

50th Annual Report  
of the  
**PACIFIC STATES MARINE  
FISHERIES COMMISSION**  
FOR THE YEAR 1997

To the Congress of the United States and the Governors and Legislatures of the Five Compacting States, Washington, Oregon, California, Idaho, and Alaska, by the Commissioners of the Pacific States Marine Fisheries Commission in Compliance with the State Enabling Acts Creating the Commission and Public Laws 232; 766; and 315 of the 80th; 87th; and 91st Congresses of the United States Assenting Thereto.

Respectfully submitted,

PACIFIC STATES MARINE FISHERIES COMMISSION

RANDY FISHER, Executive Director

Headquarters  
45 SE 82nd Drive, Suite 100  
Gladstone, Oregon 97027-2522

Al J. Didier, Jr.  
EDITOR

## TABLE OF CONTENTS

### **Administrative Reports and Actions**

- [Executive Director's Report](#)
- [1997 Publications](#)
- [Financial, Audit, and Budget Reports](#)
- [Personnel in 1997](#)

### **Annual Meeting Events**

- [Summary](#)
- [Business Meeting](#)
- [1998 Annual Meeting](#)
- [Annual PSMFC Award](#)

### **Pacific Coast Fishery Review Reports**

- [Dungeness Crab Fishery in 1996-97](#)
- [Shrimp Fishery in 1997](#)
- [Sea Urchin Fishery in 1997](#)
- [Albacore Fishery in 1997](#)
- [Troll Salmon Fishery in 1997](#)
- [Salmon and Steelhead Sport Harvests in 1996](#)
- [Pacific Halibut Fishery in 1997](#)
- [Groundfish Fishery in 1997](#)

# PSMFC COMMISSIONERS 1997

## Jacqueline Schafer, Chair

### ALASKA

LOREN LEMAN  
Alaska State Senate

DAVID BENTON  
Alaska Dept. Fish & Game

DALE KELLEY  
Governor's Appointee

### CALIFORNIA

NAO TAKASUGI  
California State Assembly

JACQUELINE SCHAFER  
California Dept. Fish &  
Game

DAVID PTAK  
Governor's Appointee

### IDAHO

BRUCE SWEENEY  
Idaho State Senate

STEPHEN MEALEY  
Idaho Dept. Fish & Game

RICHARD MEIERS  
Governor's Appointee

### OREGON

BOB MONTGOMERY  
Oregon House of  
Representatives

JIM GREER  
Oregon Dept. Fish &  
Wildlife

PAUL HEIKKILA  
Governor's Appointee

### WASHINGTON

HARRIET SPANEL  
Washington State Senate

BERN SHANKS  
Washington Dept. Fish &  
Wildlife

DEAN SUTHERLAND  
Governor's Appointee

---

*Our goal, as stated in the bylaws, is "to promote and support policies and actions directed at the conservation, development and management of fishery resources of mutual concern to member states through a coordinated regional approach to research, monitoring and utilization".*

---

## **50TH ANNUAL REPORT - 1997**

### **ADMINISTRATIVE REPORTS AND ACTIONS**

#### **EXECUTIVE DIRECTOR'S REPORT**

Mutual problems of fisheries resource management led the Pacific Coast states to form the Pacific States Marine Fisheries Commission (PSMFC) in 1947. Many of the economic, social, political, legal, and biological issues confronting fishery conservation and management could not be addressed by individual states. The original objectives of PSMFC were:

1. To conserve off-shore fisheries contiguous to the Pacific Coast of common interest to the citizens of the Pacific Coast States;
2. To agree upon uniform regulations for such conservation;
3. To agree upon uniform legislation (if required) to be presented to each legislature for such regulation;
4. To agree upon means of enforcing uniform regulations; and,
5. To develop a program of research on the various species of marine life and to decide how such a program shall be carried out.

Although PSMFC was given no regulatory authority in matters pertaining to offshore fisheries, the inclusion of wildlife management agency directors and members of the legislative branch as commissioners was designed to give its recommendations greater weight than most advisory bodies. Representatives from Alaska and British Columbia attended and participated in the discussions at the first meeting; the Commission expressed the hope that uniform regulations could be adopted along the entire coast, and that it might be possible for Mexico to participate in future meetings as well. Recommendations adopted during PSMFC's first year dealt with fishing seasons and minimum size restrictions for the chinook and coho salmon fisheries, and with conservation measures for the soupfin shark fishery. Resolutions passed by the Commission during that first year: opposed the arbitrary elimination of the inshore commercial fisheries by competing user groups through the initiative process; opposed Bureau of Reclamation plans for power, irrigation, and flood control developments in the Rogue River basin; advised against premature claims of success by the Corps of Engineers and Bureau of Reclamation for multiple water-use programs; protested the proposed construction of the Mossyrock and Mayfield dams on the Cowlitz River; and requested Congressional authorization for additional US Fish and Wildlife Service research for recommended albacore research priorities.

By the late 1970's fishery problems had increased in number and complexity. The management environment had changed, due principally to the formation of the Regional

Councils under the Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA). The Commission's objectives were revised in 1990 to:

1. Provide active leadership in recognizing and resolving interstate fishery problems;
2. Develop PSMFC policy statements and communicate them to Congress and other legislative entities, concerned agencies of federal, state, or local government, and to the private sector;
3. Facilitate research and management projects relating to interstate fisheries;
4. Promote compatible fishery regulations for those interstate fisheries not under Regional Council jurisdiction;
5. Promote the better utilization and prevention of waste of fish products;
6. Promote the protection, and where necessary the rehabilitation, of marine fisheries habitat; and
7. Provide active leadership in recognizing and resolving problems that impact the sport and commercial fishing industries.

The budget of the Commission in its first year (1947-1948) was \$15,000. It administered an additional \$415,000 in contract funds per year. Today the Commission administers over \$20,000,000 in contract funds, and operates on a budget of approximately \$1,000,000. In its early years, the Commission coordinated research activities and made recommendations for management of coastal fisheries to its member states. Today the Commission manages data bases, administers contract funds for its member states, participates in resolution of coastwide commercial and sport fishing industry issues, and lobbies Congress on matters relating to funding and resource management.

Under the guidance of its Commissioners and Advisors, PSMFC has undergone many changes, including a redefinition of its major activities, while still maintaining the basic function for which it was established in 1947. The financial health and future of the Commission are stronger than ever as it moves into the second half-century of service to its member states. This could never have been accomplished without the many years of service from all the fishing industry Advisors, Commissioners, and State agency scientists and managers who have provided their services to the Commission over the years. The success of the Commission has been directly related to their efforts – to the benefit of Pacific Coast fishery resources.

Highlights of 1997 include the following:

- The value of external contracts administered by PSMFC increased 20% to \$20.2 million.
- The Pacific Fishery Management Council adopted a recommendation of PSMFC's **Tri-State Dungeness Crab Committee** to request a Congressional extension of the interim crab management authority provided in the MSFCMA. This authority allows the states of Washington, Oregon, and California to apply all state crab management regulations except limited entry to vessels fishing in the EEZ. This compromise agreement avoids imposition of a federal Fishery

- Management Plan, while still allowing the state of Washington to comply with treaty provisions for tribal fishing in offshore waters.
- The PSMFC **Information Management Services (IMS)** section is comprised of the following:
    - [Pacific Fisheries Information Network \(PacFIN\)](#)
    - [Regional Mark Processing Center \(RMPC\)](#)
    - [PIT Tag Information System \(PTAGIS\)](#)
    - [StreamNet](#)
    - [Alaska Fisheries Information Network \(AKFIN\)](#)
    - [Fisheries Economics Database Project](#)
    - [PSMFC Computer Services Center \(CSC\)](#)

Highlights of activities and accomplishments by each project or section are described separately.

- During 1997, the **PacFIN** Office processed 229 data feeds from eight data sources, and responded to 187 requests for information. There were also 18,139 visits to the PSMFC PacFIN web site, averaging 1,512 visits per month.

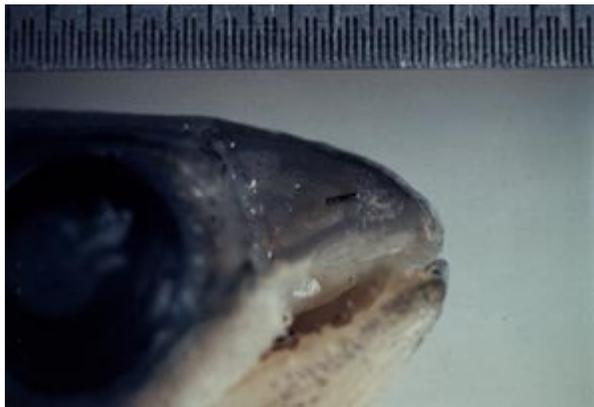
Some conversion efforts were completed; new software capabilities were added, and new data tables were added to the central database. The conversion effort to re-develop the set of six programs that produce the standard PacFIN reports was completed and monthly production of the usual set of standard reports for WDFW, ODFW, and CDFG was re-instituted. The subsystem that maintains on-line publicly available summary reports was improved twice during the year based on requests/suggestions from the National Marine Fisheries Service (NMFS). These improvements included changes to data tables and associated software upgrades, and re-structuring of some of the species code relations. A new table consisting of Washington, Oregon, and California counties and their relation to existing PacFIN port codes was incorporated and software was developed to summarize catch data by county. The Quota Species Monitoring (QSM) subsystem was expanded to include data source inputs, and additional reports for the Limited-entry and Open-access fleets. The annual vessel summary data for all years (1981-1997) was incorporated into the central database, and refreshing these data is now a regular monthly production task.

Catch-by-area and species composition proportions for 1981-1986 were input by WDFW for the first time, and these were incorporated into the database. Species composition proportions for CDFG for 1981-1986 were also input for the first time, and proportions for 1987-1995 were completely refreshed. The incorporation of these proportions within the central database improved the trawl groundfish catch-by-area estimates and the estimates of catch by individual rockfish species.

PacFIN staff provided training and system analyses in support of a variety of Pacific coast fisheries management and research programs. Software development

and requirements analysis for the NMFS/NWR's Sablefish Endorsement/3-tier project occurred throughout the year. Staff conducted a major analysis of West Coast vessel identification, registration, and data systems, and submitted an alternate proposal on this subject to the NMFS. In Newport, Oregon, the NMFS staff which conducts stock assessments for sablefish and thornyheads received data retrieval, software development, analysis support, and a January seminar/workshop conducted for both NMFS and ODFW personnel. The PacFIN staff once again supplied the economists conducting the West Coast Fishing Fleet Study with specialized vessel summary data and performed analyses of certain data anomalies for this project.

- The **Regional Mark Processing Center** (RMPC) continues to provide regional services to all state, federal, tribal, and non-governmental agencies involved in marking anadromous salmonid fishes on the entire Pacific Coast, including Canada. These services include coastwide coordination of tagging and fin marking programs, and maintenance of a regional database for releases and recoveries of coded wire tag (CWT) marked salmonids. In addition, the Mark Center serves as the single United States database to exchange CWT information with Canada for Pacific Salmon Treaty purposes. The CWT data can be accessed through PSMFC's Regional Mark Information System (RMIS) by either dial-up (tel: 503-650-5437; up to 28,000 bps) or via the Internet using either FTP (<ftp.psmfc.org>) or Telnet (<telnet.psmfc.org>). In addition, data users may use the world wide web (<http://www.psmfc.org/rmpc/>) to select subsets of CWT data via queries, build reports from those queries, and electronically download the resultant reports.



**Figure 1.** PSMFC's Regional Mark Processing Center maintains records of marked salmonids using the codes on micro-wire tags embedded in their snouts.

Regional coordination activities again focused on the issue of mass marking hatchery fish using the adipose-only clip for identification in selective fisheries, and the potential impact on the coastwide CWT system. The PSC Data Standards Committee (DSC) established a new format for CWT data exchange (Version 3.2) in September 1996 to capture the necessary release and recovery information associated with mass marking, double index tagging, and selective fisheries. Before it could be implemented, however, a second DSC meeting to address new information on management needs led to a substantial revision of Format 3.2, and an agreement on how to report external marks. Implementation of the revised Format Version 3.2 is scheduled for May 1998.

A suite of new RMIS reports was added to facilitate retrieval of CWT recoveries based on hatchery of origin rather than the traditional tagcode approach. Users are now provided with a query parameter form containing hatchery, species, run, brood year, release type, stock, fishery, state/province, and region. Hatchery and species are required fields. Using this basic form, users can generate eight hatchery-based recovery reports that differ in time periods and levels of aggregation. Other new reports include a revised TS3 report that provides recoveries by statistical week instead of the statistical two week period. A 'Statistical Time Period' report provides users with a breakout of statistical weeks for any year of choice. Users can also obtain a report of released tagcodes that do not have any recoveries reported in the database.

A new PSC Catch and Effort data exchange format was finalized and approved by the Data Sharing Committee in January, 1997. The catch data will include all types of catch (commercial, sport, subsistence, personal use, native, and non-native) back to 1975. Data exchange will be in comma-delimited ASCII text. In most cases, weight and number of fish will be summarized weekly using the standard PSC location coding of the CWT system.. In addition, six types of effort will be captured (angler days, boat days, numbers of boats and fishers, net days, and boat trips). A catch and effort database has been created on RMIS, and the necessary data validation software has been developed and tested. Work on a user query system has been postponed until report needs have been clarified. To date, only Washington and British Columbia have provided test files for 1990-1993.

A number of new features were added to the web based 'Users Forum' installed for use by PSC Data Sharing, PSC Data Standards and the Regional Mark Committee. Users can post new meeting agenda items and provide input on previously posted agenda items. A new and popular feature is an automatic e-mail notification of all committee members at the time of any new posting. A second new feature allows users to cut and paste information from other documents. The forum has proven very popular with members of the PSC Data Standards Committee and has expedited resolution of difficult data management issues.

With the encouragement of ADFG, CDFO and WDFW, the Mark Center has developed a web-based prototype database for an 'International Archive of Thermally Marked Images'. The otolith images will be accessible on the PSMFC's web pages as an addition to the Mark Center's Regional Mark Information System. The prototype system provides options for browsing, querying, and retrieving otolith images and related information. Formal implementation will be delayed until all participating agencies have explored the new database and their change requests have been completed.

- The Columbia River **PIT Tag Information System** (PTAGIS) saw over 623,000 juvenile salmonids marked with passive integrated transponder (PIT) tags for the 1997 out-migration through the Columbia and Snake River systems. This number is up from around 430,000 during the 1996 out-migration. These fish generated over 2,621,000 interrogation records at the major dams on the Lower Snake and Columbia rivers. One fish can generate many interrogation records, depending upon how many interrogation monitors 'saw' the fish. This number of interrogation records was about twice that collected during the 1996 out-migration, and was attributed to the higher number of PIT tagged fish migrating in-river.

Work continues to implement the new International Standards Organization (ISO) tag frequency in the Columbia River Basin. Successful field tests of stationary transceivers were performed with the participation of State and tribal fish and wildlife agencies, Bonneville Power Administration, National Marine Fisheries Service, US Army Corps of Engineers, US Fish and Wildlife Service and others. Changes to these transceivers have been requested and a new round of field testing is scheduled during 1998. The PTAGIS project also awarded a contract for the development of prototype hand held (or portable) ISO PIT tag readers. The ISO prototypes were delivered and final testing will be concluded during the spring of 1998. A specification of electrical and quality control parameters for the production procurement of ISO tags will be finalized by October 1998. A decision to proceed with the year 2000 transition from the current (400kHz) system to the new, ISO-based system will be made by the ISO Transition Planning Team by October 1998, depending on 1998 field testing results. The new system must meet or exceed the performance of the existing system.

PTAGIS continued to provide near real time PIT tag data for the Columbia River Technical Management Team. PSMFC and the US Army Corps of Engineers have connected PIT tag interrogation systems at the Snake and Columbia river dams to the Internet using the existing Corps telecommunications infrastructure. Standard reports are generated regularly and are made available over the world-wide-web. New processes validate and load tagging and release information into the PTAGIS database with greater accuracy and frequency than ever before. Work continued on a Windows '95-based PIT Tag Workstation program for use by all agencies that use PIT tags in the Columbia River basin. We expect that this software will be deployed for production use late in 1998.

Plans for 1998 include adding support for a 'final disposition' record of PIT tagged fish to improve the granularity of fish tracking. In addition to providing the 'last monitor seen' for PIT tagged fish, we will provide a disposition record of "Transport" or "River" for each PIT tagged fish.

The PTAGIS project is continuing to support the hatchery/transportation comparative survival study coordinated by the Fish Passage Center for the states of Idaho, Oregon and Washington. This study requires the direction of a set percentage of fish from eight different hatcheries to specific locations at juvenile fish bypass facilities, based upon the unique PIT tag code carried by these fish. This "separation by code" capability was used successfully at Lower Granite dam in 1997, and will be used there again and at Little Goose and Lower Monumental dams in 1998.

- **StreamNet** is a cooperative venture of the region's fish and wildlife agencies and tribes that seeks to create, maintain, and distribute regionally consistent biological information for use in monitoring the effectiveness of the Northwest Power Planning Council's Fish and Wildlife Program as well as for a wide range of other fish management and restoration-related purposes. PSMFC serves as both project administrator and coordinator. Data development targets critical needs as identified in the Fish and Wildlife Program, the National Marine Fisheries Service's anadromous fish recovery plans, and other related policy documents. Data categories include anadromous species production and survival trends, anadromous and resident species distribution and life history, habitat, dams and other facilities, historic river operations, and mitigation projects. Data are delivered via the Internet and custom products. StreamNet also provides technical assistance and services to a range of Fish and Wildlife Program activities and projects. The StreamNet Library maintains original source materials for data in the StreamNet system and provides a full range of library services to Columbia River Basin fish and wildlife scientists, managers, and policy makers. The StreamNet Library is the region's principal location for "gray" literature related to Columbia River Basin fisheries.

Principal achievements over the past year were: (1) the introduction of a new and greatly expanded Internet data query system; and (2) the incorporation of several new data features including comprehensive anadromous fish distribution data. This new system offers great flexibility in accessing data. The user may focus on a specific geographic area, species, or management factor. User defined on-line maps can also be generated. The StreamNet Internet site has been expanded to include a glossary, a comprehensive species database, and several educational features. The address for the StreamNet home page is [www.streamnet.org](http://www.streamnet.org). StreamNet is also cooperating with the NMFS to integrate available anadromous species production and survival trend data for coastal Oregon and Washington and Puget Sound. Plans are being made to add similar data for California.

In response to new scientific findings, the StreamNet data plan is being revised to include population and genetics, age and sex composition, and additional resident fish and habitat parameters. StreamNet is also intensifying its support services for fish restoration activities and projects. These services include technical support, custom products, and data storage and delivery. Services specifically target: (1) tracking of Fish and Wildlife Program projects, (2) monitoring and evaluation activities, and (3) watershed, stock assessment, and research projects. Other services will include maintaining Fish and Wildlife Program project records through the StreamNet Library and increased use of the StreamNet Internet site to deliver Fish and Wildlife Program-related information.

- The **Alaska Fisheries Information Network (AKFIN)** is a cooperative effort between the Alaska Department of Fish and Game (ADFG), National Marine Fisheries Service, Alaska Region (NMFS-AKR) and Science Center (NMFS-AFSC), and PSMFC to gather and disseminate detailed Alaska groundfish and shellfish fisheries information. Early in 1997, the project established a permanent office and staff in Juneau, Alaska. The office moved to its current Juneau location at 612 W Willoughby Ave, Suite B in November. Initial work included establishing technical contacts within the various agency data sources, and forming a steering committee, an advisory committee and a technical committee. The Steering Committee, comprised of senior managers and users who serve as active advisors in the review and prioritization of project tasks and goals, first met in March of 1997. The committee met quarterly in 1997 with meetings in June and September.

Staff completed a feasibility study to investigate the best options for combining data from the three primary agencies (ADFG, NMFS-AKR & AFSC). From that study, preliminary goals and products to be completed were agreed upon. Those products will include reports based on total catch, retained catch, and catch value. A database specialist was hired in June 1997 to lead modeling and design of the new central AKFIN database. A server was ordered and delivered in November 1997, and a local area network and Internet communication were established in December. Sample data from all the primary sources were collected by the end of the year.

The core activity of the AKFIN staff during 1997 has been a detailed identification and survey of critical components of fisheries information from the existing agency data sources. The information varies in its compatibility with other fishery data because each agency has collected information to meet some specific purpose or need. AKFIN's goals are to provide a new and more flexible repository of fishery data for fish managers and economists. New users of AKFIN have requested a more global, integrated view of the fishery information and the expanded opportunities and relationships of that disparate data. AKFIN will not only serve to establish a comprehensive data repository of fishery information and as a technical facilitator, but will also serve as a focal point for a community of public and agency interest in the overall quality of fishery information. Some

additional AKFIN projects currently being funded or under consideration include: cleaning historical data, reviewing collection methods and codes, standardizing data designs and integration, and providing public access to better integrated fishery information without compromising confidentiality.

- The **Fisheries Economics Database** project is a cooperative data collection effort to address the data needs of fishery economists on the West Coast and Alaska. This will entail annual industry cost and effort surveys, and investigation of other possible data sources. A survey slated for implementation during summer 1998 will focus on the trawl fisheries on the West Coast, and the walleye pollock fishery in the Bering Sea. Staff are working to stratify the West Coast fleet in order to allow a more efficient survey. This will provide a descriptive framework of the fleet, permitting more consistent communication. Other possible data sources under investigation include acquiring data from industry bookkeepers and accountants, establishing a separate economic logbook, and revising existing fish tickets or logbooks.
- The accomplishments of the **Computer Services Center** during 1997 included:
  - Setting up the computer system and computer network at the AKFIN office. This included: setup and installation of a Sun Enterprise Server 450 (DB server), setup of a LAN, a firewall, and an Internet connection, and reconfiguring the NT workstations
  - The UNIX dial-in modem bank is now configured to work with point-to-point protocol (PPP). We now have 8 modems to provide remote dial-in and PPP access to the Internet, and an NT RAS dial up Modem bank of 3 modems for LAN access.
  - This year we merged our mail servers and web servers into the Netscape Suitespot product line. We now have unified standards-based servers, which can be run from UNIX or NT and managed from any operating system (OS). Servers for web, mail, calendar and directory services are included in the Suitespot product line.
  - Staff performed a variety of setup and upgrade procedures to Sun, Solaris, UNIX, and NT servers and workstations. In the process of upgrading most computers to NT, we upgraded both hardware and software on many computers, including memory, processors, disk space, and in some cases, entirely new computers.
  - PSMFC purchased a color copier/printer with scanning capabilities, which will allow us to do near photographic quality reproduction and various enlargement/reductions and enhancements. It should also reduce overall publication cost in the future.
  - The section added a "Technical Information Specialist" position to help write and edit technical documentation and newsletters, and to design and maintain web sites which PSMFC hosts for in-house projects and outside agencies. Web sites developed or maintained in 1997 included those for: the Pacific Fishery Management Council ([www.p-council.org](http://www.p-council.org)); StreamNet ([www.streamnet.org](http://www.streamnet.org)); For the Sake of the Salmon (4SOS) ([www.4sos.org](http://www.4sos.org)); Oregon Plan (also known as the Oregon Coastal Salmon

Restoration Initiative) ([www.oregon-plan.org](http://www.oregon-plan.org)); Inter-organizational Resource Information Coordinating Council (IRICC) ([www.ircic.org](http://www.ircic.org)); and prototypes for the AKFIN site and a redesign of the PSMFC site. Publications included PSMFC's 50 year anniversary booklet, the Habitat Hotline, and the PTAGIS Newsletter

- During 1997 the **RecFIN** Committee provided for sampling of marine recreational fisheries in California, Oregon, and Washington using the nationwide Marine Recreational Fisheries Statistics Survey (MRFSS) methodology integrated with state sampling programs. RecFIN now has an expanded web page at PSMFC ([www.psmfc.org/recfin/](http://www.psmfc.org/recfin/)) which allows managers and the public to access recreational fisheries catch and effort data. The MRFSS data set resides at PSMFC as the foundation of RecFIN. The MRFSS data includes year-round catch and effort estimates in all modes of fishing from 1980-1989 for California, Oregon and Washington; 1993 to 1998 for California and Oregon; and 1996 to 1998 for Washington. Descriptions of the various surveys providing catch and effort data to RecFIN can be found on the RecFIN web site. During 1997 an economic survey add-on to RecFIN was finalized and prepared for incorporation into the basic field and telephone interviews for 1998, along with a follow-up telephone interview of all anglers intercepted in the field.

Special summaries of RecFIN data were developed in 1997 for use by the Pacific Fishery Management Council's Groundfish Management Team, featuring pre-formatted species groupings corresponding to the Groundfish Management Plan. This information is accessible in estimate queries on the RecFIN web page by selecting "PFMC taxonomy" as a row labels option. In addition to sorting, displaying and summarizing catch, the database can now be used for "Species Calculator" operations. This tool performs various calculations or conversions for any marine fish, such as computation of fork length to total length; expected length for a particular weight; or weight for a given length; as well as conversion from pounds to kilograms

During 1997 the MRFSS estimated that slightly over 14 million fish were caught in California, Oregon and Washington by marine sport anglers. This catch was a result of 7,125,500 angler trips coastwide. The total effort and catch (all species) by state are follows: California - 4,961,400 trips, 10,446,000 fish caught; Oregon - 593,400 trips, 1,439,300 fish caught; and Washington - 1,570,700 trips, 2,313,200 fish caught. Detailed information can be viewed, sorted, printed, or downloaded from the RecFIN web page



**Figure 2.** RecFIN samplers record biological information for use by recreational fishery managers.

- The Bonneville Power Administration (BPA) **Northern Squawfish Predator Control Program** was again administered by PSMFC in 1997. PSMFC subcontracted parts of the program to the state agencies of Washington and Oregon, Columbia River treaty tribes, Columbia River Intertribal Fish Commission (CRITFC) and Columbia Basin Fish and Wildlife Authority (CBFWA). Washington ran the sport-reward registration/creel check stations throughout the river and handled all fish checked in to the program. Oregon provided fish tagging services, population studies, food habit and reproductive studies, and exploitation rate estimates. PSMFC contracted with the CBFWA for technical administration of the program PSMFC provided fiscal and contractual oversight for all segments of the Program and processed all reward vouchers for sport-reward anglers. CRITFC and the treaty tribes conducted angling at the dams and site-specific removals using gillnets at tributary mouths to aid downstream salmonid migration survival.

The 1997 season ran from May 19 through October 14. There were 117,875 fish harvested in the sport-reward fishery, and rewards totaled \$470,175. An additional 192 tagged fish were returned for tag reward payments totaling \$9,600. Biweekly tournaments at each of the eleven registration stations, three radio station-sponsored tournaments, and a Portland-area tournament run by the Program paid an additional \$38,955 in prize money. A total of 1,963 registered anglers caught one or more fish in 1997.

A review of the Program's impact on reducing predation by Northern squawfish during the last five years was completed during the fall of 1997; BPA publication is scheduled for 1998.

- PSMFC's **Habitat Hotline** is a newsletter which informs fishermen and fisheries conservationists, conservation groups, state and federal agencies, and PSMFC

Commissioners and advisors about important habitat issues in the five PSMFC member states. Information on national legislation and rule-makings is also included. It is hoped that as habitat issues arise, commercial and recreational fishermen, as well as fish conservationists, will use the Habitat Hotline to inform others about issues of regional importance. In 1997, five issues of the Habitat Hotline were printed. One major issue covered in 1997 was the Essential Fish Habitat (EFH) mandates of the Magnuson-Stevens Act. The Hotline served to inform its readership, now at about 1,400, of the national implementation of EFH by the National Marine Fisheries Service, as well as regional EFH action by the Pacific Fishery Management Council.

- The **F.I.S.H. Habitat Education Program** organized a forum to gather public input on the draft rules to implement the Essential Fish Habitat Provisions of the Magnuson-Stevens Act on behalf of the American Fisheries Society and the National Marine Fisheries Service. Over 90 people including fishermen, fish processors, Pacific Fishery Management Council staff and members, environmental group representatives and federal, state and tribal agencies participated in the facilitated sessions. They commented on definitions of essential habitat, predator-prey relationships, descriptions of adverse effects and conservation measures (including the adverse effects of fishing on habitat), ways to make habitat comments to agencies more effective, and ways to evaluate and track results of habitat consultations.

The Program also conducted two "Fish Chat" events that brought over 100 Washington sport, commercial, and tribal fishermen and environmentalists together to discuss habitat concerns, perspectives, and work efforts. These events, organized in partnership with Save Our Wild Salmon, the Washington Wilderness Coalition, and the NW Ecosystem Alliance were held in informal locations to encourage attendance and provide a non-threatening environment. The discussion and information sharing events have been well-received, forged contacts, and opened lines of communication.

Similarly, the Program's Flying for Fish Habitat project, conducted with the assistance of LightHawk, provided habitat issue orientations and watershed over-flights to a mixed audience of 46 fishermen, city and county planning commissioners and elected representatives, agency officials, and watershed restoration group participants. Five watershed orientations and flights focused on the White and Green River watersheds near Seattle, and on the Skagit River watershed near Bellingham. Organizational support and enough outreach materials were provided to allow four additional flights in these watersheds. As a result of the Skagit River habitat tour, the Northwest Marine Trade Association (NMTA) committed to help fund Skagit River restoration efforts. A non-profit arm of NMTA dedicated to restoration programs in the Skagit system has begun work with the help of Washington Department of Fish and Wildlife biologists.

The Program lead efforts of Oregon's Mid-Coast Watersheds Council to obtain funding, hire a full-time watershed group coordinator, establish a workplan, and finalize bylaws. The Council is now a viable, productive entity capable of organizing and overseeing watershed and salmon restoration efforts on the central Oregon coast. The Program also assisted the Council's technical team to plan and seek funding for over 30 habitat assessment, protection, and restoration projects worth \$1.1 million. Other Oregon activities included working with an erosion-control task force to draft rules and guidelines for controlling sediment pollution from small construction sites.

In California, the Program focused on boater pollution prevention education. With the assistance for the California Department of Fish and Game, the program distributed 13,000 *Protecting Fish Habitat-- A Guide for Fishermen and Boaters* brochures to all boat owners purchasing or renewing their vessel licenses. The Program also wrote and distributed two articles on "green boating" to California marinas and boating associations for their adaptation and use in their publications. Other work supported outreach efforts at boating and fishing shows.

---

## 1997 PUBLICATIONS

*Habitat Hotline* (published periodically) is a bulletin board of current events dealing with water quality, wetlands development, logging, and other habitat issues that affect fisheries.

*Helping the Salmon; Restoring Habitat and Hope* (February 1997) is a 20-minute salmon restoration slide show developed for use by watershed councils and fishing groups throughout the region. The slide show was designed for presentations to either county and city land-use planning groups, or general public groups such as Chamber of Commerce, Rotary, or high school classes. It is available for either purchase or loan, and comes with a printed and electronic (computer disk) script for easy adaptation. Cost to purchase the slide show in a slide tray, \$80; to purchase the slide show in plastic sleeves - no tray, \$68; to borrow the slide show for a 3-week loan, \$80 (refundable). Contact: Fran Recht, PSMFC, PO Box 221, Depoe Bay, OR 97341.

*1997 PIT Tag Specification Document* (February 1997) ensures interagency continuity of PIT-tag data and facilitates data entry to and retrieval from the Columbia River Basin PIT-Tag Information System (PTAGIS).

*Regional Mark Information System (RMIS) User Manual* (August 1997) describes how to access region-wide coded-wire tag (CWT) release and recovery information via either the Internet or dial-up interfaces.

*49th Annual Report of the Pacific States Marine Fisheries Commission for the Year 1996* (September 1997) contains a summary of PSMFC activities, funding, and expenditures, and reviews selected Pacific Coast fisheries statistics for 1996.

*Pacific Salmonid Coded Wire Tag Releases: 1990 - 1997* (December 1997) documents coded-wire tag (CWT) releases of Pacific coast salmon and steelhead during 1990 through 1997.

---

## FINANCIAL, AUDIT, AND BUDGET REPORTS

The Commission receives its financial support from contributions from its member states, grants, contracts, and indirect cost charges on external contracts. Since 1977, the states' contributions have remained level funded at \$106,000 per year. These contributions are made available from the member states in accordance with Article X of the Interstate Compact which created the Commission. The formula calls for eighty percent of the total contributions to be shared equally by those states having as a boundary the Pacific Ocean and five percent from Idaho. The fifteen percent balance is divided by the states in proportion to the primary market value of the products of their commercial fisheries on the basis of the (then) latest 5-year catch records.

<b>COMBINED BALANCE SHEET - JUNE 30, 1997</b>					
	General Fund	Special Revenue	General Fixed Assets	General Long-Term Debt	Totals
<b>ASSETS</b>					
Cash and Investments	820,758	0	0	0	820,758
Due from other Funds	3,941,728	992,726	0	0	4,934,454
Receivables:					
Grants and Contracts	0	3,941,728	0	0	3,941,728
Other	13,821	0	0	0	13,821
Prepays	22,085	0	0	0	22,085
Fixed Assets	0	0	4,204,404	0	4,204,404
Amount to be Provided for Retirement of General Long-Term Debt	0	0	0	656,611	656,611
<b>Total Assets</b>	<b>4,798,392</b>	<b>4,934,454</b>	<b>4,204,404</b>	<b>656,611</b>	<b>14,593,861</b>
<b>LIABILITIES AND FUND EQUITY</b>					
Liabilities					

Due to Other Funds	992,726	3,941,728	0	0	4,934,454
Accounts Payable	2,058,717	0	0	0	2,058,717
Payroll Liabilities	421,423	0	0	0	421,423
Accrued Compensated Absences	262,071	0	0	0	262,071
Tenant Deposits	2,452	0	0	0	2,452
Advances	650,289	0	0	0	650,289
Capital Lease Obligations	0	0	0	78,081	78,081
Real Estate Contracts	0	0	0	578,530	578,530
Deferred Revenues	0	992,726	0	0	992,726
Total Liabilities	4,387,678	4,934,454	0	656,611	9,978,743
Fund Equity					
Investment in General Fixed Assets	0	0	4,204,404	0	4,204,404
Fund Balance Reserved for Prepaid Insurance	22,085	0	0	0	22,085
Unreserved Fund Balance Designated for Subsequent Years' Expenditure	388,629	0	0	0	388,629
Total Fund Equity	410,714	0	4,204,404	0	4,615,118
Total Liabilities and Fund Equity	4,798,392	4,934,454	4,204,404	656,611	14,593,861

## 1997 Audit Report

To the Board of Commissioners  
Pacific States Marine Fisheries Commission  
Clackamas County, Oregon

We have audited the general purpose financial statements of Pacific States Marine Fisheries Commission, as of and for the year then ended June 30, 1997, as listed in the table of contents. These general purpose financial statements are the responsibility of the Commission's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with generally accepted auditing standards and *Government Auditing Standards*, issued by the Comptroller General of the United States and the Office of Management and Budget Circular A-128, *Audits of State and Local Governments*. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the general purpose financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the general purpose financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the general purpose financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the general purpose financial statements referred to above present fairly, in all material respects, the financial position of the Pacific States Marine Fisheries Commission, at June 30, 1997 and the results of its operations for the year then ended are in conformity with generally accepted accounting principles.

In accordance with *Government Auditing Standards*, we have also issued a report dated September 19, 1997 on our consideration of the Commission's internal control structure and a report dated September 9, 1998 on its compliance with laws and regulations.

Our audit was conducted for the purpose of forming an opinion on the general purpose financial statements taken as a whole. The supplementary data as listed in the table of contents is presented for purposes of additional analysis and is not a required part of the general purpose financial statements. Such information has been subjected to the auditing procedures applied in the audit of the general purpose financial statements and, in our opinion, is fairly stated in all material respects in relation to the general purpose financial statements taken as a whole.

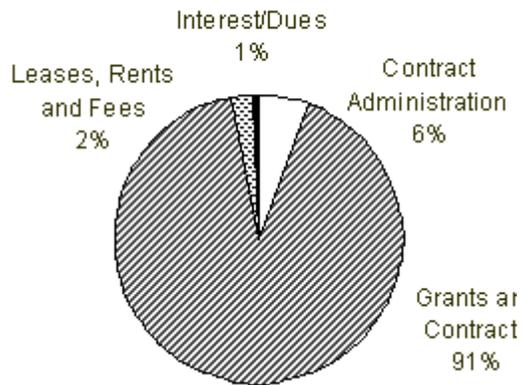
Submitted by Pam Kahut, Fiscal Manager/Treasurer

Pauly, Rogers and Co., P.C.  
Tigard, Oregon  
September 9, 1998

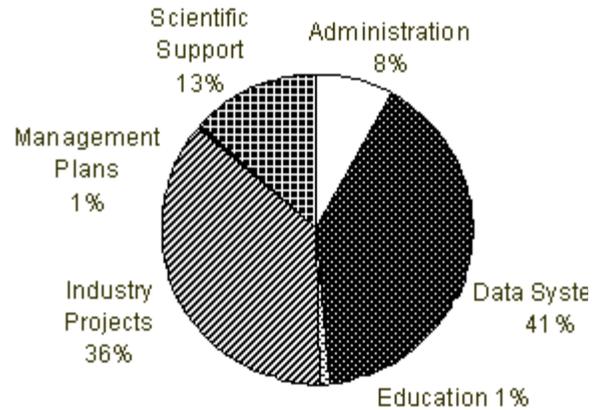
*Editors Note: Copies of the complete auditor's report are available upon request*

## **1997 PSMFC OPERATING BUDGET**

## REVENUES



## EXPENDITURES



External Contracts for the Period	
July 1, 1996 - June 30, 1997	
NMFS AKFIN	\$106,887
NMFS Albacore Logbook & Port Sampling	77,256
NMFS Bering Sea Observers/Conference	36,686
NMFS Coordination/Implementation Work Plans	147,743
NMFS Economic Analysis	8,234
NMFS For the Sake of the Salmon	1,114,374
NMFS Interjurisdictional Fisheries Program	145,109
NMFS Miscellaneous contracts	26,534
NMFS Northwest Emergency Assistance Program	1,839,151
NMFS Pacific Fisheries Information Network (PacFIN)	2,091,848
NMFS Recreational Fisheries Information Network (RecFIN)	942,077
NMFS Scientific Support (Investigate Genetic Variability)	37,293
NMFS Smolt Monitoring/Transportation	924,255
NMFS Streamnet	76,937

NMFS/USFWS Regional Mark Processing Center	267,059
USFWS Lewiston Fish Habitat	29,648
USFWS Trinity Lewiston	3,274
USFWS W/B Administration	217,810
PFMC/NPFMC Council Support	68,022
State Department Management of Straddling Fish Stocks	47,680
BPA Columbia River Coded Wire Tag	1,218,887
BPA Integrated Hatchery Operations	675,404
BPA PIT Tag Data Base	2,284,556
BPA Regional Rivers Information System	83,447
BPA Smolt Coordination (FPC)	1,080,737
BPA Smolt Monitoring	1,085,413
BPA Squawfish Sport Reward Program	2,985,784
BPA Streamnet	1,938,134
Multi-Agency Fish Marking Coordination Support	32,515
USFS Data Sharing	13,230
CA Sonoma County Abalone	4,805
CDFG Bay Estuary	193
CDFG Grow Pen Coordinator	69,992
CDFG Natural Resource Damage Assessment Model	69,129
CDFG Sea Urchin Fishery	66,454
CDFG Yreka Fish Habitat	34,443
ODFW Groundfish Observers/Data Collection	57,888
ODFW/PSMFC Whiting Observer Program	25,600
ODFW/WDFW Fish Bypass Transportation Program	60,841
ODLCD Kelp/Reef Habitat Assessment	58,934
WDFW Cowlitz Falls	75,571
WDFW Handford Reach Stranding	36,348
AFS Fish Habitat	12,935

Miscellaneous other contracts	32,838
Total Contracts	\$20,211,955

---

**PERSONNEL IN 1997**

<b>STATE</b>	<b>COMMISSIONERS</b>	<b>ADVISORS</b>	<b>COORDINATORS</b>
<b>Alaska</b>	<ul style="list-style-type: none"> <li>• Dale Kelley, Juneau</li> <li>• Loren Leman, Anchorage</li> <li>• David Benton, Juneau</li> </ul>	<ul style="list-style-type: none"> <li>• Chris Blackburn, Kodiak</li> <li>• Liz Cabrera, Petersburg</li> <li>• Paul Gronholdt, Sand Point</li> <li>• Don Lane, Homer</li> <li>• Henry Mitchell, Anchorage</li> <li>• Doug Ogden, Anchorage</li> <li>• Bruce Wallace, Ketchikan</li> </ul>	<ul style="list-style-type: none"> <li>• Phil Rigby, Alaska Dept. Fish &amp; Game</li> </ul>
<b>California</b>	<ul style="list-style-type: none"> <li>• Jacqueline Schafer., Sacramento</li> <li>• David Ptak, San Diego</li> <li>• Nao Takasugi, Sacramento</li> </ul>	<ul style="list-style-type: none"> <li>• Robert Fletcher, San Diego</li> <li>• Zeke Grader, Sausalito</li> <li>• Don Hansen, Dana Point</li> <li>• Charles Platt, Fort Bragg</li> <li>• Robert Ross, Sacramento</li> <li>• Roger Thomas, Sausalito</li> <li>• Tony West,</li> </ul>	<ul style="list-style-type: none"> <li>• L.B. Boydston, California Dept. Fish &amp; Game</li> </ul>

		San Pedro	
<b>Idaho</b>	<ul style="list-style-type: none"> <li>• Stephen Mealey, Boise</li> <li>• Richard Meiers, Eagle</li> <li>• Bruce Sweeney, Lewiston</li> </ul>	<ul style="list-style-type: none"> <li>• Jack Brown, Soda Springs</li> <li>• Keith Carlson, Lewiston</li> </ul>	<ul style="list-style-type: none"> <li>• Ed Bowles, Idaho Dept. Fish &amp; Game</li> </ul>
<b>Oregon</b>	<ul style="list-style-type: none"> <li>• Paul Heikkila, Coquille</li> <li>• Bob Montgomery, Cascade Locks</li> <li>• Jim Greer, Portland</li> </ul>	<ul style="list-style-type: none"> <li>• Joe Easley, Astoria</li> <li>• Steve Fick, Astoria</li> <li>• Ginny Goblirsch, Otter Rock</li> <li>• Bob Jacobson, Newport</li> <li>• Dick Overfield, Newport</li> <li>• Joe Rohleder, Waldport</li> <li>• Frank Warrens, Portland</li> </ul>	<ul style="list-style-type: none"> <li>• Kay Brown, Oregon Dept. Fish &amp; Wildlife</li> </ul>
<b>Washington</b>	<ul style="list-style-type: none"> <li>• Bern Shanks, Olympia</li> <li>• Harriet Spanel, Bellingham</li> <li>• Dean Sutherland, Vancouver</li> </ul>	<ul style="list-style-type: none"> <li>• Bill Robinson, Olympia</li> <li>• Ron Schultz, Olympia</li> <li>• Terry Wright, Olympia</li> <li>• Robert Zuanich, Seattle</li> </ul>	<ul style="list-style-type: none"> <li>• Jim Hoff, Washington Dept. Fish &amp; Wildlife</li> </ul>

### PSMFC EXECUTIVE STAFF

- Randy Fisher, Executive Director
- David Hanson, Deputy Director
- Pam Kahut, Fiscal
- Stan Allen, IMS Chief
- Willy Kelly, PC/LAN Systems Administrator

- Manager/Treasurer
- Rick Masters, Accounting Supervisor
- Renee Barrett, Accounting Assistant
- Glenda White, Accounts Payable Clerk
- Nancy Walters, Grants/Contracts Specialist
- Sherry Holley, Personnel/Payroll Manager
- Matt Robertson, Personnel/Payroll Assistant
- Elizabeth Graves, Employee Benefit Specialist
- Wanda Swainson, Payroll/Fiscal Clerk
- Al Didier, Program Manager
- Fran Recht, Habitat Education Program Manager
- Stephen Phillips, Habitat Specialist
- Russell Porter, Field Programs Administrator
- Craig Miller, Field Programs Data Technician
- Wade Van Buskirk, RecFIN Programmer/Analyst
- Sharon Hittle, Executive Assistant
- Teresa Fairchild, Clerical Specialist
- Genna Golden, Clerical Specialist (part time)
- Kathy Shimojima, Clerical Specialist (part time)
- Todd Kaehler, UNIX Systems Administrator
- Liza Bauman, Technical Information Specialist
- J. Kenneth Johnson, RMPC Manager
- James Longwill, RMPC Computer Specialist
- Will Daspit, PacFIN Data Manager
- Christian Bantzer, PacFIN Analyst/Programmer
- Andy Ganse, PacFIN Analyst/Programmer
- Brad Stenberg, PacFIN Data Systems Operator
- Dave Colpo, Fisheries Economics Analyst/Programmer
- Doug Babson, AKFIN Data Manager
- Wayne Painter, AKFIN Analyst/Programmer
- Carter Stein, PTAGIS Database Administrator
- Jennifer Mead, PTAGIS Computer Programmer
- Don Warf, PTAGIS Field Systems Engineer
- Scott Livingston, PTAGIS Engineering Technician
- Drew Parkin, StreamNet Project Manager
- Duane Anderson, StreamNet Data Manager
- Gary Christofferson, StreamNet Assistant Data Manager
- Matt Freid, StreamNet GIS Data Specialist