

# FEDERAL ASSISTANCE FOR INTERJURISDICTIONAL AND ANADROMOUS FISHERIES



PROGRAM REPORT 2003–2004  
U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Marine Fisheries Service



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AND ANADROMOUS FISHERIES  
PROGRAM REPORT 2003–2004**

April 2005

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**AUTHORIZATION**

This report is submitted in compliance with the Interjurisdictional Fisheries Act of 1986, as amended (16 U.S.C. 4106 et seq.). It also contains information about grants authorized by the Anadromous Fish Conservation Act of 1965, as amended (16 U.S.C. 757(d)).

## TABLE OF CONTENTS

INTRODUCTION .....	1
Anadromous Fish Conservation Act of 1965      1	
Interjurisdictional Fisheries Act of 1986      2	
Table 1. Anadromous Fish Conservation Act Funding to States and Others for Fiscal Years 2003 and 2004      4	
Table 2. Interjurisdictional Fisheries Act Section 308(a) Funding to States and Others for Fiscal Years 2003 and 2004      5	
Table 3. Interjurisdictional Fisheries Act Section 308(c) Funding to Interstate Marine Fisheries Commissions for Fiscal Years 2003 and 2004      6	
 NORTHEAST REGION	
List of States and Discussion of Activities and Projects.....	7
 NORTHWEST REGION	
List of States and Discussion of Activities and Projects.....	24
 SOUTHEAST REGION	
List of States and Discussion of Activities and Projects.....	28
 SOUTHWEST REGION	
List of States and Discussion of Activities and Projects.....	36
 PACIFIC ISLANDS REGION	
List of States and Discussion of Activities and Projects.....	38
 ALASKA REGION	
List of States and Discussion of Activities and Projects.....	42
 ADMINISTRATIVE ORGANIZATIONS.....	45

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**INTRODUCTION**

The information contained herein is a summary of projects that were ongoing or completed during fiscal years 2003 and 2004. The National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS) Federal Assistance Program is authorized under two acts: the Anadromous Fish Conservation Act (AFC), 16 U.S.C. 757a *et seq.*, as amended, and the Interjurisdictional Fisheries Act (IFA) of 1986, 16 U.S.C. 4101 *et seq.*, as amended.

A large portion of the funds under the IFA and the AFC are spent to obtain catch and effort statistics and other fisheries information. This information is used to support management decisions at the state level and under the Magnuson-Stevens Fishery Conservation and Management Act, the Atlantic Coastal Fisheries Cooperative Management Act, and the Striped Bass Act.

This report shows the breakdown of funds made available to the states and other entities in fiscal years 2003 and 2004. Federal, state, and interstate marine fisheries commission contacts for these programs are listed in the section titled “Administrative Organizations.”

The program analysis portion is divided into six sections, one for each of the six NMFS regions. Each section contains an alphabetical list of states within that region. Preceding the project descriptions is an overview highlighting the region's grants activity during the reporting period, and general information on the grants and projects under way. The program analysis section includes a brief project description, funding source, funding by year, principal contact, and agency performing the work.

**The Anadromous Fish Conservation Act of 1965**

The Anadromous Fish Conservation Act of 1965 (AFC) authorizes the Secretary of Commerce and the Secretary of the Interior to enter into cooperative agreements with states and other non-federal interests for the conservation, development, and enhancement of the anadromous fishery resources of the Nation, including those in the Great Lakes and Lake Champlain. The program was historically administered at the federal level by NMFS and the U.S. Fish and Wildlife Service, although only NMFS has received funding to administer the program since FY 1997. The amount of funds that may be used to finance projects varies.

For most projects, federal funds account for 50 percent of the cost, but federal funds can support up to 66.66 percent of the cost when two or more states cooperate, and up to 90 percent federal funding can be made available when the project supports an interstate or federal fisheries management plan. State fishery agencies, colleges, universities, private companies, and other non-federal interests in 31 states bordering the oceans or the Great Lakes and Lake Champlain may participate under the AFC. All projects must be coordinated with and cleared through the state fishery agency concerned. A law change in 1996 restricts the total amount of funds obligated in any fiscal year in any one state to \$650,000. The most recent reauthorization for the AFC was in 2002, which reauthorized the program at an annual level of \$4,750,000 for FY 2003 and 2004 and \$5,000,000 for FY 2005 and 2006. However, available funding for recipients was \$2,141,553 for FY 2003 and \$1,973,951 for FY 2004. Table 1 lists AFC funding to states and others for FY 2003 and 2004.

### The Interjurisdictional Fisheries Act of 1986

The Interjurisdictional Fisheries Act of 1986 (IFA) is a formula-based financial assistance program with three overall purposes: (1) to promote and encourage state activities in support of the management of interjurisdictional resources, (2) to promote the management of interjurisdictional fisheries resources throughout their range, and (3) to promote and encourage research in preparation for the implementation of the use of ecosystems and interspecies approaches to the conservation and management of interjurisdictional fishery resources throughout their range. Any state, either directly or through an interstate commission, may submit a research proposal that supports management of fishery resources that (1) occur in waters under the jurisdiction of one or more states and in the Exclusive Economic Zone, (2) are managed under an interstate fishery management plan, or (3) migrate between the waters under the jurisdiction of two or more states bordering on the Great Lakes.

Federal share of project costs may amount to 75 percent, or 90 percent when states have adopted fishery regulations consistent with an interstate or federal fishery management plan for the species to which the study applies. Enforcement agreements with state management agencies of up to \$25,000 may be financed 100 percent with federal funds. Projects to restore resources damaged by natural resource disasters had been financed by up to 100 percent federal funds, but 1992 statutory amendments required a 75–25 federal–state split for such disaster restoration projects. Also, Section 308(d) was amended in 1996 by Public Law 104-134 to provide the Secretary of Commerce with more discretion to provide funding to persons engaged in commercial fishing who are harmed by resource disasters.

Funding under Section 308(a). Funds are made available to the states under Section 308(a) based on a complex apportionment formula using the volume and value of fish landed in each state by domestic commercial fishermen. Further information on this apportionment and distribution process, and the values and volume involved, is available from any of the six NMFS Regional Offices listed in the “Administrative Organizations” section of this report. The most recent reauthorization for Section 308(a) in 2002 authorized appropriations of \$5,400,000 for FY 2003 and 2004, and \$5,900,000 for FY 2005 and 2006. Funding made available to recipients

after rescissions and administrative cost deductions totaled \$2,489,185 for FY 2003 and \$2,410,202 for FY 2004. Table 2 lists IFA funding to states and others for FY 2003 and 2004.

Funding under Section 308(b). No funds were made available in FY 2003 and 2004.

Funding under Section 308(c). The most recent reauthorization of Section 308(c) funding in 2002 authorized \$850,000 for FY 2003 and 2004, and \$900,000 for FY 2005 and 2006 for interstate marine fisheries commissions. Funding in FY 2003 and 2004 – \$748,625 and \$742,200, respectively – was provided to support the development of fishery management plans by interstate marine fishery commissions. Table 3 lists IFA funding to interstate marine fisheries commissions for FY 2003 and 2004.

Funding under Section 308(d). There was no funding for disaster assistance in FY 2003 and FY 2004.

**Table 1. Anadromous Fish Conservation Act Funding to States and Others for FY 2003 and 2004.**

	Region	FY 2003	FY 2004
Alaska	AKRO	336,439	359,260
California	SWRO	297,983	292,145
Connecticut	NERO	69,615	70,000
Maine	NERO	57,681	70,664
Massachusetts	NERO	35,360	15,960
Michigan	NERO	0	30,000
Mississippi	SERO	44,255	43,388
New Hampshire	NERO	40,456	0
New York	NERO	70,609	75,000
North Carolina	SERO	9,945	9,750
Oregon	NWRO	416,488	407,690
Pacific States Marine Fisheries Commission	NWRO	195,000	65,000
Pennsylvania	NERO	0	70,000
South Carolina	SERO	58,551	57,404
Virginia	NERO	39,283	0
Washington	NWRO	446,488	407,690
Wisconsin	NERO	23,400	0
Totals		2,141,553	1,973,951

AKRO = Alaska Regional Office; NERO = Northeast Regional Office; NWRO = Northwest Regional Office; SERO = Southeast Regional Office; SWRO = Southwest Regional Office

**Table 2. Interjurisdictional Fisheries Act Section 308(a) Funding to States and Others for FY 2003 and 2004.**

	Region	FY 2003	FY 2004
Alabama	SERO	25,190	24,345
Alaska	AKRO	151,140	146,073
American Samoa	PIRO	142,971	144,793
California	SWRO	151,100	146,073
Connecticut	NERO	25,051	24,345
Delaware	NERO	12,526	0
Florida	SERO	151,140	146,073
Georgia	SERO	12,595	12,173
Great Lakes Fisheries Commission	NERO	12,526	24,346
Guam	PIRO	12,595	12,173
Hawaii	PIRO	54,550	24,345
Idaho	NWRO	12,595	12,173
Illinois	NERO	12,526	12,173
Louisiana	SERO	151,140	146,073
Maine	NERO	150,309	146,073
Maryland	NERO	57,616	54,571
Massachusetts	NERO	150,309	146,073
Michigan	NERO	12,526	0
Minnesota	NERO	12,526	12,173
Mississippi	SERO	102,771	98,429
New Hampshire	NERO	12,526	24,345
New Jersey	NERO	123,168	129,512
New York	NERO	59,081	53,810
North Carolina	SERO	113,232	115,039
N. Mariana Islands	PIRO	12,595	12,173
Ohio	NERO	0	12,173
Oregon	NWRO	124,051	121,484
Pennsylvania	NERO	12,526	12,173
Puerto Rico	SERO	12,595	12,173
Rhode Island	NERO	90,287	85,761
South Carolina	SERO	25,190	24,345
Texas	SERO	151,140	146,073
Vermont	NERO	12,526	12,173
Virginia	NERO	150,309	146,073
Virgin Islands	SERO	12,595	12,173
Washington	NWRO	151,136	146,072
Wisconsin	NERO	12,526	12,173
<b>Total</b>		<b>2,489,185</b>	<b>2,410,202</b>

AKRO = Alaska Regional Office; NERO = Northeast Regional Office; NWRO = Northwest Regional Office; SERO = Southeast Regional Office; SWRO = Southwest Regional Office



**Table 3. Interjurisdictional Fisheries Act Section 308(c) Funding to Interstate Marine Fisheries Commissions for FY 2003 and 2004.**

	Region	FY 2003	FY 2004
Atlantic States Marine Fisheries Commission	NERO	248,625	247,400
Gulf States Marine Fisheries Commission	SERO	250,000	247,400
Pacific States Marine Fisheries Commission	NWRO	250,000	247,400
Total		748,625	742,200

AKRO = Alaska Regional Office; NERO = Northeast Regional Office; NWRO = Northwest Regional Office; SERO = Southeast Regional Office; SWRO = Southwest Regional Office

## NORTHEAST REGION

The Northeast Region of the National Marine Fisheries Service covers 19 states—Connecticut, Delaware, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, Virginia, West Virginia, and Wisconsin—and the Great Lakes Fisheries and the Atlantic States Marine Fisheries Commissions.

### HIGHLIGHTS OF THE NORTHEAST REGION GRANT ACTIVITIES

Under the AFC, American shad and river herring research was continued in Connecticut, Maine, Massachusetts, Pennsylvania, and Virginia. State projects have been designed in part to satisfy the research and monitoring mandates of Amendment 1 to the Atlantic States Marine Fisheries Commission (ASMFC) American Shad and River Herring Fishery Management Plan (FMP), which includes annual monitoring of the commercial shad fishery, biannual monitoring of the recreational fishery, and a determination by the states of appropriate population targets for each stock currently under restoration. In addition to traditional monitoring and stocking efforts, Virginia evaluated the potential for using microconstituent analysis of otoliths to identify the natal tributaries of American shad. This technique may improve stocking efforts and the identification of critical habitat.

In Connecticut, short-nosed sturgeon population studies were continued. Short-nosed sturgeon tagged in the Hudson River have been caught in the Connecticut River on three occasions, with one specimen caught on two occasions. This challenges traditional theories that each river has a geographically isolated and genetically unique population.

In the Great Lakes region, returns of stocked coho salmon were monitored and lake sturgeon habitat was mapped in Wisconsin. During 2003 and 2004, Wisconsin investigators collected coho salmon at the Root River Steelhead Facility to evaluate the effectiveness of marked yearlings released upstream in previous years. Additional marked yearlings were released in 2004. Investigators hope to determine growth and maturity at age from these samples. Wisconsin researchers also began lake sturgeon stocking and telemetry studies to investigate population and life history needs in the Milwaukee River, as well as to identify critical habitats and factors within the Milwaukee River system that negatively impact sturgeon populations.

Under the provisions of the IFA, the Northeast Region's states continued projects addressing shared state and federal research and management priorities for the region's commercial and recreational fishing resources. Several projects continued along the Atlantic seaboard for fishery resources managed under the auspices of the ASMFC Interstate Fisheries Management Program or the Magnuson-Stevens Fishery Conservation and Management Act (MSA) Regional Fishery Management Councils. Project activities focused on the preparation, monitoring, and revision of FMPs or the conduct of research to obtain information vital to data needs for American lobster (Connecticut, Maine, New Hampshire, New York, and Rhode Island), Atlantic sea herring (Maine), American shad and river herring (Connecticut, Maine, Maryland, Pennsylvania, and

Virginia), and northern shrimp (Maine). In Maine, funding also supported investigation of new fisheries for Atlantic halibut, sea cucumbers, and green crabs.

Commercial and recreational fisheries of the Great Lakes are also benefiting from supported research and management initiatives. Commercial fishery management activities continued in Michigan and Wisconsin. In the Illinois waters of Lake Michigan, migration of both large-mouth and small-mouth bass populations were studied. In Minnesota, different mesh sizes for lake herring gill nets were evaluated to limit bycatch. In Ohio, microconstituent analysis of otoliths is being examined for applicability in freshwater environments.

### **ANADROMOUS FISH CONSERVATION ACT**

#### **Connecticut**

Project Description: Connecticut Anadromous Fish Investigations

Purpose: Job 1 will (1) monitor the commercial fishery; (2) determine population size, sex ratio, and age structure; (3) measure the relative abundance of juvenile American shad; and (4) examine the variability and confidence intervals associated with various levels of juvenile abundance sampling in the Connecticut River. Job 2 will estimate the number and size structure of the population of short-nose sturgeon in the Connecticut River.

Contact: Tom Savoy

Agency: Connecticut Department of Environmental Protection

Amount Funded by Fiscal Year:	2003	\$69,615
	2004	\$70,000

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#### **Maine**

Project Description: Restoration of American Shad and River Herring in the Androscoggin River

Purpose: This project attempts to restore alosid species (American shad, alewives, and blueback herring) to the Androscoggin watershed and to increase the potential for restoration of other native fish species, such as Atlantic salmon and American eel, by (1) increasing the abundance, survival, and natural reproduction of prespawning adult river herring and American shad in historic spawning and nursery habitat areas; (2) protecting and enhancing the health of the native fish community structure in support of river herring and American shad restoration efforts; (3) characterizing the annual migration of adult river herring and American shad in the Androscoggin watershed; (4) assessing the reproductive success of adults and productivity of alosids in the watershed; (5) increasing the accessibility of historic habitat for native diadromous

and resident fish species to increase the abundance, survival, and natural reproduction; and (6) increasing public awareness of the Androscoggin River program in order to encourage participation in and support of river restoration initiatives.

Contact: Michael E. Brown

Agency: Maine Department of Marine Resources

Amount Funded by Fiscal Year:     2003   \$57,681  
  2004   \$70,664

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**Massachusetts**

Project Description: Biological Characterization and Enhancement of Shad and River Herring Populations in Massachusetts Coastal Streams

Purpose: To collect biological samples to characterize alewife, blueback herring, and American shad spawning populations in several streams and rivers along the Massachusetts coastline; and to enhance/restore historic anadromous fish runs by stocking pre-spawning adult Alosids from healthy runs into depleted runs, that have recently or will soon have improved fish passage. The completion of proposed sampling activities will provide valuable biological data with which to evaluate and manage the anadromous fish populations in Massachusetts. Planned trap and transport stocking activities are essential to the re-establishment of herring runs that have been eliminated or weakened by poor or lacking fish passage structures.

Contact: Michael P. Armstrong

Agency: Massachusetts Division of Marine Fisheries

Amount Funded by Fiscal Year:     2003   \$35,360

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**Massachusetts**

Project Description: Biological Characterization and Enhancement of Shad and River Herring Populations in Massachusetts Coastal Streams

Purpose: Alewives will be collected from five runs throughout coastal Massachusetts for scientific evaluation and for stocking in river systems presently depauperate of river herring because of man-made obstacles to migration, overfishing, pollution, or other causes.

Contact: Michael P. Armstrong

Agency: Massachusetts Division of Marine Fisheries

Amount Funded by Fiscal Year: 2004 \$15,960

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**Michigan**

Project Description: Habitat of Stocked and Native Juvenile Lake Sturgeon in Southern Lake Huron, St. Clair River, and Lake St. Clair

Purpose: Juvenile lake sturgeon will be caught with assessment gear (setlines, trawls, and gill nets) or commercial gear (trap nets and gill nets). Fish will be measured for total length and weight. Fin ray samples will be removed for aging. External jaw tags will be used to allow visual identification of recaptured individuals. Ultrasonic transmitters will be inserted directly into the body. The fish will be tracked for 2 years. GPS coordinates, depth, surface temperature, and secchi depth will be collected at each fish location during the 2-year tracking period. The data collected will provide information on the movement of juvenile sturgeon.

Contact: James S. Diana

Agency: Michigan Department of Natural Resources

Amount Funded by Fiscal Year: 2004 \$30,000

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**New Hampshire**

Project Description: The Effects of Passage Impediments and Environmental Conditions on Out-Migrating Juvenile American Shad

Purpose: To investigate the impacts of dams and their associated impoundments on growth and survival of emigrating age-0 American shad through a three-tiered investigation: (1) quantify the impacts of dams and their associated impoundment on juvenile American shad emigration; (2) determine the relationship between anthropogenically induced anoxic conditions and survival of wild and hatchery-reared American shad juveniles; and (3) standardize capture methodology for emigrating juvenile American shad in the Great Bay Estuary. Study results will improve the restocking efforts of American shad by documenting the effects of environmental conditions and passage impediments on emigration of hatchery-reared juveniles.

Contact: Brian M. Smith

Agency: New Hampshire Fish and Game Department

Amount Funded by Fiscal Year: 2004 \$40,456

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**New York**

Project Description: A Study of the Striped Bass in the Marine District of New York State:  
Juvenile Striped Bass Fund

Purpose: Primary objectives are to determine, through field investigations, an annual assessment of juvenile abundance in the Hudson River through an index of relative abundance; investigate the movements and growth of Hudson River juvenile and sub-adult striped bass tagged on western Long Island through collection of size and age data; and develop annual mortality rates for striped bass from age data. The project will continue to provide essential information for monitoring the status of striped bass stocks as required by the Interstate Fishery Management Plan for Striped Bass.

Contact: Byron H. Young

Agency: New York Department of Environmental Conservation

Amount Funded by Fiscal Year:     2003   \$70,609  
  2004   \$75,000

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**Pennsylvania**

Project Description: Use of High Frequency Sound to Improve Passage of American Shad at the Holtwood Dam

Purpose: This project involves five jobs to support (1) improved fish passage at Holtwood Dam using high-frequency sound signals to direct fish past the crowder gate within the Holtwood fish lift entrance channel; (2) determination of the signal duration necessary to elicit the desired behavior within the Holtwood fish lift entrance channel; (3) determination of the sound amplification levels necessary to direct fish past the crowder gate within the Holtwood fish lift entrance channel; (4) operations at the Holtwood Dam; and (5) contract administration and project oversight.

Contact: Michael Hendricks

Agency: Pennsylvania Fish and Boat Commission

Amount Funded by Fiscal Year:     2004   \$70,000

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**Virginia**

Project Description: Essential Fish Habitat of Atlantic Sturgeon (*Acipenser oxyrinchus oxyrinchus*) in the Southern Chesapeake Bay

Purpose: Investigators will gather needed Atlantic sturgeon life history information, especially their habitat requirements. They will focus on (1) small-scale (within the Chesapeake Bay) movement patterns of juvenile Atlantic sturgeon through acoustic telemetry studies; (2) preferred habitat parameters through acoustic telemetry studies; (3) seasonal variations in abundance; (4) sturgeon bycatch in the striped bass gill-net fishery; (5) sex and maturity using tissue biopsy methods; (6) data collection on the occurrence of sexually mature Atlantic sturgeon; and (7) the contribution to genetic stock structures.

Contact: John A. Musick, Jr.

Agency: Virginia Institute of Marine Science

Amount Funded by Fiscal Year: 2003 \$39,283

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**Wisconsin**

Project Description: Growth, Age, and Maturity of Coho Salmon

Purpose: In the fall, investigators will collect coho salmon at the Root River Steelhead Facility (RRSF). These salmon had previously been marked with adipose fin clips and coded wire tags (CWTs) and then over a 3-year period (2000 and 2002) released as yearlings upstream from the RRSF. All the heads with the CWTs will be saved and analyzed later. Investigators hope to determine growth and maturity by age information from these samples.

Contact: Bradley T. Eggold

Agency: Wisconsin Department of Natural Resources

Amount Funded by Fiscal Year: 2003 \$7,000

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**Wisconsin**

Project Description: Lake Sturgeon Rehabilitation in the Milwaukee River

Purpose: Investigators will determine lake sturgeon population and life history needs in the Milwaukee River by developing sturgeon population assessment methods. Investigators will also identify critical habitats and habitat requirements for various life stages and will identify barriers and other factors within the Milwaukee River system that negatively impact sturgeon

populations.

Contact: Bradley T. Eggold

Agency: Wisconsin Department of Natural Resources

Amount Funded by Fiscal Year: 2003 \$16,400

**INTERJURISDICTIONAL FISHERIES ACT**

**Atlantic States Marine Fisheries Commission**

Project Description: Interjurisdictional Fisheries Management Planning

Purpose: Supplemental funding will be used to assist in the development of an updated stock assessment of the population of horseshoe crabs along the Atlantic coast by supporting activities (personnel and travel) of the Horseshoe Crab Technical Committee and Stock Assessment Sub-Committee

Contact: Robert E. Beal

Agency: Atlantic States Marine Fisheries Commission

Amount Funded by Fiscal Year: 2003 \$12,525

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**Atlantic States Marine Fisheries Commission**

Project Description: Interjurisdictional Fisheries Management Planning

Purpose: Achieve cooperative interstate management of shared territorial sea fisheries of the Atlantic coast through development, preparation, review, and revision of fishery management plans. The ASMFC promotes better utilization of the fisheries of the Atlantic coast by administering a joint program designed to promote and protect such fisheries.

Contact: Robert E. Beal

Agency: Atlantic States Marine Fisheries Commission

Amount Funded by Fiscal Year: 2003 \$248,625

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**Atlantic States Marine Fisheries Commission**

Project Description: Interjurisdictional Fisheries Management Planning

Purpose: Study activities are designed to achieve cooperative interstate management of shared territorial sea fisheries of the Atlantic coast through development, preparation, review, and revision of interstate fishery management plans. The ASMFC promotes better utilization of the fisheries of the Atlantic Coast by administering a joint interstate program designed to promote and protect such fisheries. Project funding provides support for the basic structure and operation of the Interstate Fisheries Management Program.

Contact: Robert E. Beal

Agency: Atlantic States Marine Fisheries Commission

Amount Funded by Fiscal Year: 2004 \$247,400

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**Connecticut**

Project Description: Connecticut Lobster (*Homarus americanus*) Population Studies

Purpose: Project investigators will conduct biological studies on the American lobster resource in Long Island Sound (LIS). Sampling will be conducted to determine mortality and growth rates; larval densities; juvenile abundance; relative abundance of adult, legal-size lobsters; and incidence of shell disease. The commercial trap fishery will also be monitored for catch composition. These efforts will improve current scientific information available for the LIS lobster population to a level where mathematical models can be attained to accurately forecast future abundance. Study activities will also include conducting a stock assessment of the LIS lobster resource and larval lobster recruitment index.

Contact: Penny Howell

Agency: Connecticut Department of Environmental Protection

Amount Funded by Fiscal Year: 2003 \$25,051  
2004 \$24,345

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**Great Lakes Fisheries Commission**

Project Description: A Partnership Approach for Controlling Nonindigenous Aquatic Nuisance Species in the Great Lakes

Purpose: This project will continue to support activities of the Great Lakes Panel on Aquatic Nuisance Species (ANS) with special emphasis on implementation of the Panel's approved "Information/Education Strategy for Aquatic Nuisance Prevention and Control." Project activities will also include production and distribution of the Panel's newsletter, *ANS UPDATE*, and dissemination of ANS information (prevention, research, monitoring, and control efforts) within and outside the Great Lakes Region.

Contact: Sarah N. Whitney

Agency: Great Lakes Commission

Amount Funded by Fiscal Year: 2003 \$12,526

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**Great Lakes Fisheries Commission**

Project Description: A Partnership Approach for Controlling Nonindigenous Aquatic Nuisance Species in the Great Lakes

Purpose: The project is designed to support activities conducted by the Great Lakes Panel on Aquatic Nuisance Species (ANS) Information/Education (I/E) Committee. Great Lakes Commission staff will provide primary support for the basic structure and operation of the I/E Committee. The I/E Committee is responsible for the production and distribution of the Great Lakes ANS Newsletter Insert, and the coordinated dissemination of ANS information that is consistent in its messages within and outside the Great Lakes–St. Lawrence region. Outputs from these efforts will include the *ANS Update* to be prepared and distributed quarterly. Federal funds are used primarily to pay staff salaries supporting the I/C Committee and associated *ANS Update* publication costs.

Contact: Katherine Glassner-Shwayder

Agency: Great Lakes Fisheries Commission

Amount Funded by Fiscal Year: 2004 \$24,346

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**Illinois**

Project Description: Smallmouth Bass Study in Lake Michigan—Relation of Water Temperature to Migration of Smallmouth Bass Associated with Lake Michigan Harbors along the Illinois Shoreline

Purpose: This project will continue determinations of smallmouth bass (*Micropterus dolomieu*) movement patterns along the northern Illinois shoreline of Lake Michigan. Ultrasonic telemetry

procedures will be followed to gain insight into adult bass movement patterns that may be site-specific, and to determine whether these movements are related to changes in Lake Michigan water temperatures.

Contact: Larry Dunham

Agency: Illinois Department of Natural Resources

Amount Funded by Fiscal Year:     2003   \$12,526

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**Illinois**

Project Description: Movement and Location of Smallmouth Bass and Largemouth Bass Study

Purpose: This project will use Passive Integrated Transponder (PIT) tagging to determine movement and relocation of adult largemouth and smallmouth bass by fishing tournament anglers. By tracking individual fish and their relocation, investigators hope to achieve a better understanding of the home range of bass and the influence relocation and transport by anglers may have on population estimates.

Contact: Jan Savitz

Agency: Illinois Department of Natural Resources

Amount Funded by Fiscal Year:     2004   \$12,173

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**Maine**

Project Description: Interjurisdictional Fisheries Resource Monitoring and Assessment

Purpose: Study investigators will conduct a multi-species resource monitoring and assessment project targeting American lobster, Atlantic herring, Northern shrimp, sea urchins, halibut, ocean quahog, and groundfish. The biological, catch/effort, and socioeconomic information derived from these investigations will continue to provide a sound basis for assessment and management for these Gulf of Maine resources.

Contact: Dan Schick

Agency: Department of Marine Resources

Amount Funded by Fiscal Year:     2003   \$150,309  
  2004   \$146,073

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**Maryland**

Project Description: Maryland Interjurisdictional Fisheries Statistics

Purpose: This project will maintain Maryland's commercial catch/effort data collection programs for interjurisdictional species.

Contact: Jian An Zhou

Agency: Maryland Department of Natural Resources

Amount Funded by Fiscal Year: 2003 \$57,616

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**Maryland**

Project Description: Maryland Interjurisdictional Fisheries Statistics

Purpose: This project will maintain Maryland's commercial catch/effort data collection programs for interjurisdictional species. Four ongoing commercial fisheries catch/effort data collection systems are managed under the Maryland interjurisdictional fisheries statistics program: Finfish Reporting System, Blue Crab Reporting System, Fishing Guide Reporting System, and Seafood Dealer Reporting System.

Contact: Connie L Lewis

Agency: Maryland Department of Natural Resources

Amount Funded by Fiscal Year: 2004 \$54,571

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**Massachusetts**

Project Description: Management Information Systems and Fisheries Statistics

Purpose: Collect, analyze, and disseminate fishery landings by species and gear on Massachusetts interjurisdictional fishery resources. As a member of the Atlantic Coastal Cooperative Statistics Coordinating Council, project results will be used to meet the requirements of state, interstate, and federal fisheries agencies responsible for the management of marine resources within internal waters and territorial seas of the individual states and the Exclusive Economic Zone.

Contact: Thomas B. Hoopes

Agency: Massachusetts Division of Marine Fisheries

Amount Funded by Fiscal Year:     2003   \$150,309  
  2004   \$146,073

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**Michigan**

Project Description: Assessment of Whitefish Populations in the Treaty Area of Lake Michigan

Purpose: Study Investigators will collect an ongoing series of catch, biological, and pathological data for lake whitefish populations exploited by state-licensed commercial fisheries in Michigan waters of Lake Michigan. Study investigators will assess the current status and trends of these stocks by monitoring the whitefish harvest in the commercial trap fishery and forecasting the total allowable yield of whitefish from discrete fishery management zones. Bacterial kidney disease has been documented in Lake Michigan lake whitefish populations. Activities will include determining the extent of the disease in whitefish from all management zones.

Contact: Phillip J. Schneeberger

Agency: Michigan Department of Natural Resources

Amount Funded by Fiscal Year:     2003   \$12,526

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**Minnesota**

Project Description: Lake Superior Commercial Fisheries Assessment

Purpose: Study activities will continue to ascertain and monitor the status of lake trout and commercial fish stocks in the Minnesota waters of Lake Superior. Activities will determine production and relative abundance indices and degree of interaction between different types of fishing, including sportfishing. Project data will be analyzed to aid in decision making in the rehabilitation and utilization of these resources.

Contact: Donald R. Schreiner

Agency: Minnesota Department of Natural Resources

Amount Funded by Fiscal Year:     2003   \$12,526  
  2004   \$12,173

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**New Hampshire**

Project Description: Monitoring of New Hampshire Fishery for American Lobster (*Homorus americanus*) Resource and Fishery in New Hampshire

Purpose: This grant provides support for a project to monitor the New Hampshire lobster resource in order to provide a long-term database that will assist in interstate lobster management decision making. Specifically, the project will determine juvenile lobster abundance by collecting lobsters while scuba diving. Important population parameters that will be determined include catch per unit effort, sex, size, and relative abundance.

Contact: John I. Nelson, Jr.

Agency: New Hampshire Fish and Game Department

Amount Funded by Fiscal Year:	2003	\$12,526
	2004	\$24,345

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**New Jersey**

Project Description: Inventory of New Jersey's Surf Clam Resource

Purpose: This project will determine the standing stock of surf clams in New Jersey coastal waters from Cape May to Shark River, and the size distribution of surf clams within the standing stock. It will also determine from plankton samples the general distribution and abundance of recently set surf clams occurring within the 3-mile territorial sea.

Contact: Jeffrey Normant

Agency: New Jersey Department of Environmental Protection

Amount Funded by Fiscal Year:	2003	\$123,168
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**New Jersey**

Project Description: Surf Clam Inventory Project

Purpose: This project will continue to (1) determine the standing stock of surf clams in New Jersey coastal waters from Cape May to Shark River; (2) determine the size distribution of surf clams within the standing stock; and (3) determine the general patterns of setting of surf clams from the plankton within the 3-mile limit.

Contact: Jeffrey Norman

Agency: New Jersey Department of Environmental Protection

Amount Funded by Fiscal Year: 2004 \$129,512

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**New York**

Project Description: Fishery Dependent Monitoring of the American Lobster (*Homarus americanus*) and Horseshoe Crab (*Limulus polyphemus*) in the Marine District of Long Island, New York

Purpose: Investigators will collect information on the size and sex composition of the commercial lobster harvest from the waters off the east end and south shore of Long Island and will compile annual landings statistics for the New York lobster fishery by gear and area. They will also document and track the incidence and severity of the shell disease syndrome. Investigators will also collect landings data of horseshoe crab and manage the quota periods and harvest limits.

Contact: Kim A. McKown

Agency: New York Department of Environmental Conservation

Amount Funded by Fiscal Year: 2003 \$59,081  
2004 \$53,810

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**Ohio**

Project Description: Lab Study to Examine the Effects of Water Temperature and Elemental Composition on the Ring Formation and Chemistry of Fish Otoliths

Purpose: The project is designed to examine the effects and understand the impact of environmental variation on otolith daily ring formation and elemental composition in hatchery-raised yellow perch and walleye. Daily ring formation on otoliths of these known-age fish will be evaluated at different temperatures. Results will enable investigators to develop a library of known-age yellow perch walleye otoliths for use in future Lake Erie research investigations.

Contact: Roger L. Knight

Agency: Ohio Department of Natural Resources

Amount Funded by Fiscal Year: 2004 \$12,173

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**Pennsylvania**

Project Description: Documentation and Quantification of Alosids Utilizing Fish Passage Facilities and Collection of Biological Data on Adult American Shad – Phase VII

Purpose: Study activities will focus on the documentation and quantification of alosids using fish passage facilities at the Easton and Chain Dams on Lehigh River, the collection of biological data on adult American shad in spawning-taking operations at Smithfield Beach on the Delaware River, and the determination of origin of adult shad ascending the Easton Dam fishway and of outgoing juvenile shad.

Contact: Richard A. Snyder

Agency: Pennsylvania Fish and Boat Commission

Amount Funded by Fiscal Year: 2003 \$12,526

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**Pennsylvania**

Project Description: Documentation and Quantification of Alosids Utilizing Fish Passage Facilities and Collection of Biological Data on Adult American Shad – Phase IX

Purpose: This project will (1) document and quantify Alosids utilizing fish passage facilities at the Easton and Chain Dams on the Lehigh River, (2) collect biological data on adult American shad taken during spawning-taking operations at Smithfield Beach on the Delaware River, and (3) determine and identify origin (hatchery or wild) of adult shad ascending the Easton Dam fishway and of outgoing juvenile American shad.

Contact: Richard A. Snyder

Agency: Pennsylvania Fish and Boat Commission

Amount Funded by Fiscal Year: 2004 \$12,173

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**Rhode Island**

Project Description: Rhode Island Lobster Research and Management Project



Purpose: Project personnel will collect biological and population data on the Rhode Island lobster resource, and characterize the commercial lobster fishery. Information is to be collected through field sampling onboard commercial lobster boats and will include data on size, sex, and reproductive maturity. Data will be analyzed and later used in the management of lobster in Rhode Island and throughout its range in the Atlantic Ocean.

Contact: Thomas Angell

Agency: Rhode Island Division of Fish and Wildlife

Amount Funded by Fiscal Year:	2003	\$90,287
	2004	\$85,761

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**Vermont**

Project Description: Population Modeling of Atlantic Salmon in Vermont Tributaries of the Connecticut River

Purpose: Investigators will use a population modeling approach for juvenile Atlantic salmon in Vermont tributaries. They will be able to explore at which life stages restoration efforts would be most useful.

Contact: Donna Parrish

Agency: Vermont Department of Fish and Wildlife

Amount Funded by Fiscal Year:	2003	\$12,526
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**Vermont**

Project Description: Testing Population Models of Atlantic Salmon in Tributaries of the Connecticut River

Purpose: Investigators will test and refine population models for juvenile Atlantic salmon in Vermont tributaries. They will use previously collected independent data and will determine which model will be most informative for restoration of Atlantic salmon.

Contact: Donna Parrish

Agency: Vermont Department of Fish and Wildlife

Amount Funded by Fiscal Year: 2004 \$12,173

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**Virginia**

Project Description: Commercial Fisheries Statistics Information Systems

Purpose: The purpose of this project is to enable the State of Virginia to continue and expand its effort in the collection, processing, and dissemination of commercial catch and effort data for interjurisdictional fishery species. This project will collect and process monthly commercial harvest data and periodic recreational catch data in a manner that makes it readily available for use by VMRC personnel and subsequent dissemination to various user groups.

Contact: Stephanie R. Iverson

Agency: Virginia Marine Resources Commission

Amount Funded by Fiscal Year: 2003 \$150,309  
2004 \$146,073

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**Wisconsin**

Project Description: Great Lakes Commercial Fisheries Licensing and Harvest Statistics Information System

Purpose: Wisconsin DNR will (1) implement the Electronic Fish Harvest Reporting System (EFHRS) pilot project; (2) issue annual commercial fishing licenses and quota permits for Lakes Michigan and Superior; (3) prepare annual commercial harvest and effort statistical reports for Lake Michigan using available and custom formats; (4) design custom statistical reports requested by fisheries managers, conservation wardens, and others; and (5) fulfill liaison responsibilities to the Lake Michigan Commercial Fishing Board.

Contact: Michael Toney

Agency: Wisconsin Department of Natural Resources

Amount Funded by Fiscal Year: 2003 \$12,526  
2004 \$12,173

## **NORTHWEST REGION**

The Northwest Region encompasses two coastal states—Oregon and Washington—and seven inland states—Colorado, Idaho, Montana, North Dakota, South Dakota, Utah, and Wyoming.

### **HIGHLIGHTS OF THE NORTHWEST REGION GRANT ACTIVITIES**

In the Northwest Region, most of the funding provided under the Anadromous Fish Conservation Act (AFC) and the Interjurisdictional Fisheries Act (IFA) continued to support ongoing activities critical to management of salmon and groundfish fisheries. Oregon, Washington, and the Pacific States Marine Fisheries Commission received AFC funds to support the management of salmon under the Pacific Fishery Management Council's Ocean Salmon Fishery Management Plan and the U.S.–Canada Pacific Salmon Treaty. Historically, the Pacific salmon fishery was the most valuable and most controversial fishery in the Northwest. Salmon managers are faced with many complex management issues stemming from dwindling stocks, a highly mobile and overcapitalized commercial fishing fleet, increasing recreational interest, obligations to treaty Indian tribes, and obligations under the U.S.–Canada Pacific Salmon Treaty. Management of mixed-stock salmon fisheries, which include depressed salmon stocks and stocks listed or proposed for listing under the Endangered Species Act, requires continuous data collection, analysis, and monitoring of the catch coastwide to meet conservation and allocation objectives. AFC funding supported tagging of various salmon stocks, collection and processing of coded wire tags, aggregation and submission of tag data, and the Pacific States Marine Fisheries Commission's (PSMFC) Regional Mark Information System. The coded wire tag program has been in place for over 30 years and is the primary tool used for assessing stock structure and fishing impacts, and for managing ocean and in-river fisheries.

The Northwest Region provided IFA funds to Washington, Oregon, and Idaho and to the Pacific States Marine Fisheries Commission. The PSMFC used its IFA funding to coordinate interstate plans on interjurisdictional species and to support studies of near-shore rockfish. Both Washington and Oregon used the majority of their IFA funds for groundfish data collection activities that support the Pacific Coast Groundfish Fishery Management Plan. In addition, a portion of Oregon's IFA funds were used to support management of pink shrimp. Idaho's IFA funding supported the development of estimates of run size and harvest levels of certain wild steelhead stocks in the Snake River Basin. The remainder of the inland states did not qualify for funding under the IFA.

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### **ANADROMOUS FISH CONSERVATION ACT**

#### **Washington**

Project Description: Joint Washington–Oregon Salmon Management

Purpose: This funding will support the Washington Department of Fish and Wildlife (WDFW) in carrying out certain ocean salmon management activities. These activities will support efforts to provide high-quality and timely harvest, stock identification, and stock assessment data. Among the activities supported by this funding are catch sampling, harvest monitoring, tagging juvenile salmon and recovering tagged fish, and conducting genetic analyses to identify returning salmon stocks.

Contact: Doug Milward

Agency: Washington Department of Fish and Wildlife

Amount Funded by Fiscal Year:	2003	\$446,488
	2004	\$437,690

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**INTERJURISDICTIONAL FISHERIES ACT**

**Idaho**

Project Description: Stock Enumeration and Monitoring of Two Stocks of Wild Summer Steelhead in the Snake River Basin

Purpose: The recipient will estimate run sizes of wild-origin steelhead stocks crossing the Lower Granite and Bonneville dams and estimate the harvest of wild steelhead in the mainstem Columbia River and tributaries.

Contact: Scott Marshall

Agency: Idaho Department of Fish and Game

Amount Funded by Fiscal Year:	2003	\$12,595
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**Idaho**

Project Description: Abundance and Migratory Patterns of Steelhead Returning to the Snake River Basin

Purpose: The recipient will provide accurate estimates of the survival and migration timing of steelhead to the Snake River Basin. The recipient will query the PIT tag database to detect steelhead that migrate over dams in the Columbia River and Snake River. The steelhead will be classified as A-Run or B-Run. Staff will determine survival rates for both A-run and B-run,

hatchery and wild fish and time of entry curves. Data will be provided to the U.S. vs. Oregon Technical Advisory Committee.

Contact: Scott Marshall

Agency: Idaho Department of Fish and Game

Amount Funded by Fiscal Year: 2004 \$12,173

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**Oregon**

Project Description: Oregon Interjurisdictional Fisheries Act Program

Purpose: Provide scientifically based management and assessment data and information to the Oregon Fish and Wildlife Commission and Pacific Fishery Management Council for use in management and conservation of the West Coast groundfish resource. Funding also supports the collection and analysis of scientific information and the assessment of alternative use strategies for management of the interstate pink shrimp fishery resource.

Contact: Robert W. Hannah, Jr.

Agency: Oregon Department of Fish and Wildlife

Amount Funded by Fiscal Year: 2003 \$124,051  
2004 \$121,484

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**Pacific States Marine Fisheries Commission**

Project Description: Pacific Ocean Interjurisdictional Fisheries Management Plan Coordination and Management Award

Purpose: Continue coordination of interstate fisheries management activities and development, and monitoring and revision of interstate fishery management plans for interjurisdictional fish species off the West Coast. Further, PSMFC will identify and prioritize development of potential interstate management plans; coordinate state and federal data collection efforts that support interstate fishery management plans; and support state initiatives that research life histories, exploitation rates, and survey methodologies.

Contact: Dave Colpo

Agency: Pacific States Marine Fisheries Commission



## **SOUTHEAST REGION**

There is a great diversity of fishery resources within the Southeast Region, which includes 17 states—Alabama, Arkansas, Florida, Georgia, Iowa, Kansas, Louisiana, Mississippi, Missouri, North Carolina, New Mexico, Nebraska, Oklahoma, Puerto Rico, South Carolina, Tennessee, and Texas—and the U.S. Virgin Islands.

### **HIGHLIGHTS OF THE SOUTHEAST REGION GRANT ACTIVITIES**

North Carolina, South Carolina, and Mississippi received funding (totaling \$112,751 and \$110,542 in FY 2003 and 2004, respectively) under the AFC. Research continued in Mississippi to determine the status of the striped bass population in the Pascagoula River in order to evaluate the effects of the ongoing restoration effort; the suitability of the river to meet the critical habitat requirements for all striped bass life stages was also investigated. In North Carolina, information on growth and reproductive patterns, relative abundance, population structure, habitat utilization, and commercial harvest of Albemarle Sound Alosids was collected. Fishery-dependent data, including catch/effort and exploitation rates, continue to be collected for American shad in South Carolina waters. South Carolina also investigated the sturgeon population in the Edisto River. Each of these projects is part of long-term studies designed to provide valuable information for state and interstate management of anadromous resources.

Eligible recipients within the Southeast Region received \$1,007,588 in 2003 and \$984,296 in 2004 for financial assistance under the IFA. Funding was used for projects designed to support the conservation and management of commercial and recreational interjurisdictional living marine resources managed under the auspices of the Atlantic States Marine Fisheries Commission, the Gulf States Marine Fisheries Commission, and/or one of the three fishery management councils within the Southeast Region. Efforts continued on the development, monitoring, implementation, and revision of fishery management plans (blue crab, horseshoe crab, menhaden, striped mullet, shrimp, striped bass, Spanish mackerel, oyster, black drum, red drum, spotted seatrout, bluefish, flounder, croakers and other bottom fish, conchs, eels, and sheepshead). Research addressing stock assessment, stock identification, stock status, life history characteristics, and gear impacts continues to provide valuable information necessary for effective management of important marine resources such as penaeid shrimp, blue crab, stone crab, oyster, sciaenids, coastal sharks, and bottomfish. Collections of commercial landings statistics and biostatistics from Puerto Rico and the U.S. Virgin Islands provide vital data for the management of Caribbean resources.

### **ANADROMOUS FISH CONSERVATION ACT**

#### **Mississippi**

Project Description: Evaluating the Striped Bass Restoration Program for Mississippi's Gulf Coast

Purpose: Objectives are to determine the status of the striped bass population in the Pascagoula

and Pearl Rivers in order to evaluate the effects of the restoration effort in the past, present, and future; determine the suitability of the rivers to meet the critical habitat requirements for striped bass life stages (eggs and larvae through adult); and collect and evaluate tag return data resulting from stocking tagged advanced fingerlings.

Contact: Larry C. Nicholson

Agency: University of Southern Mississippi

Amount Funded by Fiscal Year:	2003	\$44,255
	2004	\$43,388

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**North Carolina**

Project Description: Albemarle Sound Area Alosid Management

Purpose: The relative abundance, growth, and distribution of juvenile Alosids will be determined. The annual commercial harvest and value of anadromous fishes harvested in the Albemarle Sound area will be estimated. The relative abundance, size, age, and sex composition for river herring from the Chowan River commercial pound net fishery will be determined. The contribution of each year class to the blueback herring and alewife harvest from the Chowan River pound net fishery by sex and by week will be estimated.

Contact: Maury Wolff

Agency: North Carolina Department of Environment and Natural Resources

Amount Funded by Fiscal Year:	2003	\$9,945
	2004	\$9,750

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**South Carolina**

Project Description: Sturgeon Investigations in the Lower Edisto River

Purpose: Sturgeon will be captured in the lower Edisto River. Sturgeon catches and recaptures will produce information on sturgeon growth rates, movements, and year class strength. Recaptures from non-target fisheries will supply needed information on the impacts of other fisheries on protected sturgeons. Such information should prove useful in the development of the best management of other fisheries, including American shad gill-net fisheries, which may adversely impact sturgeons. Data produced by the project will be used to develop management recommendations for South Carolina's anadromous fish stocks and to provide input into the Atlantic States Marine Fisheries Commission management plans for Atlantic sturgeon and



American shad. Tissue samples for genetic analyses and hardened fin ray clippings for age determinations will be archived for future work outside the scope of this project. Reports will be submitted as scheduled to record progress during the course of the project.

Contact: John McCord

Agency: South Carolina Department of Natural Resources

Amount Funded by Fiscal Year:     2003   \$58,551  
  2004   \$175,477

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**South Carolina**

Project Description: Investigations of Fisheries Parameters for Anadromous Fishes in South Carolina

Purpose: The ASMFC has mandated fishery-dependent and fishery-independent monitoring efforts for American shad (*Alosa sapidissima*) along the Atlantic coast of the United States. In fulfillment of these mandates, South Carolina will collect catch/effort data from the fishery and will collect biological data (length, weight, sex, and age) from the fishery as well as from a fishery-independent mark-recapture study (length, sex, recapture rate). Data collected during this study will be entered into a database for long-term evaluation of population trends. Study results will be disseminated in progress reports, ASMFC compliance reports, oral technical presentations, and possibly through publication in peer-reviewed technical journals.

Contact: Mark R. Collins

Agency: South Carolina Department of Natural Resources

Amount Funded by Fiscal Year:     2004   \$57,404

**INTERJURISDICTIONAL FISHERIES ACT**

**Alabama**

Project Description: Enforcement and Coordination of Interjurisdictional Fisheries Protection

Purpose: This project helps provide a coordinated enforcement program with NMFS and adjacent states for interjurisdictional fisheries protection measures. Training sessions conducted by NMFS Enforcement agents have enhanced the knowledge and ability of state officers in the interpretation and enforcement of interjurisdictional fisheries regulations established in FMPS. A number of individual and joint enforcement operations have been conducted, resulting in arrests and successful prosecution of cases. Joint public hearings and briefings have educated

the public about interjurisdictional fisheries protection measures and the state and federal roles in enforcing these measures. Equipment purchases have enhanced sea patrols, resulting in increased detection of possible violations, and assisted in successful prosecution of violators.

Contact: John T Jenkins

Agency: Alabama Department of Conservation and Natural Resources

Amount Funded by Fiscal Year:	2003	\$25,190
	2004	\$24,345

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**Florida**

Project Description: Florida's Interjurisdictional Marine Fisheries Research Program

Purpose: In cooperation with industry personnel; appropriate public and private, local and state agencies and groups; and other FMRI research groups, the program provides fisheries-dependent and fisheries-independent information on aspects of the population biology and fisheries utilization of selected commercially valuable marine arthropods (blue crabs, shrimp, and horseshoe crabs) for fishery management.

Contact: Linda Torres

Agency: Florida Fish and Wildlife Conservation Commission

Amount Funded by Fiscal Year:	2003	\$151,140
	2004	\$146,073

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**Georgia**

Project Description: Assessment of Georgia's Marine Fisheries Resources

Purpose: This project will determine the relative abundance, size composition, and reproductive status of Georgia's penaeid shrimp and blue crab stocks. Monthly fisheries-independent trawl assessment sampling data will be used to evaluate stock status and to develop recommendations for optimum management of these important marine resources.

Contact: Ron Michaels

Agency: Georgia Department of Natural Resources



2004 \$146,073

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**Mississippi**

Project Description: Monitoring and Assessment of Mississippi's Interjurisdictional Marine Resources

Purpose: Project activities for this grant will consist of multiple jobs directed toward sampling various populations of fish and shellfish in Mississippi waters. Activities will be directed toward multi-species monitoring and assessment for continuation of a long-term database, monitoring finfish year class structure, and oyster monitoring. Required performance reports and analyses will be submitted to the NMFS program office on the schedule required by the financial assistance award.

Contact: Joe Jewell

Agency: Mississippi Department of Marine Resources

Amount Funded by Fiscal Year:     2003   \$102,771  
  2004   \$98,429

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**North Carolina**

Project Description: North Carolina Commercial Fisheries Assessment

Purpose: To collect, analyze and report information on North Carolina finfish operations for use in management of the fisheries and stocks; and preparation and implementation of state and interjurisdictional management plans for the fisheries of species involved.

Contact: Maury Wolff

Agency: North Carolina Department of Environment and Natural Resources

Amount Funded by Fiscal Year:     2003   \$113,232  
  2004   \$115,039

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**Puerto Rico**

Project Description: Puerto Rico/NMFS Interjurisdictional Fisheries Program

Purpose: Data collection activities will be conducted to provide efficient and reliable estimates

of the quantity and value of the commercial harvest and landings of fishery products for specific geographical areas of Puerto Rico. Port agents and PIs will visit the 42 coastal municipalities of Puerto Rico to collect the landings data by species, weight, value per pound, gear type, and CPUE data. Collected fisheries data will be managed and entered in computers and will be analyzed by the PI.

Contact: Daniel Matos-Caraballo

Agency: Puerto Rico Department of Natural and Environmental Resources

Amount Funded by Fiscal Year:     2003   \$12,595  
  2004   \$12,173

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**South Carolina**

Project Description: Assessment of Ocean Populations of Red Drum

Purpose: Sampling will be continued using bottom long-line gear, data on catch/effort and distribution will be collected, red drum will be tagged; information on migratory patterns will be obtained; a sample of red drum will be aged, and reproductive condition will be assessed.

Contact: Glen Ulrich

Agency: South Carolina Department of Natural Resources

Amount Funded by Fiscal Year:     2003   \$25,190

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**South Carolina**

Project Description: Fishery Independent Assessment of Adult Red Drum and Coastal Sharks in South Carolina

Purpose: The goal of the proposed research is to conduct continuing fishery-independent assessment of the population status of adult red drum and coastal shark species in the near-shore ocean and estuarine waters of South Carolina.

Contact: Glen Ulrich

Agency: South Carolina Department of Natural Resources

Amount Funded by Fiscal Year:     2004   \$24,345

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**Texas**

Project Description: Monitoring of Shellfish Resources for Shellfish Management in Texas Coastal Waters

Purpose: A random sampling survey will be conducted along shoreline areas within major shrimp- and crab-producing Texas coastal bay waters to monitor trends in abundance and size of brown shrimp, white shrimp, pink shrimp, and blue crab; and in major shrimp- and crab-producing Texas coastal open bay waters (>= 3 feet) to monitor trends in abundance and size of brown shrimp, white shrimp, pink shrimp, and blue crabs. In addition, blue crab genetics work will be conducted and analyzed. Data summarization and the required completion report will be prepared for submission to NMFS Program Office.

Contact: Mark Fisher

Agency: Texas Department of Parks and Wildlife

Amount Funded by Fiscal Year:	2003	\$151,140
	2004	\$146,073

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**Virgin Islands**

Project Description: Virgin Islands Research and Assessment for Interjurisdictional Species

Purpose: The project will maintain reporting services on commercial finfish and shellfish resources of the USVI, as well as manage and disseminate these fisheries statistics through coordination of activities between NMFS and the Department of Planning and Natural Resources, Division of Fish and Wildlife (DFW).

Contact: Vicky Christian

Agency: Virgin Islands Department of Planning and Natural Resources

Amount Funded by Fiscal Year:	2003	\$12,595
	2004	\$12,173

## **SOUTHWEST REGION**

The NMFS Southwest Region includes three states—Arizona, California, and Nevada.

### **HIGHLIGHTS OF THE SOUTHWEST REGION GRANT ACTIVITIES**

All of the funds available for anadromous fish conservation and most of the funds for interjurisdictional fisheries have been applied to the task of monitoring fishery resources, which includes collecting commercial and recreational landings at various ports, taking biological samples from landed fish, and marking salmon during their upstream migration. The information obtained from these projects is used to make resource assessments, many of which support fishery management plans developed by the Pacific Fishery Management Council in accordance with the Magnuson-Stevens Fishery Conservation and Management Act (MSA). Projects include fisheries monitoring in California to support the recently implemented Coastal Pelagic Species Fishery Management Plan developed by the Pacific Fishery Management Council (Council), and port sampling of recreational and commercial salmon in California in support of the Council's Pacific Salmon Fishery Management Plan.

### **ANADROMOUS FISH CONSERVATION ACT**

#### **California**

Project Description: Salmon and Steelhead Research, Management and Enhancement Project

Purpose: This project provides data for the management of salmon and steelhead fisheries in the ocean and in the Klamath River Basin.

Contact: Donald B. Koch

Agency: California Department of Fish and Game

Amount Funded by Fiscal Year:	2003	\$297,983
	2004	\$292,145

### **INTERJURISDICTIONAL FISHERIES ACT**

#### **California**

Project Description: Monitoring and Management of California Commercial Coastal Pelagic Species

Purpose: Sample landings of coastal pelagic species are managed by a federal Fishery Management Plan. This information will provide valuable time-series for assessing the status of

managed species.

Contact: Lenore Phelps

Agency: California Department of Fish and Game

Amount Funded by Fiscal Year:	2003	\$151,100
	2004	\$146,073



**PACIFIC ISLANDS REGION**

The Pacific Islands Region includes American Samoa, Hawaii, Guam, Commonwealth of the Northern Mariana Islands, Republic of the Marshall Islands, Federated States of Micronesia, and the Republic of Palau.

**HIGHLIGHTS OF THE PACIFIC ISLANDS REGION GRANT ACTIVITIES**

The State of Hawaii, the territories of American Samoa and Guam, and the Commonwealth of the Northern Mariana Islands received varying amounts of federal funds to maintain and improve data collection in the Western Pacific, which supports fisheries managed under the authority of the MSA as well as those fisheries managed locally. The Western Pacific Fisheries Information Network (WPacFIN), with oversight by the Honolulu Laboratory of the Southwest Fisheries Science Center, provides a database for the Western Pacific with a consistent set of standards, and funds from the Interjurisdictional Fisheries Act have often been used in conjunction with funds from WPacFIN. Projects include sampling commercial landings in American Samoa, revising the catch data system in Hawaii, and documenting transshipments of fish in Guam.

**INTERJURISDICTIONAL FISHERIES ACT**

**American Samoa**

Project Description: American Samoa Resources Assessment and Monitoring Program

Purpose: This project will collect basic catch/effort data on local catches of interjurisdictional fish species. It will also fund the department's enforcement of commercial fishing licenses, invoice collection program, and monitoring of pelagic fish leakage from foreign longline vessels into the local market.

Contact: Ufagafa Ray Tulafono

Agency: American Samoa Government

Amount Funded by Fiscal Year: 2003 \$142,971

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**American Samoa**

Project Description: Interjurisdictional Fisheries Funding for American Samoa

Purpose: This project provides both technical and financial support to the Department of Marine and Wildlife Resources of the American Samoa Government to assess and monitor the status of interjurisdictional fish species caught within American Samoa's EEZ. The data obtained through this project will be one of the main sources of information for addressing local and federal

requirements for FMPs under the jurisdiction of the Department of Marine and Wildlife Resources and NMFS through the Western Pacific Regional Fishery Management Council.

Contact: Ufagafa Ray Tulafono

Agency: American Samoa Government

Amount Funded by Fiscal Year: 2004 \$144,793

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**Guam**

Project Description: Data Collection and Entry in the Management of Guam's Interjurisdictional Fishery Resources

Purpose: The funds will be used to continue collecting and reporting data on the stocks of billfish and other pelagic species in Guam's interjurisdictional zone. The information collected from transshipment logs will enable the management and proper use of fishery resources within Guam's waters.

Contact: Manuel Q. Cruz

Agency: Government of Guam

Amount Funded by Fiscal Year: 2003 \$12,595  
2004 \$12,173

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**Hawaii**

Project Description: Development and Implementation of a Revised Fish Catch Dealer Reporting System

Purpose: The project will develop, implement, and maintain a commercial fish dealer reporting system.

Contact: William S. Devick

Agency: Hawaii Department of Land and Natural Resources

Amount Funded by Fiscal Year: 2003 \$54,500

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**Hawaii**

Project Description: Interjurisdictional Funding for the Modification and Maintenance of the Web-based Internet Commercial Marine Licensing System (CMLS) for the State of Hawaii

Purpose: The goal of the project is to properly maintain all of the licensing workstations and Internet application. This enables the Department of Aquatic Resources (DAR) to service commercial fishers by issuing fishing licenses over the counter or by mail, and also to provide the convenience of online license issuance service to the public on a 24/7 basis. As of July 1, 2004, fishers will not be able to renew licenses if the reporting requirement is not met. By continuing to upgrade and maintaining the licensing system, DAR can effectively improve its capacity and opportunity to license every fisher who sells his or her catch. To this end, DAR will be able to increase its license issuance coverage and compliance with the fishing report requirement. This should increase the number of commercial fishing reports submitted by fishers and provide a more comprehensive collection of fisheries data for the federal FMP teams.

Contact: William S. Devick

Agency: Hawaii Department of Land and Natural Resources

Amount Funded by Fiscal Year: 2004 \$24,345

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**Northern Mariana Islands**

Project Description: Data Collection and Data Entry in the Management of CNMI's Interjurisdictional Fishery Resource

Purpose: This Project complements ongoing data collection and information processing from landings and transshipments of tuna and other pelagic species delivered to Guam's ports by U.S. domestic and foreign fishing vessels. The information is used in coordination with the Western Pacific Fishery Information Network and is part of the pelagic fisheries database for the Western Pacific region.

Contact: Richard B. Seman

Agency: Commonwealth of the Northern Mariana Islands

Amount Funded by Fiscal Year: 2003 \$12,595

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**Northern Mariana Islands**

Project Description: Interjurisdictional Funding for the Commonwealth of the Northern Mariana

Islands

Purpose: This project's specific goals and objectives are to collect and computerize fisheries-dependent data from the domestic fisheries of Saipan and to provide these data to the NMFS Pacific Islands Fisheries Science Center (PIFSC), WPacFIN office in Honolulu, Hawaii, in standard database formats on an established quarterly basis. As detailed in the Statement of Work, the fisheries monitoring program currently covered by this project includes the Northern Islands Bottomfish Complexes and the Longline Landings Sampling.

Contact: Richard B. Seman

Agency: Commonwealth of the Northern Mariana Islands

Amount Funded by Fiscal Year: 2004 \$12,173

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## ALASKA REGION

The Alaska Region encompasses an area with over half the U.S. maritime coastline. Harvest levels of over 5 billion pounds in 2003 and comparable total projections for 2004 continue to place Alaska among the top 10 world seafood producers. Alaskan waters support the largest U.S. fishery resource, with a combined seafood harvest of almost half the total U.S. production. Within the state, the seafood industry is the largest private-sector employer, creating one-fifth of all Alaska jobs. In addition to commercial harvest, the charter and recreational fishery in Alaska continues to expand and gain prominence as a significant contributor to the state's economy. In coastal Alaska and interior river communities, residents depend heavily on the subsistence salmon fishery. Economic activities related to Alaska's marine resources have a substantial impact on the state's dispersed population. The dominance of fishery-related employment in the state and the importance of fishing to the subsistence economies of rural Alaska create considerable demands on the resource management process.

The high levels of Alaska seafood exports, the state's geographic proximity to foreign countries, and the presence of foreign vessels outside its waters elevate many of the Alaska Region's fishery management issues to an international scope. The fish stocks in Alaska waters are healthy, robust, and one of the greatest national resources. Many challenges lie ahead for fisheries management and the Alaska seafood industry. Projects conducted under these grants lead to a better understanding of the fish stocks and help to develop fisheries management regimes that will ensure the future vitality of this region's marine resource.

### HIGHLIGHTS OF THE ALASKA REGION GRANT ACTIVITIES

In FY 2003 and 2004, the Alaska Region received \$366,439 and \$359,260, respectively, for use under the Anadromous Fish Conservation Act (AFC). Of these amounts, the Region apportioned \$336,439 in FY 2003 and \$329,260 in FY 2004 to the Alaska Department of Fish and Game (ADF&G), and \$30,000 in both years to the University of Washington's Fisheries Research Institute for Chignik sockeye studies in Alaska. In FY 2003 and 2004, the Alaska Region received \$151,140 and \$146,073, respectively, for use under the IFA; in both years all funds were apportioned to ADF&G.

The AFC projects included studies on sockeye, pink, chum, coho, and chinook salmon in Southeast Alaska and on sockeye salmon at Chignik, Alaska. Results of these anadromous fish studies continue to support a wide range of state, national, and international fisheries management policies. Recent history has seen dismal sockeye runs in the Bristol Bay area, and a complete run collapse continues in the chum and chinook salmon fisheries in the Yukon River. These events, occurring with otherwise healthy stocks, highlight the value of the research investment in the AFC program in Alaska.

Funds provided by the IFA support management of fisheries for stocks of groundfish in the eastern Gulf of Alaska and the internal marine waters of Southeast Alaska. These stocks migrate between Canadian and U.S. waters and between State of Alaska waters and the U.S. EEZ off

Alaska.

**ANADROMOUS FISH CONSERVATION ACT**

**Alaska**

Project Description: Southeast Alaska Anadromous Salmon Research

Purpose: This award will continue important salmon research in Southeast Alaska by completing the following four sub-projects: Pink and Chum Salmon Stock Evaluation Program, Coho Salmon Research, Salmon Catch Sampling Project, and Troll Fishery Management Methods Research.

Contact: Cecilia A. Wagoner

Agency: Alaska Department of Fish and Game

Amount Funded by Fiscal Year:	2003	\$336,439
	2004	\$329,260

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**Washington**

Project Description: Chignik Sockeye Studies

Purpose: This project will continue studies and annual measurement of Chignik Alaska sockeye salmon stocks. This work results in a long-term database with which to evaluate changes in the production of adult sockeye salmon from the Chignik lakes and a means of stabilizing or increasing production.

Contact: Ray W. Hilborn

Agency: University of Washington

Amount Funded by Fiscal Year:	2003	\$30,000
	2004	\$30,000

**INTERJURISDICTIONAL FISHERIES ACT**

**Alaska**

Project Description: Southeast Alaska Interjurisdictional Fisheries Act

Purpose: This project will provide management and research supervision of state-managed

fisheries—primarily for sablefish, lingcod, and Pacific cod—as well as for demersal shelf rockfish, which is jointly managed with NMFS. The primary supervised activities include collection of fishery catch statistics, collection of biological and stock status information, stock assessment surveys, and management actions to open and close fisheries.

Contact: Cecilia A. Wagoner

Agency: Alaska Department of Fish and Game

Amount Funded by Fiscal Year:	2003	\$151,140
	2004	\$146,073

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