



**Pacific States Marine
Fisheries Commission**

56th Annual Report

For the Year 2003

56th Annual Report
of the
Pacific States Marine Fisheries Commission

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
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2003



Pacific States Marine Fisheries Commission Members
2003

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Alaska	Kevin Duffy Dale Kelley Georgianna Lincoln	Liz Cabrera Terry Johnson Don Lane Matthew Moir Gabe Sam Stephanie Madsen	Herman Savikko Alaska Dept. of Fish and Game
California	Dede Alpert Martin Basch Robert Hight	Robert Fletcher Zeke Grader Don Hansen Robert Ross Roger Thomas Tony West	Patty Wolfe California Dept. of Fish and Game
Idaho	George Eskridge Steve Huffaker Cameron Wheeler	Marcus Gibbs Alex Irby	Sharon Kiefer Idaho Dept. of Fish and Game
Oregon	Capt. Lindsay A. Ball Paul Heikkila Wayne Krieger	Joe Easley Ginny Goblirsch Frank Warrens Rod Moore Liz Hamilton Bob Jacobson Steve Fick	Ed Bowles Oregon Dept. of Fish and Wildlife
Washington	Dr. Jeff Koenings Harriet Spanel Jim Buck	Mark Cedergreen Bill Robinson Ron Schulz Terry Wright	Phil Anderson Washington Dept. of Fish and Wildlife

Commissioners-Advisors-Coordiators



PSMFC—56th Annual Meeting Summary

The 2003 PSMFC Annual Meeting was held on September 21-24 in Sun Valley, Idaho. Steve Huffaker, Director of the Idaho Department of Fish and Game served as Chairperson.

Commission members were given updates on federal appropriations for the 2003-2004 fiscal year, as well as legislation on Marine Mammal Protected Areas, and the year's activities by both the Pacific and North Pacific Fishery Management Councils. Dr. Elizabeth Clarke presented the role of science in the Council process and NOAA Assistant Administrator Dr. Bill Hogarth reviewed and updated the Commission on the state of NOAA Fisheries. Mary Hope Katsouras and Bill Merrill presented their findings from a series of NOAA regional meetings they conducted for NOAA Fisheries.

Focusing on ocean fishery issues, Dr. Andy Rosenberg from the University of New Hampshire gave a presentation on the U.S. Commission of Ocean Policy. Dorothy Lowman from the Natural Resources Defense Council and Bruce Turriss of Pacific Fisheries Management, Inc. discussed Canada's experience with individual vessel quotas. Craig Urness of Pacific Seafood gave an overview of what transpired at a series of west coast processor meetings. Bill Robinson from NOAA Fisheries presented what NOAA has done with vessel monitoring systems, observing by-catch and how that might relate to full retention. PSMFC's Jim Benante explained the role of the Observer program in the groundfish fishery, and Stephen Phillips gave an update on ANS and ballast water activities.

Salmon recovery was also discussed at the meeting. Doug Marker of the NW Power and Conservation Council and Joe Scordino and Rick Applegate, representing NOAA Fisheries, each gave presentations and led discussions on the status of the Columbia River recovery. Carter Stein from PSMFC gave a lunchtime presentation of what the PIT Tag program and PTAGIS contributes to this ongoing pursuit of salmon recovery.

During the Business Meeting held on September 24th, the Commission made the following decisions for the respective issues:

Magnuson/Stevens Fishery Conservation & Management Act (MSFCMA) Reauthorization—To reaffirm the work group approach for monitoring and recommending reauthorization language and draft legislation to the Magnuson/Stevens Act. Any language or draft legislation recommended by the work group would replicate the Commission's decision that was made in 2002. (Vote: 5-0)

Marine Mammal Protection Act (MMPA) Reauthorization—To reaffirm the work group approach and suggested that the states assign someone as a representative to the group. The work group would work closely with Rick Marks, who is involved in Marine Mammal Act activities in Washington, D.C. The Commission wants to insure that the states' perspective on harassment and export/import issues are dealt with under those activities. (Vote: 5-0)

Marine EEZ Aquaculture Bill—To reconvene the previously established aquaculture working group to review the findings of the November 17-19 conference in Seattle and to make recommendations on future Commission action. (Vote: 5-0)

The Commission also moved that NOAA Fisheries should re-evaluate its role regarding the promotion and subsidy of aquaculture. NMFS should continue its regulatory, research and management responsibilities. Regardless of what direction it takes, local stakeholders, regional councils and state agencies should have significant and meaningful input into decisions related to the siting of aquaculture facilities, their operation and other significant issues associated with aquaculture. (Vote: 5-0)

- ◆ A workgroup will be available to address and answer concerns that arise.

National Data Systems—Directed the staff to write a letter to Dr. Hogarth supporting the concept of the Commission assisting in the development and implementation of a regional data system that will feed into and support the core elements of a national data system. (Vote: 5-0)

Funding Research (*Funding of regional fishery management councils for highly migratory species research, West Coast ecosystem management and NEPA.*)—Directed the staff to lobby for the following list of items for the 2004 budget. (Vote: 5-0)

- ◆ \$15.5 million for the regional fishery management councils
- ◆ \$750,000 for the Pacific highly migratory species research including \$150,000 for the Pacific Fishery Management Council
- ◆ \$5 million for the West Coast ecosystem management demonstration project, to be distributed by the Commission
- ◆ \$8 million for NEPA

West Coast Recreational Data Program—Directed the staff to send a letter to Dr. Hogarth requesting that the 2004 appropriation for the West Coast Recreational Data Program be continued at the 2003 level. (Vote: 5-0)

Essential Fish Habitat (EFH) Program—Directed the staff to further define the issues and determine the amount of funding needed for research for the EFH program.

PacFIN Funding—Directed staff to write a letter to NOAA requesting an additional \$200,000 in the 2004 budget for PacFIN. (Vote: 5-0)

Vessel Monitoring System (VMS)—Directed staff to lobby for full funding of the acquisition costs consistent with other programs for the VMS. (Vote: 5-0)

Mitchell Act Hatcheries—Directed staff to lobby for restoration of the current level of funding for the Mitchell Act hatcheries in FY04 and FY05 and to return to the Commission for longer term needs when the entire hatchery plan is developed. (Vote: 5-0)

Marine Sanctuaries—Directed the staff to write a letter to Secretary Don Evans at the Department of Commerce. A copy of that letter will be directed to Admiral Lautenbacher designating regional fisheries management councils and National Marine Fisheries Service as the lead agency for all fisheries management in Federal waters. (Vote: 5-0)

Columbia River Hydro Bi-Op—Directed staff to write a letter to NOAA Fisheries stating: 1) that the operating agencies must meet their obligations first and foremost and should not shift the conservation burden to the watersheds; 2) that full implementation of the flow and spill measures is needed; and 3) that PSMFC supports habitat protection and enhancement based on existing state and federal law but not on the backs of failed federal hydro system improvements. (Vote: 5-0)

Marine Selective Fishery and By-Catch Reduction Research—Directed staff to continue to lobby for \$1 million for West Coast Cooperative Research, such as by-catch reduction, gear development, etc. (Vote: 5-0)

Selective Commercial Salmon Fishery Research—Voted to not send a letter to BPA and Congress in support of continued funding for the commercial selective gear research and evaluation of the use of tangle nets in the spring Chinook fishery within the Columbia River system. (Vote: 2-3)

Rockfish Conservation Area Enforcement—Decided that this issue should be addressed through the Council process.

Integration of Recreational Fishing Surveys—Directed the staff to work with international and NOAA staff to encourage them to develop survey information agreeable to both parties. (Vote: 5-0)

State of Washington will host the 57th Annual Meeting to be held at the Grand Hyatt Seattle, Seattle, Washington, September 19-22, 2004.

2003 PACIFIC STATES MARINE FISHERIES COMMISSION AWARD

FOR CONTRIBUTION TO PACIFIC COAST FISHERIES

The Commission's 2003 Award for outstanding contribution in support of Pacific coastal marine fisheries resources was presented to

United States Senator Mike Crapo
State of Idaho

It gives the Pacific States Marine Fisheries Commission great pleasure to recognize the contributions of Senator Mike Crapo through this award for 2003.





During 2003, development efforts in the PacFIN office focused upon: enhancement of the logbook and qsm systems, development of BDS system retrievals for stock assessment authors, changes related to the reconfiguration to the OFIS hardware system structure, participation in a coastwide biological data meeting, NMFS NWR retrievals were developed in support of the west coast vessel buyback program, modification of the limited-entry permit subsystem, standard reports on the PacFIN website were enhanced, W-O-C permit system development was finalized, the fusport table was created for the NMFS/ST1 office, participation in a HMS-PacFIN meeting, the NPFMC reports were enhanced and posted to the webpage, analysis and design for the fish-ticket (FT) and fish-ticket-line (FTL) catch categories was completed, data files were added to the suite of W-O-C All Species Reports, revisions were made to the PacFIN coast guard (CG) table, and numerous data requests were processed.

An enhancement for the WDFW portion of the LBK subsystem was started in February and completed in April. These enhancements included adding tow ending positions starting with 2003, adding tow_date to each tow record, and providing more exact set position data.

Oracle SQL*Plus retrieval routines were developed at the request of stock assessment authors. One of these retrieval routines is slct_bds_sp_csv, is intended to be used by stock assessment authors and other investigators directly.

The NWR made a request for information about each west-coast vessel holding a limited-entry permit. This information was to be used as part of the federal buyback project. For each vessel, the average annual total ex-vessel revenue for groundfish, dungeness crab, and pink shrimp for the three highest revenue years between 1998 and 2001 was requested. The necessary routines were developed and made available to the NWR.

The WOC-OBS transaction project was also completed during this period and added to the production system. This project was proposed by the NMFS/NWFSC during an extensive meeting and called for the NWFSC to upload fish-ticket identifiers that correspond to observed fishing trips.

A table of confidential indicators (CONFIND) was created and consists of approximately 430,000 rows per year for ADFG.

A password-protected webpage was established on the PSMFC/PacFIN website and the standard suite of NPFMC reports for 1991-2003 were posted to this page. The reports are posted on the public webpage.

A set of comma delimited data files was added to the suite of W-O-C All Species Reports that are posted on the website and refreshed monthly. Each annual data file includes non-confidential summations of catch and revenue for each county for all species combined, and for each species within each county. The data files for the 1981-2003 period are available on the PSMFC/PacFIN website.

The PacFIN Office processed 191 data feeds from seven data sources and responded to 130 requests-for-information. There were 171,401 visits to the PacFIN website for an average of 14,283 visits per month. This compares to 9,719 per month in 2002 and 8,939 per month in 2001.

Program Summaries



The West Coast Groundfish Observer Program (WCGOP) was implemented in July 2001 in response to the desire to increase data collection on discard rates in West Coast fisheries. The program provides coast-wide estimates of discards throughout the year. These estimates are important to stock assessments and the management of groundfish stocks. Observers collect scientific, management, and other data through on-board interviews of vessel captains and crew, observations of fishing operations, measurements of selected portions of the catch and fishing gear, and collection of samples.

During 2003, the West Coast Groundfish Observer Program (WCGOP) continued to improve and expand its efforts to provide discard information for west coast groundfish Fisheries. The program added 13 seasonal observers in February to its core of 24 year round observers. From March-October the program operated with up to 37 active observers in the field collecting data.

In 2002 the program had a total of 2,414 days at sea aboard commercial fishing vessels. In 2003 the program totaled 2,863 days on the water. This represents an 18.6 % increase of observer sea days from 2002 to 2003. In 2003, the program achieved better than 10% coverage level on limited entry trawl vessels. The table below shows the sea time observers were onboard each type of gear by state from January 2003-December 2003.

State	Trawl	Longline	Pot	Open Access
California	691	218	15	221
Oregon	1180	68	72	0
Washington	261	108	29	0
Total	2132	394	116	221

The [West Coast Groundfish Observer Program Data Report and Summary Analyses](http://www.nwfsc.noaa.gov/research/divisions/fram/Observer/narjan03.pdf) can be found at <http://www.nwfsc.noaa.gov/research/divisions/fram/Observer/narjan03.pdf>. It includes the periods September 2001-August 2003 for limited entry trawl data only. In addition there is a report titled [West Coast Groundfish Observer Program Data Report and Summary Analyses for Sablefish-endorsed Fixed Gear Permits](#) which can be found at the same web address.



The Alaska Fisheries Information Network (AKFIN) provides a framework that consolidates and supports the collection, processing, analysis, and reporting of a variety of information important for management of North Pacific fisheries. An annual grant award from National Marine Fisheries Service (NMFS) to PSMFC funds the program. These funds support an AKFIN Support Center (AKFIN-SC) and subcontracts to Alaska Department of Fish and Game (ADF&G) for related tasks.

The AKFIN-SC is a cooperative data program that maintains a fisheries information system composed of state and federal data for Alaska fisheries aggregated from: State of Alaska, ADF&G and Commercial Fisheries Entry Commission (CFEC), National Marine Fisheries Service (NMFS), Alaska Region and Alaska Fisheries Science Center, North Pacific Fishery Management Council (NPFMC), and PSMFC.

In 2003, AKFIN-SC provided the following data sets/reports:

- Fisheries of the US (FUS), fifteen reports that integrate data sources reporting on harvest by state and federal waters, disposition, port of landing, and month.
- Department of Labor (DOL), a data set of pounds, value, and permit information by fishery, used to report Alaska fisheries labor statistics submitted in an annual report by the state.
- Pacific Coast Fisheries Information Network (PacFIN), monthly summarized Alaska groundfish data provided to PacFIN.
- North Pacific Anadromous Fish Commission (NPAFC), an annual report providing harvest by major groundfish groups, halibut, herring, shrimp, and crab by area.
- PSMFC, Series of reports that detail catch by groundfish species, crab, shrimp, and urchin by month, gear, and area.
- NPFMC, value-added harvest data used for council analysis.
- Essential Fish Habitat (EFH), data provided to NOAA Fisheries analyst in support of the EFH SEIS.
- NOAA communities request, a dataset provided to NMFS Social scientists for profiling fishing communities on the west coast.

In 2003 AKFIN-SC performed the following analyses:

- Alaska Department of Fish and Game (ADFG) fish ticket analysis, clarifying differences between data generated from the legacy ADFG fish ticket system and the current system.
- Commercial Metadata application report, an in-depth review of ten commercially available products chosen based on AKFIN-SC criteria.

In 2003 AKFIN-SC developed the following software:

- Extraction Translation Load (ETL) system, used to automate the collection and versioning of data from participating fisheries agencies. The system was written using Oracle PL/SQL procedures, and generates code using the Oracle data dictionary tables.

Program Summaries



The PSMFC-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.

In 2003 the RMPC:

Developed Coded Wire Tag program summary for Northwest Power Planning Council as part of an ongoing effort to integrate the NWPPC's Fish and Wildlife Program with the region's ESA recover efforts.

This summary defined the current CWT program and identified other harvest management and monitoring needs for the Columbia Basin mainstem and systemwide province.

From this summary a mainstem/systemwide province funding proposal for tagging and recovery of CWTs in the Columbia Basin was developed.

Performed extensive reprogramming for the new PSC Version 4.0 format that was implemented in 2001.

Affected all aspects of data management (*i.e.*, data loading, validation, warehousing, exchange, and retrieval)

Modified RMIS software to make compatible with new PSC format.

Necessary to make older formats compatible and accessible in the new Version 4.0.

Moved RMIS server to a Linux server.

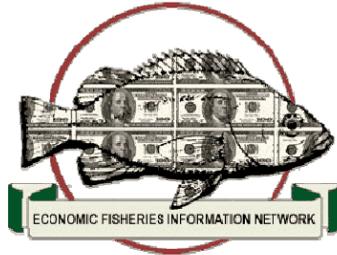
The RMPC retired its Unix server in exchange for a server running on the Linux platform.

Provided an "off the shelf" integration for RMIS and the higher performing Oracle DBMS for data management needs.

Began developing a RMIS map-based query system using GIS software.

The California Department of Fish and Game hosted the 2002 Annual Mark Meeting held in Monterey, California. The Mark Committee focused on the key issues of coastwide mass marking and selective fisheries activities. Updates were provided on Washington and Oregon's efforts to mass mark their respective production of hatchery coho and chinook. This included mass marking by the USFWS and by many of the Tribes in Washington.

The CWT data can be accessed through PSMFC's Regional Mark Information System (RMIS) via the internet (www.rmis.org or www.psmfc.org).



The Fisheries Economics Data Program is a cooperative data collection effort to address the needs of fisheries managers and industry for economic data and information for the West Coast and Alaska. This project is being conducted by the Pacific States Marine Fisheries Commission as part of a cooperative agreement with the National Marine Fisheries Service and with the help of the Pacific and North Pacific Fishery Management Councils. The goal is to provide reliable and timely data to assist with the monitoring and measuring of the economic performance of the harvesting and processing components of West Coast and Alaska fisheries.

In 2003, the EFIN staff:

- ◆ Updated "West Coast Fishing Communities" document for the PFMC. The document is set to be reviewed by PFMC. For the coming year staff goals are to:
 - Continue to update census/landings data and community profiles.
 - Expand community interview population to contribute to community profiles.
 - Tie community document to future port work being developed for summer 2003.
- ◆ Completed the "Collecting Input Prices" step of the Input Price Data Investigation and Feasibility Study". This project task required staff to contact shipping and packaging companies who were willing to provide price information on shipping materials and the prices for shipping one container of fish from several origins to various destinations.
- ◆ Completed a database for the 2001 Alaska Halibut Charter Boat Survey and created a summary document.
- ◆ Continued to conduct the monthly spot fuel price collection.
 - EFIN collects fuel prices from approximately 50 ports from Alaska to California.
 - Once each year, the previous 3 years of fuel data are used to create a report that is sent to fuel suppliers and known economists that analyze cost/earnings.
 - This report is available on the EFIN web page.
- ◆ Collected data from and tracked several indexes that aid in the analysis of fisheries economics.
 - Data are collected from these various sources on either a monthly or quarterly basis and posted on the EFIN web page.
- ◆ Continued to maintain and add to an extensive list of social and economic bibliographies and links to external sources that are useful to fisheries economists.

CALIFORNIA DATA AND TECHNICAL ASSISTANCE PROJECTS

The California Cooperative Fish and Aquatic Habitat Data Program (CalFish) website (www.calfish.org) continued in 2003 to be a multi-agency cooperative work in progress. CalFish provides access to a growing number of fish and aquatic habitat datasets. The data are available through both geographical and tabular queries. The data may be viewed and analyzed using an interactive ArcIMS platform, in conjunction with the other datasets available. Many of the following projects have data/information available through the CalFish site.

The Anadromous Fish Database currently contains 12,264 anadromous fish abundance and hatchery release records. This includes 682 new records. All of the data are organized into 1,262 datasets, 162 of which were added this year. Data are made available through the CalFish web site. In November of 2003, the California Department of Fish and Game (CDFG) and PSMFC completed and released 1:100,000 scale routed hydrography for the entire State of California.

The California Habitat Restoration Project Database (HRPD) effort continued to focus on maintaining and adding data for projects funded through the California Anadromous Fish Restoration Grants Program. A significant number of new records were added to the database from restoration projects funded through the National Fish and Wildlife Foundation (257 projects), California State Coastal Conservancy (600+ projects), NOAA Restoration Center (75 projects), Cantara Trustee Council (8 projects), and the California Conservation Corps (20+ projects). Work was also initiated with CALFED, a state/federal partnership conducting restoration efforts in the Central Valley. HRPD data is being made available via the CalFish web site.

PSMFC assisted in the compilation of data for the NOAA Fisheries Pacific Coast Salmon Restoration Fund 2003 reporting requirements in California and the Pacific Northwest. Work was continued with the California Department of Fish and Game to assist them with the administrative aspects of conducting the Adaptive Watershed Program.

A major effort was initiated in 2003 to locate and document anadromous fish passage "sites" in all California coastal watersheds. The California Passage Assessment Database (PAD) has been developed to capture this information (over 10,000 sites have been identified). Initiated and funded by the California State Coastal Conservancy, it is intended that this multi-agency cooperative effort will lead to better information on known (and suspected) fish passage issues, and ultimately the correction of them through prioritized restoration projects and funding. The PAD will be made available through the CalFish web site.



StreamNet is a cooperative project supported by the Fish and Wildlife Program of the Northwest Power and Conservation Council. Funded with Bonneville Power Administration funds, the project obtains fisheries related data from state, tribal and federal management agencies and distributes them publicly in a regionally standardized format. The project focuses on data from additional areas within the cooperating states of WA, OR, ID and MT. The StreamNet database stores and disseminates specific fisheries data, data sets that are being developed, and data housed as “Independent Data Sets” that are available “as is” from the original source.

StreamNet supports staff in the state fish and wildlife agencies of WA, OR, ID and western MT; the Columbia River Intertribal Fish Commission and US Fish and Wildlife Service to locate data sets, convert them to regional standards, and submit them to the regional database. CRITFC is also responsible for maintaining the StreamNet Library, which contains references for all data in StreamNet along with publications and reports relating to fish and wildlife in the region. The regional portion of the project at PSMFC is responsible for managing the data sets, quality control of data, and dissemination of data through the Internet at www.streamnet.org and as custom data products. Data can be obtained through an online tabular data query system and through an interactive map application.

Key accomplishments of 2003 include development of data on the distribution of interior cutthroat trout populations, increased data related to fish migration barriers and fish screens, and development of a system to archive and display data from projects outside of StreamNet. Significant progress was made toward developing hatchery release data by individual stocking site before the data are rolled up into the larger code areas for the Pacific Salmon Commission.

Data management and dissemination activities included maintenance of the various database and GIS systems at PSMFC and cooperating agencies to house and manage data. All cooperators and the regional staff responded to numerous (from 80 to 168, depending on agency) specific requests for fisheries information in addition to data obtained through the online applications. The largest single user of the StreamNet data query system in 2003 was NOAA Fisheries. Page views per month increased 28% to 75,553. This suggests that users may be obtaining more information per visit.

StreamNet provided various services to participants in the Northwest Power and Conservation Council's Fish and Wildlife Program. The project began gearing up to play a significant role in managing and distributing data developed during the recent round of subbasin planning. Our Oregon and CRITFC projects participated in the technical team supporting subbasin planning in that state. StreamNet also participated in several programs of regional scale that are involved in aquatic monitoring and data management, including the Pacific Northwest Aquatic Monitoring Partnership; the Collaborative Systemwide Monitoring and Evaluation Project of the region's fish management agencies through the Columbia Basin Fish and Wildlife Authority, and the Northwest Environmental Data-network.

In conclusion, 2003 was a successful year for the StreamNet Project. Significant progress was made in updating the existing data categories in the StreamNet database, involvement with and support of other regional programs increased, and technological improvements, such as providing data as XML, were implemented.



PIT Tag Information Systems

Columbia Basin | ptagis.org

The Columbia River PIT Tag Information System (PTAGIS) is a data collection, distribution and coordination project. The project saw over 2,334,919 juvenile salmonids marked with passive integrated transponder (PIT) tags, for the 2003 out-migration through the Columbia and Snake River systems, compared to over 1,795,000 in 2002. In 2003, over 987,000 tagged fish were detected. These fish generated over 9,760,000 interrogation records. One fish can generate many interrogation records, depending upon how many interrogation sites or monitors 'saw' the fish.

In 2003, the PTAGIS project, in cooperation with the US Army Corps of Engineers, installed PIT tag detection systems within the fish ladders at Ice Harbor Dam and Lower Granite Dam on the Snake River.

PTAGIS continues to support a number of agencies utilizing the "Separation by Code" (SbyC) system capability. This system has the capability to divert PIT tagged fish in various directions based upon distinct tag code. The PTAGIS project implemented supported nine separate Separation by Code projects for various agencies in 2003.



AQUATIC NUISANCE SPECIES PREVENTION PROGRAM

Beginning in 1999, recognizing the potentially huge economic impact to its operations from zebra mussels (and secondarily mitten crabs), the Bonneville Power Administration (BPA), as well as the U.S. Fish and Wildlife Service (USFWS) contracted with and provided program support to, the Pacific States Marine Fisheries Commission (PSMFC), to conduct an aquatic nuisance species prevention program for the Columbia River Basin. Aquatic nuisance species (ANS) are nonindigenous species that threaten the diversity or abundance of native species or the ecological stability of infested waters, as well as commercial, agricultural, aquacultural or recreational activities dependent on such waters. ANS include species that may occur in inland, estuarine and marine waters and that presently or potentially threaten ecological processes and natural resources

In 2003, the ANS prevention program:

- ◆ Conducted education and outreach work for Zebra Mussels
Traveler Information Stations (TIS): Using USFWS Sport Fish Restoration funding, 3 TIS systems were set up on Routes 2 and 94 in Eastern Montana and near the western entrance to Yellowstone National Park. Six additional TIS systems are being planned for North Dakota, Montana, Missouri, Minnesota, and South Dakota (2).
- ◆ Continued to provide support for zebra mussel substrate monitoring.
Portland State University (PSU) continued to recruit and enlist volunteers to deploy zebra mussel colonization substrates. There are over 200 substrates distributed ten western states (Montana, Wyoming, Washington, Idaho, Arizona, North Dakota, South Dakota, Arizona, Oregon, and Utah).
- ◆ Continued support of the Chinese Mitten Crab education and monitoring program in the lower Columbia River in cooperation with Portland State University.
No mitten crabs were detected during 2003.
Research continued at PSU to develop a model that will provide a basis to predict the potential range and population size for Chinese Mitten Crab in specific estuaries.
- ◆ Began to distribute zebra mussel prevention education and outreach material, in print and electronically, to sites along the Lewis and Clark Trail for the Bicentennial Commemoration.
- ◆ Provided programmatic support to WDFW and ADFG for assessing the presence or absence of Atlantic salmon in selected freshwater streams using primarily snorkel surveys.
- ◆ Began funding green crab monitoring projects in Oregon, through OSU, and California, through UC-Davis. These efforts were coordinated with the ongoing activities of Washington through WDFW to produce comparative data sets for all three states.

Fish Habitat Education Program

The Fish Habitat Education Program works to protect habitat for salmon and other marine fish species through education, protection, and restoration activities. The Commission's habitat efforts are funded primarily by the Wallop-Breaux Sport Fish Restoration program .

In 2003 the Habitat Education program worked on the following projects:

Oregon coast Salmon habitat protection and restoration

Watershed Council Support—The program supported the efforts of the MidCoast Watersheds Council (MCWC) by assisting the Council's technical and administrative committees.

Education—Helped to organize a watershed restoration class and field trip for students in the Fisheries and Wildlife program at Oregon State University.

Salt Marsh Restoration—The program managed the on-the-ground restoration work for a 38 acre site on the Yaquina River near Toledo, Oregon.

Tidal Marsh Conservation—The program coordinated efforts to assure protection of 250 acres of high priority marsh sites in the Yaquina estuary.

Stream Habitat Conservation—Worked with landowners wanting to develop conservation easements to protect areas of key salmon habitat on their land.

Puget Sound salmon habitat and watershed

Watershed Tours—The program's Flying for Fish Habitat program, working in conjunction with LightHawk, conducted aerial watershed tours for legislators, mayors, and other decision makers of rapidly urbanizing areas in King County and over critical habitat for Chinook salmon in the Nooksack watershed.

Groundfish and Marine Reserve Essential Fish Habitat Outreach—California, Oregon, Washington

Through displays at Fish Expo and sportfishing events, the program informed fishermen about the advances on work being done to map benthic habitat and to develop habitat use information for the 82 groundfish species managed by the Pacific Fishery Management Council. Fishermen were also informed of the groundfish essential fish habitat environmental impact statement process as well as the various marine reserve processes underway contacts were provided to allow them to get involved.

Interstate and federal/state/tribe coordination

PSMFC's habitat program coordinates with the Pacific Fishery Management Council through serving as an active member of the Pacific Fishery Management Council's Habitat Committee.



The Recreational Fisheries Information Network (RecFIN) is a cooperative effort between the state fishery agencies in Washington, Oregon, and California, the Pacific States Marine Fisheries Commission (PSMFC), and National Marine Fisheries Service (NMFS). The four goals of RecFIN are as follows:

Develop and implement a State/Federal cooperative program for a coastwide marine recreational fisheries data system;

Coordinate collection, management, and dissemination of Pacific coast marine recreational fishery data;

Provide the data in a central location on a timely basis in the format needed to support state and federal work on Pacific marine recreational fisheries;

Reduce and avoid duplication of data collection efforts between RecFIN members.

The database contains recreational fishery data for the years 1980-89 and 1993 to the present. The primary source of data in the RecFIN database comes from the Marine Recreational Fisheries Statistics Survey (MRFSS) funded nationwide by NMFS along with state agency sampling program data. The survey covers approximately 800 fishing sites coastwide in the three states. Of these sites, about 57% are in California, 10% in Oregon and 33% in Washington state.

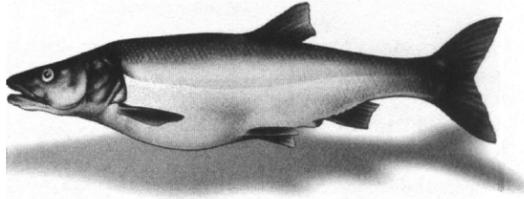
In 2003:

41,215 anglers were interviewed in the field in the three states of California, Oregon and Washington in the MRFSS.

A total of 65% of these were in California, 20% in Washington and 15% in Oregon.

State sampling programs had a much higher sampling rate than the MRFSS, concentrating on ocean boat trips only.

Program Summaries



The Northern Pikeminnow Predator Control Program is a joint effort between the fishery agencies of the states of Washington and Oregon, the Columbia River Treaty Tribes, the Columbia River Intertribal Fish Commission (CRITFC), and the Pacific States Marine Fisheries Commission (PSMFC). 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, as well as exploitation rate estimates. PSMFC provided fiscal and contractual oversight for all segments of the Program and processed all reward vouchers for the sport-reward anglers. CRITFC and the treaty tribes conducted angling at the dams and site specific removals by means of gillnets at tributary mouths to aid salmonid downstream migrant survival.

In 2003:

A total of 200,241 fish were harvested in the sport-reward fishery.

Vouchers for 199,380 fish were submitted for payment totaling rewards of \$1,029,827.

Rewards were paid at \$4 for the first 100 fish caught during the season, \$5 for fish in the 101-400 range, and \$6 for all fish caught by an angler above 400 fish.

A total of 2,465 anglers who registered were successful in catching one or more fish in 2002. The 2002 season ran from March 25, 2002 through October 20, 2002.

A total of 160 tagged fish were caught.

Anglers were issued a special tagged fish voucher for all tagged fish brought to the registration station. The tag voucher was then sent in with the tag for verification and payment of the special \$100 tagged fish reward. This resulted in tag reward payments of \$16,000.

FINANCIAL REPORT 2003

The Commission receives its financial support from contributions from its member states, grants, contracts, and indirect cost charges on external contracts. Since 1977, the combined states' contributions have remained level 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.

2003 AUDIT REPORT

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

We have audited the accompanying basic financial statements of the Pacific States Marine Fisheries Commission (the Commission) as of and for the year ended June 30, 2003 as listed in the table of contents. These 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 auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in Government Auditing Standards issued by the Comptroller General of the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the basic financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the basic financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Pacific States Marine Fisheries Commission as of June 30, 2003, and the results of its operations for the year then ended in conformity with accounting principles generally accepted in the United States of America.

As described in Note 1, the Commission has implemented a new financial reporting model, as required by the provisions of GASB Statement No. 34, Basic Financial Statements - and Management's Discussion and Analysis - for State and Local Governments, as of June 30, 2003.

In accordance with Government Auditing Standards, we have also issued a report dated July 12, 2004 on our consideration of the Commission's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grants. That report is an integral part of an audit performed in accordance with Government Auditing Standards and should be read in conjunction with this report in considering the results of our audit.

Financial Report

Management's Discussion and Analysis are not a required part of the basic financial statements, but are supplementary information required by accounting principles generally accepted in the United States of America. We have applied certain limited procedures, which consisted principally of inquiries of management regarding the methods of measurement and presentation of the supplementary information. However, we did not audit the information and express no opinion on it.

Our audit was made for the purpose of forming an opinion on the basic financial statements taken as a whole. The accompanying schedule of expenditures of federal awards is presented for purposes of additional analysis as required by U.S. Office of Management and Budget Circular A-133, Audit of States, Local Governments, and Non-Profit Organization, and is not a required part of the basic financial statements. The accompanying supplemental information listed in the table of contents is also presented for purposes of additional analysis and is not a required part of the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and, in our opinion, is fairly stated in all material respects in relation to the basic financial statements taken as a whole.

Aldrich, Kilbride & Tatone, LLC

Salem, Oregon

July 12, 2004

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

Pacific States Marine Fisheries Commission
2003 Headquarters Staff

Randy Fisher, Executive Director
David Hanson, Deputy Director
Pam Kahut, Fiscal Manager/Treasurer
Sherry Holley, Personnel/Payroll Manager
Todd Kaehler, Computer Services Manager
Sharon Perkins, Executive Assistant

Renee Barrett, Accountant
Kristen Kanahele, Grants Accounting/Assistant
Rick Masters, Supervisory Accountant
Kim Nenn, Administrative Accounting Asst.
Nancy Walters, Grants/Contracts Specialist
Glenda White, Accounting Assistant
Elizabeth Graves, Employee Benefits Specialist

Matt Robertson, Personnel/Payroll Specialist
Wanda Swainson, Payroll/Benefits Coordinator
Willy Kelly, PC/LAN Systems Administrator
Karen McGill, Technical Information Specialist
Teresa Fairchild, Clerical Specialist
Genna Golden, Clerical Specialist
Kathy Shimojima, Clerical Specialist

PSMFC Program Staff

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Al Didier, Program Manager
Stephen Phillips, ANS Program Coordinator
Fran Recht, Habitat Education Coordinator

Regional Mark Information System
Ken Johnson, Program Manager
Jim Longwill, Computer Specialist
Dan Webb, Assistant Data Manager

PacFIN
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Jason Sawicki, Data Analyst/Programmer
Brad Stenberg, Assistant PacFIN Data Manager

PTAGIS
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Allen Brower, Field Engineering Technician
Darren Chase, Field Systems Engineer
Nadia Gruman, Computer Software Engineer
Troy Humphrey, Field Engineering Technician
Scott Livingston, Field Systems Engineer
John Tenney, Computer Software Engineer
Don Warf, Field Systems Engineering Supervisor

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Mike Banach, Fishery Biologist
Travis Butcher, GIS Data Technician
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RecFIN
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Craig Miller, Field Programs Data Technician

N. Pikeminnow Predator Control Program
Russell Porter, Program Manager
Craig Miller, Data Technician
Darla Voyce, Data Entry

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Connie Shannon, Data Analyst/Programmer

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