

Progress Report:

**Expansion of StreamNet Database to all
Anadromous Salmonid Populations in the States
of California, Oregon, and Washington**

For Period:

April 1, 1998 – September 30, 1998

October 1, 1998 – March 31, 1999

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Progress Report: Expansion of StreamNet Database to all Anadromous Salmonid Populations in the States of California, Oregon, and Washington

I. Tasks/Objectives

Refer to Attachment 1 for original task description.

II. Personnel

Contained in fiscal/administrative reports and billings.

III. Accomplishments

During the reporting period the following tasks were worked on and the described accomplishments made. Figures in this report come from a comparison of the StreamNet database version 99.1 of April 1999 to version 98.3 or March 1998. The numbers from this comparison do not reflect exactly the work done during the period, due to the lag times inherent in data submittal and management.

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

Task 7.1 Abundance Data: Update natural adult abundance data, focusing on anadromous populations outside of the Columbia River Basin.

Significant progress was realized for this task. Eight hundred thirty two new trends and 1469 records for spawning population estimates were added to the database for Puget Sound and coastal Washington and Oregon. A total of 57 trends were updated for California, with 1226 records added. The range of years added was generally small, but significant historic additions were made for the northern Oregon coast area and recent years were added. For peak spawners counts, 1045 new trends and 3953 records were added outside California; changes in the range of years covered consisted of adding recent years' results. California updated 10 trends and 67 records. For redd counts, 207 new trends and 618 records were added outside California, mainly from Puget Sound and coastal Washington; recent years' data was added for the state of Washington. California updated 12 trends and added 68 records. For dam and weir counts, one trend was added for coastal Washington, while several were deleted for Oregon coastal areas after discovering errors; the number of records increased by 12. For California, 31 trends were updated and 649 records added; historic data were added back to 1922.

Task 7.2 Hatchery Data: Update hatchery release and return data, focusing on anadromous populations outside of the Columbia River Basin.

Significant progress was realized for hatchery release data. A total of 5051 new trends and 36280 records were added to the StreamNet database. Also, the years covered were greatly expanded: Washington data were expanded from 1960-1997 to 1952-1999; Oregon data were expanded from 1970-1995 to 1901-1998; California data were expanded from 1977-1996 to 1947-1998.

Hatchery return data were not updated during the period outside of California. For California, 18 trends and 570 records were added, covering the years 1940-1998.

Task 7.3 Harvest Data: Update freshwater and marine harvest data, focusing on anadromous populations outside of the Columbia River Basin.

Progress was generally slow for these data types during the period, except for California. Eight trends and 20 records were added for coastal Washington marine harvest, covering the years 1975 through 1994. In California, 4 trends and 104 records were added.

Status: See attached table - "Anadromous Fish Data Status Outside of the Columbia Basin." Note that this table only depicts data compilation outside of the Columbia River Basin. All NMFS contract funds allocated to ODFW and WDFW are used for outside of the Columbia Basin. IDFG is also funded through this contract (though at a much lower amount). IDFG funding is primarily being used to compile IDFG-generated general parr monitoring data and make these data available through the StreamNet system.

IV. Travel

Contained in fiscal/administrative reports and billings.

V. Costs

Contained in fiscal/administrative reports and billings.

VI. Consultations

None during reporting period. Update meeting held 4/12/99.

VII. Major Problems Encountered or Anticipated

The major problems encountered over the past year revolved around significant staff turnover, in particular the Regional Data Manager position. StreamNet is now fully staffed and key contacts at PSMFC for this project are:

Mike Banach, Fisheries Biologist
Doug Burch, Regional Data Manager

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As a result of key staff changes, progress reporting has been delayed. This delay will not occur in the future.

An update meeting for NMFS-NWFSC staff was held on April 12, 1999 in Seattle. Stan Allen and Matt Freid (PSMFC) provided an update on StreamNet and progress to date.

An anticipated problem is funding. NMFS-NWFSC has indicated that the funding source that has been used in the past for these tasks will not be available after September 30, 1999. The concern is that this is the primary funding for any work done by the StreamNet project outside of the Columbia River Basin (coastal WA and OR, CA). It is the only funding source for work and compilation of data in California.

VIII. Other

None.

IX. Contacts

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X. Documents/Reports/Manuscripts Prepared

None.

Anadromous Fish Data Status Outside of the Columbia Basin

	Puget Sound		WA Coastal		N. OR Coastal		S. OR Coastal		N. CA Coastal	
	4-98	4-99	4-98	4-99	4-98	4-99	4-98	4-99	4-98	4-99
Adult Return - Spawning population estimates	278 ² 1953-1995	361 1953-1997	106 1967-1995	167 1996-1997	98 1960-1997	502 1960-1998	70 1955-1997	354 1955-1998	12 1950-1996	62 1940-1998
Adult Return - Peak spawning counts	47 1951-1995	55 1951-1996	44 1952-1991	48 1952-1995	248 1947-1997	889 1947-1998	145 1946-1997	537 1946-1998	19 1967-1994	46 1962-1998
Adult Return - Redd counts	9 1966-1992	147 1996-1997	none	62 1982-1983	6 1970-1997	10 1970-1997	4 1976-1997	7 1976-1997	14 1980-1994	24 1980-1998
Dam/Weir Counts (adult/juvenile)	13 1926-1992	13 1926-1992	10 1970-1992	11 1970-1992	5 1962-1983	2 1959-1990	26 1942-1998	20 1942-1998	18 1925-1994	45 1922-1999
Harvest - Freshwater	450 1961-1994	450 1991-1994	183 1961-1994	183 1991-1994	293 1956-1994	293 1956-1994	175 1956-1994	175 1956-1994	none	4 1967-1999
Harvest - Marine	6 1961-1994	6 1961-1994	none	8 1975-1994	none	none	none	none	none	30 1952-1990
Hatchery - Releases	3737 1960-1997	5437 1952-1999	2028 1960-1996	2603 1952-1999	325 1970-1995	1919 1902-1998	294 1975-1995	1476 1901-1998	78 1977-1996	388 1947-1998
Hatchery - Returns	48 1938-1991	48 1938-1991	18 1961-1991	18 1961-1991	51 1962-1994	51 1962-1994 -- Major update including disposition	32 1968-1994	32 1968-1994 -- Major update including disposition	1 1958-1979	18 1940-1998
Facilities - Dams	226	226	51	51	15	15	113	135	52	52
Facilities - Hatcheries	84	84 -- Major update initiated	37	37 -- Major update initiated	9	9 -- Major update initiated	6	6 -- Major update initiated	3	3
Distribution and use type										
Enhancement/mitigation projects	none	Exchange format being modified	none	Exchange format being modified	none	Exchange format being modified	none	Exchange format being modified	none	Exchange format being modified

¹California data in StreamNet are not as extensive for other states. This should improve considerably in the next year as CDFG becomes more active and the project matures over the next year.

²Top numbers are the number of trends in the StreamNet database at that date. Bottom entry shows the range of years the data cover for that cell