cross-referenced to the tabular data using a unique ID for each introduction.

Continued to receive and input electrophoretic results from the University of Montana Genetics Lab.

Created a coverage of survey sections from FWP and USFS fisheries biologist input.

Met with Front Desk Software to discuss the restructuring of the MRIS Edit/Entry Program. Reviewed layout with StreamNet Steering Committee at February meeting.

Produced regional and statewide Fisheries Biologist Responsibility Area maps. These maps display public land ownership, hydrography, hydrounit boundaries, and regional boundaries. Allow for the identification of biologist area for update purposes.

##### *Habitat*

Completed the update of Bull trout Restoration/Conservation Areas; digitized the Nodal Areas and named the Core Habitat Areas. Used the GIS to itemize the acreage of the various public land ownership types within each Core Habitat Area and summarize them by Restoration/Conservation Area.

Began discussions with FWP Biologists concerning a Standardized Stream Survey Form to include core habitat variables; will draft a version to distribute next quarter.

##### *Facilities*

Modified regional Fishing Access Sites maps for FWP brochure; publishing occurred in March with StreamNet logo on brochure.

### *Aquatic Mitigation and Restoration Projects*

Met with Mark Lere, Future Fisheries Program Coordinator, to discuss creating a tabular database for the Future Fisheries/Restoration Database to store project information and location data that could be plotted using GIS. Mark used the regional dataset created by StreamNet staff in Idaho for his version. Met with Mark and Brad Shepard, FWP Future Fisheries Biologist, and compared Brad's data base with Mark's and created a draft data structure for Jeff Hutten to create an edit/entry program in Access. Met with FWP Region 1 BPA Mitigation staff to discuss inclusion of their mitigation projects into same dataset. They were interested.

### *Data Reference*

Hired temporary employee to enter Fisheries Division Library documents into an InMagic program. Worked with Duane Anderson and Gretta Seigal to be standardized with StreamNet databasae, protocols to writing abstracts, obtained StreamNet reference numbers for Montana and received general guidance for the temporary employee. 200 records have been entered to date; work progressing smoothly. FWP Fisheries Division supporting project by providing work location in Helena, operations support and technical information on various documents.

### *Wildlife*

Generated spatial data using Arc/Info's relate environment and report of lynx occurrences by year and county from Wildlife Division's tabular data. Also generated summary report of frequency of lynx occurrences per year by county. The data were generated using the Public Land Survey System (township, range, and section) GIS layer.

Began final stage of WMA atlas map production. Completed and plotted all maps and township, range and section mylar overlays. Began assembling regional and statewide atlases. Atlases will be complete by mid-April. Will scope information gathering process for tabular report with Wildlife Managers.

### *Data Management*

Completed metadata (data about data) to be compliant with standards established by the Federal Geographic Data Committee (FGDC) for half of the GIS layers created and maintained by FWP GIS Unit. Will complete next quarter.

### *River Reach System*

Made progress on attaching LLID to western Montana stream hydrography. Met with USFS fisheries biologists/GIS staff working on creating their own system. Coordinated these parallel efforts by receiving a HUC from them, cleaning it up and sending it to Matt Fried. Will evaluate process next quarter and move forward on assigning LLIDs.

### *Data Delivery*

See attached Data Request Log.

Reviewed modifications and enhancements to StreamNet web page.

### *Project Management/Coordination*

Lydia Bailey presented at the March GIS Seminar, program coordinated by NRIS. The seminar covered StreamNet's methods for creating spatial data from historic, traditional tabular datasets by using the township, range, and section values and river reach numbers stored in these data sets.

Was asked to give a talk on StreamNet at the Montana/Idaho GIS User's Conference in Butte at the end of April. Provided abstract to conference organizers.

Attended FWP Fisheries Division meeting in February and participated in poster session with StreamNet display. Provided various GIS products to participants.

### *NRIS*

Met with the MRIS project director to discuss developing interactive map applications to support several FWP projects, including MRIS. MRIS data from the Ruby basin will be used in one of the prototypes. Provided a presentation to teachers and citizens at Volunteer Water Monitoring workshops. Provided a presentation on data sources access by NRIS and on the US EPA Basins Compact Disk product to several classes of the U of M Environmental Studies Program. Presented a tour of the NRIS web pages at this years Montana Environmental Education Association Conference at Fairmont Hot Springs. The contract to support the Upper Clark Fork Steering Committee watershed planning efforts was signed during the reporting period. Impaired stream information from the MRIS data base will be used to support the project.

## REQUESTS FOR MONTANA STREAMNET DATA

- PP Request for MRIS reports and threatened & endangered species, fragile and sensitive species and habitats, unique scenic and geology for three bore hole for Red Lodge area.
- USFS Request for any hydrologic info for 43 - 7.5 minute quads in Montana to fill in gaps in the Forest Services CFF's. Sent e-mail referring Wendy to our MRIS webpage.
- PP Request for fisheries info for North Fork of the BlackFoot River. - RR#'s 0580000, 0580010, 0580020, 0580030.
- PP Request for information on the 'best' fishing sites in Montana. Used Fisheries map on our website to locate streams and reach #'s of interest and produced a full stream report for three different locations.
- PNP Request for fisheries resource and water quality values for five different properties on or near where conservation easements.
- A Email request for help with MRIS, BASINS and asking for help to link them to a new website.
- PP Request for any available water quality, fisheries and habitat info for the Marysville-Silver Creek area.
- SDNRC Request for any fisheries information on Krohn Lake area on the Silver King Mountain Quad.
- F-USGS Request for direct access to MRIS. NRIS staff completed a full report for the patron.
- F-USFS Requested full stream reports for all of Nevada Creek and all its tributaries flowing into the Helena National Forest.
- A Requested stream reach, & other basic information for Butler Creek just of Missoula.

## **IV. Oregon Department of Fish and Wildlife**

### **Period Highlights**

Complete the coho distribution reconciliation for the Siltcoos, North Umpqua, and Chetco HUC's. (Forsberg; Task 1.1).

Proposed modifications to the StreamNet Barriers database and submitted 8 sample records. Included were electronic photos of the barriers. Slight changes to the Map Catalog exchange format were also proposed. (Donaghy Cannon; Task 1.1).

Verified and/or updated over 300 trends in the adult abundance database with available 1996 estimates and provided to PSMFC. (Cooney, Donaghy Cannon; Task 1.1)

Created 2,174 new trends from 1996 Oregon coastal coho spawning survey data and proposed several database exchange format modifications that would allow additional information display and improved query capabilities. (Donaghy Cannon, Cooney; Task 1.1)

Finished compiling spawner-recruit estimates for spring chinook index populations in Idaho, Oregon, and Washington and submitted to PSMFC. (Tinus; Task 1.1)

Updated various fish distribution coverages as part of the Oregon Division of State Lands essential salmon habitat identification efforts. (Forsberg; Task 1.3).

A total of 8 data, 61 document, 11 map/GIS related, and 6 other requests were answered during this quarter. (All staff; Task 5.1)

Reviewed and commented on new or modified StreamNet Internet features. (Cooney, Donaghy Cannon, Forsberg; Task 5.2)

Continued to negotiate with Human Resources on the Information Systems Specialist reclass appeal for ODFW StreamNet GIS Specialist. (Cooney; Task 6.0)

Hired Misty Donaghy Cannon to fill our tabular data assistant position. (Cooney; Task 6.0)

Attended 2 Oregon Plan coordination meetings. (Cooney; Task 6.2)

One or more staff members participated in 4 essential project coordination meetings. (Cooney, Donaghy Cannon, Forsberg; Task 6.2)

Compiled and developed quarterly report information for Oregon. (Cooney; Task 6.3)

Attended National Freshwater Fisheries Database Summit in San Diego California. (Cooney, Task 6.5)

Attended the Oregon Chapter AFS Meeting Feb 11-13 in Sunriver. (Donaghy Cannon, Forsberg; Task 6.5)

### **Plans for Next Quarter**

Finalize coverages illustrating historic spawning distribution of spring chinook, fall chinook, and coho salmon in OR portions of the Columbia basin and provide to PSMFC. (Forsberg; Task 1.1)

Convert all coastal coho distribution event tables into StreamNet format and provide to PSMFC. (Forsberg; Task 1.1)

Reach agreement on proposed Barriers data exchange modifications and submit an event table of Oregon barriers. (Cooney, Donaghy Cannon, Forsberg; Task 1.1)

Provide updated adult abundance estimates and indices for anadromous species with available 1996 and 1997 data. (Cooney, Donaghy Cannon; Task 1.1)

Reach agreement on proposed Abundance data exchange modifications and submit new coastal coho spawning survey data . (Cooney, Donaghy Cannon; Task 1.1)

Provide 1996 age frequency data for natural spring chinook. (Tinus, Cooney; Task 1.1).

Provide finalized LLid-IBM Code cross-reference to PSMFC.(Forsberg; Task 1.4)

Continue the hiring process for ODFW StreamNet GIS Specialist. (Cooney, Schmidt; Task 6.0)

Complete the hiring process to replace our tabular data assistant. (Cooney; Task 6.0)

Continue to answer information requests as received. (All, Task 5.1).

### Data Request/Response Log

DATE	REQUESTER	ORGANIZATION	REQUEST	Who Responded
1/5/98	Scott Cressey	IMI	2 documents	Gloria
1/5/98	Diane Bidy	Public, California	document	Gloria
1/5/98	Jim Lichatowich	Alder Fork Consulting	2 documents	Gloria
1/5/98	Steve Cramer	S.P.Cramer & Assoc.	8 documents	Gloria
1/6/98	Don Bennett	ODFW - Clackamas	Large species maps for the Sandy Basin	Forsberg
1/7/98	Bob Stuart	EVS Consultants	3 documents	Gloria
1/7/98	Judy	Will. Univ. Library Acquisitions	document	Gloria
1/8/98	Director Greer	ODFW	Large WRD Basin map with 250k rivers for meeting	Forsberg
1/8/98	Director Greer	ODFW	Large map of ODFW Fish Districts with WRD Basins and Hydro Units	Forsberg
1/9/98	Ron Costello	Harza Engineering, Washington	3 documents	Gloria
1/13/98	Pricilla Coe	ODFW NE Region	Boundary coverages for ODFW regions, fish districts, HUCs, and WRD Basins	Forsberg
1/13/98	Steve Jacobs	ODFW Corvallis Lab	Postscript files of Coho Survey map compositions.	Forsberg
1/15/98	Pricilla Coe	ODFW - NE Region	Wildlife District coverage	Forsberg
1/15/98	Dan Edwards/Don Whittaker	ODFW - Wildlife Div	Wildlife District coverage	Forsberg
1/15/98	Kia Collins	Aquaculture Research Institute, Moscow, ID	2 documents	Gloria
1/15/98	Sean Darey	Confederated Tribes of Grande Ronde	document	Gloria
1/15/98	Natalie Richards	Hydraulic Eng Fed Highways, Vancouver, WA	document	Gloria
1/20/98	Krista Shauer	CRITFC StreamNet Library	4 documents	Gloria
1/26/98	Bob Ruediger	BLM, Salem	document	Gloria

1/26/98	Stan Kahn	Public, Astoria	document	Gloria
1/27/98	Mark Lewis	ODFW - Corvallis-lab	Coverages for cities, hucs and hatcheries.	Forsberg
1/27/98	Jose Setka	EBMUD, F&W Div, Orinda, Calif.	2 documents	Gloria
1/27/98	David Swendseid	Public, Aloha, OR	document	Gloria
1/29/98	Nick Gayeski	Washington Trout	2 documents	Gloria
1/29/98	Sue Visser	Hagler Bailly, Inc., Library Boulder, CO	document	Gloria
1/30/98	J. Scott Foott	Fish & Wildlife Service, Anderson, CA	document	Gloria
1/30/98	D.B. Lister	D.B. Lister & Assoc., Ltd., Chillawack, B.C., Canada	3 documents	Gloria
1/30/98	Robert Russell	Public	Document	Gloria
1/30/98	Dr. Siddeek	Private	document	Gloria
2/6/98	John Colby	Coos Watershed Assoc.	Salmon Plan Core Area Map for Coos	Forsberg
2/11/98	Bruce Baker	WDFW, Olympia	document	Gloria
2/12/98	Dan Con	Public	2 documents	Gloria
2/12/98	Patrick C. Trotter, Ph D	Consultant, Seattle, WA	document	Gloria
2/12/98	James R. Harbeck	Dept F&W, Michigan State Univ.	document	Gloria
2/12/98	Tom Kahler	FRI, U of W, Seattle	5 documents	Gloria
2/12/98	Ann Blakley	WDFW, Olympia, WA	2 documents	Gloria
2/13/98	Mr. Dana Atagi	Ministry Env, Lands & Parks, Smithers, B.C., Canada	2 documents	Gloria
2/17/98	Gordon Miller	Fish & Oceans, Nanaimo, B.C., Library	inquiry	Gloria
2/18/98	Mike Sanchez	PEAK, Corvallis	document	Gloria
2/19/98	John Rancher	Public	8 documents	Gloria
2/20/98	John Hawksworth	S.P. Cramer & Assoc.	8 documents	Gloria
2/26/98	Steve Fick	Fishhawk Fisheries	Spring chinook productivity indices	Tinus
2/27/98	Brian Walters	Student, Galveston, TX	document	Gloria
3/3/98	Susan Hughes	librarian	document	Gloria
3/4/98	Brian Caviness	Consultant to Oregon City	Anadromous Fish Distribution in Sandy Basin ... directed to ORIS & INFO data on ODFW FTP site.	Forsberg
3/4/98	Gary Christofferson	PSMFC	Correct ODFW IBM codes for certain streams	Forsberg
3/4/98	Susannah Iltis	UofW Research Group, Seattle	document	Gloria
3/4/98	Bob Ryan	public	document	Gloria

3/5/98	Gordon Miller	Fish & Oceans, Nanaimo, B.C., Library	inquiry	Gloria
3/5/98	Mark Smyth	Nature Conservancy	document	Gloria
3/6/98	Julie Firman	ODFW - Corvallis lab	Corrected Coho data files and final maps for Upper Rogue, Middle Rogue, Applegate, & Illinois Basins	Forsberg
3/6/98	Barb Taylor	PGE	4 documents	Gloria
3/6/98	Tukes Munthali	Accents, Silver Spring, MD	document	Gloria
3/9/98	Nancy Leibowitz	ODFW - NW Habitat. Bio	Comparison between OSIS & ORIS for reviewing permits	Forsberg
3/10/98	Eric Metz	DSL	Missing coverages for Winter & Summer Steelhead, Spring & Fall Chinook, and Coho from event tables - put on FTP site.	Forsberg
3/10/98	Serials Dept.	Univ. of Idaho, Moscow	3 documents	Gloria/to Karla @Corvallis
3/11/98	Seth Tauriainen	student, Nikiski, AK	2 documents	Gloria
3/11/98	Sue Ludeman	PA Library	6 documents	Gloria
3/12/98	Steve Cramer	S.P. Cramer & Assoc.	document	Gloria
3/13/98	Dave Daily	private	document	Gloria
3/13/98	Chuck Lang	private	document	Gloria
3/13/98	Ted Williams	S.P. Cramer & Assoc.	2 documents	Gloria
3/16/98	Ray ???	DSL - Permits	Wanted in-water work timings for several projects...referred to ODFW web site.	Forsberg
3/16/98	Steve Jacobs	ODFW - Corvallis	Dbase files of corrected final coho data and maps for Siltcoos, N. Umpqua, and Chetco basins	Forsberg
3/17/98	Norma Jean Sands	Alaska F & G, Juneau	document	Gloria
3/17/98	Diane Mitchell	NRB Library, Wash St. Library	3 documents	Gloria
3/18/98	Julie Firman	ODFW - Corvallis	Dbase files of corrected final coho data for N Umpqua & Chetco basins	Forsberg
3/18/98	Mary Barczak	Hebo Ranger Station	document	Gloria
3/18/98	Steve Cramer	S.P. Cramer & Assoc.	8 documents	Gloria
3/18/98	Earl Webber	CRITFC	document	Gloria
3/18/98	Sandy Dunn	BLM, Anchorage, AK	document	Gloria
3/18/98	S.J. Westrheim	private, B.C., Canada	document	Gloria
3/19/98	Julie Firman	ODFW - Corvallis	Dbase files of corrected final coho data and map for Siltcoos basin.	Forsberg
3/19/98	Phaedra Budy	USFWS	Mainstem exploitation and conversion rates of URB and SRB stocks	Tinus
3/19/98	Phaedra Budy	USFWS, Vancouver	3 documents	Gloria



3/19/98	Mary Barczak	Hebo Ranger Station	document	Gloria
3/19/98	Gordon Miller	Fish & Oceans, Nanaimo, BC, Library	2 documents	Gloria
3/20/98	Charlie Corrarino	ODFW - Fish Division	ORIS printout of Recreational resources of boating and fishing rivers per basin.	Forsberg
3/20/98	Ray Beamesderfer	ODFW-Clackamas	Proportion at age of Deschutes River fall chinook.	Tinus
3/20/98	Marv Yoshinaka	USFWS, Wash.	6 documents, in library search	Gloria
3/21/98	Marv Yoshinaka	USFWS	2 electronic documents	Gloria
3/24/98	Steve Cramer	S.P. Cramer & Assoc.	31 documents, in library search	Gloria
3/25/98	Steve Cramer	S.P. Cramer & Assoc.	3 documents	Gloria
3/25/98	Peggy Busby	NMFS, Seattle	3 documents	Gloria
3/26/98	Ted Williams	S.P. Cramer & Assoc.	45 documents	Gloria
3/27/98	Steve Cramer	S.P. Cramer & Assoc.	7 documents	Gloria

### StreamNet GIS Data Downloads off the ODFW FTP Server

<b>GIS Coverages</b>	<b>Number of Files Downloaded</b>	<b>Number of Different Users Downloading Files</b>
Fall Chinook	113	3
Spring Chinook	117	3
Chum	30	4
Coho	69	4
Winter Steelhead	107	4
Summer Steelhead	106	3
Oregon Rivers Information System	119	23
Routed Streams	459	24
Coastal Salmon Plan Core Areas	327	153
Misc. other coverages	19	12

## 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.

#### Data Management

Incorporated major data updates from WDFW.

Incorporated 650 photographs into the online system.

Incorporated region-wide anadromous distribution coverages and bull trout coverages. Also incorporated resident salmonid coverages for western Montana.

Incorporated new Oregon escapement data.

Revised the StreamNet data holdings document.

Revised the StreamNet data exchange format document.

Prepared GIS coverages of major dams for posting to the web site.

Prepared prototype GIS coverages of the Umatilla Basin including data from subbasin planning and Fish and Wildlife Program enhancement projects.

#### Library/Reference System

Assisted CRITFC in preparing for and implementing the transfer of the NWPPC collection.

Assisted the library in holding an open house.

#### River Reach System

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

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

Maintained frequent contact with the national NHD team.

Maintained and revised the StreamNet 100K web site feature.

### Data Delivery

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

Continued update and maintenance of other features in the StreamNet web site.

Revised the StreamNet map catalog by drawing links to adhoc mapping features.

Refined a test version of a new data query system.

Added to the StreamNet home page an explanation of the various features included in the home page.

Enhanced the education portion of the StreamNet home page by adding two new children's features and enhancing other Fish Facts features.

Added approximately 50 terms to the fish resource glossary.

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 (summary attached).

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.

Responded to data requests (attached).

### Project Management

Monitored and participated in project selection activities.

Held coordination meetings with NWPPC and CBFWA staff.

Scheduled and held the March Steering Committee meeting.

Made contact with project coordinators via telephone on at least a weekly basis.

Reviewed sub-contractor invoices and prepared BPA invoices.

Coordinated with BPA on administrative matters relevant to StreamNet.

## **PLANS FOR NEXT QUARTER**

### Data Development

Continue to coordinate data development by participating agencies.

Enhance the StreamNet glossary.

### Data Management

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

Consult with BPA, NWPPC, and CBFWA regarding an online version of the FY99 Annual Implementation Work Plan. Prepare an online product based on these discussions.

Enhance the visual appeal of the StreamNet Internet site by inserting appropriate images at the beginning of the various web site features.

### Library

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

Cooperate with library staff in updating source references.

Assist library staff in completing transfer of the NWPPC collection. (NWPPC was able to transfer only a portion of the collection in the January to March time period.)

### River Reach System

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

### Data Delivery

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

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 June 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.

## DATA REQUESTS / RESPONSE LOG

Last Name	First Name	Company	Non Standardized Request	Date of Request	Response Date
McKenzie	Stuart		Temperature data from Aspen mainstem temp/gas database	01/05/98	09-Jan-98
Smith	David L.		Ascii version of damcount data	01/09/98	16-Jan-98
Ellis	Bob		Weekly dam counts at BON, 94-96 - Boncount.dbf	01/20/98	20-Jan-98
Boyce	Ron	Oregon Department of Fish and Wildlife	Total steelhead releases in the Snake River - SNAKEREL.XLS	01/22/98	23-Jan-98
Roger	Phil	Columbia River Inter-Tribal Fish Commission	Spreadsheet of total miles by use, by hab qual for 2 species in 3 subbasins - HABMILES.XLS	01/22/98	22-Jan-98
Paquet	Peter	Northwest Power Planning Council	Protected areas report for McKenzie Basin	01/29/98	29-Jan-98
Ashe	Becky	Nez Perce Tribe	SDM data for Su St in the Imnaha - imnasust.xls	02/02/98	02-Feb-98
Harlan	Lisa	Washington Department of Fish and Wildlife	Total hatchery releases in the Columbia River Basin - harlan.xls	02/04/98	04-Feb-98
Hatch	Keith	Columbia River Inter-Tribal Fish Commission	Dist. maps for spring and fall chinook in various CR Basins	02/04/98	04-Feb-98
Richards	Steve	Washington Department of Fish and Wildlife	Fish Images	02/09/98	09-Feb-98
Gebhards	John	Nez Perce Tribe	SDM data for Salmon basin - Salm_sdm.xls	02/25/98	25-Feb-98
Bisbal	Gustavo	Northwest Power Planning Council	Map showing select list of hatcheries where BPA funds CWT activities	03/03/98	05-Mar-98
Gordon	Sloan	Beak Consultants, Inc.	Steelhead release data from ODFW historical dataset (prelim) st_rel.xls	03/05/98	05-Mar-98
Cramer	Steve	S. P. Cramer & Assoc.	ODFW hatchery and species codes from historical hatchery release database	03/06/98	06-Mar-98
Cramer	Steve	S. P. Cramer & Assoc.	files spcall.xls and spc4748.xls	03/27/98	27-Mar-98

FTP Activity for 1st  
Quarter, 1998 (Jan -  
Mar)

Fish Facts	284.1	520
Static Maps	302.1	851
NWPPC Project Data	1.9	4
Project Management Files	93.6	141
Reach Files	520.9	601

WEB Site Activity  
for 1st Quarter, 1998  
(Jan - Mar)

Total Hits	322,026
Total MB	1,943.31
Daily Avg Hits	3,578
Daily Avg MB	21.59

## **VI. Shoshone-Bannock Tribes**

### **PERIOD HIGHLIGHTS**

Confirmed that the University of Idaho will allow StreamNet the use of all of their genetic data. Since this is a new category a data exchange format will have to be developed and Duane is already working on it. I attended the quarterly meeting in Gladstone. The rest of my time was spent reviewing the new additions to our site as well as suggestions for changes.

### **PLANS FOR NEXT QUARTER**

Continue pursuing genetic information. Now that one lab has supported us my priority will be to catalogue streams that have been sampled and ask (again) for more data from other labs.

### **DATA REQUESTS / RESPONSE LOG**

No requests were received during this quarter.

## **VII. U.S. Fish and Wildlife Service**

### **Period Highlights**

Some progress was made in understanding the StreamNet exchange format for return information. Further effort will be required to produce a reliable method of producing information in this format.

Attended the Steering Committee meeting in Gladstone.

Several Fish & Wildlife employees report frequent use of the StreamNet library and map functions. Dam count information was also accessed this quarter.

### **Plans for Next Quarter**

Continue translating return information to the exchange format.

### **Data Request/Response Log**

There were no data requests filed by the USFWS during the quarter.



## VIII. Washington Department of Fish and Wildlife

### Period Highlights

#### *General*

The Steering Committee met once at PSMFC (February 23-24) and twice via conference call. We found the calls a very productive use of time and much cheaper than travel expenses. At the February meeting, Dick led a discussion on stock status (health) data and data sharing potential, based on Washington's work on the Salmonid Stock Inventory (SaSI). The calls were used to give input to next year's draft plans and to clear up some personnel assignment confusion, as WDFW's long-time CBFWA representative took a position at NMFS.

We spent some time in follow-up, both at the February meeting and in subsequent calls, to continue to monitor data coordination opportunities with people collecting data in the Yakima Basin. WDFW has Yakima Basin studies originating in at least two field offices, in addition to tribal work and the WDFW headquarters staff working on the research hatchery. Future work with Hilary Forrest of CRITFC (who helped organize the tribal datasets) is planned for next quarter. We recruited and hired Mark Henry, long-time WDFW hatchery manager, to replace Brodie Cox to work on hatchery-related data, so our compiler staff is back to full strength.

Dick attended the National Freshwater Fisheries Database Summit in San Diego February 9-11. Duane Anderson (PSMFC) gave a StreamNet Online live presentation at the Monday night show-and-tell, and both Dick and Cedric Cooney (ODFW) assisted in answering questions. While there, Dick participated as reporter for the Data Access Issues Group.

#### *Database Development*

Tabular. Emphasis this quarter was on adult returns data, both natural spawners and hatchery returns. Bob took over the statewide natural spawners data compilation that Brodie Cox had started for us, and spent time organizing electronic data and keying in some paper records for data prior to 1997. He also completed compilation and verification of the 1997 spring chinook natural spawner data below McNary Dam, and has completed initial compilation of 1997 fall chinook data for the lower Columbia. Leslie concentrated on determining the outstanding data integrity issues with 1981-1994 steelhead hatchery stocking data, and presented a detailed report to one of the WDFW biologists for his guidance. It appears many of the discrepancies will have to be settled by Leslie's best judgement, as the paper record trail is often non-existent. Mark and Sarah worked on pre-1981 hatchery stocking data entry; Sarah finished the initial entry (a several month chore!), and Mark has begun doing spot checks for verification.

Spatial. Most of Cindy's time was spent in data entry and attachment of old data to a new GIS layer of Washington lakes. When completed, the lakes that are visible on 1:100,000 resolution maps (USGS 15-minute equivalent) will be pulled into the 100K stream layer to enhance Washington's hydro layer. Cindy also coordinated the addition of summer chinook distribution and use data in some overlooked areas of Washington and responded to a series of map and data requests.

#### *Systems Development*

Tabular. Larry made some minor changes to the "B11" internal data management system our compilers use for data that will be exchanged with StreamNet. He also spent some time on the design of some new needed features for version "B12" and is exploring the Delphi programming language as a means of migrating his systems to more advanced Windows-based platforms.

Spatial. Martin identified and corrected several small errors in the 100K stream layer using his new, thorough checking routines. The corrected reach files were sent to PSMFC for regional review. He wrote programs to transfer and check all of the anadromous presence and use data to the new reach files, and began testing the transfer of resident fish presence data (starting with bull trout). The lakes data entry system he built to support Cindy's work was enhanced to perform careful checks by county to find overlooked or missing lakes. He also added a feature to generate IRICC standard Lat-Long ID (LLID) codes when dumping the data to an ASCII file. *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". The table on the following pages (Appendix A) summarizes the people who requested data, the type of information they needed, and the date the information was delivered as part of the StreamNet project during this project reporting period.

Most of the data requests fulfilled during this time period were spatial data requests (generally maps and digital data). Lori Guggenmos and Terry Johnson of the Habitat Program spent a good deal of time handling these requests that use StreamNet-generated GIS layers. However, internal WDFW re-organization and budget adjustments will begin to transfer much of the data request handling over to StreamNet staff, which may affect the number of requests handled next quarter until we can get our staff up to speed.

We note that ftp access to data remains an increasingly preferred option, as many users find electronic transmission of data quicker and more convenient than the standard method of exchanging tape cartridges.

Requestor	Organization	Data Requested	Date Delivered
Andrea Escame-Hedger	King County Road Services Div.	Dorre Don Cr. and 244th Ave SE-replacing existing culvert	01/06/1998
Bob Gietz	WA Military Dept Emergency Mgt.	Proposed project South Whidbey State Park within T30N R02W section 29	01/06/1998
Crilly R. Ritz	Snohomish County Public Works	SEPA/EIS for road improvement project on 112th St SW in south Snohomish Co.	01/06/1998
Gary R. Beeman	WA Dept Of Transportation South	SR 90 Highline Canal to Elk Heights	01/06/1998
Hugh Mortensen	The Watershed Company	Proposed commercial retail development within T26N R06E section 24	01/06/1998
Nancy M.	WA Dept Of	Various proposed state highway	01/06/1998

Requestor	Organization	Data Requested	Date Delivered
Thompson	Transportation North	improvements	
Nathan Pate	Whitman County	Dan Antoni short plat within T14N R44E section 16	01/06/1998
Peter C. Blansett	SA Newman Forest Engineers Inc.	Potential acquisition appraisal for WA State Parks and Rec.	01/06/1998
Rosanne Peterson	City Of Vancouver	Flood repair work within T04N R02E section 22	01/06/1998
Steven Wolfe	Woodward-Clyde	Environmental study for WA National Guard at Centralia armory	01/06/1998
Chris Fairbanks	Cascades Environmental Service	Environmental assessment of Mt. Baker Hwy	01/08/1998
David Desvoigne	HDR Engineering Inc.	Environmental impact analysis for proposed BNSF railway project	01/08/1998
John Jacobson	The Adopt-A-Stream Foundation	Salmonid habitat assessment within the Sammamish subbasin	01/08/1998
Nathan Pate	Whitman County Dept Of Public Works	Proposed project within T15N R42E section 16	01/09/1998
Kittie Ford	Herrera Environmental Consultants	Potential impacts from railroad construction/additions	01/12/1998
Scott J. Rozenbaum	Rozewood Environmental Services	Wetland rating with T35N R01E sections 13 and 14	01/12/1998
Dale Morimoto	WA Dept Of Transportation North	SR11 mp12 vic. to rest area vic. rock wall replacement settlement	01/14/1998
Debra Bouchard		Aquatic vegetation mgt plan for Loomis Lake	01/14/1998
Melanie Carpenter	ENSR Consulting and Engineering	Cascade Natural Gas pipeline extension	01/14/1998
Nathan Pate	Whitman County Dept Of Public Works	Proposed GTE Willow Cr. microwave communications facility	01/14/1998
Tim Young	US Fish and Wildlife Service	Updated PHS and HRTG data for Washington State	01/14/1998
Tony Hartrich	Quinault Indian Nation-DNR	Updated PHS, HRTG and StreamNet for Quinault usual and accustomed areas	01/14/1998
Michael	Tulalip Tribe	8 maps for HUC 17110010, Anad	01/15/1998

Requestor	Organization	Data Requested	Date Delivered
McHugh		presence	
Sabina Renn	Parametrics	8 maps and Digital tape of State wide anadromous	01/15/1998
Alana Hess	WA State Parks and Recreation	Wallace Falls State Park storage building replacement	01/16/1998
Diane Ryba		To determine buffer widths around wetlands within T16N R04E section 6	01/16/1998
Jeff Sawyer	WA Dept Of Transportation Olympic	SR101 ol-3190 and ol-3191 mp 228.60 to mp 231 vic. Lake Crescent slides	01/16/1998
Kevin D. Stuber	WA Dept Of Transportation North	Sr 548 Harrison Avenue slide repair	01/16/1998
Kevin D. Stuber	WA Dept Of Transportation North	Sr 92 84th St. vicinity to Granite Falls wetland mitigation	01/16/1998
Laurel A. Andrew	US Dept Of Agriculture	Lk Mayfield village, Lewis Co. water and sewer project	01/16/1998
Suki Cupp	CH2M Hill	City of Vancouver sewer extension project number 143815.07.03	01/16/1998
Tony Fuchs	Puget Sound Energy	SEPA checklist for a proposed substation within T17N R02W section 4	01/16/1998
Bob Gietz	WA Military Department	Proposed road project by Yakama nation within T6N R16E sections 1 and 12	01/20/1998
Dale Morimoto	WA Dept Of Transportation North	SR20 mp 49.71 junction Reservation Road signalization	01/20/1998
Gary Maynard	Parametrix Inc.	Environmental checklist for a wetland mitigation project in city of Auburn	01/20/1998
Gary Maynard	Parametrix Inc.	Environmental checklist for the city of Tukwila and Seatac permit apps	01/20/1998
Jeff Sawyer	WA Dept Of Transportation Olympic	OI 3192 SR12 Alfredson Rd. to Black R. Br. mp 33.82 mp 37.58	01/20/1998
Jeff Sawyer	WA Dept Of Transportation Olympic	OI 3296 SR101 Chehalis and Riverside bridges	01/20/1998
Jerry Erickson	Beak Consultants Inc.	Environmental effects of a proposed barge loading facility on	01/20/1998

Requestor	Organization	Data Requested	Date Delivered
		SE Maury Is.	
Michael Pollock	10,000 Years Institute	Project StreamNet dig. data for Willapa Bay from state plane to UTM	01/22/1998
Peter Morrison	Sierra Biodiversity Institute	Updated statewide PHS, HRTG and StreamNet digital data	01/22/1998
Sabina Renn	Parametrix	Statewide digital StreamNet database and 8 StreamNet maps	01/22/1998
Steven Wolfe	Woodward-Clyde	8 copies of PHS maps for WA National Guard Centralia armory	01/22/1998
Kathryn March	Region 2 WDFW office	8 maps for HUC 17020011	01/25/1998
Donald K. Wills II	WA Dept Of Transportation North	SR 513 Montlake Br. seismic retrofitting, deck replacement and other upgrades	01/26/1998
John Gold	John Gold & Company Consulting	Permits/appraisal for Lindberg, Shayes and Jordan tracts	01/26/1998
Peggy Bartels	Clark County Community Develop.	PHS, HRTG, NWI and StreamNet digital data for Clark County	01/26/1998
Peter C. Blansett	SA Newman Forest Engineers Inc.	Consulting and appraisal for WA DNR lands	01/26/1998
Sarah Cassatt	Jones & Stokes Associates Inc.	Environmental review for Snohomish Co. Parks Dept. Centennial Trail project	01/26/1998
Cliff Palmer	Wetland Resources Inc.	Wildlife study and habitat assessment for land owner	01/27/1998
Kelly Canode	Shapiro and Associates	Proposed project within Cowlitz county	01/27/1998
Linda Newberry	Jamestown S'Klallam Tribe	Grant applications for wetlands in Sequim Bay	01/27/1998
Rachel Wahlers	WA State Parks and Recreation	Management plan for Beacon Rock State Park	01/27/1998
Susanna Cornwell	Parametrix Inc.	Environmental checklist for proposed project in Bellevue, WA	01/27/1998
Susanna Cornwell	Parametrix Inc.	Environmental checklist for proposed project in Port Orchard, WA	01/27/1998

Requestor	Organization	Data Requested	Date Delivered
Peter Alexander	College Professor	Historic returns of salmon to the mouth of the Columbia River.	01/28/1998
Eric Beach	Weyerhaeuser	Watershed analysis for upper Newaukum	01/29/1998
Zach Schwartz	People For Puget Sound	Conservation and restoration site selection	01/29/1998
Alana Hess	WA State Parks and Recreation	South Whidbey State Park trail repair	01/30/1998
Bertie Weddell	Draba Consulting	Critical areas ordinance compliance within T15N R45E section 25	01/30/1998
Bruce Johnson	WA Wetlands and Mitigation Commission	Land owner wetlands delineation within T35N R04E section 13	01/30/1998
Kenneth E. Neiman	Resource Analysis and Management	Potential project impacts for land owner within T22N R06E section 9	01/30/1998
Kevin Stuber	WA Dept Of Transportation North	SR 536 Bennett Rd. interchange realignment	01/30/1998
Lawrence E. Riegert	Hammond Collier & Wade-Livings	Biosolids application Tenelco project HCW-I project no 96840	01/30/1998
Liz Kriewald	WA Dept Of Transportation North	SR 542 Nugents vicinity bridges replace 542/9, 10 & 11	01/30/1998
Liz Kriewald	WA Dept Of Transportation North	SR2/SR9 interchange vic. to SR522 mp 4.50 to mp 14.27 channelization and safety	01/30/1998
Melissa Chaun	Michael P. Williams Consulting	Cedar Grove park site	01/30/1998
Polly Harris	Adolfson Associates Inc.	Proposed road improvement and bridge replacement projects in Pacific Co.	01/30/1998
Todd M. Hudak	Pharos Corporation	Ocean Shores marina restoration project	01/30/1998
Tom Van Buren	Seattle Public Utilities	Digital PHS, HRTG and spotted owl site centers for HCP	01/30/1998
Ed Sewall	B-Twelve Associates Inc.	Proposed residential development for M&H properties/Black Diamond #95-137	02/03/1998
Eldon Ladd	Personal	Historic sport harvest of salmon in Washington Tributaries by month.	02/03/1998

Requestor	Organization	Data Requested	Date Delivered
Jeff Heinlen	USFS Tonasket Ranger District	100K quad maps and reports for lynx	02/03/1998
Peter C. Blansett	SA Newman Forest Engineers Inc.	Appraisal services for WA DNR	02/03/1998
Peter Bahls	Port Gamble S'Klallam Tribe DNR	Proposed purchase of riparian habitat along Chimacum Creek	02/04/1998
Calvin Kelly Douglas	Shapiro & Associates Inc.	City of Bellevue highway SR520 access study	02/09/1998
Debra Peterson	King County	PHS King County map and T24N R05E sections 5, 8, 9 maps	02/09/1998
Donald K Wills II	WA Dept Of Transportation North	SR 516 ACP overlay and safety (SR 509 to I-5 vicinity)	02/09/1998
Donald K Wills II	WA Dept Of Transportation North	SR522 multi-modal project (I-5 to SR 405)	02/09/1998
Ellen Barayuga	ICF Kaiser Engineers Inc.	Site assessment within T22N R01W section 26 & 27	02/09/1998
Greg James	Tetra Tech Em Inc.	City of College Place wetland restoration in the Garrison Cr. drainage	02/09/1998
Matt Bennett	The Coot Company	Mason Co. Public Works Dept. road alignment analysis	02/09/1998
Urania Perez-Freedman	King County Wastewater Treatment	SEPA checklist for applications of reclaimed water with the Fort Dent Park	02/09/1998
Edward W. Young	US Bureau Of Reclamation	Digital data for studies and analysis aimed at improving habitat	02/11/1998
Bob Gietz	WA Military Dept Emergency Man.	Proposed relocation of 21 camp ground sites within T19N R06W section 29	02/12/1998
Claton Belmont	WA Dept Of Transportation North	Proposed highway construction project I-pending Manson to Howser Road	02/12/1998
Francis Naglich	Ecological Landscape Services	Proposed residential development for land owner Mr. Brian Wirkkala	02/12/1998
Greg Yi	WA State Parks and Recreation	O'Neal Island potential WA water trail site within T36N R03W section 20	02/12/1998

Requestor	Organization	Data Requested	Date Delivered
Holly Barnard	Trust For Public Land	To evaluate parcels for natural resource and recreational value	02/12/1998
Kim Berry	Skagit County	Updated PHS and HRTG digital data for Skagit County	02/12/1998
Nathan Pate	Whitman County Dept Of Public Works	Proposed CSZ for residential development for Loyde and Cynthia Wheeler	02/12/1998
Nathan Pate	Whitman County Dept Of Public Works	Proposed residential development by land owner James Parvin	02/12/1998
Denise Brown	Puyallup Tribal Fisheries	8 maps of Puyallup watershed for Anad presence	02/15/1998
Tyler Patterson	North Bend Ranger Station	8 maps for HUC 17110014, Statewide Bulltrout	02/15/1998
Amy Renkert	Raedeke Associates Inc.	Consulting for landowner	02/18/1998
Chris Schaefer	Cowlitz County GIS	Updated PHS, HRTG and StreamNet digital data for Cowlitz County	02/18/1998
Dean Gettinger	Dames & Moore	Planning and analysis for Banks Lake environmental rpt and resource mgt pln	02/18/1998
Gary Beeman	WA Dept Of Transportation South	SR 97 Toppenish Creek bridge 97/116	02/18/1998
Gary Beeman	WA Dept Of Transportation South	Sr 97 vicinity of Satus Creek bridge 97/106	02/18/1998
Bill Munro	IES Associates	Wildlife evaluation for property owner	02/19/1998
Calvin Kelly Douglas	Shapiro & Associates Inc.	Dally Homes Inc. proposed sites for commercial development	02/19/1998
Chris Regan	WA State Parks and Recreation	Proposed rock climbing areas for Peshastin Pinnacles and exit 38 crags	02/19/1998
Crilly R. Ritz	Snohomish County Public Works	Construction of engineered log jams in NF of the Stillaguamish River	02/19/1998
James B. Prudente	WA Dept Of Transportation East	SR 20, mp 311.96 to SR 395 roadway paving project	02/19/1998
Mark C. Schulz	WA State Parks and Recreation	Riverside State Park McClellan trailhead improvement project	02/19/1998



Requestor	Organization	Data Requested	Date Delivered
Polly Harris	Adolfson Associates Inc.	Biological review for proposed development by land owner in Snohomish Co.	02/19/1998
Charles McCormick	Public Request	General species list for Chehalis basin	02/20/1998
David Desvoigne	HDR Engineering Inc.	Environmental impact analysis for proposed King Co. project job no 5434	02/20/1998
Roy Brunskill	WA Department Of Agriculture	Species list by county for <i>Spartina</i> control and eradication project	02/20/1998
Zach Schwartz	People For Puget Sound	StreamNet database for Skagit River basin	02/20/1998
Jonathan Olds	Entranco	Proposed management plans for Capitol Lake project # 97034-60	02/25/1998
Matt Bennett	The Coot Company	Mason Co. transportation corridor project	02/25/1998
Nikolina Yonkow	Adolfson Associates Inc.	City of Woodinville proposed flood control job #9784	02/25/1998
Charles Repath	JS Jones and Associates	Wildlife studies of two sites for land owners	02/26/1998
Cliff Palmer	Wetland Resources Inc.	Wildlife and habitat study for land owners	02/26/1998
Dale Morimoto	WA Dept Of Transportation NW	SR 525 mp 0.87-1.57 Swamp Cr Park & Ride lot expansion and direct access	02/26/1998
Priscilla Zieber	EMCON	Cleanup of property by previous land owner	02/26/1998
Tom Angus	Ecology and Environment Inc.	Ecological risk assessment for the proposed mixed waste facility	02/26/1998
Bill Frenger	Spokane County Public Works	Dartford Dr. bridge project	02/27/1998
Cynara Solberg	Applied Environmental Services	Wildlife assessment report for land owner	02/27/1998
David T. Mcdonald	Courtroom Lawyer	Freedom of information act	02/27/1998
Nathan Pate	Whitman County Dept Of Public Works	Proposed residential development for land owners Irvin & Joanne	02/27/1998

Requestor	Organization	Data Requested	Date Delivered
		Bailey	
Nathan Pate	Whitman County Dept Of Public Works	Proposed residential development for land owners Larry & Sherri Farr	02/27/1998
Pat Borchers	King County Wastewater Treatment	NF Issaquah Creek fish passage improvements	02/27/1998
Chad Armour	Hart Crowser Inc.	Site development for land owner within T30N R05E section 4	03/03/1998
Claton Belmont	WA Dept Of Transportation North	Proposed highway construction projects	03/03/1998
Donald K Wills II	WA Dept Of Transportation North	SR 167 improvements from 15th St. in Auburn to SR 167/I-405 interchange	03/03/1998
Ellen Barayuga	ICF Kaiser Engineers Inc.	Environmental site assessment for Postal Service	03/03/1998
Gary Beeman	WA Dept Of Transportation South	Lewis and Clark Trail State Park flood control	03/03/1998
Jessica Roque	WA Wetlands and Mitigation Co.	PHS information for land owner Bill Frans within T35N R03E section 32	03/03/1998
Keith	Kitsap County Dept Of Public Works	StreamNet digital for the Kitsap Peninsula	03/03/1998
Liz Kriewald	WA Dept Of Transportation North	SR5 Blaine vicinity ramps ACP reconstruction, overlay and safety	03/03/1998
Patricia Scott	Eastern Washington University	Stevens and Spokane Co. PHS maps for research project	03/04/1998
Randy Arnold	Northwest Biological Consultants	Wetlands delineation for land owner within T28N R05E section 1	03/04/1998
Edward W. Young	US Bureau Of Reclamation	PHS, HRTG, and NWI for analysis and studies (additional areas)	03/06/1998
Mark C. Schulz	WA State Parks and Recreation	ADA vault toilet installation project within T20N R44E sec. 10 Steptoe Butte	03/06/1998
Melissa Chaun	Michael P. Williams Consulting	Proposed condominium project site within T24N R17E section 12	03/06/1998
Nathan Pate	Whitman County Dept Of Public Works	Proposed residential development for land owner James Parvin T16N R44E sec. 36	03/06/1998

Requestor	Organization	Data Requested	Date Delivered
Sandy Mosconi	USFS Colville National Forest	Quartzite watershed analysis	03/06/1998
Ben Klein	WA Dept Of Transportation	Proposed WA state ferries projects	03/10/1998
Craig Baker	Cross Country Land Services	In preparation to lay fiber optic cable from Canada to Portland	03/10/1998
Alana Hess	WA State Parks and Recreation	Proposed roadway repair at Camano Island State Park	03/12/1998
Claton Belmont	WA Dept Of Transportation North	Proposed highway construction project Rock Island Dam talus slopes	03/12/1998
Claton Belmont	WA Dept Of Transportation North	Proposed traffic signal I-3048 monitor intersection signals	03/12/1998
Cynara Solberg	Applied Environmental Services	Wildlife study for land owner	03/12/1998
Gary R. Beeman	WA Dept Of Transportation South	Highway project SR 125 Oregon State Line to College Place	03/12/1998
Heidi Haslinger	Pioneer Spirit Ent. Inc. /JW Morris	Wetland ratings for proposed business devlp. within T17N R02W section 4	03/12/1998
Melanie Carpenter	ENSR Consulting and Engineering	Environmental assessment for Fort Lewis	03/12/1998
Brad Montgomery	King County Information Services	Updated PHS and HRTG digital data for King County	03/13/1998
Janine M. Donoho	League Of Women Voters	Info to help develop system of indicators for booklet <u>Sustainable Kitsap</u>	03/13/1998
Jennifer Goodridge	Adolfson Associates Inc.	Biological review for wastewater extension of service	03/13/1998
Kirsten Krueger	The ERC Group	City of Newcastle China Falls development review	03/13/1998