

PROGRAM DESIGN DOCUMENT
FOR THE
FISHERIES
INFORMATION NETWORK IN
THE SOUTHEAST REGION
(FIN)

JUNE 2002

Number 55

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I. OVERVIEW

The Fisheries Information Network (FIN), comprised of the Commercial Fisheries Information Network (ComFIN) and the Southeast Recreational Fisheries Information Network [RecFIN(SE)] are state-federal cooperative programs to collect, manage, and disseminate statistical data and information on the marine and estuarine commercial and recreational fisheries of the Southeast Region.¹

The need for a comprehensive and cooperative data collection program has never been greater because of the magnitude of fisheries and the differing roles and responsibilities of the agencies involved. Many southeastern stocks are stressed, due to excessive harvest and changes in essential habitat. The information needed by management agencies require data that are statistically sound, long-term in scope, timely, and comprehensive. Given the limited resources of management agencies to provide this information, a cooperative partnership between state and federal agencies is essential to accomplish these goals.

Efforts by state and federal agencies to develop a cooperative program for the collection and management of commercial and recreational fishery data in the Region began in the mid to late 1980s. In 1992, the National Marine Fisheries Service formally proposed a planning activity to establish the RecFIN(SE). Planning was conducted by a multi-agency Plan Development Team through October 1992 at which time the program partners approved a Memorandum of Understanding (MOU) which established clear intent to implement the RecFIN(SE). Upon signing the MOU, a RecFIN(SE) Committee was established.

In 1994, the NMFS initiated a formal process to develop a cooperative state-federal program to collect and manage commercial fishery statistics in the Region. Due to previous work and NMFS action, the Southeast Cooperative Statistics Committee (SCSC) developed a MOU and a draft framework plan for the ComFIN. During the development of the ComFIN MOU, the SCSC, in conjunction with the RecFIN(SE) Committee, decided to combine the MOU to incorporate the RecFIN(SE). The MOU creates the FIN which is composed of both the ComFIN and RecFIN(SE). The MOU, signed in 1995, confirmed the intent of the signatory agencies to participate in implementing the ComFIN and RecFIN(SE).

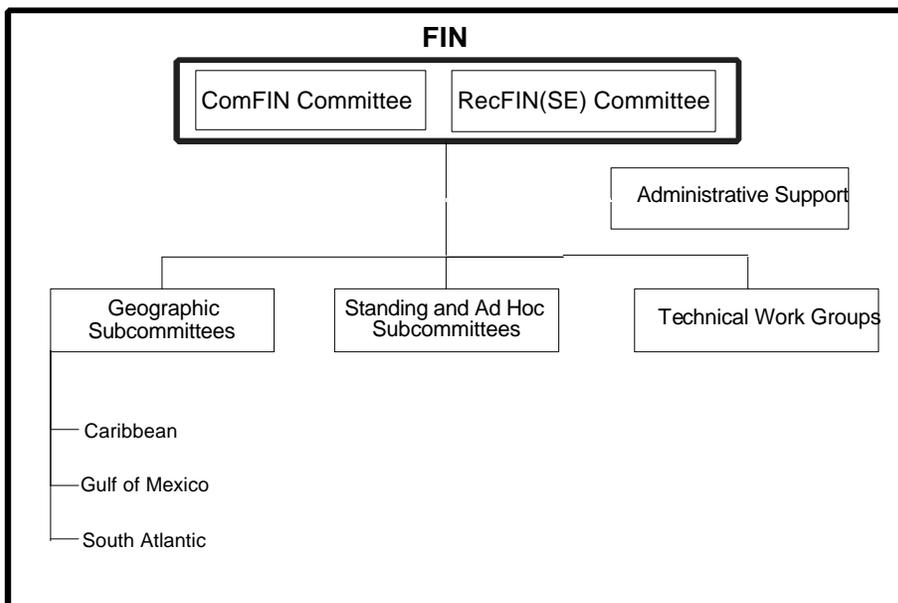
This document provides detailed information on the program standards and policies, reporting requirements and sampling programs, quality control and assurance documentation, and processes

¹The Southeast Region (the Region) includes Alabama, Florida, Georgia, Louisiana, Mississippi, North Carolina, Puerto Rico, South Carolina, Texas, and the U.S. Virgin Islands.

necessary for program adjustments and modification. Program requirements should be followed by all participating agencies as fully as possible to ensure effective implementation of the ComFIN/RecFIN(SE) data collection and data management systems. The program is built on the cooperation between the states and federal agencies mandated to manage the fisheries resources. The program is similar to the Atlantic Coast Cooperative Statistics Program (ACCSP), which is being developed for the states along the Atlantic coast. The FIN will be coordinated with the Pacific Fisheries Information Network (PacFIN), and the Pacific Recreational Fisheries Information Network (Pacific RecFIN) and the ACCSP to form a national program. It needs to be pointed out that the development of a cooperative data collection and management program is a dynamic process and the document reflects the current situation for collection and management of fisheries data. Due to changes and improvements in methodologies, technologies, etc., there will be modifications to the program in the future.

A. Program Organization

The organizational structure consists of the FIN Committee, the ComFIN and RecFIN(SE) Committees, three geographic subcommittees (Caribbean, Gulf, and South Atlantic), standing and ad hoc subcommittees, technical work groups, and administrative support. Figure 1 outlines the organizational structure of FIN.



Committees

The ComFIN and RecFIN(SE) Committees consist of the signatories to the MOU or their designees, and are responsible for planning, managing, and evaluating the program. Agencies represented by signatories to the MOU are the National Marine Fisheries Service, U.S. Fish and Wildlife Service,

National Park Service, Alabama Department of Conservation and Natural Resources, Florida Department of Environmental Protection, Georgia Department of Natural Resources, Louisiana Department of Wildlife and Fisheries, Mississippi Department of Marine Resources, North Carolina Department of Environment and Natural Resources, Puerto Rico Department of Natural and Environmental Resources, South Carolina Department of Natural Resources, Texas Parks and Wildlife Department, U.S. Virgin Islands Department of Planning and Natural Resources, Caribbean Fishery Management Council, Gulf of Mexico Fishery Management Council, South Atlantic Fishery Management Council, Atlantic States Marine Fisheries Commission, and Gulf States Marine Fisheries Commission.

Subcommittees

The ComFIN and RecFIN(SE) Committees are divided into three standing subcommittees representing the major geographical areas of the Region: Caribbean, Gulf, and South Atlantic. These subcommittees, comprised of technical personnel from state and federal fisheries agencies, are responsible for making recommendations to the Committee on the needs of these areas.

Standing and ad hoc subcommittees may be established as needed by the FIN, ComFIN, and RecFIN(SE) Committees to formulate administrative policies, to serve as nominating committees for the FIN, ComFIN, and RecFIN(SE) chair and other positions, or to address other issues as decided by the FIN, ComFIN, and RecFIN(SE) Committees. Members of these subcommittees will be members of ComFIN and RecFIN(SE) Committees.

Work Groups

Technical work groups are established as needed by the ComFIN and RecFIN(SE) Committees to carry out tasks on specific technical issues. Work groups are appropriate for accomplishing many of the specific ComFIN and RecFIN(SE) objectives. Each group is comprised of persons selected by the Committees for their expertise on the specific subject to be addressed and may include members of the ComFIN and RecFIN(SE) Committee, as well as nonmembers. Work groups are charged in writing by the Committees with specific tasks and may be disbanded by the Committees when that task is completed. "Standing" work groups may also be authorized by the Committees and be assigned a series of related tasks over a period of time.

The FIN Committee recognizes the importance of fishermen and industry input into the development of FIN. Because of this fact, the Committee has established advisory committees to address the importance of stakeholder input, methods used to gather input, and dissemination of information. The Gulf portion of the FIN uses the Gulf States Marine Fisheries Commission (GSMFC) Commercial/Recreational Advisory Panel to address these issues. And the South Atlantic portion of FIN will utilize the ACCSP Fisheries Statistics Advisory Committee to address these issues. These groups are comprised of people from both the commercial and recreational sectors. They will provide input into the development of the FIN.

Coordination and administrative support of the FIN, ComFIN, and RecFIN(SE) is accomplished through the GSMFC. All partners will be consulted concerning administrative and coordination

issues.

B. Program Structure

The two major components of the FIN are the data collection and data management system. The data collection component is divided into commercial and recreational modules. Although there are two distinctive components, the modules of both programs are similar. The components of the data collection system are catch and effort data. Biological data, social and economic data, discard and protected species interaction data, and quota monitoring. All the information collected under FIN will be integrated and available through the FIN data management system. This system will allow access to the data by fisheries managers, fishermen, scientists, the fishing industry and other interested parties according to confidentiality policies and protocols.

II. POLICIES AND GOALS

A. Bench marking Policy

New methods should be benchmarked before changing methods of surveys to ensure that the methodologies will remain consistent over the years of the survey. The temporal and spatial coverage will be determined on a case-by-case basis.

B. Confidentiality Policy Statement

The preferred alternative and long-term goal of the FIN for disclosure of or access to confidential fishery statistics is that an authorized user is any person, that is employed by or affiliated with (i.e., Regional Fishery Management Council members, and contractors/consultants employed by FIN partners) a FIN partner and has been designated by the respective partner to require confidential data as a means to fulfill their job and their job is related to fisheries management and conservation. States that are currently operating under this scenario will continue to do so without having to make changes to present laws or memoranda of understanding. Confidentiality policies and protocols adopted by the FIN must be consistent with state and federal statutes.

Only those data or information that could identify a person or business are considered confidential. Certain data elements, such as names, social security numbers, boat registration numbers, among others, are inherently confidential, since they identify individuals or businesses. Other data elements, such as number of trips or landings, may be confidential and must be considered on a case-by-case basis. Confidential information cannot be disclosed to the public. Such information can only be released to the public in aggregate form, such that the identity of the submitters cannot be determined either from the present release of the data or in combination with other releases. Although a *commonly used criterion for release of data is when three or more submitter have reported a species, other criteria may be necessary to ensure data confidentiality. Care should be taken in court cases to prevent the data from becoming public. All authorized users must consent to comply with state and federal non-disclosure policies and written statements. Confidential data can be disclosed to or accessed by authorized user.

The states of Louisiana, Mississippi, Alabama, and Florida, GSMFC and the NMFS have signed a Memorandum of Agreement (MOA) that allows the signatories to share confidential data. A request from any agency, organization, or individual not signatory to the MOA must be referred back to the state of data origin. It was also agreed that certain data in aggregate form could be disseminated upon request, because those data would not identify any individual.

Each agency will designate a position that is identified as the contact for that agency for data transfers or questions regarding sharing of data. A common list of certified confidential agents will be compiled, distributed to all appropriate state and federal personnel, and updated on a regular basis to assure that new personnel are added and those who quit or are terminated are deleted.

The following benchmarks need to be achieved once the FIN is fully on-line (partners start collection and compiling trip level data), and should be developed as quickly as possible.

- < Procedures need to be set whereby it is ensured that the data are accessed by authorized users only.
- < Ensure appropriate penalties are developed and fully enforced on individuals and/or agencies whom disclose confidential data to non-authorized persons.

C. Law Enforcement Policy Statement

The Enforcement Divisions within the FIN partners=agencies are charged with the management and protection of the marine resources under their respective jurisdictions. Effective implementation of the FIN will be contingent on industry=s active participation and management and law enforcement responsiveness. The law enforcement community will enforce the implementation of the reporting requirements of the program through their enforcement of marine resource regulations. Consistent with funding allocation and mission prioritization, each enforcement entity will enforce the regulations to promote compliance with the FIN requirements.

III. STANDARDS

It has been recognized that the majority of the participating agencies will require regulatory adjustments to fully implement ComFIN and RecFIN(SE) as outlined in the MOU and Framework Plan. Full implementation may take a considerable amount of time and effort. Therefore, FIN standards have been developed to provide some guidance:

All partners will continue cooperative planning to improve the collection of commercial and recreational fisheries statistics.

The FIN will collect data on all living marine resources, including finfish, crustaceans, shellfish, live rock and corals, aquaculture-raised species, marine mammal and endangered

species, and internationally managed species.

All partners will implement the FIN data collection and data management system within their jurisdictions, to the best of their ability.

The FIN partners must collect and submit information on marine resources landed in their jurisdiction regardless of where they were caught.

Public advice and input will be considered on all aspects of the FIN, including program modifications and changes.

The partners will identify needed and available fiscal resources, and will develop sources of fiscal resources, to achieve the FIN Program Design.

The FIN will distribute Program Design information to cooperators, stakeholders, partners, affected fishermen and other interested parties.

The FIN will conduct internal reviews on an annual basis and an external peer review at least every five years of operation to evaluate the FIN's success in meeting the needs of Southeastern United States fisheries managers and the public.

The FIN will coordinate, integrate, and augment, as appropriate, data collection efforts to meet FIN requirements.

All FIN data collection programs will develop procedures for verification of self-reported data.

The FIN will evaluate and utilize, where possible, innovative and cost-effective data collection and data management technologies, including automation.

The FIN will continue to provide input into long-term national planning to promote consistency and compatibility among regional programs over time. The FIN will also pursue long-term funding for continuation and expansion of all existing coastwide, and ultimately, a national statistics system.

The FIN will develop an annual Operations Plan including the tasks for monitoring, reviewing, and implementing ComFIN and RecFIN(SE) programs.

All partners will implement quality control and assurance procedures as documented in the FIN Standard Operating Procedures (SOP) Manual

IV. STANDARD DEFINITIONS

<u>Access sites</u>	Areas where fishermen fish from shore, or board or leave a boat to go fishing.
<u>Bank</u>	A stretch of rising land at the edge of a body of water not washed by high water, which could be rocks or an overhanging cliff.
<u>Beach</u>	A level stretch of pebbles, bed rock shore, or sand beside a body of water, often washed by high water.
<u>Breachway</u>	Shore along a connecting channel.
<u>Breakwaters</u>	An offshore structure used to protect a harbor or beach from the forces of waves.
<u>Bridge</u>	A structure carrying a pathway or roadway over a body of water.
<u>Bulkhead, Seawall</u>	A retaining wall along a waterfront.
<u>Catch</u>	The total number or weight (or other measure) of marine resources (fish, invertebrates, others) captured, which are retained, released or discarded.
<u>Discarded or Released Catch</u>	The portion of the catch that is not retained, (i.e. discarded or released at sea dead or alive) and includes incidental take of protected species.
<u>Immediate Use Catch</u>	The portion of the retained catch used for food or bait before the end of the trip.
<u>Landed Catch</u>	The total number or weight (or other measure) of all marine resources (fish, invertebrates, others) captured, brought to shore and retained at the end of a trip. This includes catch that is discarded or not sold after being landed. This type of catch is indicated by disposition codes.
<u>Retained Catch</u>	The number or weight of marine resources caught and kept for immediate use (bait, food) or for landing.

Causeway

An elevated or raised way across wet ground or water.

Charterboat

Trip Definition - Any trip of a vessel-for hire engaged in recreational fishing (VHERF) that is hired on a per trip basis. For survey purposes, and possible alternative definitions, information should be gathered on: a) number of anglers (refers to all marine recreational resource users); b) size of boat; and c) where fishing occurred.

Boat Definition - A charterboat is any vessel-for hire engaged in recreational fishing (VHERF) that typically is hired on a per trip basis.

Commercial and
Recreational
Fishermen

For statistical purposes only, anyone who sells or barter any portion of the catch from a trip is a commercial fisherman for that trip, and any marine resources that are sold or bartered are considered a commercial product. All other fishermen and catches are considered recreational.

Commercial Dealer

A seafood dealer is defined as any person or entity other than the final consumer who purchases, ships, consigns, transfers, transports, barter, accepts (maintains) or packs any marine fishery products received from marine resource harvesters or marine aquaculturists. Any marine fishery products landed in any state must be reported by a dealer or a marine resource harvester acting as dealer in that state. Any marine resource harvester or aquaculturist who sells, consigns, transfers, or barter marine fishery products to anyone other than a dealer would himself be acting as a dealer and would therefore be responsible for reporting as a dealer. This definition is provided for purposes of statistical gathering only.

Confidential Information

Information identifiable with any person or entity and prohibited by law from being disclosed to the public. It is data used as a basis for reasoning, discussion or calculation that a person may submit, either voluntarily or as required by Federal or State statute.

<u>Docks</u>	Structure built out over water and supported by pillars/anchors with long-term docking facilities for boats.
<u>Entanglements</u>	A condition in which any part of a protected species is tangled, wrapped and snared, hooked, or otherwise attached to fishing gear.
<u>Fisheries-Dependent</u>	Information collected directly from the commercial, for-hire, and recreational fisheries.
<u>Fisheries-Independent</u>	Information gathered independent of the fisheries through direct or indirect sampling of the stocks.
<u>Fishing Guide</u>	A person hired by a recreational fisherman to aid in fishing.
<u>Fishing Trip</u>	A period of time over which fishing occurs. The time spent fishing includes configuring, deploying, and retrieving gear, clearing animals from the gear, and storing, releasing or discarding catch. When watercraft are used, a fishing trip also includes the time spent traveling to and from fishing areas or locales and ends when the vessel offloads product at sea or returns to the shore. When fishing from shore or man-made structures, a fishing trip may include travel between different fishing sites within a 24-hour period.
<u>Commercial Trip</u>	Any trip where the retained catch is or would be sold or bartered. This includes trips with effort but no catch.
<u>For-Hire Trip</u>	Any shore or vessel trip whose participants are engaged in a marine resources recreational activity that is contracted for a fee.
<u>Recreational Trip</u>	Any trip for the purpose of recreation from which none of the catch is sold or bartered. This includes trips with effort but no catch.
<u>Split Trip</u>	A split trip is any angler trip in which a portion of the landings are sold commercially and a portion of the landings are retained for personal use.

<u>Recreational Trip Duration</u>	A day of fishing measured in hours fished for the shore mode and dock to dock duration for the private/rental boat mode.
<u>For-Hire Trip Duration</u>	Dock to dock duration measured in hours.
<u>Gear</u>	Anything used to catch marine resources (See Table 2 and Appendix A.3 for specific definitions)
<u>Gear Configuration</u>	Materials, construction, measure (i.e., mesh size, length of gear), and deployment of gear.
<u>Guideboat</u>	A boat carrying a fishing guide and recreational fishermen engaged in fishing. A guideboat is considered a subset of charterboats for survey purposes.
<u>Guided Beach Trip</u>	Any shore-based trip where a guide is hired or provided.
<u>Guided Fishing Trip</u>	A fishing trip on which a fishing guide is hired to provide services directly related to fishing activities.
<u>Headboat</u>	<p><i>Trip Def.</i> - Any trip of a vessel-for-hire engaged in recreational fishing (VHERF) that is hired on a per person basis. For survey purposes, and possible alternative definitions, information should be gathered on: a) number of anglers (refers to all marine recreational resource users); b) size of boat; and c) where fishing occurred.</p> <p><i>Boat Def.</i> - A headboat is any vessel-for-hire engaged in recreational fishing (VHERF) that typically is hired on a per person basis.</p>
<u>Intercept Survey</u>	On-site interviews which gather data from fishermen during or upon completion of their fishing trip at access sites.
<u>ITIS</u>	Integrated Taxonomic Information System. A taxonomic database for terrestrial and aquatic plants and animals. The product of a partnership of federal agencies collaborating with systemists in the federal, state and private sectors to provide scientifically credible taxonomic information.

<u>Jetties</u>	A kind of wall, usually made of rocks, built into the water to restrain currents or protect a harbor.
<u>Metadata</u>	Metadata are corollary or descriptive information, both numeric and non-numeric, which may qualify or explain primary data.
<u>Mode of Fishing</u>	The method by which a recreational fishing trip is taken, e.g. private/rental boat, shore, or for-hire.
<u>Multi-Trip Fisheries</u>	Multiple trip fisheries are characterized by a large number of relatively short duration trips employing the same type of gear, (e.g. lobster pots), and resulting in catch of the same species (e.g. lobster), or relatively few species.
<u>Non-Consumptive Use</u>	Any activity related to marine resources where no take of marine resources is attempted. Examples include photographing wildlife in natural or managed areas, SCUBA diving to view jewfish, whale watching, etc.
<u>Observer</u>	A trained agent (employee, contractor, grantee, etc.) of any FIN partner acting as an unbiased data collector observing fishing operations on fishing vessels at sea.
<u>Other Fishing Modes</u>	Any other non-boat fishing.
<u>Piers</u>	Structure built out over water and supported by pillars without long-term docking facilities for boats.
<u>Port Agent/Sampler</u>	A trained agent (employee, contractor, grantee, etc.) of any FIN partner acting as an unbiased data collector, collecting data after the completion of a fishing trip.
<u>Post-Stratification</u>	Summarization of data into strata different from strata design used during data collection.
<u>Price</u>	The dollar amount per landed unit (e.g. pounds, bushels) of a given species (or species landing condition and market category).
<u>Private Access Sites</u>	Privately owned riparian land with dock/shoreline,

waterfront residential developments, or marinas inaccessible to intercept sampling.

Private Boat

Trip Definition - Any boat trip for which no fee is paid for use of the boat.

Boat Definition - Any boat for which no fee is paid for use of the boat.

Protected Species

Any organism listed under the Marine Mammal Protection Act, Endangered Species Act, or the Migratory Bird Treaty or any state protected species legislation. The term protected species can include protected finfish species (e.g., Atlantic salmon, shortnose sturgeon), invertebrates (e.g., Queen conch), sea birds, and plants (e.g., sea oats).

Protected Species Interactions

Any interaction with a fishery which is incidental to such activity and results in the harassment, harm, or death of the species.

Rental Boat

Trip Definition - A trip on a boat that is rented or leased. No captain or crew is hired.

Boat Definition - A boat that is rented or leased. No captain or crew is hired.

Strandings

A marine mammal or sea turtle where: 1) the specimen is dead and/or moribund on the beach or shore or in a coastal waterway, or the Exclusive Economic Zone (EEZ) waters, or 2) the specimen is alive and is on the beach or shore and is unable to return to the water under its own power, or 3) the specimen is in the EEZ or a coastal waterway where the water is so shallow and/or inhospitable that the specimen is unable to return to its natural habitat under its own power.

Stratification

The process of dividing a population into two or more nonoverlapping comprehensive subpopulations, called strata, for the purpose of conducting independent surveys of these subpopulations.

Stratum

An identifiable sub-population of a population that is being sampled.

Unique Identifier for Commercial Fisheries

The unique identifier for commercial fisheries trip data is the trip start, the vessel identifier, and trip number when a vessel is involved; the trip start, the individual identifier, and the trip number when a vessel is not involved. Reporting of the unique identifier is required of both commercial fishermen and dealer on all submitted reports.

Unique Identifier for Recreational Fisheries

The unique identifier for recreational trip data is the date of return, the sampler number, the record number, and the individual.

Value

The total landed dollar amount of a given species (or species landing condition and market category). Example: 100 lbs of lobster at a PRICE of \$3.50 per pound will have a VALUE of \$350.

Vessel Directory Frame

A list of known vessels operating in a particular fishery which can be used to sample that fishery.

Waterbodies

Bodies of waters used for defining areas fished and identified by standard codes (See Table A.10).

Inland

Waterbodies less than zero miles from the shoreline - waterbodies found inside the boundaries for territorial waters.

Territorial waters

Inshore - 0-3 miles on Atlantic, Louisiana, Mississippi, Alabama, and U.S. Virgin Islands coast, 0-9 nautical miles on Florida and Texas Gulf, and Puerto Rico coast from the shoreline.

EEZ

Exclusive Economic Zone - Offshore waters 3-200 miles on Atlantic, Louisiana, Mississippi, Alabama, and U.S. Virgin Islands coast, 9-200 miles on Florida and Texas Gulf, and Puerto Rico coast from the shoreline.

International

Offshore waters greater than 200 miles from the shore line

V. CATCH AND EFFORT DATA COLLECTION PROGRAMS

A. Commercial Catch and Effort Data Collection Program

The commercial data collection program will be a mandatory, trip-based system with all fishermen and dealers required to report standardized data elements. All minimum standard data elements listed in Table 1 must be collected by all partners conducting commercial data collection programs. The methodology of data collection (trip ticket versus sampling) should be included with the data prior to downloading to the data management system. Catch and effort data should be collected at the trip-level with resolution for each gear and area combination. The minimum set of data elements will be collected via a trip ticket. These elements are designated by a AT@ in Table 1. The other elements may be collected via the trip ticket; however, where it is not feasible to collect this detailed information, the data elements can be collected by other collection methods. For example, landings and effort data should be recorded separately each time the fisherman changes gear or fishing area within a trip. Under this program, the dealer is required to submit a completed trip ticket. However, there has to be considerable interaction between dealers and fishermen to ensure accuracy and completeness of the data. It is important that both fishermen and dealers be responsible for accurate data collection and can be held accountable for not reporting or inaccurate reporting.

The ComFIN will utilize precoded reporting forms to the best of each program partners ability. Any marine fishery products landed in any state must be reported by a dealer or a marine resource harvester acting as a dealer in that state. Any marine resource harvester who sells, consigns, transfers, or barter marine fishery products to anyone other than a dealer would himself be acting as a dealer and would therefore be responsible for reporting as a dealer. Partners should attempt to follow the standard ComFIN forms to provide for consistency among agencies. These forms allow for reporting of minimum standard data elements in a header format, but allow flexibility in the collection and form design for data elements not required by the ComFIN. The unique identifier for trip data will be the trip ticket number. Partners need to develop methods for quantifying the amount of trips where there was no catch. Dealers are required to submit monthly negative (no activity) reports in the states where they are licensed. Each ComFIN partner should develop a process to verify the accuracy of submitted information using one or a combination of methods. All catch and effort surveys for commercial fisheries will follow the ComFIN quality control and assurance documentation.

Table 1. Minimum data elements for the ComFIN trip ticket program (T = information collected on a trip ticket, B = information collected on trip ticket or via survey).

CATCH		
DATA ELEMENT	DESCRIPTION	COLLECTION METHOD
Trip date	The date (dd/mm/yyyy) that the trip started. A trip is defined as the time the vessel left the dock to the point that the product was transferred	T
Trip number	Sequential number representing the number of a trip taken in a single day by either a vessel or individual. The trip number will default to one (1) when only a single trip is conducted	T
Form type/version #	Version identification number for the ComFIN trip ticket. Criteria will be developed to determine when a new version of the form will be identified	T
Form/Trip ticket number	Unique identifier for a specific trip. This will be printed on the actual trip ticket form. The numbers will be consecutive and the first two digits will be unique state code	T
Vessel ID	Coast Guard or state registration number (will be linked to unique vessel identifier. These identifiers must be trackable through time and space.)	T
Participant ID	Fisherman license# (will be linked to unique participant identifier [SSN, fed tax id#, etc.]. These identifiers must be trackable through time and space)	T
Species	Code for the species of fish caught. Each species is to be identified separately. Use of market or generalized categories should be avoided within species code fields or variables. See appendix xx (to be adopted/developed)	T
Quantity landed	The amount of each marine species that is landed and/or sold.	T
Landing condition	Code for condition landed (whole, gutted, headed, etc.). See appendix xx (to be adopted/developed)	T
Quantity units	Code for the units used for measuring landings (pounds, kilograms, etc.). See appendix xx (to be adopted/developed)	T
Market size range	Actual size range of species landed by market category	T
Ex-vessel value or Ex-vessel price	The total dollar value for each species that is landed or sold by market category The price per unit weight paid for each species that is landed or sold by market category	T
County (minimum) or port (optional) landed	Code that will provide the location within a state where the product was transferred. See appendix xx (to be adopted/developed).	T
State landed	Code that will identify the state where the product was landed or unloaded. See appendix xx (to be adopted/developed)	T
Dealer ID	This element is an identifier for the dealer at the point of each transaction. In the case of multiple dealers, the landings would be reported separately for each dealer.	T
Unloading date	Date (dd/mm/yyyy) the landed species was transferred to a dealer.	T
Market category	Code that will specify any market or grade categories that affect price, usually size related.	T
Primary Gear	Code which describes the primary type of gear used to catch the landed species.	T

EFFORT		
DATA ELEMENT	DESCRIPTION	COLLECTION METHOD
Trip date	The date (dd/mm/yyyy) that the trip started. A trip is defined as the time the vessel left the dock to the point that the product was transferred	T
Trip number	Sequential number representing the number of a trip taken in a single day by either a vessel or individual. The trip number will default to one (1) when only a single trip is conducted	T
Form type/version #	Version identification number for the ComFIN trip ticket. Criteria will be developed to determine when a new version of the form will be identified	T
Form/Trip ticket number	Unique identifier for a specific trip. This will be printed on the actual trip ticket form. The numbers will be consecutive and the first two digits will be unique state code	T
Gear(s)	Code(s) which identify(s) all the gears used to catch the landed species.	B
Area fished	Code that provides all locations where fishing occurred, using NMFS/state water body codes.	B
Disposition	Code which describes the fate of the catch (i.e. discards, bait, personal consumption, etc). Disposition of discards should be recorded (i.e. regulatory vs. other discards, dead or alive, etc.)	B
Quantity of gear	The amount of gear employed	B
Days at sea	Days from the start of the trip to the return to the dock	B
Number of crew	Number of crew on each trip, including captain.	B
Fishing time	Total amount of time (hrs) that gear was in the water and/or amount of search time for each trip	B
Number of sets	Total number of sets or tows of gear during a trip	B

Table 2. Standard measurements of quantity of gear, fishing time, and number of sets for specific gear types.

TYPE OF GEAR	QUANTITY	FISHING TIME	NUMBER OF SETS	TIME SET/RETRIEVED
Traps and Pots	Number traps/pots pulled	Mean soak time	N/A	Set: when first pot goes over Retrieved: from the moment buoy line is retrieved
Trawls	Number of nets towed	Total tow time	Number of tows	Set: when winch stops Retrieve: when winch starts
Gill Nets Entanglement	Total net length	Soak time	Number of hauls	Set: when first buoy goes over Retrieve: when last buoy comes on board
Longlines	Number gangions/hooks	Soak time	Number of hauls	Set: start of set Retrieve: retrieval of set
Dredges	Number pulled	Total tow time	Number of tows	Set: when winch stops Retrieve: when winch starts
Nets	Number of pieces of apparatus	Soak time	N/A	Set: when first net goes over Retrieve: from moment buoy line is retrieved
Hook and Line	Number of lines (Number of hooks is secondary)	Soak time (w/o transition time)	N/A	Set: when first lines are lowered Retrieve: when last lines are pulled up
Purse Seines	Length of floatline	w/ planes: Search time w/o planes: Soak time	Number of sets	w/ planes: Set: plane up, sonar on Retrieve: plane down, sonar off w/o planes: Set: when nets are put in water Retrieve: when nets are removed from water
Hand Gear	Number of lines (Number of hooks is secondary)	Soak time	N/A	Set: when gear is put into water Retrieve: when gear is removed from water
Spears/gigs	Number	Search time	N/A	N/A
Haul seines	Length of net	Soak time	Number of sets	Set: when net is put in water Retrieve: when net is removed from water
Cast nets	Number of nets	Active hours fishing	N/A	N/A
Rakes, hoes and tongs	Number of pieces of apparatus	Active hours fishing	N/A	N/A
By hand	N/A	Active hours fishing	N/A	N/A

Table 3. Prioritized list of validation methods to be used by FIN partners to verify the accuracy of commercial catch and effort information submitted through the ComFIN.

VALIDATION METHOD	DEFINITION / CRITERIA	COMMENTS
Fishery-Dependent and -Independent Surveys	<p>Any fishery-dependent survey detailed in the FIN Program Design Document, or any fishery-independent survey. A four-prong approach using the following methods is preferred:</p> <ol style="list-style-type: none"> 1. Port Sampling Programs 2. At-Sea Observer Programs 3. Law Enforcement Presence <ul style="list-style-type: none"> < overflights < boarding and summons reports < vessel tracking system < audits and inspections < violations hotlines < customs data < consistency of penalties between states 4. Distribution of periodic data summaries to fishermen for self-verification 	<p>Presence at the docks or on vessels is the best method of verification and should be given highest priority.</p> <p>Provides direct liaison between the fishermen and fisheries managers.</p> <p>For trip and discard verification.</p> <p>Through direct presence of law enforcement personnel at the docks or through the listed methods.</p> <p>Periodic distribution of standard data summaries to fishermen and dealers provided through the FIN data management system.</p>
VALIDATION METHOD	DEFINITION / CRITERIA	COMMENTS
Mandatory Random Fish-House/Fishermen Audits and Inspections	<p>Audits and inspections of records either on-site or at an agency of records kept by fishermen and dealers of productions, purchases, and sales of fishery products in comparison to those data actually submitted to and received by the reporting agency.</p> <ul style="list-style-type: none"> < Record content, submission frequency, and retention period specified by federal 	Should be used only on an as-needed basis.

	<ul style="list-style-type: none"> < and/or state statutes or other regulations. < Statistically valid random selection of a portion of the fishermen and/or dealers involved in fisheries or a particular stratum of a fishery to assess compliance rates with reporting rules and accuracy of reporting data. < Scope of audits may require additional information to that reported in order to verify accuracy of reported data. Auditors must be granted official access to these additional sources of information as needed to perform such audits. 	
Other Methods	<ul style="list-style-type: none"> < Random additional logbooks < Independent reports from fishermen and dealers of certain data elements < Fishermen permit qualification < Quota monitoring activities < Any combination of the above 	Should be used only on an as-needed basis.

B. Recreational Catch and Effort Data Collection Program

Sampling Program for Private/Rental and Shore Modes of Fishing

Private and rental boats will be maintained as one strata, however, surveys for this mode should be designed to allow post-stratification of rental boats. All shore fishing should be sampled as one strata, with collection of information at the individual mode level to allow for post-stratification for piers, docks, other man-made shore, and natural shore modes of fishing. All minimum standard data elements listed in Table 4 must be collected by all partners conducting recreational data collection programs, unless otherwise noted. All catch and effort data should be collected at the trip-level with possible resolution for each area fished. Effort data for the private/rental and shore modes of fishing should be collected through a telephone survey with random sampling of households. Specific data elements to be collected through the telephone survey are listed in Table 4. Catch data for the private/rental and shore modes of fishing should be collected through an access-site intercept survey. States should increase their involvement in conducting this survey. Specific data elements to be collected through the access-site intercept survey are listed in Table 4. The unique identifier for trip data will be the date of return, sampler number, record number, and individual identifier. All catch and effort surveys for recreational fisheries will follow the RecFIN(SE) quality control and quality assurance documentation. The RecFIN(SE) will conduct research and evaluation studies to expand and improve the estimates of recreational catch and effort collected through the telephone and access-site intercept surveys. All partners should update the list of public rental and shore access sites and should expand these lists to include private access sites. The RecFIN(SE) will evaluate the need for identification of all recreational fishing vessels including private/rental vessels and develop methods for identification, if needed.

Sampling Program for For-Hire Modes of Fishing

All for-hire vessel surveys should be designed to allow identification and representative sampling of charter, head, and guide boat trips for the purposes of post-stratification to ensure standardized comparisons among states. All minimum standard data elements listed in Table 4 must be collected by all program partners conducting recreational data collection programs, unless otherwise noted. All catch and effort data should be collected at the trip level with possible resolution for each area fished. The unique identifier for trip data will be the date of return, sampler number, record number, and individual identifier. All catch and effort surveys for for-hire fisheries will follow the RecFIN(SE) quality control and quality assurance documentation. The RecFIN(SE) is currently conducting an evaluation study between three data collection methods to determine which method is the most accurate and reliable for collecting for-hire catch and effort data: 1) a telephone survey using the for-hire vessel sampling frames to collect effort data; 2) the Marine Recreational Fisheries Statistics Survey (MRFSS) effort estimates, and 3) logbook panel survey reporting to collect both catch and effort data; . The site intercept survey for methods number 1 and 2 will be conducted using the current MRFSS methods. Upon completion of this study, the best method for sampling the for-hire fisheries will be implemented.

Table 4. Minimum data elements for recreational data collection. (I = information collected through the intercept survey, T = information collected through the telephone survey, B = information collected through both the intercept and telephone surveys).

DATA ELEMENT	DESCRIPTION / CRITERIA	WHERE COLLECTED
Date of Return	Date the trip ended.	B
Sampler Number	Unique sample number for intercept surveys. Needed for quality control and to provide a unique code to each trip.	B
Record Number	Unique sample code for each angler trip within a day and interviewing site.	B
Individual Identifier	An identifier unique to an individual (i.e. license number), which is trackable through time and space. This data element should be collected only on those trips where the angler intends to sell a portion of the landings.	B
Reporting Form Series Number	<i>Individual number for each reporting form, to be assigned by the collecting agency (i.e. trip ticket number). This data element may be blank in the dual reporting system.</i>	B
Form Type/Version Number	<i>Version identification number.</i>	B
Species	The genus and species for each species of marine resources landed, sold, discarded, etc. Each species is to be identified separately.	I
Quantity Kept	The amount, in numbers, of each marine species kept (consumed, used as bait, filleted, etc.).	I
Disposition	Fate of the catch (i.e. discards, bait, industrial use, personal consumption, marine mammal interactions, etc.). Disposition of discards should be recorded (i.e. regulatory versus other discards, dead or alive).	I
Size Category	General indication of the life stage of species caught (i.e. snapper bluefish versus adult bluefish).	B
State Landed	The state where the angler returned from a fishing trip.	B
County Landed	The county where the angler returned from a fishing trip.	B
Gear	The type of gear used to catch the landed species.	I
Target Species or Species Group (Primary)	The primary species or species group that the trip was targeted to catch.	B
Fishing Mode	The fishing access mode (i.e. private/rental boat, shore mode, for-hire mode).	B
Primary Area of Catch	The location where the majority of the catch was made. The distance from shore where the catch occurred [inshore, inland (0-3 miles on Atlantic coast, 0-9 miles on Gulf coast), EEZ (3-200 miles on Atlantic coast, 9-200 miles on Gulf coast), >200 miles] is embedded in this code.	I
State of Residence	The permanent residence (<i>state</i>) of the angler.	B
County of Residence	The permanent residence (county) of the angler.	B
Number of Trips (Avidity)	The number of trips by mode of fishing.	B
Fishing Party Size	The number of fishermen in the party.	I

Trip Duration	The time the trip took, from shore to shore (boat) or time spent onshore fishing.	I
DATA ELEMENT	DESCRIPTION / CRITERIA	WHERE COLLECTED
Fishing Time	The amount of time (hours) that the gear was in the water fishing.	I
Lengths/Weights	Lengths, and if possible, weights of each species for the various components of the catch.	I
Units of Measurement	Units of girth length (i.e., feet, meters, etc.).	I
Length Type	Type of length measurement (standard, total, etc).	I
Additional trip level data needed from recreational fisheries for stock assessments on a periodic and species-specific basis. These data elements are not required as minimum standard data elements under the FIN.		
Quantity of Gear	The amount of gear employed on trips (i.e. number of lines, number of hooks, etc.).	I
Configuration of Gear	Characteristics of the individual gear being employed (i.e. line strength, hook type, hook size, etc.).	I
Fishing Power	Data elements such as boat length, passenger capacity/party size, technological capabilities (i.e. LORAN, GPS, etc.) and speed. These data elements may affect catch rates and may be needed for stratification/estimation.	I
Bait Type / Hook Type	The type of hook and bait used, which can affect release mortality.	I
Recreational fisheries data needed for certain ongoing studies, but not required under the RecFIN(SE) recreational data collection program.		
Residence (zip code)	The residence of the angler in all modes, as well as the residence of charter and head boat owner/operators.	B
Party link	Used to link all interviews within a party.	I
Number of Contributors to the Catch	Used to calculate catch distributions.	I
Vessel Identifier	Unique vessel identifier (Coast Guard or state registration number); needed for some modes and methods, especially charter and head boats, for effort estimation.	B
Primary Area Fished	The location where the majority of fishing (effort) took place.	I
Site Landed	This data element provides the fishing access point within a state where an angler fished or returned from a fishing trip.	I
Secondary Target Species or Species Group	The secondary species or species group that the trip was targeted to catch.	I
Area of Catch by Species Group	The location where the majority of catch took place.	Neither, on a routine basis only.

Table 5. FIN recreational research and evaluation activities to expand and improve recreational data collection in the Southeast Region. Research activities and pilot/evaluation studies are listed in order of priority.

RESEARCH ACTIVITIES	OVERVIEW OF ACTIVITIES
Implement appropriate survey methodologies to monitor for-hire fishery	<p>Identify and evaluate current methodologies to survey charter and head boat fisheries</p> <p>Identify and test alternative methodologies, and modify approaches as appropriate</p> <p>Implement the best methodology for sampling the for-hire fishery</p>
Establish a method to increase the precision of estimates for priority species	<p>Develop a list of prioritized species, by sub-region.</p> <p>Determine target precision levels for priority species, to included at least all species covered by all management plans.</p> <p>Evaluate methods to achieve desired target precision levels through enhancement of the MRFSS or via special studies</p>
Develop integrated licensing/permit database that is suitable to use as a sampling frame	<p>Outline licensing structure of each partner</p> <p>Develop criteria to ensure that licenses can be used as a regional sampling frame</p> <p>Establish or modify licenses that include the identified criteria</p> <p>Conduct a survey comparing the license frame versus the MRFSS methodology in a region</p>
Determine catch rates and species composition from private access groups	<p>Determine the distribution of private access points by state</p> <p>Evaluate the North Carolina study and other pertinent studies regarding private access groups</p> <p>Develop an acceptable methodology for determining catch rates and species composition from private access groups</p>
Determine catch rates and species composition from night fishing	<p>Evaluate existing information and/or conduct special studies to determine the distribution and magnitude of night fishing by state</p> <p>Develop an acceptable methodology for determining catch rates and species composition for night fishing</p>
RESEARCH ACTIVITIES	OVERVIEW OF ACTIVITIES

<p>Collect appropriate information from fishing tournaments, and integrate with other MRF data</p>	<p>Identify ongoing tournaments</p> <p>Identify and recommend data requirements and consistent methodologies for tournament sampling</p>
<p>Determine catch and effort of shellfish and finfish harvested using non-hook-and-line methods</p>	<p>Identify non-hook-and-line recreational fisheries and related sampling programs</p> <p>Develop and/or modify methods for monitoring non-hook-and-line fisheries</p>
<p>Develop funding initiatives to establish and enhance MRF surveys in the Southeast Region</p>	<p>Support the establishment of long-term, comprehensive MRF surveys in Puerto Rico and the Virgin Islands</p>
<p>Integrate MRF data collection efforts to meet RecFIN(SE) requirements</p>	<p>Evaluate the compatibility of information resulting from the Texas survey with the information resulting from other MRF data collection programs</p>
<p>Implement alternative methods and/or modify existing methods for intercept survey sample selection procedures</p>	<p>Identify and evaluate potential improvements to intercept survey site selection procedures</p> <p>Select the preferred approach to improving the intercept survey site selection procedures</p> <p>Conduct and evaluate a pilot study comparing the preferred approach with current MRFSS methods</p>
<p>Determine the extent of non-consumptive recreational activities</p>	<p>Identify non-consumptive recreational activities and related sampling programs</p> <p>Develop and/or modify methods for monitoring non-consumptive recreational activities</p>

VI. BIOLOGICAL SAMPLING PROGRAM

The FIN will use and expand existing systems to collect biological data on commercial and recreational fisheries, while utilizing regional panels to determine assessment needs of both state and federal partners. The FIN will utilize a formalized process for the development of species priorities and target sampling levels. The objective of the process is to determine the species that will be targeted for size frequency and bioprofile sampling. The procedures are:

- C The Data Collection Plan Work Group will coordinate with their agency to identify species of priority (that will need stock assessments), the type and amount of data needed, and the geographic area over which the data need to be collected. The group will meet prior to the FIN meeting and develop a draft data collection plan. The plan will contain state, interstate, and federal priority species, type and amount of data needed, and the geographic distribution of the proposed data collection. This plan will be presented to the Committee at the annual FIN meeting for review and approval.

- C This plan will provide guidance to the states, NMFS, and FWS for the development of funding mechanisms that are implemented to provide funding support for collecting the data.

- C Each year, during the annual FIN meeting, the Committee will review progress regarding current year's data collection efforts as well as conduct an evaluation of the prior year's effort, including evaluation of adherence to prior year's plan.

All commercial and recreational data collection programs should collect the standard data elements listed in Table 6, based on the priorities and target levels determined by the Committees. Base level biological data for recreational species should be collected through the site intercept survey and additional samples should be coordinated with the survey. Base level biological data for commercial species should be collected through the port sampling program.

Table 6. Standard data elements of biological sampling.

DATA ELEMENT	DESCRIPTION	FORMAT
Unique Identifier	Some Combination of Data Elements That Allows for the Unique Identification of this Action. Use Trip Ticket Number If Available. For the recreational component, it will be site #, data, interviewer id.	see Table A.1
Record Number	Annual Sequential Interview Number by port sampler/recreational interviewer	3 digit numeric
Record Type	Type of data collection activity that data was captured under: Recreational: MRFSS; Texas survey; Biological sampling add-on Commercial At-sea observer	2 digit numeric
Sample Date	Month / Day / Year	see Table A.1
Sampler	Port Agent Code/Recreational interviewer ID	4 digit numeric
State (Landing)	State Code (FIPS)	see Table A.8
County (Landing)	County Code (FIPS)	see Table A.8
Sampling Location	Dealer Number/MRFSS site number	see Table A.2
Gear Code	Gear Code	see Table A.3
Area Fished	Area Code (with detail to lat/long, if possible)	see Table A.10
Depth	Depth of water (in feet) where fishing occurred	4 digit numeric
Landing Condition	Condition Landed (Whole, Guttled, Headed, Etc.). For recreational, this would be a disposition code	see Table A.6
Market Size Range	Actual Size Range	4 digit numeric
Market Category	Code that will specify any market or grade categories that affect price, usually size related.	see Table A.5
State (Sampled)	State Code (FIPS)	see Table A.8
County (Sampled)	County Code (FIPS)	see Table A.8
Total sample weight	Weight of sample	4 digit numeric
Species Code	ITIS species code	see Table A.7
Mode	Mode of fish: charter boat, head boat, private/rental, shore	2 digit character
Specimen Method	Method used to collect the specimen	2 digit character
Number Measured	Number of Fish Measured	3 digit numeric
Length1	First length of individual fish (in millimeters)	4 digit numeric
Length1 Type	Type of measurement taken for first length (total length, forked length, etc)	2 digit alphanumeric
Length2	Second length of individual fish (in millimeters)	4 digit numeric
Length2 Type	Type of measurement taken for second length (total length, forked length, etc)	2 digit alphanumeric
Length3	Third length of individual fish (in millimeters)	4 digit numeric

DATA ELEMENT	DESCRIPTION	FORMAT
Weight	Weight of individual fish	4 digit numeric
Weight Units	Units weight was collected in (pounds, kilograms, etc.)	2 digit alphanumeric
Sex	Sex Code	2 digit alphanumeric
Age Tag Number1	First Age Structure Identifier, sequential # by port sampler/rec interview	4 digit numeric
Age Tag Number2	Second Age Structure Identifier, sequential # by port sampler/rec interview	4 digit numeric
Gonad Tag Number	Gonad Identifier, sequential # by port sampler/rec interviewer	4 digit numeric
Stomach Tag Number	Stomach identifier, sequential # by port sampler/rec interviewer	4 digit numeric
Tissue Tag Number	Tissue Identifier, sequential # by port sampler/rec interviewer	4 digit numeric
Tissue Type	Type of Tissue collected - muscle, eye parts, etc	see Table A.2

VII. SOCIAL AND ECONOMIC DATA COLLECTION PROGRAM

A. Commercial Social and Economic Data Collection Activities

The FIN will collect social and economic data on commercial harvesters using three separate surveys. The annual fixed cost survey will be directed at the owner/operator. The data elements are listed in Table 7. The trip cost survey will evaluate the variable costs associated with the most recent commercial fishing trip of a particular vessel. The data elements are listed in Table 8. This survey will be directed at the captain of the vessel. And the annual owner/captain/crew survey will be used to gather sociological information. The data elements are listed in Table 9. These surveys will be conducted on a voluntary basis. The ACCSP is conducting an evaluation study to determine the appropriate survey methodology (i.e., mode of collection, statistical design) for the three commercial harvester surveys listed above. The FIN and the Social/Economic Work Group will be involved in these evaluations and the results will be utilized by the FIN. The FIN noted that special studies to collect more in-depth social and economic data might be needed in addition to the long-term data collection efforts. All social and economic data will be confidential, with access granted only to authorized users as identified in the FIN confidentiality protocols. The survey instruments for collection the commercial social and economic data are in Appendix B.

Table 7. Social and economic data element to be collected on commercial harvesters through the FIN Annual Fixed Cost Survey on an annual basis.

DATA ELEMENT	DESCRIPTION	FORMAT
Fixed Costs		
Vessel Identification	Unique vessel identifier (i.e. Coast Guard, state registration number, etc.) These identifiers must be trackable through time and space.	11 character
Annual insurance costs	Hull, health, protection and indemnity, mortgage, etc.	6 digit numeric plus 2 decimal places
Annual haulout/overhaul	Total cost for haulout/overhaul for the vessel	6 digit numeric plus 2 decimal places
Dockage	Total cost for vessel dockage, home port and transient dockage	6 digit numeric plus 2 decimal places
Professional fees	Accounting, legal, bookkeeping, tax filing, etc.	6 digit numeric plus 2 decimal places
Loan payments	Principal and interest	6 digit numeric plus 2 decimal places
New gear acquired list, cost	Total cost of new gear acquired (total cost of replacement gear and total cost of additional gear)	6 digit numeric plus 2 decimal places
Repairs	Total cost of repairs that were conducted in the previous year	6 digit numeric plus 2 decimal places
Maintenance	Total cost of maintenance that was conducted in the previous year	6 digit numeric plus 2 decimal places
Crew salary	Total crew cost for those crew not paid on a trip basis	6 digit numeric plus 2 decimal places
Crew benefits	Total cost for crew benefits	6 digit numeric plus 2 decimal places
Taxes	Income, property, etc.	6 digit numeric plus 2 decimal places
Vessel improvement cost	Total cost of vessel	6 digit numeric plus 2 decimal places
Vessel permit fees	Total cost of all permits held by the vessel	6 digit numeric plus 2 decimal places
Auto/trailer	Total payments on autos and trailers used by the vessel (Check with CESS to clarify)	6 digit numeric plus 2 decimal places
Office	Total cost of office space used by the vessel crew and support staff	6 digit numeric plus 2 decimal places
Association(s) fees	Total fees and dues paid to commercial fishing associations	6 digit numeric plus 2 decimal places
Onshore permits/export/import/license/etc. fees	Total fees import/export permits/licenses	6 digit numeric plus 2 decimal places
		6 digit numeric plus 2 decimal

Cold storage rental	Total cost for cold storage rental	places
DATA ELEMENT	DESCRIPTION	FORMAT
Onshore (non-owned) processing/holding costs, leases	Total cost for leases of rental of onshore processing/holding facilities	6 digit numeric plus 2 decimal places
Advertising	Total cost for advertising of for-hire vessels and supporting activities	6 digit numeric plus 2 decimal places
Lease or mortgage of onshore facilities	Total cost for lease or mortgage payments for onshore facilities	6 digit numeric plus 2 decimal places
Onshore employee salaries and benefits	Total cost for onshore employees salaries and benefits	6 digit numeric plus 2 decimal places
Sources of financing	List the sources of financing for the vessel and onshore facilities	25 characters
Additional Annual Information		
Value of Catch in Storage	Total value of catch that is in storage	6 digit numeric plus 2 decimal places
Ownership type	Sole proprietor, partnership, owner-operator, etc.	20 characters
Relationship to any partner (s)	e.g., household member, relative, friend, neighbor, etc.	20 characters
Engine brand(s) (Propulsion Equipment) Fuel type	Engine Manufacturer	20 characters
Engine Age(s)	Age of engine in years	4 digit numeric
Engine fuel type(s)	Type of fuel used to run engine	15 characters
Harvest gear	Number and description of gear that are used in the harvest of marine resources from the vessel	LOOK AT CATCH EFFORT
Deck gear	Number and description of gear that is permanently affixed to the vessel	LOOK AT CATCH EFFORT
Wheelhouse electronics	Number and description of all electronics that are located in the wheelhouse of the vessel	25 digit alpha numeric
Gear-mounted electronics	Number and description of all electronics that are mounted to the harvest gear.	25 digit alpha numeric
On-board processing/refrigeration	Equipment list, descriptions, capacities of all equipment on board that are used for processing/refrigeration	25 digit alpha numeric
Vessel purchase year	Purchase or acquisition year	4 digit numeric
Vessel price	Price of vessel at time of purchase or acquisition	8 digit numeric plus 2 decimal places
Estimated market value of vessel	Estimated market value of the vessel excluding all harvest gear	8 digit numeric plus 2 decimal places
Estimated market value of gear	Estimated market value of all harvest gear that is used by the vessel	6 digit numeric plus 2 decimal places
Onshore facilities (list, descriptors, capacities)	List the onshore facilities that are leased/rented/owned by the vessel	25 alpha numeric
Number of other vessels that also use the		

same onshore facilities	Other vessels that use the same onshore facilities	3 digit numeric
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Table 8. Social and economic data to be collected on commercial harvester through the FIN Monthly Trip Report.

DATA ELEMENT	DESCRIPTION	FORMAT
Variable costs (Trip Costs)		
Vessel Identification	Unique vessel identifier (i.e. Coast Guard, state registration number, etc.) These identifiers must be trackable through time and space.	11 character
Trip Identification	Trip identification that is derived from the vessel/dealer trip report	reference trip ID description
Replacement or repair cost of gear and equipment lost or damaged	Total replacement or repair cost of equipment lost or damaged on this trip	6 digits numerical plus 2 decimal places
Fuel used on this trip - Quantity	Gallons of fuel used on this trip	4 digit numeric
Fuel used on this trip - Cost	Cost for all fuel used on this trip	5 digit numeric plus 2 decimal places
Oil used on this trip - Quantity	Gallons of oil used on this trip	3 digit numeric plus 2 decimal places
Oil used on this trip - Cost	Cost for all oil used on this trip	5 digit numeric plus 2 decimal places
Bait	Description, Quantity, and Cost of all bait used on this trip	
Ice used on this trip - Quantity	Tons of ice used on this trip	3 digits numeric
Ice used on this trip - Cost	Cost for all ice used on this trip	5 digit numeric plus 2 decimal places
Water used on this trip - Quantity	Gallons of water used on this trip	4 digits numeric
Water used on this trip - Cost	Cost for all water used on this trip	5 digit numeric plus 2 decimal places
Total food cost	Total food cost for this trip	5 digit numeric plus 2 decimal places
Trip grading/ handling/ unloading	Total cost of grading/handling/ unloading of catch for this trip	5 digit numeric plus 2 decimal places
On-board processing costs	Total cost for on-board processing of catch for this trip	5 digit numeric plus 2 decimal places
Local transport costs	Total cost of local transporting of catch for this trip	5 digit numeric plus 2 decimal places
Supplies	Total cost of additional supplies not itemized above	5 digit numeric plus 2 decimal places
Labor costs		
Crew share formula	Description of the formula that is used to determine crew share for this trip	25 alpha numeric
Total crew cost	Total monetary amount that was given to the crew for this trip	6 digit numeric plus 2 decimal places

DATA ELEMENT	DESCRIPTION	FORMAT
Total captain cost	Total monetary amount that was given to the captain for this trip	5 digit numeric plus 2 decimal places
Non-monetary compensation estimated value	Estimated value of all non-monetary compensation that was given to the crew for this trip	5 digit numeric plus 2 decimal places
Non-monetary compensation distribution formula	Estimated value of all non-monetary compensation that was given to the captain for this trip	5 digit numeric plus 2 decimal places
Captain and crew bonuses	Total of bonuses that was given to the captain and crew for this trip	5 digit numeric plus 2 decimal places

Table 9. Socio-demographic data elements to be collected on commercial harvester through the FIN Owner/Captain/Crew Survey.

DATA ELEMENT	DESCRIPTION	FORMAT
Vessel Identification	Unique vessel identifier (i.e. Coast Guard, state registration number, etc.) These identifiers must be trackable through time and space.	11 character
Trip Identification	Trip identification that is derived from the vessel/dealer trip report	reference trip ID description
Classify yourself	Owner, Captain, Crew, or Other	15 characters
Household composition	Number and relationship of individuals in the household	
Employment status of adults	e.g., employed, unemployed, retired, student, full-time, part-time, self-employed, any combination	20 characters
Education	Highest level of education that was completed	2 digits
Marital/cohabitational status	Current marital or cohabitational status of respondent	2 digits
Age	Age of the respondent	3 digits numeric
Gender	Gender of the respondent	1 character
Ethnicity	Ethnic background	15 character
Primary language spoken in the household	Primary language spoken by household members	15 characters
English-language skills	English language proficiency	2 character
Religious affiliation	Religion of respondent	15 characters
General health	Current health status	2 character
Percent of annual household income from commercial fishing	Net & gross percent of household income that is generated through commercial fishing or support activities	3 digits numeric
Alternative occupational opportunities that are available to you	Of these opportunities how many years of experience do you have in each	25 character
DATA ELEMENT	DESCRIPTION	FORMAT

Total annual income from commercial fishing	Total household income that is generated through commercial fishing	6 digits numeric plus 2 decimal places
Primary source of income for the previous Spring	List the activity that generated the majority of your income during the previous Spring	25 characters
Primary source of income for the previous Summer	List the activity that generated the majority of your income during the previous Summer	25 characters
Primary source of income for the previous Fall	List the activity that generated the majority of your income during the previous Fall	25 characters
Primary source of income for the previous Winter	List the activity that generated the majority of your income during the previous Winter	25 characters
List your memberships of organizations or associations that are involved in fishery issues	Names of fishery organizations or associations of which respondent is a member	25 characters

B. Recreational Social and Economic Data Collection Activities

Recreational and for-hire social and economic data will be collected through four separate surveys. Social and economic data for finfish recreational and for-hire fisheries will be collected through the addition of data elements to existing telephone and intercept surveys. These additional data elements will be added at three and six year intervals. The data elements are listed in Table 10. The social/economic for shellfish/crustacean and non-consumptive surveys are currently being developed and the FIN and Social/Economic Work Group will be involved in the development of these surveys. All of these surveys will be conducted on a voluntary basis.

Table 10. Social and economic data to be collected through the FIN recreational and for-hire finfish survey to be conducted every three years. *NOTE: All of the surveys are add-ons to the MRFSS and for right now will use MRFSS formats.*

DATA ELEMENT	DESCRIPTION	FORMAT
Data elements to be added every three years (Year 3, 6, 9, etc.)		
Trip-related expenditures	lodging, food, transportation, fees, equipment rental, private/rental boat operating expenses, bait	
Other purchases primarily for marine recreational and for-hire fishing	fishing tackle, boats, other fishing related equipment, other items	
Origin of purchases	The location where purchases were made, by expenditure category	
Hourly wage/income	hourly wage if known - if not annual gross income	
Employment Status	Current employment status (i.e. employed full-time, part-time, unemployed, retired, etc.)	
Age	Age of respondent	
Boat ownership	Ascertain boat ownership and primary use (i.e. fishing)	
Primary trip purpose	Primary purpose of trip (i.e. fishing, vacation, business trip, etc.)	
Trip Length	Length of trip (i.e. day-trip or overnight-trip) and number of days fished on trip	
Additional data elements to be added every other third year (Year 6, 12, etc.)		
Education	Highest level of formal education that was completed	
Ethnicity	Ethnic background	
Gender	gender of the respondent	
Occupation	Job description	
Household composition	Number and relationship of individuals in the house hold	
Motivations for fishing	Reasons for salt water fishing	
Substitute activities	Alternative use of time	
Attitudes toward management	Attitudes about management regulations	
Attitudes toward and knowledge of marine contamination	Attitudes toward and knowledge of contaminated fishing sites	
Self-Definition as Subsistence/Recreational/For-Hire	Whether anglers see themselves as recreational, for-hire, subsistence, or a mixture	
Involvement in commercial fishing	Extent, if any, of angler household involvement in commercial fishing	
Other recreational/for-hire/subsistence activities involving collection of natural resources	Types and use of non-fish marine organisms (e.g. shellfish, crustaceans, kelp) and other natural resources (e.g. berries, fruit, other wild plants, wood for fuel)	
Catch distribution networks	Categories of people with whom the above are shared (e.g. household, other family, neighbors, local charities)	

Satisfaction level	Give your overall satisfaction level with this fishing trip	
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VIII. DISCARDS, RELEASES AND PROTECTED SPECIES INTERACTIONS MONITORING PROGRAM

The FIN is still in the developmental stages regarding a discards and protected species interaction monitoring program. The ComFIN Data Collection Work Group met in August 1997 to discuss this issue and developed some basic guidelines regarding discards, releases and protected species interaction. For the commercial aspects, the group talked about several methods, such as an observer program, fishery-independent sampling, and some type of sampling program which randomly selects vessel to examination of discards, releases and protected species interaction, for collecting this type of information. For the recreational aspects, the group agreed that a minimum standard data elements including quantity released dead, quantity released alive, and disposition of catch should be collected.

It was agreed by the group that the type of method used to collection discards, releases and protected species interaction information is dependent upon the fishery that is being sampled and collection of discards, releases and protected species interaction could be implemented by special studies to address specific issues and may not be a long-term sampling program. The FIN recently compiled a database that outlines the absence/presence of discards and well as the magnitude of discards in the Southeast Region. The Committee will be discussing this database and the Work Group will be developing the module in the near future. The ACCSP has done a lot of work regarding the development of a discards, releases and protected species interaction collection program and FIN will utilize their experiences in the development of their program.

IX. QUOTA MONITORING PROGRAM

The FIN Data Collection Work Group met to address this issue. The group was charged with developing recommendations regarding the various methods for quota monitoring for both commercial and recreational fisheries. In the Southeast Region, letters are sent to the major dealers for the various species that are quota-monitored, selecting them to report. These dealers are required to provide landings and other data for various time periods. In the Northeast Region, dealers report via an Interactive Voice Response (IVR) system. Dealers are given dealer codes and PINs to access the system and are required to report on a weekly basis. Dealers report all landings (including no landings) in pounds by species. They also provide area fished (by zones). The information is directly inputted into the computer and the system produces confirmation numbers to let the dealers know that their data have been entered.

Based on the recommendations for the Work Group, The FIN stated that quota monitoring for the commercial fisheries would ideally be accomplished through electronic trip tickets. This would allow for timely reporting of the data and allow for effective quota monitoring. Since electronic trip tickets are not currently feasible, it was adopted by FIN that an IVR/phone reporting system, similar to the one used in the Northeast, be used for quota monitoring of the commercial fisheries. The IVR system would allow for dealers (via codes and PINs) to provide landings data by

species and area fished on an established reporting period. The reporting period would depend on the species. It was noted that electronic trip tickets could not be used for the for-hire sector but an IVR/phone reporting system could be utilized to capture landings in the for-hire fishery. Regarding quota monitoring for the recreational fisheries, it was adopted that quota monitoring should not be used as a management tool for recreational fisheries. However, since it is already being used, it was adopted by FIN that in order to land quota-monitored species, recreational fishermen would be required to purchase special stamps. In addition to these stamps, a form would be distributed and fishermen would be required to report landings for that particular species. The reporting would be mandatory and fishermen would use an IVR/phone reporting system to provide the data.

X. COMPILATION OF METADATA

Metadata is defined as information that is necessary to interpret survey data and is more descriptive than analytical ("meta" means transcending). The RecFIN(SE) Biological/Environmental Work Group has worked extensively on the development of criteria for collection of metadata. The information to be included in metadata can be grouped into several major categories which include major environmental events (tropical storms, hurricanes, floods, droughts, oil spills), changes in fishing/boating regulations, procedural changes in survey methods, economic/social conditions and factors (major trends, political events, gas prices, etc.), and others pertinent events. It is envisioned that the metadata will be provided to users whenever they access the data. This will provide the user with possible explanations for inconsistencies in the data. Table 11 outlines the major categories and subcategories of metadata. And Table 12 provides the standard format for collection of metadata.

Table 11. Categories and subcategories of metadata.

METADATA CATEGORIES AND SUBCATEGORIES	DEFINITION
<i>Environmental</i>	<i>Natural and human-caused conditions of water, air, and land attributes which affect marine fishery resources and their users.</i>
Significant Weather Events	Hurricanes, major storms, freezes, long-term drought, El Nino, large-scale floods
Climate Changes	Greenhouse effect
Pollution	Discharge, runoff, treat system failure
Oil/Chemical Spills	Oil, chemical, shipwreck
Disease of Fish	Pfiesteria, etc.
Water Mass Change	Significant changes in Gulf Stream, warm core rings, etc.
Wind Pattern Change	Significant departures from normal seasonal patterns.
METADATA CATEGORIES AND SUBCATEGORIES	DEFINITION
Physical Habitat Alteration	Loss/degradation of habitat caused by natural or man-made activities (i.e., dredge/fill, seagrass loss, gear effects).

Land Use Pattern Change	Deforestation, re-forestation, urbanization, etc.
Exotic Species Introductions	Japanese oyster, zebra mussel, Asian clam, aquaculture escapement, etc.
Fish Kills	Significant quantities of dead fish in a defined area with unknown cause.
<i>Statute/Rule Change</i>	<i>State, federal, or local regulations or statutory changes which affect marine fisheries resources and their users.</i>
Size Limits	Increases/decreases in length/weight limits (i.e., minimum, maximum, slot)
Season/Trip Duration	Time periods, days-at-sea, etc.
Gear/Vessel Restrictions	Gear parameters, vessel size, etc.
Licenses/Permits	Imposition of license/permit requirements and fees, new requirements, limited entry, etc.
Quotas	ITQs, overall fishery, geographic, time period, etc.
Area Closures	Spawning, nursery, fishing, etc.
Possession Limits	Creel limits, daily, seasonal, trip, etc.
Reporting Requirements	Any changes in reporting requirements (i.e., voluntary versus mandatory)
Moratoria	Total fisheries closures.
<i>Economic</i>	<i>Data on economic activity that affect fisheries resources and their management. (Most economic factors apply to both commercial and recreational fisheries)</i>
Ex-vessel Price	Price received by fishermen for their products, if not collected as primary data under the FIN
Fixed/Variable Costs	Fuel, oil, labor, equipment, supplies, insurance, etc., if not collected as primary social and economic data under the FIN
Supply and Demand	Availability of products relative to consumer needs.
Income	Business, disposable, discretionary, etc.
Market Development	Providing products for additional consumers.
Product Development	New or changed product form.
Human Health	Toxins/contaminants affecting people.
Product Marketability	Consumer acceptance.
Employment	Changes in jobs in fishing and associated industries (commercial and recreational)
Taxes/License Fees/Subsidies	Industry response to changes in license/fee amounts and structure, vessel buyback programs, etc.
Regulatory Costs	Expenses for government implementation and industry response.
<i>Social</i>	<i>Information describing the cultural attributes of marine resources and their users.</i>
Demographic Data	Age, gender, education, etc.; if not collected as primary data under the FIN.
Conflicts	Behavior patterns within and among resource users.
METADATA CATEGORIES AND SUBCATEGORIES	DEFINITION

Perceptions	Attitudes concerning resource status and users.
Rules/Statutes	Effect of management actions on behavior of resource users.
Effects on Communities	Effect of management actions on groups directly or indirectly utilizing marine resources.
Technology	<i>Engineering improvements which may affect the harvesting and use of marine resources.</i>
Harvest Gear and Methods	Changes to commercial and recreational equipment and strategies.
Processing Equipment and Methods	New processes, products, and methods to improve efficiency and meet government regulations (i.e., HACCP, OSHA).
Vessel Enhancements	Rigging, engines, etc.
Electronics	Navigation, communication, detection.
Safety	Lifeboats, life vests, survival gear, EPIRB, etc.
Pollution Control	Sewage treatment improvements (community, industry, non-point, and vessel).
Data Collection & Management	<i>Information that describes changes in programs to obtain, process and distribute data.</i>
Survey Design	Changes to data collection methods, standards, formats, etc.
Technology	Enhancements to computer hardware and software, electronic data collection devices, etc.
Contractors/Collection Agencies	Changes in responsibilities and roles for collecting and managing data.

Table 12. Standard format for Collection of Metadata.

EVENT	MAGNITUDE	GEOGRAPHIC SCOPE	TEMPORAL SCOPE	POTENTIAL IMPACTS	SOURCE(S)

There will be a matrix for each of the major categories of metadata (environmental events, changes in regulations, changes in survey methods, economic/social factors, etc. The FIN decided that collection of metadata should begin with regulatory changes/modifications.

XI. REGISTRATION TRACKING SYSTEM

The registration tracking module is designed to track individual vessels, fishermen, and dealers through geographic location and time. This will allow for the association of specific landings to specific vessels, fishermen, or dealers regardless of where or when those vessels, fishermen, or dealers participate in the commercial fishery. This tracking will be accomplished through a unique identifier for vessels, fishermen, and dealers. For vessels, the unique ID is the Hull Identification Number (HIN). For dealers and fishermen, the unique ID consists of the following elements:

Birth Month

First letter of Last Name

Last letter of Last Name

First Letter of First Name

Birth Year

Birth Day

Sequential number - allows for entries with same individual codes but number will make it unique

It is critical that date of birth and name be collected by the licensing agency to ensure the unique ID can be created. A list of minimum data elements for vessels, fishermen, and dealers is in Tables 13-15.

For the FIN and ACCSP, the NMFS will be responsible for maintaining the master fishermen/dealers data base (which will contain the unique ID) and matching up fishermen/dealers from the partners data bases with the ones in the master data set. The states will be responsible for providing data feeds to the system and the FIN and ACCSP will provide these data sets to NMFS who will run quality control measures to ensure duplicate records are not entered into the system. This will be accomplished by comparing vessel name, vessel number, fishermen name, dealer number, birth date, address, telephone number(s) etc. from the partner data bases and the master data base.

Table 13. Vessel Registration Tracking Minimum Data Elements

*Please note that for those elements with *, these elements may not be applicable due to the size of the vessel. If these elements are available, the data needs to be reported.*

Data Element	Description/Criteria	Format
Vessel Identification	Unique vessel identifier (Coast Guard or state registration number). These identifiers must be trackable through time and space.	11 digit character
HIN	Hull identification number.	20 digit character
Business Name	Legal name of business, if applicable (included separate elements for last name, first name, middle initial, suffix).	Use established format from commercial C/E
Name	Name of owner (included separate elements for last name, first name, middle initial, suffix).	Use established format from commercial C/E
Physical Address	Physical address of owner (includes address1, address2, city, state, zip, country).	Use established format from commercial C/E
Mailing Address	Mailing address of owner (includes address1, address2, city, state, zip, country).	Use established format from commercial C/E
Business Telephone	Business telephone number of owner.	10 digit character
Home Telephone	Home telephone number of owner.	10 digit character
Date of Birth	Date of birth of owner. This is needed to create the unique identifier. If corporation, this will be the date of incorporation.	MM/DD/YYYY
State of Registration	State in which vessel is registered currently.	2 character postal code
Vessel Length	Overall length of vessel (feet), as provided in registration documentation.	3 digit numeric plus 1 decimal point
Year Built	Year the vessel was originally constructed.	4 digit numeric
Gross Tons*	Gross loaded weight of the vessel.	3 digit numeric plus 1 decimal point
Net Tons*	Net weight of the vessel.	3 digit numeric plus 1 decimal point
Hull Construction Material	Primary material used to construct vessel hull.	15 digit character
Hold Capacity*	Total hold capacity of the vessel (Needs to be either reported in tons or converted to tons. If not able to convert, this needs to be noted in metadata).	3 digit numeric plus 1 decimal point
Horsepower*	Total horsepower for all engines on the vessel.	4 digit numeric
License types	Types of licenses and/or permits held for the vessel.	10 digit character
License number	The license identifier issued by licensing agencies	10 digit numeric
Issue Date	Date licenses and/or permits were issued.	MM/DD/YYYY
Expiration Date	Date licenses and/or permits expire.	MM/DD/YYYY
Ownership code	Type of business - individual owner, corporation, etc.	2 digit character

Table 14. Fishermen Registration Tracking Minimum Data Elements

Data Element	Description/Criteria	Format
Participant Identification	Unique identifier for individual fisherman which consists of: 1) month of date of birth (2 digit character); 2) first letter of last name (1 digit character); 3) first letter of first name (1 digit character); 4) last letter of last name (1 digit character); 5) year of date of birth (2 digit character); 6) day of date of birth (2 digit character); 7) sequential number (2 digit character). For businesses, it will be the federal tax id number	11 digit character
Name	Legal name of fisherman. If it is a business, this element would contain the contact person for the business (included separate elements for last name, first name, middle initial, suffix).	Use established format from commercial C/E
Physical Address	Physical address of fisherman (includes address1, address2, city, state, zip, country).	Use established format from commercial C/E
Mailing Address	Mailing address of fisherman (includes address1, address2, city, state, zip, country).	Use established format from commercial C/E
Business Telephone	Business telephone number of fisherman.	10 digit character
Home Telephone	Home telephone number of fisherman.	10 digit character
Date of Birth	Date of birth of fisherman. For a business, this will be date of incorporation. This is needed to create the unique identifier.	MM/DD/YYYY
Federal Tax Id Number	The federal tax id number for the business. If there is an individual fisherman, this will be blank. This is needed to create the unique identifier.	11 digit character
Business Name	Name of business, if applicable (included separate elements for last name, first name, middle initial, suffix).	Use established format from commercial C/E
License types	Types of licenses and/or permits held for the vessel.	10 digit character
License number	The license identifier issued by licensing agencies	10 digit numeric
Issue Date	Date licenses and/or permits were issued.	MM/DD/YYYY
Expiration Date	Date licenses and/or permits expire.	MM/DD/YYYY
Ownership code	Type of business - individual owner, corporation, etc.	2 digit character

Table 15. Dealer registration tracking minimum data elements

Data Element	Description/Criteria	Format
Participant Identification	Unique identifier for individual fisherman which consists of: 1) month of date of birth (2 digit character); 2) first letter of last name (1 digit character); 3) first letter of first name (1 digit character); 4) last letter of last name (1 digit character); 5) year of date of birth (2 digit character); 6) day of date of birth (2 digit character); 7) sequential number (2 digit character). For businesses, it will be the federal tax id number	11 digit character
Name	Legal name of dealer (included separate elements for last name, first name, middle initial, suffix).	Use established format from commercial C/E
Physical Address	Physical address of dealer (includes address1, address2, city, state, zip, country).	Use established format from commercial C/E
Mailing Address	Mailing address of dealer (includes address1, address2, city, state, zip, country).	Use established format from commercial C/E
Business Telephone	Business telephone number of dealer.	10 digit character
Home Telephone	Home telephone number of dealer.	10 digit character
Date of Birth	Date of birth of fisherman. For a business, this will be date of incorporation. This is needed to create the unique identifier.	MM/DD/YYYY
Federal Tax Id Number	The federal tax id number for the business. If there is an individual fisherman, this will be blank. This is needed to create the unique identifier.	11 digit character
License types	Types of licenses and/or permits held for the vessel.	10 digit character
License number	The license identifier issued by licensing agencies	10 digit numeric
Issue Date	Date licenses and/or permits were issued.	MM/DD/YYYY
Expiration Date	Date licenses and/or permits expire.	MM/DD/YYYY
Ownership code	Type of business - individual owner, corporation, etc.	2 digit character

XII. DATA MANAGEMENT SYSTEM

The FIN Data Management System (DMS) architecture consists of a three-layer model for input and output of data: an operational layer, the reconciled data layer, and the informational layer. A data reconciliation component and a data derivation component form bridges between the layers. The FIN has implemented the DMS for the commercial and recreational catch/effort and biological sampling modules. The FIN Database Manager is currently populating these modules with data. Plans are to begin development of the fishermen/dealer/vessel registration system, and fishery modules. There are current commercial and recreational data from Louisiana-Florida in the system. The FIN Database Manager is working on populating the system with historical data from NMFS. Once this is accomplished, the DMS will be opened to both confidential and non-confidential data users. FIN will continue to work with ACCSP to ensure compatibility and comparability.

XIII. OUTREACH PROGRAM

The FIN recently adopted a similar program to the ACCSP concerning outreach. This program incorporates several tasks, including constituency input, information dissemination, and development of informational materials, as outlined below:

I. Constituency Input

Constituency input is gathered from the following groups:

- < Fishing communities (recreational, commercial, charter and head boat, dealer/processors)
- < General public
- < State and federal legislators
- < FIN partners (including public relations contacts)
- < Special interest groups (i.e. environmental organizations, recreational retail sector)

Mechanisms to gather stakeholder input include:

- < Public Meetings
- < Dissemination of Public Information Documents

II. Information Dissemination

Target audiences for dissemination of FIN information include:

- < Fishing communities
- < General public
- < State and federal legislators
- < FIN partners
- < Media
- < Special interest groups

Mechanisms to disseminate FIN information include:

- < Development of networks and databases for dissemination
- < Informational advertisements/articles

III. Development of Informational Materials

Informational materials developed for the FIN include:

- < Informational folders
- < Inserts and articles in existing newsletters
- < Brochures and fact sheets
- < FIN Website

APPENDIX A

FIN Standard Codes

January 2001

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Table A.1. Standard code formats for required information to be provided on a trip basis by all Gulf of Mexico and Caribbean dealers and fishermen under the FIN commercial data collection program.

DATA ELEMENT	FORMAT	DATA ELEMENT	FORMAT
Form Type/Version Number	12 digit alphanumeric	State Landed	2 character postal alpha abbreviation (see Table A.8)
Reporting Form Series Number	12 digit alphanumeric	Dealer Identification	2 digit character postal alpha abbreviation plus 8 character code (see Table A.2)
Trip Start Date	MM/DD/YYYY Date Format 8 character	Unloading Date	MM/DD/YYYY Date format (8 character)
Vessel Identifier	11 digit character	Market Size	2 digit alpha-numeric code (see Table A.5)
Individual Identifier	11 digit character	Grade (Landing Condition)	2 digit numeric code (see Table A.6)
Trip Number	2 digit numeric	Gear(s)	3 digit numeric code (see Table A.3)
Species	ITIS 11 digit character code (see Table A.8)	Quantity of Gear (See Table 2)	6 digit numeric
Quantity	8 digit numeric plus two decimal points	Days/Hours at Sea	DD:HH
Units of Measurement	2 digit character code (see Table A.2)	Number of Crew (including Captain)	3 digit numeric
Disposition of Catch	3 digit character code (see Table A.4)	Fishing Time	Hours DD:HH:MM
Ex-Vessel Value or Price	5 digit numeric plus three decimal points	Area Fished	3 digit numeric plus 2 decimal places (see Table A.2 & A.10)
County or Port Landed	FIPS codes 3 digit character: county 5 digit character: port (see Table A.8)	Number of Sets	3 digit numeric

Table A.2. Summary of standard FIN codes and formats for units of measurement, length type, dealer identification, general fishing area, access site type, and tissue type.

DATA ELEMENT	CODING
Units of Measurement	BG: bags or sacks BR: barrels BU: bushels or baskets BX: boxes CM: centimeters DZ: dozens GL: gallons GM: grams HH: hogsheds (1225 pounds; used in sardine industry) KG: kilograms LB: pounds LT: liter MM: millimeters MP: meat pounds MT: metric tons NO: numbers OZ: ounces PS: pounds in shell QT: quarts TH: thousands of standard fish (670 pounds; used in menhaden industry) TN: short tons UK: Unknown unit
Length Type	CC: curved carapace width (turtles) CF: curved fork length CL: carapace length CO: core length CU: curved carapace length (turtles) CW: carapace width FL: fork length LT: lip thickness (for conch, VI) SD: shell diameter SG: shell length (for conch, VI) SH: shell thickness (clams, NC) SL: standard length TL: total length
Dealer Identification	ST1234567 ST: indicates state (or part of dealer ID number in LA) 1234567: indicates dealer ID number

DATA ELEMENT	CODING
Area Fished	<p>NMFS area codes plus 4 decimal places For the purposes of data management., go with two fields. One for the larger area, and one for the smaller inshore area, i.e. statistical area, sub-area (water body code)</p> <p>.0000: 0-3 miles .0001-.9997: Inshore water body codes .9998: EEZ .9999: International waters</p> <p>* - The decimal points can also be used for more detailed area data such as 10' grids.</p>
Distance From Shore (generated values for the database)	<p>1 = inland < 0 2 = inshore (0-3 miles on Atlantic and Gulf coasts and U.S. Virgin Islands, 0-9 nautical miles on Florida, Puerto Rico, and Texas Gulf coast (<i>Territorial waters</i>) 3 = EEZ (3-200 miles on Atlantic and Gulf coasts and U.S. Virgin Islands, 9-200 miles on Florida Puerto Rico, and Texas Gulf coast. 4 = International (Greater than 200 miles)</p>
Access Site Type	<p>0 = NA</p> <p>Public Access 1 = launch ramp 2 = boat slip 3 = moored from dock 4 = other</p> <p>Private Access 5 = personal residence/dock 6 = private locked gate marina 7 = private property unlocked marina 8 = other</p>
Tissue Type	<p>This is a two digit numeric code that designates what type of tissue sample was taken: 01 = Muscle 02 = Eyes 03 = Stomach</p>

Table A.3. Standard FIN gear types and codes.

CODE	GEAR TYPE
000	Not Coded
Haul Seines 010-029	
010	Haul Seines
020	Other Seines
021	Stop Seines
022	Common Seine
023	Swipe Nets
Purse Seines 030-049	
030	Purse Seine
031	Purse Seine, Tarp
040	Lampara / Ring Nets
Fixed Nets 050-079	
050	Pound Nets
060	Fyke Nets
070	Other Fixed Nets
071	Weirs
072	Trap Nets
073	Floating Traps (Shallow)
074	Bag Nets
075	Channel Nets
076	Stop Net
077	Hoop Net
Trawls 080-129	
080	Beam Trawls
081	Beam Trawls, Fish
082	Beam Trawls, Other - Shrimp, chopsticks
090	Otter Trawls
091	Otter Trawl Bottom, Crab
092	Otter Trawl Bottom, Fish
093	Otter Trawl Bottom, Lobster
094	Otter Trawl Bottom, Scallop
095	Otter Trawl Bottom, Shrimp

CODE	GEAR TYPE
096	Otter Trawl Bottom, Other
097	Otter Trawl Mid water
110	Other Trawls
111	Trawl, Clam Kicking
112	Otter Trawl Mid water, Paired
113	Otter Trawl Bottom, Paired
114	Trawl, Roller
115	Trawl, Roller Frame
116	Trawl, Skimmer
117	Scottish Seine
118	Butterfly Nets
119	Danish Seine
120	Fly Net
Pots and Traps 130-199	
130	Pots and Traps
131	Pots & Traps, Conch
132	Pots & Traps, Blue Crab
136	Pots & Traps, Crab, Peeler
137	Pots & Traps, Crayfish
138	Pots & Traps, Eel
139	Pots & Traps, Fish
140	Pots & Traps, Spiny Lobster
141	Pots & Traps, Octopus
142	Pots & Traps, Periwinkle or Conkle
143	Pots & Traps, Shrimp
144	Pots & Traps, Turtle
145	Pots & Traps, Stone Crab
146	Pots & Traps, Scup
147	Pots & Traps, Black Sea Bass
148	Pots & Traps, Reef Fish
149	Pots & Traps, Hagfish
150	Pots & Traps, Golden Crab
151	Pots & Traps, Puffer

CODE	GEAR TYPE
160	Pots & Traps, Lobster
161	Pots & Traps, Lobster Inshore
162	Pots & Traps, Lobster Offshore
163	Pots & Traps, Lobster Double Parlor
180	Pots & Traps, Other
181	Pots, Unclassified
182	Box Traps
183	Wire Baskets
184	Slat Traps (Virginia)
Gill Nets 200-299	
200	Gill Nets
201	Gill Nets, Floating Drift
202	Gill Nets, Sink Drift
203	Gill Nets, Floating Anchor
204	Gill Nets, Sink Anchor
205	Gill Nets, Runaround
206	Gill Nets, Stake
207	Gill Nets, Other
210	Trammel Nets
211	Trammel Nets, Floating Drift
212	Trammel Nets, Sink Drift
213	Trammel Nets, Floating Anchor
214	Trammel Nets, Sink Anchor
215	Trammel Nets, Runaround
216	Trammel Nets, Other
Hook & Line 300-399	
300	Rod and Reel
301	Rod and Reel, Manual
302	Rod and Reel, Electric
303	Electric/Hydraulic, Bandit Reels
320	Troll Lines
321	Troll Line, Manual
322	Troll Line, Electric

CODE	GEAR TYPE
323	Troll Line, Hydraulic
330	Hand Line
331	Troll & Hand Line
340	Auto Jig
Long Lines 400-499	
400	Long Lines
401	Long Lines, Vertical
402	Long Lines, Surface
403	Long Lines, Bottom
404	Long Lines, Surface, Mid water
405	Lines, Trot
406	Turtle Hooks
Dredge 500-549	
500	Dredge
501	Dredge, Hydraulic, Clam
502	Dredge, Hydraulic Escalator, Clam
503	Dredge, Clam
511	Dredge, New Bedford
512	Dredge, Digby
Dip Nets & Cast Nets 550-599	
550	Dip Nets
551	Cast Nets
552	Bully Nets
Rakes, Hoes, & Tongs 600-649	
600	Tongs
601	Hand Tongs
602	Patent Tongs
620	Rakes
621	Rakes, Bull
622	Rakes, Oyster
623	Rakes, Hand
630	Hoes
631	Rakes/Shovels/Pitchforks

CODE	GEAR TYPE
632	Picks
633	Scrapes

CODE	GEAR TYPE
Spears & Gigs 650-699	
650	Harpoons
660	Spears
661	Spears, Diving
662	Gigs
663	Power heads
670	Handheld Hooks
671	Sponge Hooks
By Hand 750-799	
750	By Hand, Diving Gear
760	By Hand, No Diving Gear
Other Gears 800-849	
800	Other Gears
801	Unspecified Gear
802	Combined Gears
803	Aquiculture
804	Chemical, Other
805	Bush Net

Table A.4. Standard FIN disposition codes.

CODE		DISPOSITION
General Utilization Codes	000	Used on fishermen and dealer reporting forms
000		No Catch
001		Food
002		Personal Use
003		Placed in Car
004		Removed for Sale
005		Aquiculture
006		Canned Pet Food
007		Animal Food
008		Bait
009		Reduction/Meal
010		Aquarium
011		Kept, disposition unknown
100		Market reason not specified
101		No market
102		Too small
103		Too large
104		Upgraded
105		Will not keep to end of trip
106		Retained by vessel alternate program
107		Retained by observer / science
200		Regulation reason not specified
201		Too small
202		Too large
203		Quota filled
204		No quota in area
205		Closed season
225		V-notched, new
226		V-notched, previous
227		Soft-shelled
228		With eggs
229		No retention

CODE	DISPOSITION
300	Quality reason not specified
301	Sand flea damage
302	Seal damage
303	Shark damage
304	Cetacean damage
305	Finish damage
306	Shellfish damage
307	Parasite damage
308	Low quality roe
400	Reason not specified
401	Gear damage prevented capture
402	Fell out or off of gear
403	Dead discard
404	Released alive
500	Alive; condition unknown
501	Alive; not injured
502	Alive; injured
503	Alive; gear in or around mouth
504	Alive; gear in or around flipper
505	Alive; gear in or around another single body part
506	Alive; gear in or around several body parts
507	Alive; seen by captain or crew only
550	Dead; condition unknown
551	Dead; fresh
552	Dead; moderately decomposed
553	Dead; severely decomposed
554	Dead; seen by captain or crew only
600	Unknown
601	Vessel retain size for best price due to quota
602	Seized by Law Enforcement
603	Tagged and Released
604	Debris; incidental take
605	Debris

CODE	DISPOSITION
606	Empty shells
777	Refused to give reason
888	Other reasons

Table A.5. Standard FIN codes for market categories, based on market size.

CODE	MARKET /SIZE CATEGORY
BT	Sold as Bait
CC	Cherry / chowder mix
CH	Chowder
CN	Count
CR	Cherry
CT	Cherry & Tops
CX	Lobster Chix (1-1.25 lb)
FE	Female
FG	Factory Grade
GI	Giants, colossal, or lobster jumbo, stone crab claws, stone crabs Jumbo
LB	Pounds
LG	Large or lobster Large (2-3 lb), #1 crabs
LI	Lights
LN	Little neck
LT	Little neck / top neck mix
MA	Male
MD	Medium or lobster select (1.5-2 lbs), #2 crabs
MM	Millimeters
MN	Middle neck
MX	Mixed
MX	Mixed or unsize d ("Straight" or "Crate Run" for lobsters)
NG	No grade
PA	Sub 7/8 inch
PW	Pee wee (rats)
QT	Lobster quarters (1.25 lb)
SC	Seed clams
SE	7/8 inch clams
SM	small (schoolies), #3 crabs
TN	Top neck
TY	Tiny (young school)
UN	Unknown/Not graded
XL	Extra large (Double mark)

CODE	MARKET /SIZE CATEGORY
XX	Extra-extra large (Triple mark)

Table A.6. Standard FIN codes for grade categories (landing condition).

CODE	GRADE (LANDING CONDITION)
00	Ungraded
01	Round
02	Live
03	Wings
04	Heads
05	Pectoral girdles
06	Tongues / chins
07	Cheeks
08	Belly flaps
09	Tails
10	Fins
11	Fins fresh
12	Fins dried
13	Livers
14	Gizzards
15	Stomach / guts
16	Bones
17	With roe
18	Only roe
19	Milt (white roe)
20	Scales
21	Racks
22	Bled
23	Gutted - head on
24	Gutted - head off
25	Gutted - head off / tail off (cores)
26	Mixed Roe
30	Fillets
31	Fillets - with skin and ribs
CODE	GRADE (LANDING CONDITION)

32	Fillets - skin on, no ribs
33	Fillets - with ribs, no skin
34	Fillets - skinless / boneless
35	Fillets - deep skin
36	Fillets - blocks
40	Loins
41	Steaks
42	Chunks
43	Surimi
44	Minced
45	Sushi grade
46	Salted and split
47	Buck
48	Drawn
49	Dressed
50	Egger (Discard)
51	Elver
52	Fall
53	Fins Frozen
54	Glass
55	Gutted
56	Hard
57	Head On, Gutted
58	Heads off
59	Industrial
60	Heads on (Shrimp)
61	Heads off (Shrimp)
62	Culls (American Lobster)
63	New Shells (American Lobster)
64	Hard Shells (American Lobster)
65	Claws
70	Meats (Bivalve)
71	Tubes / Mantles

CODE	GRADE (LANDING CONDITION)
72	Tentacles
73	Notched (Discard)
74	Roe
75	Seed
76	Spawn (Roe)
77	Sperm
78	Spring
79	Tube
80	Meal
81	Oil
82	Shells, No Meat

Table A.7. Standard FIN species codes (ITIS codes), and comparison to existing coding systems.

NMF	NMFS_NE	NODC	ITIS	NAME	SCIENTIFIC_NAME	AFS_NAME
			000000	NO CATCH		
0010	0010	87470101	161701	ALEWIFE	Alosa	ALEWIFE
0011		8747010105	161706	ALEWIVES	Alosa pseudoharengus	ALEWIVES
0012	1120	8747010102	161703	HERRING,BLUEBACK	Alosa aestivalis	HERRING, BLUEBACK
0016		8810050102	166156	ALFONSIN	Beryx splendens	ALFONSIN
0030	0030	88352808	168688	AMBERJACK	Seriola	AMBERJACK
0060	0060	874702	161826	ANCHOVY	Engraulidae	ANCHOVIES
0061		8747020101	161828	ANCHOVY,NORTHERN	Engraulis mordax	ANCHOVY, NORTHERN
0062		8747020202	161839	ANCHOVY,BAY	Anchoa mitchilli	ANCHOVY, BAY
0063		8747020210	161847	ANCHOVY,DEEPBODY	Anchoa compressa	ANCHOVY, DEEPBODY
0064		8747020211	161848	ANCHOVY,SLOUGH	Anchoa delicatissima	ANCHOVY, SLOUGH
0090		883555	169554	ANGELFISHES	Chaetodontidae	BUTTERFLYFISHES
0119	0123	8786010101	164499	ANGLERFISH	Lophius americanus	GOOSEFISH
0126		8835570101	169699	ARMORHEAD	Pentaceros richardsoni	ARMORHEAD, PELAGIC
0130		8835280601	168677	BIGEYE SCAD	Selar crumenophthalmus	SCAD, BIGEYE
0140		8835170101	168178	BIGEYE	Priacanthus arenatus	BIGEYE
0145		8835170201	168190	SHORT BIGEYE	Pristigenys alta	SHORT BIGEYE
0150		8803010201	165460	BALLYHOO	Hemiramphus brasiliensis	BALLYHOO
0180	0180	883701	170424	BARRACUDA	Sphyraenidae	BARRACUDAS
0181		8837010101	170426	BARRACUDA,PACIFIC	Sphyraena argentea	BARRACUDA, PACIFIC
0190	0190	8803020201	165551	NEEDLEFISH,ATLANTIC	Strongylura marina	NEEDLEFISH, ATLANTIC
0192		8851010202	172513	BLACK DRIFTFISH	Hyperoglyphe bythites	BLACK DRIFTFISH
0193		8851010201	172512	BARRELFISH	Hyperoglyphe perciformis	BARRELFISH
0194		8776013601	163589	BLACKFISH,SACRAMENTO	Orthodon microlepidotus	SACRAMENTO
0195		8835620306	170085	BLACKSMITH	Chromis punctipinnis	BLACKSMITH
0230	0230	8835250101	168559	BLUEFISH	Pomatomus saltatrix	BLUEFISH
0240		883520040101	168507	BLUE PIKE (EXTINCT)	Stizostedion vitreum glaucum	PIKE, BLUE
0270		8835280306	168612	BLUE RUNNER	Caranx crysos	RUNNER, BLUE
0300		8739010101	161121	BONEFISH	Albula vulpes	BONEFISH
0330	0330	8850030202	172409	BONITO,ATLANTIC	Sarda sarda	BONITO, ATLANTIC
0331		8850030201	172408	BONITO,PACIFIC	Sarda chiliensis	BONITO, PACIFIC
0332		8850030203	172410	BONITO,STRIPED	Sarda orientalis	BONITO, STRIPED
0333		88500302	172407	BONITO,UNC	Sarda	BONITO
0340		883555	169554	BUTTERFLY FISH	Chaetodontidae	BUTTERFLYFISHES
0360		8734010101	161104	BOWFIN	Amia calva	BOWFIN
0370		886003	173235	BOXFISH	Ostraciidae	BOXFISHES
0390		8755010306	161997	BROWN TROUT	Salmo trutta	TROUT, BROWN
0420		87760407	163954	BUFFALOFISHES	Ictiobus	BUFFALOFISHES
0450	0450	87770201	163996	BULLHEADS	Ictalurus	CATFISHES & BULLHEADS
0480		8791030801	164725	BURBOT	Lota lota	BURBOT
0510	0510	88510301	172564	BUTTERFISH	Peprilus	BUTTERFISH
0525		8851030101	172565	BUTTERFISH,PACIFIC	Peprilus simillimus	POMPANO, PACIFIC
0530		88510202	172545	CIGARFISH GENUS	Cubiceps	CIGARFISH GENUS
0535		8851020205	172550	CAPE FATHEAD CIGARFISH	Cubiceps capensis	CAPE FLATHEAD
0540		8831023101	167353	CABEZON	Scorpaenichthys marmoratus	CABEZON

NMF	NMFS_NE	NODC	ITIS	NAME	SCIENTIFIC_NAME	AFS_NAME
0570	0570	8835260101	168566	COBIA	Rachycentron canadum	COBIA
0600		8835020403	167697	CABRILLA	Epinephelus analogus	SPOTTED CABRILLA
0630	0630	8776010101	163344	CARP	Cyprinus carpio	CARP, COMMON
0661		87770201	163996	CATFISHES & BULLHEADS	Ictalurus	CATFISHES & BULLHEADS
0662		8777020102	163997	CATFISH,BLUE	Ictalurus furcatus	CATFISH, BLUE
0663		8777020105	163998	CATFISH,CHANNEL	Ictalurus punctatus	CATFISH, CHANNEL
0664		8777020301	164029	CATFISH,FLATHEAD	Pylodictis olivaris	CATFISH, FLATHEAD
0665		8777020605	164043	CATFISHES (BULLHEAD,BROWN)	Ameiurus nebulosus	BULLHEAD, BROWN
0701		8755010402	162001	CHAR,ARCTIC	Salvelinus alpinus	ARCTIC CHAR
0720		87550101	161932	CHUBS	Coregonus	CHUBS
0750		88352812	168723	SCADS	Decapterus	SCADS
0780		8755010108	161942	CISCO (LAKE ERIE ONLY DUP 1681)	Coregonus artedii	HERRING, LAKE OR CISCO
0810	0810	8791030402	164712	COD,ATLANTIC	Gadus morhua	COD, ATLANTIC
0822		8791030401	164711	COD,PACIFIC,UNC	Gadus macrocephalus	COD, PACIFIC
0840	0840	88351607	168165	CRAPPIE	Pomoxis	CRAPPIE
0870	0870	8835280303	168609	CREVALLE	Caranx hippos	JACK, CREVALLE
0900	0901	8835440701	169283	CROAKER,ATLANTIC	Micropogonias undulatus	CROAKER, ATLANTIC
0926		8835440201	169257	CROAKER,PACIFIC,WHITE	Genyonemus lineatus	CROAKER, WHITE
0928		8835440607	169280	CORBINA,CALIFORNIA	Menticirrhus undulatus	CORBINA, CALIFORNIA
0930	0930	8839010201	170481	CUNNER	Tautoglabrus adspersus	CUNNER
0931		883544	169237	DRUMS	Sciaenidae	DRUMS
0932		8835440118	169255	TOTOABA	Cynoscion macdonaldi	TOTOABA
0933		8835440114	169251	CROAKER,SHORTFIN	Cynoscion parvipinnis	CORVINA, SHORTFIN
0934		8835441105	169303	CROAKER,YELLOWFIN	Umbrina roncadore	CROAKER, YELLOWFIN
0935		8835442301	169358	CROAKER,BLACK	Cheilotrema saturnum	CROAKER, BLACK
0936		8835442401	169360	CROAKER,SPOTFIN	Roncadore stearnsi	CROAKER, SPOTFIN
0960	0960	8791031101	164740	CUSK	Brosme brosme	CUSK
0985	0985	8815020102	166342	DEALFISH (RIBBONFISH)	Trachipterus arcticus	DEALFISH
0990		8850020201	172385	CUTLASSFISH,ATLANTIC	Trichiurus lepturus	CUTLASSFISH, ATLANTIC
1000		8755010208	161983	CUTTHROAT TROUT	Oncorhynchus clarki	TROUT, CUTTHROAT
1020		8755010401	162000	DOLLY VARDEN TROUT	Salvelinus malma	DOLLY VARDEN
1050	1050	88352901	168790	DOLPHINFISH	Coryphaena	DOLPHIN
1081	1060	8835440801	169288	DRUM,BLACK	Pogonias cromis	DRUM, BLACK
1082	1070	8835440901	169290	DRUM,RED	Sciaenops ocellatus	DRUM, RED
1135		8842122201	171618	PRICKELBACK,MONKEYFACE	Cebidichthys violaceus	PRICKLEBACK, MONKEYFACE
1136		874112	161324	EELS,CONGER	Congridae	CONGER EELS
1137		874113	161419	EELS,SNAKE	Ophichthidae	SNAKE EELS
1138		879201	164807	EELS,CUSK	Ophidiidae	CUSK-EELS
1139		8741050409	161194	EEL,MORAY,CALIFORNIA	Gymnothorax mordax	MORAY, CALIFORNIA
1140		8740	161123	EELS,UNC	Anguilliformes	EELS
1141	1150	8741010101	161127	EEL,AMERICAN	Anguilla rostrata	EEL, AMERICAN
1142	1160	8741120101	161326	EEL,CONGER	Conger oceanicus	CONGER EEL
1143		874105	161160	EEL,MORAYS	Muraenidae	MORAYS
1144		8792010401	164818	BEARDED BROTLA	Brotula barbata	BROTLA, BEARDED
1190		8855	172702	FLATFISH,UNC	Pleuronectiformes	FLATFISH,UNC
1199	1200	8857041504	172904	FLOUNDER,ATLANTIC,WINTER,	Pleuronectes americanus	FLOUNDER, WINTER

NMF	NMFS_NE	NODC	ITIS	NAME	SCIENTIFIC_NAME	AFS_NAME
1203	1241	8857040603	172877	FLOUNDER,ATLANTIC,PLAICE, AM. (DAB)	Hippoglossoides platessoides	PLAICE,AMERICAN
1208	1218	8857030301	172735	FLOUNDER,ATLANTIC,SUMMER, (FLUKE)	Paralichthys dentatus	FLOUNDER,SUMMER
1209		88570303	172734	FLOUNDER,ATLANTIC,FLUKE,UNC	Paralichthys	FLOUNDER,FLUKES
1215	1220	8857040502	172873	FLOUNDER,ATLANTIC,WITCH, UNC (Gr SOLE)	Glyptocephalus cynoglossus	FLOUNDER,WITCH
1223	1251	8857030401	172746	FLOUNDER,ATLANTIC,SAND, DAB	Scophthalmus aquosus	FLOUNDER,WINDOWPANE
1228	1231	8857041506	172908	FLOUNDER,ATLANTIC, YELLOWTAIL	Pleuronectes ferrugineus	FLOUNDER,YELLOWTAIL
1234	1270	8857030305	172739	FLOUNDER,FOURSPOT	Paralichthys oblongus	FLOUNDER,FOURSPOT
1250		8857040102	172862	FLOUNDER,PACIFIC, ARROWTOOTH	Atheresthes stomias	FLOUNDER,ARROWTOOTH
1255		8857030309	172743	FLOUNDER,PACIFIC, CAL.HALIBUT	Paralichthys californicus	HALIBUT, CALIFORNIA
1260		88570301	172715	FLOUNDER,PACIFIC, SANDDAB UNC	Citharichthys	FLOUNDER,PACIFIC,SANDDAB UNC
1261		8857030101	172716	FLOUNDER,PACIFIC, SANDDAB	Citharichthys sordidus	SANDDAB, PACIFIC
1262		8857030102	172717	FLOUNDER,PACIFIC, SANDDAB,SPECKLE	Citharichthys stigmaeus	SANDDAB, SPECKLED
1263		8857030111	172726	FLOUNDER,PACIFIC, SANDDAB, LONGFIN	Citharichthys xanthostigma	SANDDAB, LONGFIN
1265		8857041201	172887	FLOUNDER,PACIFIC, DOVER SOLE	Microstomus pacificus	SOLE,DOVER
1270		8857041512	172920	FLOUNDER,PACIFIC, ENGLISH SOLE	Pleuronectes vetulus	SOLE,ENGLISH
1272		8857040601	172875	FLOUNDER,PACIFIC, FLATHEAD SOLE	Hippoglossoides elassodon	SOLE,FLATHEAD
1274		8857031501	172800	FLOUNDER,PACIFIC, FANTAIL SOLE	Xystreurys liolepis	SOLE, FANTAIL
1275		8857040401	172868	FLOUNDER,PACIFIC, PETRALE SOLE	Eopsetta jordani	SOLE, PETRALE
1280		8857043501	172977	FLOUNDER,PACIFIC, REX SOLE	Errex zachirus	SOLE, REX
1282		8857041510	172916	FLOUNDER,PACIFIC, ROCK SOLE	Pleuronectes bilineatus	SOLE,ROCK
1285		8857041701	172928	FLOUNDER,PACIFIC, SAND SOLE	Psettichthys melanostictus	SOLE, SAND
1287		8857041505	172906	FLOUNDER,PACIFIC, YELLOWFIN SOLE	Pleuronectes asper	SOLE,YELLOWFIN
1289		8857041401	172893	FLOUNDER,PACIFIC, STARRY	Platichthys stellatus	FLOUNDER,STARRY
1290		885801	172980	FLOUNDER,PACIFIC, UNC SOLE	Soleidae	SOLES

NMF	NMFS_NE	NODC	ITIS	NAME	SCIENTIFIC_NAME	AFS_NAME
1291		8857031102	172784	FLOUNDER,PACIFIC, SOLE,BIGMOUTH	Hippoglossina stomata	SOLE, BIGMOUTH
1292		8857041511	172918	FLOUNDER,PACIFIC, SOLE,BUTTER	Pleuronectes isolepis	SOLE,BUTTER
1293		8857040403	172870	FLOUNDER,PACIFIC, SOLE,SLENDER	Eopsetta exilis	SOLE, SLENDER
1294		8857041601	172923	FLOUNDER,PACIFIC, SOLE,C-O	Pleuronichthys coenosus	SOLE,C-O
1296		8858020116	173077	TONGUEFISH,CALIFORNIA	Symphurus atricauda	TONGUEFISH, CALIFORNIA
1297		8857041602	172924	SOLE,CURLFIN	Pleuronichthys decurrens	SOLE,CURLFIN
1310		880301	165431	FLYINGFISHES	Exocoetidae	FLYINGFISHES
1320	1320	8850030702	172456	FRIGATE MACKEREL	Auxis thazard	MACKEREL, FRIGATE
1330	1330	873201	161092	GARFISHES	Lepisosteidae	GARS
1340	1340	8747010501	161737	GIZZARD SHAD	Dorosoma cepedianum	SHAD, GIZZARD
1350		883545	169406	GOATFISHES	Mullidae	GOATFISHES
1360		8776010301	163350	GOLDFISH	Carassius auratus	GOLDFISH
1380	1380	879401	165332	GRENADIERS	Macrouridae	GRENADIERS
1410	1410	883502	167674	GROUPERS	Serranidae	GROUPERS
1411		8835020404	167698	HIND,SPECKLED	Epinephelus drummondhayi	SPECKLED HIND
1412		8835020402	167696	HIND,ROCK	Epinephelus adscensionis	ROCK HIND
1413		8835020406	167700	HIND,RED	Epinephelus guttatus	RED HIND
1414		8835020411	167705	GROUPE,R,SNOWY	Epinephelus niveatus	GROUPE,R, SNOWY
1415		8835020405	167699	GROUPE,R,YELLOWEDGE	Epinephelus flavolimbatus	GROUPE,R, YELLOWEDGE
1417		8835020440	167743	GROUPE,R,MARBLED	Epinephelus inermis	GROUPE,R, MARBLED
1418		8835020508	167766	GROUPE,R,BROOMTAIL	Mycteroperca xenarcha	GROUPE,R, BROOMTAIL
1419		8835020509	167767	GROUPE,R, TIGER	Mycteroperca tigris	GROUPE,R, TIGER
1420		8835020409	167703	GROUPE,R,MISTY	Epinephelus mystacinus	GROUPE,R, MISTY
1422		8835020502	167760	GROUPE,R,BLACK	Mycteroperca bonaci	GROUPE,R, BLACK
1423		8835020501	167759	GROUPE,R,GAG	Mycteroperca microlepis	GAG
1424		8835020505	167763	SCAMP	Mycteroperca phenax	SCAMP
1425		8835020504	167762	GROUPE,R,YELLOWMOUTH	Mycteroperca interstitialis	GROUPE,R, YELLOWMOUTH
1426		8835020506	167764	GROUPE,R,YELLOWFIN	Mycteroperca venenosa	GROUPE,R, YELLOWFIN
1427		8835021701	167838	CREOLE-FISH	Paranthias furcifer	CREOLE-FISH
1428		8835020439	167741	GRAYSBY	Epinephelus cruentatus	GRAYSBY
1429		8835020438	167739	CONEY	Epinephelus fulvus	CONEY
1430		8835020412	167706	GROUPE,R,NASSAU	Epinephelus striatus	GROUPE,R, NASSAU
1440	1440	883540	169055	GRUNTS	Haemulidae	GRUNTS
1441		8835400102	169059	GRUNT,WHITE	Haemulon plumieri	GRUNT, WHITE
1442		8835400103	169060	MARGATE	Haemulon album	MARGATE
1443		8835400304	169084	MARGATE,BLACK	Anisotremus surinamensis	BLACK MARGATE
1444		8835400113	169069	GRUNT,BLUESTRIPED	Haemulon sciurus	GRUNT, BLUESTRIPED
1445		8835400108	169065	GRUNT,FRENCH	Haemulon flavolineatum	GRUNT, FRENCH
1446		8835400101	169058	GRUNT,TOMTATE	Haemulon aurolineatum	GRUNT, TOMTATE
1447		8835400111	169067	GRUNT, COTTONWICK	Haemulon melanurum	GRUNT, COTTONWICK
1448		8835400110	169066	GRUNT,SPANISH	Haemulon macrostomum	GRUNT, SPANISH
1449		8835400107	169064	GRUNT, SMALLMOUTH	Haemulon chrysaerygureum	GRUNT, SMALLMOUTH
1452		8835400117	169074	GRUNT,SAILORS CHOICE	Haemulon parrai	GRUNT, SAILORS CHOICE

NMF	NMFS_NE	NODC	ITIS	NAME	SCIENTIFIC_NAME	AFS_NAME
1470	1470	8791031301	164744	HADDOCK	Melanogrammus aeglefinus	HADDOCK
1500	1500	860601	159753	HAGFISH	Myxinidae	HAGFISHES
1520	1520	8791031001	164730	HAKE,ATLANTIC,RED	Urophycis chuss	HAKE, RED
1531	1531	8791031003	164732	HAKE,ATLANTIC,WHITE	Urophycis tenuis	HAKE, WHITE
1542		8791040102	164792	HAKE,PACIFIC(WHITING)	Merluccius productus	HAKE, PACIFIC
1550	1550	87910310	164729	HAKE,ATLANTIC,RED & WHITE	Urophycis	HAKE,ATLANTIC,RED & WHITE
1560		8835510401	169522	HALFMOON	Medialuna californiensis	HALFMOON
1588	1590	8857041902	172933	HALIBUT,ATLANTIC	Hippoglossus hippoglossus	HALIBUT, ATLANTIC
1589		8857041901	172932	HALIBUT,PACIFIC	Hippoglossus stenolepis	HALIBUT, PACIFIC
1590		88570419	172931	HALIBUT,ATLANTIC & PACIFIC	Hippoglossus	HALIBUT,ATLANTIC & PACIFIC
1650	1650	8851030106	172570	HARVESTFISH	Peprilus alepidotus	HARVESTFISH
1670	1670	874701020102	161724	HERRING,ATLANTIC,SEA	Clupea harengus harengus	HERRING, ATLANTIC
1676		874701020101	161723	HERRING,PACIFIC,SEA	Clupea harengus pallasi	HERRING,PACIFIC
1681		8755010108	161942	HERRING,LAKE	Coregonus artedii	HERRING, LAKE OR CISCO
1683		8747010601	161743	HERRING,ROUND	Etrumeus teres	HERRING, ROUND
1685	1685	87470102	161721	HERRING,SEA (OBSOLETE CODE)	Clupea	HERRING,SEA
1687		8747010701	161748	HERRING,ATLANTIC THREAD	Opisthonema oglinum	HERRING, ATLANTIC THREAD
1689		874701	161700	HERRINGS,UNC	Clupeidae	HERRINGS
1710	1710	875601	162057	HERRING SMELT	Argentinidae	ARGENTINES
1730	1730	8747010103	161704	HICKORY SHAD	Alosa mediocris	SHAD, HICKORY
1760	1280	8858030101	172982	HOGCHOKER	Trinectes maculatus	HOGCHOKER
1790	1790	8839010901	170566	HOGFISH	Lachnolaimus maximus	HOGFISH
1799		883528	168584	JACKS	Carangidae	JACKS
1800		8835280304	168610	HORSE-EYE JACK	Caranx latus	JACK, HORSE-EYE
1803		8835280301	168606	JACK, YELLOW	Caranx bartholomaei	JACK, YELLOW
1805		8835280307	168613	BLACK JACK	Caranx lugubris	JACK, BLACK
1807		8835280202	168602	AFRICAN POMPANO	Alectis ciliaris	POMPANO, AFRICAN
1810		8835280803	168691	ALMACO JACK	Seriola rivoliana	JACK, ALMACO
1811		8835280308	168614	BAR JACK	Caranx ruber	JACK, BAR
1812		8835280801	168689	GREATER AMBERJACK	Seriola dumerili	AMBERJACK, GREATER
1814		8835281301	168738	RAINBOW RUNNER	Elagatis bipinnulata	RUNNER, RAINBOW
1815		8835280802	168690	LESSER AMBERJACK	Seriola fasciata	AMBERJACK, LESSER
1817		8835280804	168693	BANDED RUDDERFISH	Seriola zonata	RUDDERFISH, BANDED
1820		8835280101	168586	JACK MACKEREL	Trachurus symmetricus	JACK MACKEREL
1830		8835441202	169314	JACKKNIFE FISH	Equetus lanceolatus	JACKKNIFE-FISH
1850		8835020401	167695	JEWFISH	Epinephelus itajara	JEWFISH
1880	1880	8811030201	166283	JOHN DORY	Zenopsis ocellata	DORY, AMERICAN JOHN
1938		8850030503	172437	MACKEREL,CERO	Scomberomorus regalis	MAVKEREL,CERO
1939		8850030501	172435	MACKEREL,KING	Scomberomorus cavalla	MACKEREL,KING
1940	1940	88500305	172434	MACKEREL,KING AND CERO	Scomberomorus	MACKEREL,KING AND CERO
1970	1970	88354406	169273	KING WHITING	Menticirrhus	KING WHITING
2000		8755010403	162002	LAKE TROUT	Salvelinus namaycush	TROUT, LAKE
2030		8603010301	159722	LAMPREY	Petromyzon marinus	LAMPREY, SEA
2031		8603010211	159713	LAMPREY,PACIFIC	Lampetra tridentata	LAMPREY, PACIFIC
2035		876209	162523	LANCETFISHES	Alepisauridae	LANCETFISHES
2060	2060	88450101	171671	LAUNCES	Ammodytes	LAUNCES

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2070		883541	169129	EMPERORS,UNC	Lethrinidae	EMPERORS,UNC
2090	2090	8827010201	167116	LINGCOD	Ophiodon elongatus	LINGCOD
2095		8835280701	168680	LOOKDOWN	Selene vomer	LOOKDOWN
2100	2100	8831091501	167612	LUMPFISH	Cyclopterus lumpus	LUMPFISH
2116		8827010501	167120	MACKEREL,ATKA	Pleurogrammus monoptyerygius	ATKA MACKEREL
2120	2120	8850030302	172414	MACKEREL,ATLANTIC	Scomber scombrus	MACKEREL, ATLANTIC
2150	2150	8850030301	172412	MACKEREL,CHUB (THIMBLE-EYE, PACIFIC)	Scomber japonicus	MACKEREL, CHUB
2151		8850030701	172455	MACKEREL,BULLET	Auxis rochei	MACKEREL, BULLET
2160		8835281201	168724	SCAD,MACKEREL	Decapterus macarellus	SCAD, MACKEREL
2162		88500303	172411	MACKEREL,UNC. (SCOMBER)	Scomber	MACKEREL,UNC. (SCOMBER)
2174		8850060202	172492	MARLIN,BLACK	Makaira indica	MARLIN, BLACK
2176		8850060306	172504	MARLIN,STRIPED	Tetrapturus audax	MARLIN, STRIPED
2177	2161	8850060301	172499	MARLIN,WHITE	Tetrapturus albidus	MARLIN, WHITE
2179	2171	8850060201	172491	MARLIN,BLUE	Makaira nigricans	MARLIN, BLUE
2180	2181	885006	172486	MARLIN,UNC	Istiophoridae	BILLFISHES
2210	2210	87470104	161731	MENHADEN	Brevoortia	MENHADEN, ATLANTIC
2227		8776011802	163524	MINNOWS,SQUAWFISH, SACRAMENTO	Ptychocheilus grandis	SQUAWFISH, SACRAMENTO
2228		8776013001	163569	MINNOWS,HITCH	Lavinia exilicauda	HITCH
2229		8776013501	163587	MINNOWS,HARDHEAD	Mylopharodon conocephalus	HARDHEAD
2230		877601	163342	MINNOWS	Cyprinidae	CARPS AND MINNOWS
2250		883539	169013	MOJARRAS	Gerreidae	MOJARRAS
2280		875101	161903	MOONEYE	Hiodontidae	MOONEYES
2290		8847014701	171967	MUDSUCKER,LONGJAW	Gillichthys mirabilis	LONGJAW MUDSUCKER
2310		8835280705	168684	MOONFISH,ATLANTIC	Selene setapinnis	MOONFISH, ATLANTIC
2341	2341	8836010101	170335	MULLET,STRIPED	Mugil cephalus	MULLET, STRIPED
2346		8836010102	170336	MULLET,SILVER	Mugil curema	MULLET, WHITE
2347		883601	170333	MULLETS	Mugilidae	MULLETS
2348		8836010104	170338	MULLET, CARIBBEAN	Mugil liza	LIZA
2370		8804040203	165647	MUMMICHOG	Fundulus heteroclitus	MUMMICHOG
2400	2400	8826010139	166745	OCEAN PERCH,ATLANTIC (REDFISH)	Sebastes marinus	REDFISH OR OCEAN PERCH
2410		8826010102	166707	OCEAN PERCH,PACIFIC	Sebastes alutus	ROCKFISH, PACIFIC OCEAN PERCH
2420	2420	8826010301	166787	BLACK BELLIED ROSEFISH	Helicolenus dactylopterus	ROSEFISH, BLACKBELLY
2500	2500	8793011601	165318	OCEAN POUT	Macrozoarces americanus	POUT, OCEAN
2501	3850	8850010301	172362	ESCOLAR	Lepidocybium flavobrunneum	ESCOLAR
2502		8850010401	172364	OILFISH	Ruvettus pretiosus	OILFISH
2503	2490	8813010102	166326	OPAH	Lampris guttatus	OPAH
2504		8850010201	172360	SNAKE MACKEREL	Gempylus serpens	SNAKE MACKEREL
2505		8835510201	169515	OPALEYE	Girella nigricans	OPALEYE
2510		8729020101	161088	PADDLEFISH	Polyodon spathula	PADDLEFISH
2520		883903	170809	PARROTFISH	Scaridae	PARROTFISHES
2525		8835350403	168840	CRIMSON ROVER	Erythrocles monodi	CRIMSON ROVER
2530		883560	169735	SURFPERCH,PACIFIC	Embiotocidae	SURFPERCHES
2531		8835600201	169739	PERCH,SHINER	Cymatogaster aggregata	PERCH, SHINER

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2532		8835600301	169744	SEAPERCH,STRIPED	<i>Embiotoca lateralis</i>	SEAPERCH, STRIPED
2533		8835600302	169745	PERCH,BLACK	<i>Embiotoca jacksoni</i>	PERCH, BLACK
2534		8835600401	169747	SURFPERCH,WALLEYE	<i>Hyperprosopon argenteum</i>	SURFPERCH, WALLEYE
2535		8835600402	169748	SURFPERCH,SILVER	<i>Hyperprosopon ellipticum</i>	SURFPERCH, SILVER
2536		8835600501	169751	SEAPERCH,WHITE	<i>Phanerodon furcatus</i>	SEAPERCH, WHITE
2537		8835600601	169754	PERCH,NILE	<i>Rhacochilus vacca</i>	PERCH, PILE
2538		8835600602	169755	SEAPERCH,RUBBERLIP	<i>Rhacochilus toxotes</i>	SEAPERCH, RUBBERLIP
2539		8835600701	169757	SURFPERCH,REDTAIL	<i>Amphistichus rhodoterus</i>	SURFPERCH, REDTAIL
2540		8835600702	169758	SURFPERCH,BARRED	<i>Amphistichus argenteus</i>	SURFPERCH, BARRED
2541		8835600703	169759	SEAPERCH,CALICO	<i>Amphistichus koelzi</i>	SURFPERCH, CALICO
2542		8835600801	169761	SEAPERCH,RAINBOW	<i>Hypsurus caryi</i>	SEAPERCH, RAINBOW
2543		8835601002	169766	PERCH,DWARF	<i>Micrometrus minimus</i>	PERCH, DWARF
2544		8835601101	169769	SEAPERCH,PINK	<i>Zalembeus rosaceus</i>	SEAPERCH, PINK
2550		8835280902	168709	PERMIT	<i>Trachinotus falcatus</i>	PERMIT
2580	2580	8835400201	169077	PIGFISH	<i>Orthopristis chrysoptera</i>	PIGFISH
2610		875801	162137	PIKES OR PICKERELS	Esocidae	PIKES
2640		8835281501	168742	PILOTFISH	<i>Naucrates ductor</i>	PILOTFISH
2670		8835430201	169187	PINFISH	<i>Lagodon rhomboides</i>	PINFISH
2690	2691	8791030901	164727	POLLOCK,ATLANTIC	<i>Pollachius virens</i>	POLLOCK
2692		8791030701	164722	POLLOCK,WALLEYE(ALASKA)	<i>Theragra chalcogramma</i>	POLLOCK, WALLEYE
2710		883571	170287	POMFRETS	Bramidae	POMFRETS
2720	2720	8835280901	168708	POMPANO	<i>Trachinotus carolinus</i>	POMPANO, FLORIDA
2721		8851030101	172565	POMPANO,PACIFIC	<i>Pepnilus simillimus</i>	POMPANO, PACIFIC
2750		8835400306	169086	PORKFISH	<i>Anisotremus virginicus</i>	PORKFISH
2760		886101	173283	PUFFERS	Tetraodontidae	PUFFERS
2765		8839010709	170510	PUDDINGWIFE (WRASSE)	<i>Halichoeres radiatus</i>	PUDDINGWIFE (WRASSE)
2810		8776040201	163917	QUILLBACK	<i>Carpiodes cyprinus</i>	QUILLBACK
2820		8835442501	169362	QUEENFISH	<i>Seriphus politus</i>	QUEENFISH
2840		8716020101	161015	RATFISH	<i>Hydrolagus collicii</i>	RATFISH SPOTTED
2850		8755010211	161989	RAINBOW TROUT,FW	<i>Oncorhynchus mykiss</i>	TROUT, RAINBOW
2860		8713	160806	RAYS,UNC	RAJIFORMES	RAYS,UNC
2861		8713030101	160833	RAY,PACIFIC ELECTRIC	<i>Torpedo californica</i>	RAY, PACIFIC ELECTRIC
2862		871305	160946	STINGRAYS	Dasyatidae	STINGRAYS
2863		8713070202	160981	RAY,BAT	<i>Myliobatis californica</i>	RAY, BAT
2865		88352701	168568	REMORA	Remora	REMORA
2870		8776012801	163565	ROACH,CALIFORNIA	<i>Hesperoleucus symmetricus</i>	CALIFORNIA ROACH
2900		8835160201	168097	ROCK BASS,FW	<i>Ambloplites rupestris</i>	BASS, ROCK
2927		8835021602	167832	BASS,KELP	<i>Paralabrax clathratus</i>	BASS, KELP
2928		8835021603	167833	SAND BASS,SPOTTED	<i>Paralabrax maculatofasciatus</i>	SAND BASS, SPOTTED
2929		8835021604	167834	SAND BASS,BARRED	<i>Paralabrax nebulifer</i>	SAND BASS, BARRED
2930		88350216	167830	ROCK BASSES,PACIFIC	Paralabrax	ROCK BASSES,PACIFIC
2931		8826010121	166727	ROCKFISH,BLACK	<i>Sebastes melanops</i>	ROCKFISH, BLACK
2932		8826010127	166733	ROCKFISH,BOCACCIO	<i>Sebastes paucispinis</i>	ROCKFISH, BOCACCIO
2933		8826010103	166708	ROCKFISH,BROWN	<i>Sebastes auriculatus</i>	ROCKFISH, BROWN
2934		8826010125	166731	ROCKFISH,CHINA	<i>Sebastes nebulosus</i>	ROCKFISH, CHINA
2935		8826010117	166722	ROCKFISH,CHILLIPEPPER	<i>Sebastes goodei</i>	ROCKFISH, CHILIPEPPER
2936		8826010128	166734	ROCKFISH,CANARY	<i>Sebastes pinniger</i>	ROCKFISH, CANARY

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2937		8826010149	166754	ROCKFISH,COWCOD	Sebastes levis	ROCKFISH, COWCOD
2938		8826010122	166728	ROCKFISH,BLACKGILL	Sebastes melanostomus	ROCKFISH, BLACKGILL
2939		8826010124	166730	ROCKFISH,BLUE	Sebastes mystinus	ROCKFISH, BLUE
2940		8826010110	166715	ROCKFISH,DARKBLOTCHED	Sebastes crameri	ROCKFISH, DARKBLOTCHED
2941		8826010130	166736	ROCKFISH,REDSTRIPED	Sebastes proriger	ROCKFISH, REDSTRIPE
2942		8826010138	166744	ROCKFISH,SHARPCHIN	Sebastes zacentrus	ROCKFISH, SHARPCHIN
2943		8826010106	166711	ROCKFISH,SILVERGRAY	Sebastes brevispinis	ROCKFISH, SILVERGRAY
2944		8826010111	166716	ROCKFISH,SPLITNOSE	Sebastes diploproa	ROCKFISH, SPLITNOSE
2945		8826010119	166725	ROCKFISH,SHORTBELLY	Sebastes jordani	ROCKFISH, SHORTBELLY
2946		8826010134	166740	ROCKFISH,YELLOWEYE	Sebastes ruberrimus	ROCKFISH, YELLOWEYE
2947		8826010131	166737	ROCKFISH,YELLOWMOUTH	Sebastes reedi	ROCKFISH, YELLOWMOUTH
2948		8826010115	166720	ROCKFISH,YELLOWTAIL	Sebastes flavidus	ROCKFISH, YELLOWTAIL
2949		8826010114	166719	ROCKFISH,WIDOW	Sebastes entomelas	ROCKFISH, WIDOW
2958		8826010201	166783	THORNYHEAD,SHORTSPINE	Sebastolobus alascanus	THORNYHEAD, SHORTSPINE
2959		882601	166704	SCORPIONFISH-THORNYHEADS	Scorpaenidae	SCORPIONFISHES
2960		88260101	166705	ROCKFISHES	Sebastes	ROCKFISHES
2961		8826010104	166709	ROCKFISH,AURORA	Sebastes aurora	ROCKFISH, AURORA
2962		8826010105	166710	ROCKFISH,REDBANDED	Sebastes babcocki	ROCKFISH, REDBANDED
2963		8826010108	166713	ROCKFISH,COPPER	Sebastes caurinus	ROCKFISH, COPPER
2964		8826010112	166717	ROCKFISH,GREENSTRIPED	Sebastes elongatus	ROCKFISH, GREENSTRIPED
2965		8826010123	166729	ROCKFISH,VERMILION	Sebastes miniatus	ROCKFISH, VERMILION
2966		8826010132	166738	ROCKFISH,ROSY	Sebastes rosaceus	ROCKFISH, ROSY
2967		8826010135	166741	ROCKFISH,STRIPTAIL	Sebastes saxicola	ROCKFISH, STRIPE TAIL
2968		8826010142	166747	ROCKFISH,KELP	Sebastes atrovirens	ROCKFISH, KELP
2969		8826010143	166748	ROCKFISH,GREENSPOTTED	Sebastes chlorostictus	ROCKFISH, GREENSPOTTED
2970		8826010144	166749	ROCKFISH,STARRY	Sebastes constellatus	ROCKFISH, STARRY
2971		8826010145	166750	ROCKFISH,CALICO	Sebastes dalli	ROCKFISH, CALICO
2972		8826010146	166751	ROCKFISH,PINK	Sebastes eos	ROCKFISH, PINK
2973		8826010147	166752	ROCKFISH,BRONZESPOTTED	Sebastes gilli	ROCKFISH, BRONZESPOTTED
2974		8826010148	166753	ROCKFISH,SQUARESPOT	Sebastes hopkinsi	ROCKFISH, SQUARESPOT
2975		8826010152	166757	ROCKFISH,SPECKLED	Sebastes ovalis	ROCKFISH, SPECKLED
2976		8826010153	166758	ROCKFISH,CHAMELEON	Sebastes phillipsi	ROCKFISH, CHAMELEON
2977		8826010154	166759	ROCKFISH,GRASS	Sebastes rastrelliger	ROCKFISH, GRASS
2978		8826010155	166760	ROCKFISH,FLAG	Sebastes rubrivinctus	ROCKFISH, FLAG
2979		8826010156	166761	ROCKFISH,BANK	Sebastes rufus	ROCKFISH, BANK
2980		8826010158	166763	ROCKFISH,OLIVE	Sebastes serranoides	ROCKFISH, OLIVE
2981		8826010159	166764	ROCKFISH,TREEFISH	Sebastes serripes	TREEFISH
2982		8826010160	166765	ROCKFISH,HONEYCOMB	Sebastes umbrosus	ROCKFISH, HONEYCOMB
2983		8826010161	166766	ROCKFISH,WHITEBELLY	Sebastes vexillaris	ROCKFISH, WHITEBELLY
2984		8826010162	166767	ROCKFISH,GOPHER	Sebastes carnatus	ROCKFISH, GOPHER
2985		8826010163	166768	ROCKFISH,SWORDSPINE	Sebastes ensifer	ROCKFISH, SWORDSPINE
2986		8826010165	166770	ROCKFISH,PINKROSE	Sebastes simulator	ROCKFISH, PINKROSE
2987		8826010166	166771	ROCKFISH,GREENBLOTCHED	Sebastes rosenblatti	ROCKFISH, GREENBLOTCHED
2988		8826010168	166773	ROCKFISH,BLACK-AND-YELLOW	Sebastes chrysomelas	ROCKFISH, BLACK-AND-YELLOW
2990		883551	169503	RUDDERFISH (SEA CHUBS)	Kyphosidae	SEA CHUBS
2996		8835282201	168764	RUNNER	Scombroides sancti-petri	LEATHER-BACK
3019		8826010202	166784	THORNYHEAD,LONGSPINE	Sebastolobus altivelis	THORNYHEAD, LONGSPINE

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3020		8827020101	167123	SABLEFISH	Anoplopoma fimbria	SABLEFISH
3026		8850060101	172488	SAILFISH	Istiophorus platypterus	SAILFISH
3050	3050	8755010305	161996	SALMON,ATLANTIC	Salmo salar	SALMON, ATLANTIC
3080	3080	8755010206	161980	SALMON,PACIFIC,KING	Oncorhynchus tshawytscha	SALMON, CHINOOK
3081		8755010202	161976	SALMON,PACIFIC,CHUM	Oncorhynchus keta	SALMON, CHUM
3082	3060	8755010201	161975	SALMON,PACIFIC,PINK	Oncorhynchus gorbuscha	SALMON, PINK
3083		8755010205	161979	SALMON,PACIFIC,SOCKEYE	Oncorhynchus nerka	SALMON, SOCKEYE
3084	3070	8755010203	161977	SALMON,PACIFIC,COHO	Oncorhynchus kisutch	SALMON, COHO
3085	3090	87550102	161974	SALMON,PACIFIC	Oncorhynchus	SALMON,PACIFIC,UNC
3110	3110	8835021002	167793	SAND PERCH	Diplectrum formosum	SAND PERCH
3111		8835021005	167796	SAND PERCH,DWARF	Diplectrum bivittatum	SAND PERCH, DWARF
3140		8747010301	161729	SARDINE,PACIFIC	Sardinops sagax	SARDINE, PACIFIC
3170		8835200402	168509	SAUGER	Stizostedion canadense	SAUGER
3196	3196	8803030201	165612	SAURY,ATLANTIC	Scomberesox saurus	SAURY, ATLANTIC
3198		8803030101	165609	SAURY,PACIFIC	Cololabis saira	SAURY, PACIFIC
3220		880303	165607	SAURY	Scomberesocidae	SAURIES
3230		8713010101	160809	SAWFISH	Pristis pectinata	SAWFISH, SMALLTOOTH
3236		88352812	168723	SCADS(EXCEPT BIGEYE)	Decapterus	SCADS
3237	3310	8835280102	168587	SCADS,ROUGH	Trachurus lathami	ROUGH SCAD
3260	3260	883102	167196	SCULPINS	Cottidae	SCULPINS
3261		882601	166704	SCORPIONFISHES	Scorpaenidae	SCORPIONFISHES
3262		8831021608	167298	SCULPIN,YELLOWFIN	Icelinus quadriseriatus	SCULPIN, YELLOWCHIN
3263		8826010402	166794	SPINYCHEEK SCORPIONFISH	Neomerinthe hemingwayi	SCORPIONFISH, SPINYCHEEK
3264		8831021801	167302	PACIFIC STAGHORN	Leptocottus armatus	SCULPIN, PACIFIC STAGHORN
3265		8826010614	166825	SPOTTED SCORPIONFISH	Scorpaena plumieri	SCORPIONFISH, SPOTTED
3270	3270	8831021503	167289	SEA RAVEN	Hemitripterus americanus	SEA RAVEN
3289	3296	883543	169180	SCUPS OR PORGIES	Sparidae	SCUPS OR PORGIES
3298		8835430101	169182	SCUP	Stenotomus chrysops	SCUP
3299		8835430102	169183	PORGY, LONGSPINE	Stenotomus caprinus	PORGY, LONGSPINE
3300		8835430601	169207	PORGY,RED	Pagrus pagrus	PORGY, RED
3304		8835430503	169198	PORGY,SAUCEREYE	Calamus calamus	PORGY, SAUCEREYE
3305		8835430501	169196	PORGY,GRASS	Calamus arctifrons	PORGY,GRASS
3306		8835430505	169200	PORGY,WHITEBONE	Calamus leucosteus	PORGY, WHITEBONE
3308		8835430506	169201	PORGY,KNOBBED	Calamus nodosus	PORGY, KNOBBED
3310		8835430508	169203	PORGY,LITTLEHEAD	Calamus proridens	PORGY, LITTLEHEAD
3312		8835430502	169197	PORGY,JOLTHEAD	Calamus bajonado	PORGY, JOLTHEAD
3314		8835430401	169192	PINFISH,SPOTTAIL	Diplodus holbrooki	PINFISH, SPOTTAIL
3351	3351	8835020301	167687	SEA BASSE,ATLANTIC,	Centropristis striata	SEA BASS, BLACK
3361		8835022901	167918	SEA BASS,PACIFIC,	Stereolepis gigas	SEA BASS, GIANT
3362		8835020305	167691	SEA BASS,ROCK	Centropristis philadelphica	SEA BASS, ROCK
3370		8835442901	169387	SEA BASS,PACIFIC,WHITE	Atractoscion nobilis	SEABASS, WHITE
3371		8835021101	167798	SPANISH FLAG	Gonioplectrus hispanus	SPANISH FLAG
3373		8835021202	167801	RED BARBIER	Hemanthias vivanus	BARBIER, RED
3374		8835021201	167800	LONGTAIL BASS	Hemanthias leptus	BASS, LONGTAIL
3375		8835020304	167690	SEA BASS,BANK	Centropristis ocyurus	SEA BASS, BANK
3380		877718	164157	SEA CATFISH	Ariidae	SEA CATFISHES
3410	3410	882602	166972	SEA ROBINS	Triglidae	SEAROBINS

NMF	NMFS_NE	NODC	ITIS	NAME	SCIENTIFIC_NAME	AFS_NAME
3441	3441	8835440104	169241	SEA TROUT,GRAY	<i>Cynoscion regalis</i>	WEAKFISH
3447	3450	8835440102	169239	SEA TROUT,SPOTTED	<i>Cynoscion nebulosus</i>	SEATROUT, SPOTTED
3455		8835440106	169243	SEA TROUT,WHITE	<i>Cynoscion arenarius</i>	SEATROUT, SAND
3470		8747010502	161738	SHAD,THREADFIN	<i>Dorosoma petenense</i>	SHAD, THREADFIN
3471	3471	8747010101	161702	SHAD,BUCK	<i>Alosa sapidissima</i>	SHAD, AMERICAN BUCK
3475	3488	8709	160602	SHARK,NURSE	<i>Squaliformes</i>	SHARK,UNC
3475	3548	8709	160602	SHARK,THRESHER BIGEYE,FINS	<i>Squaliformes</i>	SHARK,UNC
3475	3558	8709	160602	SHARK,Squaliformes, UNC.	<i>Squaliformes</i>	SHARK,UNC
3476	3512	8708020401	160230	SHARK,DOGFISH,SMOOTH	<i>Mustelus canis</i>	SHARK, SMOOTH DOGFISH
3478		8708020516	160346	SHARK,NARROWTOOTH	<i>Carcharhinus brachyurus</i>	SHARK, NARROWTHOOTH
3479		8708020512	160340	SHARK,SMALLTAIL	<i>Carcharhinus porosus</i>	SHARK, SMALLTAIL
3480	3481	8707100101	159977	SHARK,NURSE	<i>Ginglymostoma cirratum</i>	SHARK, NURSE
3481		8708020531	160409	SHARK,FINETOOTH	<i>Carcharhinus isodon</i>	SHARK, FINETOOTH
3482	3491	8707030101	159878	SHARK,SAND TIGER	<i>Odontaspis taurus</i>	SHARK, SAND TIGER
3483		8708030101	160502	SHARK,BONNETHEAD	<i>Sphyrna tiburo</i>	SHARK, BONNETHEAD
3484	4960	8707120101	159907	SHARK,BASKING	<i>Cetorhinus maximus</i>	SHARK, BASKING
3485		8708020504	160304	SHARK,BLACKNOSE	<i>Carcharhinus acronotus</i>	SHARK, BLACKNOSE
3486	3498	8707030101	159878	SHARK,SAND TIGER	<i>Odontaspis taurus</i>	SHARK,SAND TIGER FINS
3487	4828	8708020503	160289	SHARK,SANDBAR	<i>Carcharhinus plumbeus</i>	SHARK, SANDBAR
3488	4948	8708020301	160200	SHARK,ATLANTIC SHARPNOSE	<i>Rhizoprionodon terraenovae</i>	SHARK, ATLANTIC SHARPNOSE
3489	4848	8708020501	160268	SHARK,DUSKY FINS	<i>Carcharhinus obscurus</i>	SHARK, DUSKY
3490		8708020511	160336	SHARK,REEF	<i>Carcharhinus perezii</i>	SHARK, REEF
3491	4831	8708020505	160307	SHARK,BIGNOSE	<i>Carcharhinus altimus</i>	SHARK, BIGNOSE
3492		8708020515	160345	SHARK,GALAPAGOS	<i>Carcharhinus galapagensis</i>	SHARK, GALAPAGOS
3493	4851	8708020506	160310	SHARK,SILKY	<i>Carcharhinus falciformis</i>	SHARK, SILKY
3494	4861	8708020532	160413	SHARK,NIGHT	<i>Carcharhinus signets</i>	SHARK, NIGHT
3495	4871	8708020507	160318	SHARK,BLACKTIP	<i>Carcharhinus limbatus</i>	SHARK, BLACKTIP
3496	4881	8708020530	160401	SHARK,SPINNER	<i>Carcharhinus brevipinna</i>	SHARK, SPINNER
3497	4891	8708020502	160275	SHARK,BULL	<i>Carcharhinus leucas</i>	SHARK, BULL
3498	4901	8708020508	160330	SHARK,OCEANIC WHITETIP	<i>Carcharhinus longimanus</i>	SHARK, OCEANIC WHITETIP
3499	3538	8707040401	159916	SHARK,THRESHER	<i>Alopius vulpinus</i>	SHARK, THRESHER
3500		87070404	159915	SHARK,THRESHER UNC	<i>Alopius</i>	THRESHER SHARKS
3501	4811	8707040302	159911	SHARK,PORBEAGLE	<i>Lamna nasus</i>	SHARK, PORBEAGLE
3502	3581	8707040502	159926	SHARK,LONGFIN MAKO	<i>Isurus paucus</i>	SHARK, LONGFIN MAKO
3503	3501	871001	160604	SHARK,DOGFISH	<i>Squalidae</i>	SHARK, DOGFISH
3504	4931	8708020601	160424	SHARK,BLUE	<i>Prionace glauca</i>	SHARK, BLUE
3505	3551	8707040501	159924	SHARK,BONITO(SHORTFIN MAKO)	<i>Isurus oxyrinchus</i>	SHARK, SHORTFIN MAKO
3506		8708020103	160187	SHARK,SOUPFIN	<i>Galeorhinus zyopterus</i>	SHARK, SOUPFIN
3507		8708020902	160448	SHARK,LEOPARD	<i>Traces semifasciata</i>	SHARK, LEOPARD
3508	3591	8701	159785	SHARK,UNC	<i>Chondrichthyes</i>	SHARK,UNC
3509	3531	8707040401	159916	SHARK,THRESHER	<i>Alopius vulpinus</i>	SHARK, THRESHER
3510	3541	8707040402	159921	SHARK,BIGEYE THRESHER	<i>Alopius superciliosus</i>	SHARK, BIGEYE THRESHER
3511	3511	8708020401	160230	SHARK,DOGFISH,SMOOTH	<i>Mustelus canis</i>	SHARK, SMOOTH DOGFISH
3512	4801	8707040101	159903	SHARK,WHITE	<i>Carcharodon carcharias</i>	SHARK, WHITE
3513	4821	8708020503	160289	SHARK,SANDBAR	<i>Carcharhinus plumbeus</i>	SHARK, SANDBAR
3514	4841	8708020501	160268	SHARK,DUSKY	<i>Carcharhinus obscurus</i>	SHARK, DUSKY
3515	4911	8708020201	160189	SHARK,TIGER	<i>Galeocerdo cuvieri</i>	SHARK, TIGER

NMF	NMFS_NE	NODC	ITIS	NAME	SCIENTIFIC_NAME	AFS_NAME
3516	4951	870803	160497	SHARK,HAMMERHEAD	Sphyrnidae	SHARK,HAMMERHEAD
3517	4921	8708020801	160433	SHARK,LEMON	Negaprion brevirostris	SHARK, LEMON
3518	4941	8708020301	160200	SHARK,ATLANTIC SHARPNOSE	Rhizoprionodon terraenovae	SHARK, ATLANTIC SHARPNOSE
3519		8711010101	160785	SHARK,PACIFIC ANGEL	Squatina californica	SHARK, PACIFIC ANGEL
3520		8755010501	162006	SELFISH	Stenotus leucichthys	ANCIEN
3521	3522	8710010201	160617	SHARK,DOGFISH,SPINY	Squalus acanthias	SHARK, SPINY DOGFISH
3522		8708030102	160505	SHARK,SMOOTH HAMMERHEAD	Sphyrna zygaena	SHARK, SMOOTH HAMMERHEAD
3523		8708030103	160508	SHARK,SCALLOPED HAMMERHEAD	Sphyrna lewini	SHARK, SCALLOPED HAMMERHEAD
3524		8708030104	160515	SHARK,GREAT HAMMERHEAD	Sphyrna mojarra	SHARK, GREAT HAMMERHEAD
3525	3508	871001	160604	SHARK,DOGFISH FINS	Squalidae	SHARK,DOGFISH
3526	4958	870803	160497	SHARK,HAMMERHEAD FINS	Sphyrnidae	SHARK,HAMMERHEAD
3527	4818	8707040302	159911	SHARK,PORBEAGLE FINS	Lamna nasus	SHARK, PORBEAGLE
3528		8705020101	159819	SHARK,SIXGILL	Hexanchus griseus	SHARK, SIXGILL
3529		8705020102	159826	SHARK,SIXGILL BIGEYE	Hexanchus vitulus	SHARK, SIXGILL BIGEYE
3530		8835442601	169364	SHEEPSHEAD,FW	Aplodinotus grunniens	DRUM, FRESHWATER
3531	3528	871001	160604	SHARK,DOGFISH SPINY FINS	Squalus acanthias	SHARK, SPINY DOGFISH
3560	3560	8835430301	169189	SHEEPSHEAD,ATLANTIC	Archosargus probatocephalus	SHEEPSHEAD
3570		8839013801	170744	SHEEPHEAD,CALIFORNIA	Semicossyphus pulcher	CALIFORNIA SHEEPSHEAD
3572		8710010601	160683	SHARK,DOGFISH COLLARED (COOKIE CUTTER)	Assists brasiliensis	SHARK, DOGFISH COLLARED
3574		8707040403	159922	SHARK,THRESHER PELAGIC	Alopius pelagicus	SHARK, PELAGIC THRESHER
3575		8708020404	160235	SHARK,GRAY SMOOTHHOUND	Mustelus californicus	SHARK, GRAY SMOOTHHOUND
3576		8708020405	160236	SHARK,BROWN SMOOTHHOUND	Mustelus Hen ley	SHARK, BROWN SMOOTHHOUND
3577		870502	159814	SHARK,COW	Hexanchidae	COW SHARKS
3578		8707030401	159897	SHARK,CROCODILE	Pseudo carcharias kamoharai	SHARK,CROCODILE
3580	3571	87070405	159923	SHARK,MAKO UNC	Isurus	SHARK,MAKO UNC
3581		8708020303	160206	SHARK,CARIBBEAN SHARPNOSE	Rhizoprionodon porosus	SHARK, CARIBBEAN SHARPNOSE
3582		8711010102	160787	SHARK,ATLANTIC ANGEL	Squatina dumerili	SHARK, ATLANTIC ANGEL
3583		8705020301	159844	SHARK,SEVENGILL BIGEYE	Heptranchias Perle	SHARK, SEVENGILL BIGEYE
3584		8707030103	159884	SHARK,BIGEYE SAND TIGER	Odontaspis noronhai	SHARK, TIGER BIGEYE SAND
3585		8707010101	159857	SHARK,WHALE	Rhincodon typus	SHARK, WHALE
3586		8704010101	159791	SHARK,HORN	Heterodontus Francesca	SHARK, HORN
3587		8705020202	159829	SHARK,SEVENGILL	Notoryctus cepedianum	SHARK, SEVENGILL
3588		8707040301	159910	SHARK,SALMON	Lamna dewdrops	SHARK, SALMON
3589		8708010501	160089	SHARK,SWELL	Cephaloscyllium ventriosum	SHARK, SWELL
3590		8850030506	172440	SIERRA	Scomberomorus sierra	PACIFIC SIERRA
3610	3610	8755030201	162035	CAPELIN	Mallotus villosus	CAPELIN
3620	3620	880502	165984	SILVERSIDES	Atherinidae	SILVERSIDES
3650	3650	871304	160845	SKATES	Rajidae	SKATES
3651		8713020201	160824	SKATE,THORNBACK	Platyrhinoidis triseriata	THROWBACK
3652	3670	8713040103	160848	SKATE,BIG	Raja biloculate	SKATE, BIG
3653		8713040104	160849	SKATE,CALIFORNIA	Raja in ornata	SKATE, CALIFORNIA
3654	3660	8713040114	160856	SKATE,LITTLE	Raja erinacea	SKATE, LITTLE
3655	3680	8713040115	160857	SKATE,BARNDOOR	Raja laevis	SKATE, BARNDOOR
3680		88030203	165570	SKIPPERS	Tylosurus	SKIPPERS
3710	3710	8755030302	162041	SMELT,RAINBOW (AT)	Osmerus mordax	SMELT, RAINBOW

NMF	NMFS_NE	NODC	ITIS	NAME	SCIENTIFIC_NAME	AFS_NAME
3731		8755030501	162051	SMELT,EULACHON	Thaleichthys pacificus	EULACHON
3732		875503	162028	SMELTS	Osmeridae	SMELTS
3733		8755030101	162030	SMELT,SURF	Hypomesus pretiosus	SMELT, SURF
3734		8755030401	162048	SMELT,NIGHT	Spirinchus stearnsi	SMELT, NIGHT
3735		8755030601	162053	SMELT,WHITEBAIT	Allomerous elongatus	SMELT, WHITEBAIT
3755		8835360201	168899	SNAPPER,BLACK	Apsilus dentatus	SNAPPER, BLACK
3756		8835360701	168913	HENCHMAN	Pristipomoides aquilonaris	HENCHMAN
3757		8835360106	168852	SNAPPER,BLACKFIN	Lutjanus bacchanalia	SNAPPER, BLACKING
3758		8835360113	168861	SNAPPER,SILK	Lutjanus vivanus	SNAPPER, SILK
3759		8835360101	168847	SNAPPER,CUBERA	Lutjanus Cynopterus	SNAPPER, CUBEBA
3760		8835360102	168848	SNAPPER,GRAY AT (MANGROVE)	Lutjanus griseus	SNAPPER, GRAY
3761		8835360112	168860	SNAPPER,LANE	Lutjanus synagris	SNAPPER, LANE
3763		8835360103	168849	SNAPPER,MUTTON	Lutjanus analis	SNAPPER, MUTTON
3764	3764	8835360107	168853	SNAPPER,RED	Lutjanus campechianum	SNAPPER, RED
3765		8835360501	168909	SNAPPER,VERMILION	Rhomboplites atrorubens	SNAPPER, VERMILION
3767		8835360401	168907	SNAPPER,YELLOWTAIL	Ocyurus chrysurus	SNAPPER, YELLOWTAIL
3768		883536	168845	SNAPPERS,UNC	Lutjanidae	SNAPPERS
3769		8835360801	168926	SNAPPER,JOBFISH or UK	Apron virescent	JOBFISH, GREEN (HAWAIIAN)
3770		8835360301	168902	SNAPPER,QUEEN	Stelis ocellatus	SNAPPER, QUEEN
3771		8835360104	168850	SNAPPER,SCHOOLMASTER	Lutjanus apodus	SCHOOLMASTER
3772		8835360110	168858	SNAPPER,MAHOGONY	Lutjanus mahogani	SNAPPER, MAHOGANY
3777		8835360501	168909	SNAPPER,VERMILION	Rhomboplites atrorubens	SNAPPER, VERMILION
3780		8835360111	168859	SNAPPER,CARIBBEAN RED	Lutjanus purpureus	SNAPPER CARIBBEAN RED
3790		8835010105	167648	SNOOK	Centropomus undecimalis	SNOOK
3810	3810	883552	169537	SPADEFISH	Ephippidae	SPADEFISHES
3840	3840	8850030502	172436	SPANISH MACKEREL	Scomberomorus maculatus	MACKEREL, SPANISH
3841		8850030504	172438	GULF SIERRA	Scomberomorus concolor	GULF SIERRA
3870		8747011001	161763	SPANISH SARDINE	Sardinella aurita	SARDINE, SPANISH
4000		88500603	172498	SPEAR FISHES	Tetrapturus	SPEAR FISHES
4009		8850060303	172501	SPEARFISH,ROUNDSCALE	Tetrapturus George	SPEARFISH, ROUND SCALE
4010		8850060304	172502	SPEARFISH,LONGBILL	Tetrapturus pfluegeri	SPEARFISH, LONG BILL
4030		8776013902	163603	SPRIGTAIL	Pogonichthys microlepidotus	SPRIGTAIL
4060	4060	8835440401	169267	SPOT	Leiostomus xanthurus	SPOT
4090		87760118	163522	SQUAWFISH ES	Ptychocheilus	SQUAWFISH ES
4120		881008	166170	SQUIRRELFISHES	Holocentridae	SQUIRRELFISHES
4180	4180	8835750202	167680	STRIPED BASS	Morone saxatilis	BASS, STRIPED
4211		872901	161064	STURGEONS,UNC	Acipenseridae	STURGEONS
4212		8729010202	161082	STURGEON,SHOVELNOSE	Scaphirhynchus platyrhynchus	STURGEON, SHOVELNOSE
4213		8729010102	161067	STURGEON,GREEN	Acipenser medirostris	STURGEON, GREEN
4214		8729010103	161068	STURGEON,WHITE	Acipenser transmontanus	STURGEON, WHITE
4215	4220	8729010104	161069	STURGEON,SHORTNOSE	Acipenser brevirostrum	STURGEON, SHORTNOSE
4216	4200	8729010105	161070	STURGEON,ATLANTIC	Acipenser oxyrinchus	STURGEON, ATLANTIC
4230	4230	877604	163892	SUCKERS	Catostomidae	SUCKERS
4260	4260	883516	168093	SUNFISHES	Centrarchidae	SUNFISHES
4263		8861040101	173414	SUNFISH,OCEAN	mola	OCEAN SUNFISH
4265		884901	172250	SURGEON FISHES	Acanthuridae	SURGEON FISHES
4290	4290	88610102	173289	PUFFERS	Spheroidea	PUFFERS

NMF	NMFS_NE	NODC	ITIS	NAME	SCIENTIFIC_NAME	AFS_NAME
4320	4320	8850040101	172482	SWORDFISH	Xiphias gladius	SWORDFISH
4350	4350	8738020201	161116	TARPON	MELANOPS atlanticus	TARPON
4380	4380	8839010101	170479	TAUTOG	Tautoga onitis	TAUTOG
4410		8738010101	161111	TENPOUNDER	Elops saurus	LADYFISH
4411		8738010103	161113	TENPOUNDER (TARPON,HAWAIIAN)	Elops Hawaii Ensis	TARPON, HAWAIIAN
4450		883801	170445	THREADFIN	Polynemidae	THREADFIN
4460		88356104	169809	TILAPIA	Tilapia	TILAPIA
4470	4470	8835220201	168546	TILEFISH	Lopholatilus chamaeleonticeps	TILEFISH
4472		8835220105	168544	TILEFISH,GOLDFACE	Caulolatilus chrysops	TILEFISH, BOLDFACE
4474		8835220104	168543	TILEFISH,BLUELINE	Caulolatilus microns	TILEFISH, BLUELINE
4475	4472	8835220201	168546	TILEFISH,MEDIUM	Lopholatilus chamaeleonticeps	TILEFISH
4476		8835220102	168541	TILEFISH,BLACKLINE	Caulolatilus canapes	TILEFISH, BACK-LINE
4478		8835220301	168548	TILEFISH,SAND	Malacanthus plumieri	TILEFISH, SAND
4479		8835220103	168542	TILEFISH, ANCHOR	Caulolatilus intermedium	TILEFISH, ANCHOR
4480		883522	168537	TILEFISH,UNCLASSIFIED	Malacanthidae	TILEFISHES
4500	4510	878301	164412	TOADYISH	Batrachoididae	TOADYISH
4530	4530	8791030602	164720	TOM COD,ATLANTIC	Microgauss tomcat	TOMCAT, ATLANTIC
4531		8791030601	164719	TOMCOD,PACIFIC	Microgauss proximus	TOMCAT, PACIFIC
4560	4560	886002	173128	TRIGGER FISHES	Balistidae	LEATHERJACKET
4561		8860020201	173138	TRIGGERFISH,GRAY	Balistes caprices	TRIGGERFISH, GRAY
4562		8860020502	173170	TRIGGERFISH,OCEAN	Canthidermis sufflamen	TRIGGERFISH, OCEAN
4563		8860020202	173139	TRIGGERFISH,QUEEN	Balistes vetula	TRIGGERFISH, QUEEN
4590	4590	8835380101	169007	TRIPLETAIL	Lobotes surinamensis	TRIPLETAIL
4651	4701	8850030401	172419	TUNA,ALBACORE	Thunnus alalunga	TUNA, ALBACORE
4652	4670	8850030402	172421	TUNA,BLUEFIN,UNC	Thunnus thynnus	TUNA, BLUEFIN
4653	4681	8850030102	172402	TUNA,LITTLE (TUNNY)	Euthynnus aliterates	LITTLE TUNNY
4654	4661	8850030101	172400	TUNA,SKIPJACK	Euthynnus pelamis	TUNA, SKIPJACK
4655	4711	8850030403	172423	TUNA,YELLOWFIN	Thunnus albacares	TUNA, YELLOWFIN
4656	4657	88500304	172418	TUNA,UNC	Thunnus	TUNA,UNC
4657	4691	8850030405	172428	TUNA,BIGEYE	Thunnus obesus	TUNA, BIGEYE
4658	4641	8850030404	172427	TUNA,BLACKFIN	Thunnus atlanticus	TUNA, BLACKING
4659		8850030103	172403	TUNA,KAWAKAWA	Euthynnus affinis	KAVAKAVA
4660		8850030104	172405	TUNA,BLACK SKIPJACK	Euthynnus lineatus	TUNA,BLACK SKIPJACK
4661		8850030406	172430	TUNA,LONGTAIL	Thunnus Tangail	TUNA, LONGTAIL
4671	4671	8850030402	172421	TUNA,BLUEFIN	Thunnus thynnus	TUNA, BLUEFIN
4679	1580	8857041801	172930	GREENLAND TURBOT	Reinhardtius Hippoglossoides	HALIBUT, GREENLAND
4681		885704	172859	TURBOTS,UNC	Pleuronectidae	RIGHT EYE FLOUNDERS
4682		8857041603	172925	TURBOT,SPOTTED	Pleuronichthys Ritter	TURBOT,SPOTTED
4683		8857041604	172926	TURBOT,HORNYHEAD	Pleuronichthys verticalis	TURBOT, THORNYHEAD
4684		8857042201	172945	TURBOT,DIAMOND	Hypsopsetta guttulata	TURBOT, DIAMOND
4710	4720	8850030601	172451	WAHOO	Acanthocybium solandri	WAHOO
4740		8835020410	167704	GROUPER,WARSAW	Epinephelus nitrites	GROUPER, WARSAW
4800		8776012301	163537	GRASS CARP	Ctenopharyngodon Della	CARP, GRASS
5000		8835750204	167682	WHITE BASS,FW	Morone chrysops	BASS, WHITE
5031		8755010106	161941	WHITEFISH,COMMON	Coregonus clupeaformis	WHITEFISH, LAKE
5035		8755010601	162008	WHITEFISH,MENOMINEE	Prosopium cylindraceum	WHITEFISH, ROUND

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5040		8835220101	168540	WHITEFISH,OCEAN	Caulolatilus princeps	OCEAN WHITEFISH
5060	5060	8835750201	167678	WHITE PERCH	Morone americana	PERCH, WHITE
5070	5070	87910401	164790	HAKE,SILVER/OFFSHORE MIXED	Merluccius	HAKE,SILVER/OFFSHORE MIXED
5080	5080	8791040103	164793	HAKE,OFFSHORE UNC (WHITING,BLACK)	Merluccius albidus	HAKE, OFFSHORE SILVER
5090	5090	8791040101	164791	HAKE,SILVER UNC (WHITING)	Merluccius bilinearis	HAKE, SILVER
5120	5120	8842020103	171341	WOLFFISH,ATLANTIC	Anarhichas lupus	WOLFFISH, ATLANTIC
5126		8842020201	171345	WOLFFISH,PACIFIC	Anarhichthys ocellatus	WOLF-EEL
5131	5130	8835022801	167914	WRECKFISH	Polyprion americanus	WRECKFISH
5150		8835750205	167683	YELLOW BASS	Morone mississippiensis	BASS, YELLOW
5170	5170	8835200201	168469	YELLOW PERCH	Perca flavescens	PERCH, YELLOW
5190		883520040102	168508	YELLOW PIKE	Stizostedion vitreum	WALLEYE
5230		8835280806	168695	YELLOWTAIL,PACIFIC	Seriola Leland	YELLOWTAIL
5260	5260	8717	161030	FINFISH ES, MARLIN,UNC	Osteichthyes	FINFISHES,UNC FOR FOOD
5510		87770201	163996	CATFISH,AQUACULTURE	Ictalurus	CATFISHES & BULLHEADS
5530		8755010306	161997	TROUT,BROWN,AQUACULTURE	Salmo trutta	TROUT, BROWN
5531		8755010404	162003	TROUT,BROOK,AQUACULTURE	Salvelinus fontinalis	TROUT, BROOK
5532		8755010211	161989	TROUT,RAINBOW,AQUACULTURE	Oncorhynchus mykiss	TROUT, RAINBOW
5580		8755010206	161980	SALMON,KING,AQUACULTURE	Oncorhynchus tshawytscha	SALMON, CHINOOK
5581		8755010202	161976	SALMON,CHUM,AQUACULTURE	Oncorhynchus keta	SALMON, CHUM
5582		8755010201	161975	SALMON,PINK,AQUACULTURE	Oncorhynchus gorbuscha	SALMON, PINK
5583		8755010205	161979	SALMON,SOCKEYE,AQUACULTURE	Oncorhynchus nerka	SALMON, SOCKEYE
5584		8755010203	161977	SALMON,COHO,AQUACULTURE	Oncorhynchus kisutch	SALMON, COHO
5585		8755010208	161983	TROUT,CUTTHROAT,AQUACULTURE	Oncorhynchus clarki	TROUT, CUTTHROAT
5586		8755010305	161996	SALMON,ATLANTIC,AQUACULTURE	Salmo salar	SALMON, ATLANTIC
5587		875501	161931	SALMON,UNC,AQUACULTURE	Salmonidae	TROUTS
6000		6104010101	083691	BRINE SHRIMP EGGS	Artemia salina	BRINE SHRIMP
7000	7000	6189010301	098696	CRABS,BLUE,HARD	Callinectes sapidus	CRAB, BLUE
7060		6188030104	098675	CRAB,DUNGENESS	Cancer magister	CRAB, DUNGENESS
7080	7080	6189010701	098734	CRAB,GREEN	Caprinus maenad	CRAB, GREEN
7082		6188020201	098665	CRAB,HAIR	Erinaceus isenbeckii	CRAB, HAIR
7090		61830807	097934	CRAB,KING	Paralithodes	CRAB,KING
7091		6183080801	097941	CRAB,GOLDEN KING	Litotes aequispina	CRAB, GOLDEN KING
7100	7100	6189040101	098906	CRAB,RED AT	Gorin coincidence	CRAB, DEEP-SEA RED
7101		6189010801	098737	CRAB,RED PA	Podophthalmus vigil	CRAB,RED PA
7102		6189040104	098909	CRAB,GOLDEN	Gorin fawner	CRAB, DEEP-SEA GOLDEN
7110	7110	6188030107	098678	CRAB,JONAH	Cancer borealis	CRAB, JONAH
7120	7120	6188030108	098679	CRAB,ATLANTIC,ROCK	Cancer irroratus	CRAB, ATLANTIC ROCK
7140	7140	61880301	098671	CRAB,CANCER S.P. UNC	Cancer	CRAB,CANCER
7150		6188030101	098672	CRAB,PACIFIC,ROCK PA	Cancer productus	CRAB, RED ROCK
7176		6189021301	098811	CRAB,STONE	Menippe mercenaria	CRAB, FLORIDA STONE CLAWS
7183		6187010301	098428	CRAB,SNOW,OPILIO	Canachites opilio	CRAB, SNOW
7184		6187010302	098429	CRAB,SNOW,BAIRDI	Canachites Baird	CRAB, SOUTHERN TANNER
7185	7185	61870103	098427	CRAB,SNOW (TANNER)	Canachites	CRAB,SNOW (TANNER)
7187		618701	098417	CRAB,SPIDER	Majidae	SPIDER CRABS
7190	7130	6175	095599	CRAB,UNC	Decapoda	CRAB,UNC
7210	6181		097306	CRAWFISH,FW	Astacidae	CRAYFISHES OR CRAWFISHES

NMF	NMFS_NE	NODC	ITIS	NAME	SCIENTIFIC_NAME	AFS_NAME
7240	7240	5802010101	082703	HORSESHOE CRAB	Limulus polyphemus	HORSESHOE CRAB
7270	7270	6181010201	097314	LOBSTER,AMERICAN	Homarus americanus	LOBSTER, AMERICAN
7280		618202	097660	LOBSTER,SLIPPER(BULLDOZER)	Scyllaridae	LOBSTER, SLIPPER
7298		6182010107	199949	LOBSTER,PRONGHORN SPINY	Panulirus penicillatus	LOBSTER, PRONGHORN SPINY
7300		6182010101	097648	LOBSTER,SPINY	Panulirus argus	LOBSTER, CARIBBEAN SPINY
7302		6104010101	083691	SHRIMP,BRINE	Artemia salina	BRINE SHRIMP
7303		618304	097732	SHRIMP,GHOST (SAND)	Colonized	GHOST SHRIMP
7304		6183170101	098208	SHRIMP,SAND PACIFIC (BLUE MUD)	Upogebia pugettensis	SHRIMP, BLUE MUD
7305		61791102	096220	SHRIMP,FW	Macro brachium	SHRIMP,FW
7310	7380	6177010101	095605	SHRIMP,ATLANTIC & GULF,BROWN	Peneus Aztecs	SHRIMP, BROWN
7320		6177010102	095608	SHRIMP,ATLANTIC & GULF,PINK	Peneus duorarum	SHRIMP, PINK
7321		6177010104	095612	SHRIMP,ATLANTIC & GULF,PINKSPOT	Peneus brasiliensis	SHRIMP, PINKSPOT
7325		61770401	096027	SHRIMP,ROCK	Sechuana	ROCK SHRIMPS
7330		6177030301	095966	SHRIMP,ATLANTIC & GULF, ROYAL RED	Pleoticus robustus	SHRIMP, ROYAL RED
7338		6177010701	095750	SHRIMP,ATLANTIC & GULF, SEA BOBS	Xiphopenaeus Crary	SEABOB
7339		61770102	095647	SHRIMP,ATLANTIC & GULF, ROUGHNECK	Trachypenaeus	SHRIMP,ATLANTIC & GULF, ROUGHNECK
7340		6177010103	095610	SHRIMP,ATLANTIC & GULF,	Peneus setiferum	SHRIMP, WHITE
7350		6177010804	095759	SHRIMP,PINK-SPECKLED	Penaeopsis serrata	PINK-SPECKLED SHRIMP
7355	7355	6177050501	096071	SHRIMP,SCARLET	Plesiopenaeus edwardsianus	SCARLET SHRIMP
7360	7360	6179180101	096967	SHRIMP,ATLANTIC & GULF, MARLIN,UNC	Pandanus borealis	SHRIMP, NORTHERN
7370		617922	097106	SHRIMP,PACIFIC,BAY	Crangonidae	SHRIMP, BAY
7373		6179180106	096981	SHRIMP,COONSTRIPE	Pandanus hypsinotus	COONSTRIPE SHRIMP
7374		6179180204	096995	SHRIMP,SIDESTRIPE	Pandalopsis dispar	SIDE STRIPE SHRIMP
7375		6179180103	096970	SHRIMP,PACIFIC,OCEAN	Pandanus jordani	SHRIMP, OCEAN
7377		6177040109	096038	SHRIMP,RIDGEBACK	Sechuana indents	SHRIMP, PACIFIC ROCK
7378		6179180105	096979	SHRIMP,SPOT	Pandanus platy ceros	SHRIMP, SPOT
7381		6176	095600	SHRIMP,MARINE,OTHER	Decapoda, Dendrobranchiata	SHRIMP,MARINE,OTHER
7385	7370	6191	099140	MANTIS SHRIMPS	Stomatopoda	MANTIS SHRIMPS
7390		510203	069492	ABALONE,UNC	Haliotidae	ABALONE
7391		5102030113	069508	ABALONE,THREADED	Haliotis tuberculata	ABALONE,THREADED
7392		5102030101	069494	ABALONE,PINTO	Haliotis kamtschatkana	ABALONE,PINTO
7393		5102030102	069497	ABALONE,RED	Haliotis rufescens	ABALONE,RED
7394		5102030103	069498	ABALONE,BLACK	Haliotis cracherodii	ABALONE,BLACK
7395		5102030104	069499	ABALONE,PINK	Haliotis corrugate	ABALONE,PINK
7396		5102030105	069500	ABALONE,GREEN	Haliotis fulgens	ABALONE,GREEN
7397		5102030106	069501	ABALONE,FLAT	Haliotis walallensis	ABALONE,FLAT
7398		5102030107	069502	ABALONE,WHITE	Haliotis sorenseni	ABALONE,WHITE
7399		6182010103	097650	LOBSTER,CALIFORNIA SPINY	Panulirus interruptus	LOBSTER, CALIFORNIA SPINY
7420		5515220102	080873	CLAMS,PACIFIC,COCKLE	Clinocardium nuttallii	COCKLE, NUTTALL
7430	7430	5506010202	079342	CLAM,BLOOD ARC	Unitary ovalis	CLAM, ARC, BLOOD

NMF	NMFS_NE	NODC	ITIS	NAME	SCIENTIFIC_NAME	AFS_NAME
7450		5515320103	081248	CLAM,COQUINA	Donax variabilis	CLAM, VARIABLE CHICANE
7471		55154711	081495	CLAM,BUTTON	Mercenaria	CLAM,QUAHOG
7483		5515470201	081447	CLAM,PACIFIC,BUTTER	Saxidomus giganteus	CLAM, BUTTER
7484		55152502	080954	CLAM,PACIFIC,GAPER	Tress	CLAM,PACIFIC,GAPER
7486		5515470701	081464	CLAM,PACIFIC,LITTLENECK	Protothaca Sabinea	CLAM, PACIFIC LITTLENECK
7488	7488	5515471101	081496	CLAM,NORTHERN QUAHOG	mercenaria	CLAM, NORTHERN QUAHOG
7489		5515450201	081386	CLAM,PACIFIC,MANILA	Curricula manilensis	CLAM, MANILA
7500		5517060401	081777	CLAM,GEODUCK	Panopea generis	CLAM, PACIFIC GATWICK
7510	7481	55154711	081495	CLAM,HARD	Mercenaria	CLAM,QUAHOG
7520		5515471802	081579	CLAM,SUNRAY VENUS	Macrocallista nimbosa	CLAM, SUNRAY VENUS
7540	7540	5515390101	081343	CLAM,OCEAN QUAHOG	Arctica islandica	CLAM, OCEAN QUAHOG
7570		5515472002	081584	CLAM,PISMO	Tuvalu stultorum	CLAM, PISMO
7590		5515250401	080962	CLAM,RANGIA	Range cuneata	CLAM, ATLANTIC RANGE
7600	7600	5515290301	081022	CLAM,RAZOR,ATLANTIC	Ensis directa	CLAM, ATLANTIC JACKKNIFE
7605		5515290101	081008	CLAM,RAZOR,PACIFIC	Siliqua patula	CLAM, PACIFIC RAZOR
7610		5515290204	081019	CLAM,ROSY JACKKNIFE	Soled rosaceus	CLAM,ROSY JACKKNIFE
7630	7630	5517010201	081692	CLAM,SOFT	Mya arenaria	CLAM, SOFTSHELL
7650	7650	5515251001	080983	CHAR,ARCTIC SURF (SIMPSON)	Mactromeris polynyma	CHAR,ARCTIC SURF (SIMPSON)
7690	7690	5515250102	080944	CLAM,SURF	Spirula solidissima	CLAM, ATLANTIC SURF
7720	7640	55	079118	CLAM,UNC	Bivalvia	CLAMS OR BIVALVES
7721		5515290306	081027	CLAM,CALIFORNIA JACKKNIFE	Ensis Myra	CALIFORNIA JACKKNIFE
7750	7750	51035801	072555	SNAILS(CONCHS)	Strombus	SNAILS(CONCHS)
7751	7770	5105070101	074071	WHELK,KNOBBED	Busycon carica	WHELK, KNOBBED
7752	7780	5105070103	074075	WHELK,LIGHTNING	Busycon sin istrum	WHELK, LIGHTNING
7753	7760	5105070201	074096	WHELK,CHANNELED	Busycotypus canaliculatus	WHELK, CHANNELED
7780		510204	069510	LIMPETS	Fissurellidae	LIMPETS
7810	7810	5507010101	079454	MUSSEL,SEA	Mytilus edulis	MUSSEL, BLUE
7811		5507010102	079455	MUSSEL,CALIFORNIA	Mytilus californianus	MUSSEL, CALIFORNIA
7830		551202	079913	MUSSELS,MUSSELS SHELLS,FW	Unionidae	MUSSELS,FW
7860	7860	570801	082590	OCTOPUS	Octopodidae	OCTOPUS
7890	7890	5510020102	079872	OYSTER,EASTERN	Crass Ostrea virginica	OYSTER, EASTERN
7920		5510020101	079868	OYSTER,PACIFIC	Crass ostrea gigas	OYSTER, PACIFIC
7921	7921	5510020205	079885	OYSTER,EUROPEAN FLAT	Ostrea edulis	OYSTER, EUROPEAN FLAT
7950		5510020501	079895	OYSTER,OLYMPIA	Astrally conchaphila	OYSTER, OLYMPIA
7980	7980	510310	070394	PERIWINKLES,ATLANTIC	Littorinidae	PERIWINKLES
8001	7990	5509051202	079737	SCALLOP,BAY	Argopecten irradians	SCALLOP, BAY
8005	7970	5509051201	079734	SCALLOP,CALICO	Argopecten gibbous	SCALLOP, CALICO
8007	7950	5509050103	079619	SCALLOP,ICELANDIC SEA	Chlamys islandica	SCALLOP, ICELAND
8009	8009	5509050901	079718	SCALLOP,SEA	Placopecten magellanicus	SCALLOP, SEA
8011		5509051501	079757	SCALLOP,WEATHERVANE	Patinopecten caurinus	SCALLOP, WEATHERVANE
8013		5509050101	079613	SCALLOP,SPINY	Chlamys hastate	SCALLOP, SPINY
8015	7960	550905	079611	SCALLOP,UNC	Pectinidae	SCALLOPS
8030	8030	570601	082369	SQUIDS,UNC	Loliginidae	SQUID
8031	8020	5707150301	082521	SQUID,SHORT-FINNED	Ilex illecebrosus	SQUID, NORTHERN SHORTFIN
8032	8010	5706010102	082372	SQUID,LONG FINNED	Loligo pealeii	SQUID, LONGFIN
8033		5706010101	082371	SQUID,CALIFORNIA MARKET	Loligo opalescent	SQUID, CALIFORNIA MARKET
8034		5707150501	082538	SQUID,JUMBO MARKET	Dosidicus gigas	SQUID, JUMBO

NMF	NMFS_NE	NODC	ITIS	NAME	SCIENTIFIC_NAME	AFS_NAME
8040	8040	5085	069458	MOLLUSKS,UNC	Mollusca	MOLLUSKS,UNC
8050	8050	81490302	157968	SEA URCHINS	Strongylocentrotus	SEA URCHINS
8055	81	156857		ECHINODERM	Echinodermata	ECHINODERM
8081	8081	9002030301	173780	TERRAPIN	Malaclemys terrapin	TURTLE, TERRAPIN
8085	8060	8170	158140	SEA CUCUMBER	Holothuroidea	SEA CUCUMBER
8090	84	203347		TUNICATE	Urochordata	SEA SQUIRTS
8111		90020304	173782	TURTLES,BABY (YOUNG FRESH WATER)	Chrysemys	TURTLES,BABY(YOUNG FRESH WATER)
8112	8090	9002040201	173833	TURTLE,GREEN(SEA)	Chelonia mydas	TURTLE, GREEN SEA
8113		9002040301	173836	TURTLE,HAWKSBILL(SEA)	Eretmochelys imbricata	TURTLE, HAWKSBILL SEA
8114	8130	9002040101	173830	TURTLE,LOGGERHEAD(SEA)	caretta	TURTLE, LOGGERHEAD SEA
8115	8110	90020308	173803	TURTLES,SLIDERS	Pseudemys	TURTLES,SLIDERS
8116	8150	9002010101	173752	TURTLES,SNAPPING	Chelydra serpentina	TURTLES,SNAPPING
8117		90020601	173846	TURTLES,SOFT-SHELL	Trionyx	TURTLES,SOFT-SHELL
8118		9002050101	173843	TURTLES,LEATHERBACK	Dermodochelys coriacea	TURTLE, LEATHERBACK
8119		9002040401	173839	TURTLES,KEMP'S RIDLEY	Lepidochelys kemp	TURTLE, KEMP'S RIDLEY
8120	8160	9001	173748	TURTLES,UNC	ANAPSIDA	TURTLES,UNC
8140		890302	173433	FROGS	Ranidae	FROGS
8160		3740	051938	CORALS	Anthozoa	CORALS
8171	8171	1608100101	012092	CETERACH MOSS	Chondrus crispus	SEAWEED, IRISH MOSS
8172		15080302	011272	SEAWEED,KELP	Macrocystis	SEAWEED,KELP
8173		1510010101	011331	SEAWEED,ROCKWEED	Ascophyllum nodosum	SEAWEED,ROCKWEED
8178		15	010685	SEAWEED,UNC	Phaeophyta	SEAWEED,UNC
8179		874701020101	161723	SEAWEED,KELP WITH HERRING ROE	Clupea harengus pallasii	HERRING, PACIFIC, ROE ON KELP
8200		36	046861	SPONGE,UNC	Porifera	SPONGE,UNC
8201		3661010107	196435	SPONGE,GLOVE	Spongia cheiri	SPONGE,GLOVE
8202		3661010108	196436	SPONGE,GRASS	Spongia grained	SPONGE,GRASS
8203		3661011902	196440	SPONGES,SHEEP SWOOL	Hippo spongia Lachine	SPONGES,SHEEP SWOOL
8204		3661010109	196437	SPONGE,WIRE	Spongia stereo	SPONGE,WIRE
8205		3661010106	196434	SPONGE,YELLOW	Spongia barbara	SPONGE,YELLOW
8230	8230	5001270105	066107	BLOODWORMS	Glyceria Dibranchiata	BLOODWORMS
8250	8250	50012404	065902	SANDWORMS	Nereid	SANDWORMS
8260	5001		064358	MARINE WORM	Polychaeta	MARINE WORM
8280	8280	811703	157212	STARFISH	Asteridae	STARFISH
9001		9217	180403	WHALE	Cetacea	WHALES,UNC
9007		9009020101	174367	ALLIGATOR	Alligator mississippiensis	ALLIGATOR, AMERICAN
9010		92	179913	MAMMALS,AQUATIC,UNC	Mammalia	MAMMALS,AQUATIC,UNC
9030		9221010601	180627	FUR SEAL	Callorhinus ursinus	SEAL, NORTHERN FUR
9106	9990	61	083677	SHELLFISH,SW,UNC	Crustacea	SHELLFISH,UNC
9560		617701	095602	SHRIMP AQUACULTURE	Peneidae	PAINED SHRIMP
9990	8990	61	083677	SHELLFISH,OTHER	Crustacea	SHELLFISH,UNC

Table A.8. Standard FIN state, county and port codes (FIPs). Please note that the port codes are not included in this list. The reason for this is because there are so many and it would increase the size of this document to an unmanageable size. If you need a port code, you can go to the GSMFC web page and click on the SEARCH option and enter the STATE and COUNTY information.

STATE: ALABAMA (AL)

STATE CODE: 01

<i>CODE</i>	<i>COUNTY NAME</i>	<i>CODE</i>	<i>COUNTY NAME</i>
001	AUTAUGA	107	PICKENS
003	BALDWIN	109	PIKE
005	BARBOUR	111	RANDOLPH
007	BIBB	113	RUSSELL
009	BLOUNT	115	ST. CLAIR
011	BULLOCK	117	SHELBY
013	BUTLER	119	SUMTER
015	CALHOUN	121	TALLADEGA
017	CHAMBERS	123	TALLAPOOSA
019	CHEROKEE	125	TUSCALOOSA
021	CHILTON	127	WALKER
023	CHOCTAW	129	WASHINGTON
025	CLARKE	131	WILCOX
027	CLAY	133	WINSTON
029	CLEBURNE		
031	COFFEE		
033	COLBERT		
035	CONECUH		
037	COOSA		
039	COVINGTON		
041	CRENSHAW		
043	CULLMAN		
045	DALE		
047	DALLAS		
049	DE KALB		
051	ELMORE		
053	ESCAMBIA		
055	ETOWAH		
057	FAYETTE		
059	FRANKLIN		
061	GENEVA		
063	GREENE		
065	HALE		
067	HENRY		
069	HOUSTON		
071	JACKSON		
073	JEFFERSON		
075	LAMAR		
077	LAUDERDALE		
079	LAWRENCE		
081	LEE		
083	LIMESTONE		
085	LOWNDES		
087	MACON		
089	MADISON		
091	MARENGO		
093	MARION		
095	MARSHALL		
097	MOBILE		
099	MONROE		
101	MONTGOMERY		
103	MORGAN		
105	PERRY		

STATE: FLORIDA (FL)**STATE CODE: 12**

<i>CODE</i>	<i>COUNTY NAME</i>	<i>CODE</i>	<i>COUNTY NAME</i>
001	ALACHUA	117	SEMINOLE
003	BAKER	119	SUMTER
005	BAY	121	SUWANNEE
007	BRADFORD	123	TAYLOR
009	BREVARD	125	UNION
011	BROWARD	127	VOLUSIA
013	CALHOUN	129	WAKULLA
015	CHARLOTTE	131	WALTON
017	CITRUS	133	WASHINGTON
019	CLAY		
021	COLLIER		
023	COLUMBIA		
025	DADE		
027	DE SOTO		
029	DIXIE		
031	DUVAL		
033	ESCAMBIA		
035	FLAGLER		
037	FRANKLIN		
039	GADSDEN		
041	GILCHRIST		
043	GLADES		
045	GULF		
047	HAMILTON		
049	HARDEE		
051	HENDRY		
053	HERNANDO		
055	HIGHLANDS		
057	HILLSBOROUGH		
059	HOLMES		
061	INDIAN RIVER		
063	JACKSON		
065	JEFFERSON		
067	LAFAYETTE		
069	LAKE		
071	LEE		
073	LEON		
075	LEVY		
077	LIBERTY		
079	MADISON		
081	MANATEE		
083	MARION		
085	MARTIN		
087	MONROE		
089	NASSAU		
091	OKALOOSA		
093	OKEECHOBEE		
095	ORANGE		
097	OSCEOLA		
099	PALM BEACH		
101	PASCO		
103	PINELLAS		
105	POLK		
107	PUTNAM		
109	ST. JOHNS		
111	ST.LUCIE		
113	SANTA ROSA		
115	SARASOTA		

STATE: GEORGIA (GA)**STATE CODE: 13**

<i>CODE</i>	<i>COUNTY NAME</i>	<i>CODE</i>	<i>COUNTY NAME</i>	<i>CODE</i>	<i>COUNTY NAME</i>
001	APPLING	119	FRANKLIN	237	PUTNAM
003	ATKINSON	121	FULTON	239	QUITMAN
005	BACON	123	GILMER	241	RABUN
007	BAKER	125	GLASCOCK	243	RANDOLPH
009	BALDWIN	127	GLYNN	245	RICHMOND
011	BANKS	129	GORDON	247	ROCKDALE
013	BARROW	131	GRADY	249	SCHLEY
015	BARTOW	133	GREENE	251	SCREVEN
017	BEN HILL	135	GWINNETT	253	SEMINOLE
019	BERRIEN	137	HABERSHAM	255	SPALDING
021	BIBB	139	HALL	257	STEPHENS
023	BLECKLEY	141	HANCOCK	259	STEWART
025	BRANTLEY	143	HARALSON	261	SUMTER
027	BROOKS	145	HARRIS	263	TALBOT
029	BRYAN	147	HART	265	TALIAFERRO
031	BULLOCH	149	HEARD	267	TATNALL
033	BURKE	151	HENRY	269	TAYLOR
035	BUTTS	153	HOUSTON	271	TELFAIR
037	CALHOUN	155	IRWIN	273	TERRELL
039	CAMDEN	157	JACKSON	275	THOMAS
043	CANDLER	159	JASPER	277	TIFT
045	CARROLL	161	JEFF DAVIS	279	TOOMBS
047	CATOOSA	163	JEFFERSON	281	TOWNS
049	CHARLTON	165	JENKINS	283	TREUTLEN
051	CHATHAM	167	JOHNSON	285	TROUP
053	CHATTAHOOCHEE	169	JONES	287	TURNER
055	CHATTOOGA	171	LAMAR	289	TWIGGS
057	CHEROKEE	173	LANIER	291	UNION
059	CLARKE	175	LAURENS	293	UPSON
061	CLAY	177	LEE	295	WALKER
063	CLAYTON	179	LIBERTY	297	WALTON
065	CLINCH	181	LINCOLN	299	WARE
067	COBB	183	LONG	301	WARREN
069	COFFEE	185	LOWNDES	303	WASHINGTON
071	COLQUITT	187	LUMPKIN	305	WAYNE
073	COLUMBIA	189	MCDUFFIE	307	WEBSTER
075	COOK	191	MCINTOSH	309	WHEELER
077	COWETA	193	MACON	311	WHITE
079	CRAWFORD	195	MADISON	313	WHITFIELD
081	CRISP	197	MARION	315	WILCOX
083	DADE	199	MERIWEATHER	317	WILKES
085	DAWSON	201	MILLER	319	WILKINSON
087	DECATUR	205	MITCHELL	321	WORTH
089	DE KALB	207	MONROE		
091	DODGE	209	MONTGOMERY		
093	DOOLY	211	MORGAN		
095	DOUGHERTY	213	MURRAY		
097	DOUGLAS	215	MUSCOGEE		
099	EARLY	217	NEWTON		
101	ECHOLS	219	OCONEE		
103	EFFINGHAM	221	OGLETHORPE		
105	ELBERT	223	PAULDING		
107	EMANUEL	225	PEACH		
109	EVANS	227	PICKENS		
111	FANNIN	229	PIERCE		
113	FAYETTE	231	PIKE		
115	FLOYD	233	POLK		
117	FORSYTH	235	PULASKI		

STATE: LOUISIANA (LA)**STATE CODE: 22***CODE COUNTY NAME*

001 ACADIA
003 ALLEN
005 ASCENSION
007 ASSUMPTION
009 AVOUELLES
011 BEAUREGARD
013 BIENVILLE
015 BOSSIER
017 CADDO
019 CALCASIEU
021 CALDWELL
023 CAMERON
025 CATAHOULA
027 CLAIBORNE
029 CONCORDIA
031 DE SOTO
033 EAST BATON ROUGE
035 EAST CARROLL
037 EAST FELICIANA
039 EVANGELINE
041 FRANKLIN
043 GRANT
045 IBERIA
047 IBERVILLE
049 JACKSON
051 JEFFERSON
053 JEFFERSON DAVIS
055 LAFAYETTE
057 LAFOURCHE
059 LA SALLE
061 LINCOLN
063 LIVINGSTON
065 MADISON
067 MOREHOUSE
069 NATCHITOCHEs
071 ORLEANS
073 OUACHITA
075 PLAQUEMINES
077 POINTE COUPEE
079 RAPIDES
081 RED RIVER
083 RICHLAND
085 SABINE
087 ST. BERNARD
089 ST. CHARLES
091 ST. HELENA
093 ST. JAMES
095 ST. JOHN THE BAPTIST
097 ST. LANDRY
099 ST. MARTIN
101 ST. MARY
103 ST. TAMMANY
105 TANGIPAHOA
107 TENSAS
109 TERREBONNE
111 UNION
113 VERMILION
115 VERNON

CODE COUNTY NAME

117 WASHINGTON
119 WEBSTER
121 WEST BATON ROUGE
123 WEST CARROLL
125 WEST FELICIANA
127 WINN

STATE: MISSISSIPPI (MS)**STATE CODE: 28**

<i>CODE</i>	<i>COUNTY NAME</i>	<i>CODE</i>	<i>COUNTY NAME</i>
001	ADAMS	117	PRENTISS
003	ALCORN	119	QUITMAN
005	AMITE	121	RANKIN
007	ATTALA	123	SCOTT
009	BENTON	125	SHARKEY
011	BOLIVAR	127	SIMPSON
013	CALHOUN	129	SMITH
015	CARROLL	131	STONE
017	CHICKASAW	133	SUNFLOWER
019	CHOCTAW	135	TALLAHATCHIE
021	CLAIBORNE	137	TATE
023	CLARKE	139	TIPPAH
025	CLAY	141	TISHOMINGO
027	COAHOMA	143	TUNICA
029	COPIAH	145	UNION
031	COVINGTON	147	WALTHALL
033	DE SOTO	149	WARREN
035	FORREST	151	WASHINGTON
037	FRANKLIN	153	WAYNE
039	GEORGE	155	WEBSTER
041	GREENE	157	WILKINSON
043	GRENADA	159	WINSTON
045	HANCOCK	161	YALOBUSHA
047	HARRISON	163	YAZOO
049	HINDS		
051	HOLMES		
053	HUMPHREYS		
055	ISSAQUENA		
057	ITAWAMBA		
059	JACKSON		
061	JASPER		
063	JEFFERSON		
065	JEFFERSON DAVIS		
067	JONES		
069	KEMPER		
071	LAFAYETTE		
073	LAMAR		
075	LAUDERDALE		
077	LAWRENCE		
079	LEAKE		
081	LEE		
083	LEFLORE		
085	LINCOLN		
087	LOWNDES		
089	MADISON		
091	MARION		
093	MARSHALL		
095	MONROE		
097	MONTGOMERY		
099	NESHOBA		
101	NEWTON		
103	NOXUBEE		
105	OKTIBBEHA		
107	PANOLA		
109	PEARL RIVER		
111	PERRY		
113	PIKE		
115	PONTOTOC		

STATE: NORTH CAROLINA (NC)**STATE CODE: 37**

<i>CODE</i>	<i>COUNTY NAME</i>	<i>CODE</i>	<i>COUNTY NAME</i>
001	ALAMANCE	115	MADISON
003	ALEXANDER	117	MARTIN
005	ALLEGHANY	119	MECKLENBURG
007	ANSON	121	MITCHELL
009	ASHE	123	MONTGOMERY
011	AVERY	125	MOORE
013	BEAUFORT	127	NASH
015	BERTIE	129	NEW HANOVER
017	BLADEN	131	NORTHAMPTON
019	BRUNSWICK	133	ONslow
021	BUNCOMBE	135	ORANGE
023	BURKE	137	PAMLICO
025	CABARRUS	139	PASQUOTANK
027	CALDWELL	141	PENDER
029	CAMDEN	143	PERQUIMANS
031	CARTERET	145	PERSON
033	CASWELL	147	PITT
035	CATAWBA	149	POLK
037	CHATHAM	151	RANDOLPH
039	CHEROKEE	153	RICHMOND
041	CHOWAN	155	ROBESON
043	CLAY	157	ROCKINGHAM
045	CLEVELAND	159	ROWAN
047	COLUMBUS	161	RUTHERFORD
049	CRAVEN	163	SAMPSON
051	CUMBERLAND	165	SCOTLAND
053	CURRITUCK	167	STANLY
055	DARE	169	STOKES
057	DAVIDSON	171	SURRY
059	DAVIE	173	SWAIN
061	DUPLIN	175	TRANSYLVANIA
063	DURHAM	177	TYRRELL
065	EDGECOMBE	179	UNION
067	FORSYTH	181	VANCE
069	FRANKLIN	183	WAKE
071	GASTON	185	WARREN
073	GATES	187	WASHINGTON
075	GRAHAM	189	WATAUGA
077	GRANVILLE	191	WAYNE
079	GREENE	193	WILKES
081	GUILFORD	195	WILSON
083	HALIFAX	197	YADKIN
085	HARNETT	199	YANCEY
087	HAYWOOD		
089	HENDERSON		
091	HERTFORD		
093	HOKE		
095	HYDE		
097	IREDELL		
099	JACKSON		
101	JOHNSTON		
103	JONES		
105	LEE		
107	LENOIR		
109	LINCOLN		
111	MCDOWELL		
113	MACON		

STATE: PUERTO RICO (PR)**STATE CODE:**

<i>CODE</i>	<i>COUNTY NAME</i>
001	ADJUNTAS
003	AGUADA
005	AGUADILLA
007	AGUAS BUENAS
009	AIBONITO
011	ANASCO
013	ARECIBO
015	ARROYO
017	BARCELONETA
019	BARRANQUITAS
021	BAYAMON
023	CABO ROJO
025	CAGUAS
027	CAMUY
029	CANOVANAS
031	CAROLINA
033	CATANO
035	CAYEY
037	CEIBA
039	CIALES
041	CIDRA
043	COAMO
045	COMERIO
047	COROZAL
049	CULEBRA
051	DORADO
053	FAJARDO
054	FLORIDA
055	GUANICA
057	GUAYAMA
059	GUAYANILLA
061	GUAYNABO
063	GURABO
065	HATILLO
067	HORMIGUEROS
069	HUMACAO
071	ISABELA
073	JAYUYA
075	JUANA DIAZ
077	JUNCOS
079	LAJAS
081	LARES
083	LAS MARIAS
085	LAS PIEDRAS
087	LOIZA
089	LUQUILLO
091	MANATI
093	MARICAO
095	MAUNABO
097	MAYAGUEZ
099	MOCA
101	MOROVIS
103	NAGUABO
105	NARANJITO
107	OROCOVIS
109	PATILLAS
111	PENUELAS

<i>CODE</i>	<i>COUNTY NAME</i>
113	PONCE
115	QUEBRADILLAS
117	RINCON
119	RIO GRANDE
121	SABANA GRANDE
123	SALINAS
125	SAN GERMAN
127	SAN JUAN
129	SAN LORENZO
131	SAN SEBASTIAN
133	SANTA ISABEL
135	TOA ALTA
137	TOA BAJA
139	TRUJILLO ALTO
141	UTUADO
143	VEGA ALTA
145	VEGA BAJA
147	VIEQUES
149	VILLALBA
151	YABUCOA
153	YAUCO

STATE: SOUTH CAROLINA (SC)

STATE CODE: 45

<i>CODE</i>	<i>COUNTY NAME</i>
001	ABBEVILLE
003	AIKEN
005	ALLENDALE
007	ANDERSON
009	BAMBERG
011	BARNWELL
013	BEAUFORT
015	BERKELEY
017	CALHOUN
019	CHARLESTON
021	CHEROKEE
023	CHESTER
025	CHESTERFIELD
027	CLARENDON
029	COLLETON
031	DARLINGTON
033	DILLON
035	DORCHESTER
037	EDGEFIELD
039	FAIRFIELD
041	FLORENCE
043	GEORGETOWN
045	GREENVILLE
047	GREENWOOD
049	HAMPTON
051	HORRY
053	JASPER
055	KERSHAW
057	LANCASTER
059	LAURENS
061	LEE
063	LEXINGTON
065	MCCORMICK
067	MARION
069	MARLBORO
071	NEWBERRY
073	OCONEE
075	ORANGEBURG
077	PICKENS
079	RICHLAND
081	SALUDA
083	SPARTANBURG
085	SUMTER
087	UNION
089	WILLIAMSBURG
091	YORK

STATE: TEXAS (TX)**STATE CODE: 48**

<i>CODE</i>	<i>COUNTY NAME</i>	<i>CODE</i>	<i>COUNTY NAME</i>	<i>CODE</i>	<i>COUNTY NAME</i>
001	ANDERSON	117	DEAF SMITH	233	HUTCHINSON
003	ANDREWS	119	DELTA	235	IRION
005	ANGELINA	121	DENTON	237	JACK
007	ARANSAS	123	DE WITT	239	JACKSON
009	ARCHER	125	DICKENS	241	JASPER
011	ARMSTRONG	127	DIMMIT	243	JEFF DAVIS
013	ATASCOSA	129	DONLEY	245	JEFFERSON
015	AUSTIN	131	DUVAL	247	JIM HOGG
017	BAILEY	133	EASTLAND	249	JIM WELLS
019	BANDERA	135	ECTOR	251	JOHNSON
021	BASTROP	137	EDWARDS	253	JONES
023	BAYLOR	139	ELLIS	255	KARNES
025	BEE	141	EL PASO	257	KAUFMAN
027	BELL	143	ERATH	259	KENDALL
029	BEXAR	145	FALLS	261	KENEDY
031	BLANCO	147	FANNIN	263	KENT
033	BORDEN	149	FAYETTE	265	KERR
035	BOSQUE	151	FISHER	267	KIMBLE
037	BOWIE	153	FLOYD	269	KING
039	BRAZORIA	155	FOARD	271	KINNEY
041	BRAZOS	157	FORT BEND	273	KLEBERG
043	BREWSTER	159	FRANKLIN	275	KNOX
045	BRISCOE	161	FREESTONE	277	LAMAR
047	BROOKS	163	FRIO	279	LAMB
049	BROWN	165	GAINES	281	LAMPASAS
051	BURLESON	167	GALVESTON	283	LA SALLE
053	BURNET	169	GARZA	285	LAVACA
055	CALDWELL	171	GILLESPIE	287	LEE
057	CALHOUN	173	GLASSCOCK	289	LEON
059	CALLAHAN	175	GOLIAD	291	LIBERTY
061	CAMERON	177	GONZALES	293	LIMESTONE
063	CAMP	179	GRAY	295	LIPSCOMB
065	CARSON	181	GRAYSON	297	LIVE OAK
067	CASS	183	GREGG	299	LANO
069	CASTRO	185	GRIMES	301	LOVING
071	CHAMBERS	187	GUADALUPE	303	LUBBOCK
073	CHEROKEE	189	HALE	305	LYNN
075	CHILDRESS	191	HALL	307	MCCULLOCH
077	CLAY	193	HAMILTON	309	MCLENNAN
079	COCHRAN	195	HANSFORD	311	MCMULLEN
081	COKE	197	HARDEMAN	313	MADISON
083	COLEMAN	199	HARDIN	315	MARION
085	COLLIN	201	HARRIS	317	MARTIN
087	COLLINGSWORTH	203	HARRISON	319	MASON
089	COLORADO	205	HARTLEY	321	MATAGORDA
091	COMAL	207	HASKELL	323	MAVERICK
093	COMANCHE	209	HAYS	325	MEDINA
095	CONCHO	211	HEMPHILL	327	MENARD
097	COOKE	213	HENDERSON	329	MIDLAND
099	CORYELL	215	HIDALGO	331	MILAM
101	COTTLE	217	HILL	333	MILLS
103	CRANE	219	HOCKLEY	335	MITCHELL
105	CROCKETT	221	HOOD		
107	CROSBY	223	HOPKINS		
109	CULBERSON	225	HOUSTON		
111	DALLAM	227	HOWARD		
113	DALLAS	229	HUDSPETH		
115	DAWSON	231	HUNT		

<i>CODE</i>	<i>COUNTY NAME</i>	<i>CODE</i>	<i>COUNTY NAME</i>
337	MONTAGUE	457	TYLER
339	MONTGOMERY	459	UPSHUR
341	MOORE	461	UPTON
343	MORRIS	463	UVALDE
345	MOTLEY	465	VAL VERDE
347	NACOGDOCHES	467	VAN ZANDT
349	NAVARRO	469	VICTORIA
351	NEWTON	471	WALKER
353	NOLAN	473	WALLER
355	NUECES	475	WARD
357	OCHILTREE	477	WASHINGTON
359	OLDHAM	479	WEBB
361	ORANGE	481	WHARTON
363	PALO PINTO	483	WHEELER
365	PANOLA	485	WICHITA
367	PARKER	487	WILBARGER
369	PARMER	489	WILLACY
371	PECOS	491	WILLIAMSON
373	POLK	493	WILSON
375	POTTER	495	WINKLER
377	PRESIDIO	497	WISE
379	RAINS	499	WOOD
381	RANDALL	501	YOAKUM
383	REAGAN	503	YOUNG
385	REAL	505	ZAPATA
387	RED RIVER	507	ZAVALA
389	REEVES		
391	REFUGIO		
393	ROBERTS		
395	ROBERTSON		
397	ROCKWALL		
399	RUNNELS		
401	RUSK		
403	SABINE		
405	SAN AUGUSTINE		
407	SAN JACINTO		
409	SAN PATRICIO		
411	SAN SABA		
413	SCHLEICHER		
415	SCURRY		
417	SHACKELFORD		
419	SHELBY		
421	SHERMAN		
423	SMITH		
425	SOMERVELL		
427	STARR		
429	STEPHENS		
431	STERLING		
433	STONEWALL		
435	SUTTON		
437	SWISHER		
439	TARRANT		
441	TAYLOR		
443	TERRELL		
445	TERRY		
447	THROCKMORTON		
449	TITUS		
451	TOM GREEN		
453	TRAVIS		
455	TRINITY		

STATE : U.S. VIRGIN ISLANDS (VI) STATE CODE:

<i>CODE</i>	<i>COUNTY NAME</i>
010	ST. CROIX
020	ST. JOHN
030	ST. THOMAS

Table A.9 Standard FIN sex codes.

SEX CODE	DESCRIPTION
M	Male
F	Female
U	Unknown

Table A.10 Standard FIN area fished codes.

AREA CODE	AREA NAME	SUB		
		REG	AREA CODE	SUB AREA NAME
000	Unknown	Unk	8888	Unknown
001	Key West		0000	0-3 miles
001	Key West		0001	North of Us 1
001	Key West		8888	Unknown
001	Key West		9998	EEZ
001	Key West		9999	International waters
002	Tortugas		0000	0-3 miles
002	Tortugas		8888	Unknown
002	Tortugas		9998	EEZ
002	Tortugas		9999	International waters
003	Everglades		0000	0-3 miles
003	Everglades		0001	Rookery Bay
003	Everglades		0002	Whitewater Bay
003	Everglades		8888	Unknown
003	Everglades		9998	EEZ
003	Everglades		9999	International waters
004	Fort Myers		0000	0-3 miles
004	Fort Myers		0001	Charlotte Harbor
004	Fort Myers		0002	Lemon Bay/Gasparilla Sound
004	Fort Myers		0003	Pine Island Sound/San Carlos Bay
004	Fort Myers		0004	Estero Bay
004	Fort Myers		0005	Rookery Bay
004	Fort Myers		0006	Other Inland Waters
004	Fort Myers		0008	Lake Okeechobee
004	Fort Myers		8888	Unknown
004	Fort Myers		9998	EEZ
004	Fort Myers		9999	International waters
005	Tampa		0000	0-3 miles
005	Tampa		0001	Tampa Bay
005	Tampa		0002	St. Josephs Sound
005	Tampa		0003	Sarasota Bay
005	Tampa		0004	Anna Maria Sound
005	Tampa		8888	Unknown
005	Tampa		9998	EEZ
005	Tampa		9999	International waters
006	Crystal River-Tarpon Springs		0000	0-3 miles
006	Crystal River-Tarpon Springs		0001	St. Joseph Sound
006	Crystal River-Tarpon Springs		0002	Inland Waters
006	Crystal River-Tarpon Springs		8888	Unknown
006	Crystal River-Tarpon Springs		9998	EEZ
006	Crystal River-Tarpon Springs		9999	International waters
007	Apalachee Bay		0000	0-3 miles
007	Apalachee Bay		0001	St. Vin. Sound/Apala. Bay/E. Bay
007	Apalachee Bay		0002	St. George Sound

AREA CODE	AREA NAME	REG	SUB AREA CODE	SUB AREA NAME
007	Apalachee Bay		0003	Other Inland Waters
007	Apalachee Bay		8888	Unknown
007	Apalachee Bay		9998	EEZ
007	Apalachee Bay		9999	International waters
008	Panama City		0000	0-3 miles
008	Panama City		0001	St. Andrew Bay
008	Panama City		0002	St. Joseph Bay
008	Panama City		0003	West Bay/north Bay
008	Panama City		8888	Unknown
008	Panama City		9998	EEZ
008	Panama City		9999	International waters
009	Pensacola/Destin		0000	0-3 miles
009	Pensacola/Destin		0001	Choctawhatchee Bay
009	Pensacola/Destin		0002	Escambia Bay
009	Pensacola/Destin		8888	Unknown
009	Pensacola/Destin		9998	EEZ
009	Pensacola/Destin		9999	International waters
010	Pensacola - Alabama		0000	0-3 miles
010	Pensacola - Alabama		0001	Pensacola Bay/east Bay
010	Pensacola - Alabama		0002	Lower Mobile bay
010	Pensacola - Alabama		0003	Perdido Bay
010	Pensacola - Alabama		0004	Bon Secour Bay
010	Pensacola - Alabama		0005	Little Lagoon
010	Pensacola - Alabama		0006	Upper Mobile Bay
010	Pensacola - Alabama		8888	Unknown
010	Pensacola - Alabama		9998	EEZ
010	Pensacola - Alabama		9999	International waters
011	Alabama-Mississippi		0000	0-3 miles
011	Alabama-Mississippi		0001	MS Sound (Mobile Bay to Gulfport Ship Channel)
011	Alabama-Mississippi		0002	MS Sound - AL state waters
011	Alabama-Mississippi		0003	MS Sound - MS state waters
011	Alabama-Mississippi		8888	Unknown
011	Alabama-Mississippi		9998	EEZ
011	Alabama-Mississippi		9999	International waters
012	Lake Pontchartrain - Perl River Basin		0000	0-3 miles
012	Lake Pontchartrain - Perl River Basin		0406	Lake Maurepas
012	Lake Pontchartrain - Perl River Basin		0410	Lake Pontchartrain
012	Lake Pontchartrain - Perl River Basin		0418	Inshore area south of Lake Borgne - north
012	Lake Pontchartrain - Perl River Basin		0420	Lake Borgne
012	Lake Pontchartrain - Perl River Basin		0421	Inshore area between Lake Borgne - south
012	Lake Pontchartrain - Perl River Basin		0422	Breton and Chandeleur sounds and adjacent Marsh areas
012	Lake Pontchartrain - Perl River Basin		0902	Pearl River
012	Lake Pontchartrain - Perl River Basin		8888	Unknown
012	Lake Pontchartrain - Perl River Basin		9998	EEZ
012	Lake Pontchartrain - Perl River Basin		9999	International waters
013	Mississippi River - Barataria Basin		0000	0-3 miles

AREA CODE	AREA NAME	REG	SUB AREA CODE	SUB AREA NAME
013	Mississippi River - Bartaria Basin		0703	Mississippi River
013	Mississippi River - Bartaria Basin		0704	Inside waters from Grand Bay to West Bay
013	Mississippi River - Bartaria Basin		0706	Inside water from the Mississippi River to Bayou Lafourche
013	Mississippi River - Bartaria Basin		0210	Bastian Bay and Adam Bay
013	Mississippi River - Bartaria Basin		0211	Barataria Bay
013	Mississippi River - Bartaria Basin		8888	Unknown
013	Mississippi River - Bartaria Basin		9998	EEZ
013	Mississippi River - Bartaria Basin		9999	International waters
014	Terrebonne - Bartaria - Atchafalaya Basin		0000	0-3 miles
014	Terrebonne - Bartaria - Atchafalaya Basin		0204	Inside waters from Bayou Lafourche to the Atchafalaya River
014	Terrebonne - Bartaria - Atchafalaya Basin		1205	Lake Boudreaux
014	Terrebonne - Bartaria - Atchafalaya Basin		1207	Upper marsh area above Lake Pelto
014	Terrebonne - Bartaria - Atchafalaya Basin		1208	Terrebonne and Timbalier Bays
014	Terrebonne - Bartaria - Atchafalaya Basin		8888	Unknown
014	Terrebonne - Bartaria - Atchafalaya Basin		9998	EEZ
014	Terrebonne - Bartaria - Atchafalaya Basin		9999	International waters
015	Atchafalaya - Vermilion-Teche River Basin		0000	0-3 miles
015	Atchafalaya - Vermilion-Teche River Basin		0106	W. Atchafalaya River
015	Atchafalaya - Vermilion-Teche River Basin		0108	E. Atchafalaya River
015	Atchafalaya - Vermilion-Teche River Basin		0109	Atchafalaya Bay
015	Atchafalaya - Vermilion-Teche River Basin		0610	Cote Blanche Bay
015	Atchafalaya - Vermilion-Teche River Basin		0611	Vermilion Bay
015	Atchafalaya - Vermilion-Teche River Basin		0612	Southwest Pass
001	Atchafalaya - Vermilion-Teche River Basin		8888	Unknown
015	Atchafalaya - Vermilion-Teche River Basin		9998	EEZ
015	Atchafalaya - Vermilion-Teche River Basin		9999	International waters
016	Mermentau River Basin		0000	0-3 miles, grid 16
016	Mermentau River Basin		0507	Grand and White Lakes
016	Mermentau River Basin		0508	Grand Chenier
016	Mermentau River Basin		0509	State waters within basin
016	Mermentau River Basin		8888	Unknown
016	Mermentau River Basin		9998	EEZ
016	Mermentau River Basin		9999	International waters
017	Calcasieu - Sabine River Basin		0000	0-3 miles
017	Calcasieu - Sabine River Basin		0303	Calcasieu River
017	Calcasieu - Sabine River Basin		0304	Calcasieu Lake
017	Calcasieu - Sabine River Basin		0311	Willow/Sweet Lakes
017	Calcasieu - Sabine River Basin		0312	State waters with basin
017	Calcasieu - Sabine River Basin		1103	Sabine Lake
017	Calcasieu - Sabine River Basin		1106	Starks Canals
017	Calcasieu - Sabine River Basin		1107	State waters with basin
017	Calcasieu - Sabine River Basin		8888	Unknown
017	Calcasieu - Sabine River Basin		9998	EEZ
017	Calcasieu - Sabine River Basin		9999	International waters

AREA CODE	AREA NAME	REG	SUB AREA CODE	SUB AREA NAME
018	Galveston		0000	0-9 miles
018	Galveston		0001	Galveston Bay System
018	Galveston		0101	Offats Bayou to South tip of North Deer Island
018	Galveston		0102	Jones Lake
018	Galveston		0103	Carancahua Reef to North Deer Island
018	Galveston		0104	Bay Harbor to Carancahua Reef
018	Galveston		0105	Mud Island to Bay Harbor
018	Galveston		0106	Chocolate Bay
018	Galveston		0107	Bastrop Bay
018	Galveston		0108	Christmas Bay
018	Galveston		0109	West Bay - Unclassified Waters
018	Galveston		0201	Cedar Point South to Smith Point: East to Lone Oak Bayou - North to Umbrella Point
018	Galveston		0202	Umbrella Point South to Lone Oak Bayou: East to Black Point - North to HL&P discharge canal
018	Galveston		0203	All waters east of a line from HL&P discharge canal south to Black Point
018	Galveston		0209	Trinity Bay - Unclassified waters
018	Galveston		0301	Clear Lake Channel - South to Eagle Point: East to Houston Ship Channel marker at southern tip of Redfish Island - North to Marker 65
018	Galveston		0302	Bayport Channel - South to Clear Lake Channel: East to Marker 65 - North to Bayport Channel
018	Galveston		0303	All waters north of a line from Bayport Channel east to Lost Reef: Northwest to Baytown
018	Galveston		0304	All waters south of a line from Bayport Channel to Lost Reef - South to Smith Point on the East to and including the Houston Ship Channel to a point at the south end of Redfish Island
018	Galveston		0309	Upper Galveston Bay - Unclassified waters
018	Galveston		0401	Smith Point southward to Intracoastal Canal at Robins Marina: Eastward to Sun Oil Channel at Long Point - North to Robinson Bayou Channel
018	Galveston		0402	Waters east of the line from Sun Oil Channel to the south to Robinson Bayou Channel to the north
018	Galveston		0409	East Bay - Unclassified waters
018	Galveston		0501	All waters lying between the Texas City Dike - South to US 75 Causeway on the west: Pelican Island to the Intracoastal Canal - Eastward to Port Bolivar
018	Galveston		0502	Dollar Point east to Houston Ship Channel Marker 39: South to a line between Port Bolivar and the Intracoastal Canal - Northwest to Texas City Dike
018	Galveston		0503	Eagle Point east to the southern tip of Redfish Island - South to Marker 39 - West to Dollar Point
018	Galveston		0504	Southeastern tip of Redfish Island East to Smith Point: South to Robins Marina, Southwest to and including Houston Ship Channel

AREA CODE	AREA NAME	REG	SUB AREA CODE	SUB AREA NAME
018	Galveston		0505	Intracoastal Canal, east of Pelican Island, south to Galveston Sulphur Docks, east including Galveston Channel, north to Fort Travis: west around western end of Port Bolivar to intersection
018	Galveston		0509	Lower Galveston bay - Unclassified waters
018	Galveston		8888	Unknown
018	Galveston		9998	EEZ
018	Galveston		9999	International waters
019	Freeport/Aransas		0000	0-9 miles
019	Freeport/Aransas		0001	Matagorda bay
019	Freeport/Aransas		0002	San Antonio Bay
019	Freeport/Aransas		0003	Aransas Bay
019	Freeport/Aransas		0009	Intracoastal Waterway
019	Freeport/Aransas		0101	East Matagorda Bay - All waters east of the Colorado River
019	Freeport/Aransas		0102	From and including the Colorado River west to a line from Palacios Point to Greens Bayou: Includes Tres Palacios and Turtle Bays
019	Freeport/Aransas		0103	From southern shoreline of Carancahua Pass outward to the north side of New Cut where it intersects Matagorda Island - includes Carancahua Bay
019	Freeport/Aransas		0104	From Sand Point westward to Indian Point (mouth of Lavaca Bay) to and including the New Cut Canal, and Pass Cavallo inside of Matagorda Island
019	Freeport/Aransas		0105	Lavaca and Keller Bays
019	Freeport/Aransas		0109	Matagorda Bay - Unclassified waters
019	Freeport/Aransas		0201	San Antonio Bay north of Intracoastal Canal
019	Freeport/Aransas		0202	San Antonio Bay south of Intracoastal Canal
019	Freeport/Aransas		0203	Espiritu Santo Bay
019	Freeport/Aransas		0204	Mesquite Bay
019	Freeport/Aransas		0209	San Antonio Bay - Unclassified waters
019	Freeport/Aransas		0301	Aransas Bay north of Intra coastal Canal includes St. Charles and Copano Bays
019	Freeport/Aransas		0302	Aransas Bay south of Intracoastal Canal to and including Lydia Ann Channel
019	Freeport/Aransas		0303	Redfish Bay east of Aransas Channel
019	Freeport/Aransas		0309	Aransas Bay - Unclassified waters
019	Freeport/Aransas		8888	Unknown
019	Freeport/Aransas		9998	EEZ
019	Freeport/Aransas		9999	International waters
020	Corpus Christi		0000	0-9 miles
020	Corpus Christi		0001	Corpus Christi Bay
020	Corpus Christi		0002	Upper Laguna Madre
020	Corpus Christi		8888	Unknown
019	Corpus Christi		9998	EEZ
019	Corpus Christi		9999	International waters
021	Brownsville		0000	0-9 miles
021	Brownsville		0001	Lower Laguna

AREA CODE	AREA NAME	REG	SUB AREA CODE	SUB AREA NAME
021	Brownsville		8888	Unknown
021	Brownsville		9998	EEZ
021	Brownsville		9999	International waters
022	Mexico		0000	0-3 miles
022	Mexico		8888	Unknown
022	Mexico		9998	EEZ
022	Mexico		9999	International waters
052	Honduras-Nicaragua		0000	0-3 miles
052	Honduras-Nicaragua		8888	Unknown
052	Honduras-Nicaragua		9998	EEZ
052	Honduras-Nicaragua		9999	International waters
136	Barbados		0000	0-3 miles
136	Barbados		8888	Unknown
136	Barbados		9998	EEZ
136	Barbados		9999	International waters
186	Caribbean		0200	Jamaica
186	Caribbean		0300	Haiti
186	Caribbean		0500	Virgin Islands
186	Caribbean		0100	Cuba
186	Caribbean		0000	Bahamas
186	Caribbean		0400	Dominican Republic
186	Caribbean		0600	Puerto Rico
186	Caribbean		8888	Unknown
186	Caribbean		9998	EEZ
186	Caribbean		9999	International waters

APPENDIX B

FIXED COST SURVEY

YOUR VESSEL WAS RANDOMLY SELECTED TO PARTICIPATE IN A COMMERCIAL FISHING VESSEL FIXED COST SURVEY.

The information you provide will help to describe the economic characteristics of vessels similar to yours. Fisheries managers need this kind of information in order to make informed decisions that may ultimately affect your fishing business. Decisions are being made every day that may impact you. **Do you want those making these decisions to have accurate information about your fishing operation?**

Since you are being asked to report only the expenses you incur regardless of how many trips you take (for example, insurance payments are considered fixed costs), the FIN will never know your entire costs for the year. Even if you participate in the Trip Cost Survey, which you may also be randomly selected for, you will be asked to only report a few of your trips and so the FIN will not know what your total costs were for the year. Therefore, the FIN **will not know your profit**. Individual vessel information will be kept **confidential** and only reported in aggregate or by averages according to vessel types.

Instructions

This survey asks you to supply information, related to your annual fixed costs of owning a commercial fishing vessel. Please use information (most likely from your tax returns) from the most recent fiscal year for which you have complete records.

It is extremely important that the correct vessel identification number is used. This information will be used with the information you provided to the Vessel Registration System and state and federal permitting systems. Cost information is meaningless unless information about the vessel and its permits are known. The vessel identification number provides a link to these other databases so that you don't have to provide that information in this survey.

If you don't normally incur a particular cost asked on the survey (for example, costs for providing employee benefits such as health insurance), please write N/A (not applicable) as the answer for that question. If you normally incur a particular cost but it happens to be zero for this year, enter a zero. If you incurred a cost but don't know the amount, record your best estimate or write D/K (don't know).

N/A or blank = you don't normally have that item as a cost.

Zero = normally incur but no cost this year.

D/K = Don't know what the cost was but there was a cost (estimate if you can).

THANK YOU FOR YOUR TIME AND EFFORT!

Identification and Business Information

Vessel identification number: _____ (should be hard coded)

Beginning of fiscal year corresponding to annual costs reported below. ____/____/____

End of fiscal year corresponding to annual costs reported below. ____/____/____

Is your business **incorporated**? Yes No (circle one)

Choose the **ownership type** that best describes your business (mark with an **AX**):

Sole proprietorship _____ Partnership _____ Group/business ownership _____

If a partnership, please choose a **description of the partners= relationship**:

Relative in household _____ Non-relative in household _____ Other relative _____

Other friend _____ Business associate _____

Other _____ (enter description here _____)

Vessel Information

Brand name of engine. _____

Year engine was **built**. _____

Year engine was last **rebuilt**. _____

Engine **fuel type** (choose one): Diesel _____ Gasoline _____

Did you have this vessel built or did you purchase it from another owner?

Had it built _____ **Purchased from other owner** _____

Year vessel **purchased** from other owner. _____

Price of vessel if purchased **or cost** to you to build vessel. \$ _____

Market values

The following questions ask you to estimate what you could reasonably expect (not what you would like to receive) to sell various components of your vessel or what you might expect to pay to buy components of similar condition.

Market value of **hull**. \$ _____ Useful life remaining on **hull**. _____yrs

Market value of **engine**. \$ _____ Useful life remaining on **engine**. _____yrs

Fishing gear market value. \$ _____

Other gear (winches, generators, etc) market value. \$ _____

Electronics market value (include any gear mounted electronics). \$ _____

Safety equipment market value. \$ _____

Permits owned market value. \$ _____

Vessel market value (does not have to be the sum of all the components listed above - evaluate its value if you were to sell the entire vessel with all its equipment and gear). \$ _____

Additional question for this section:

Average daily value of catch in storage (example: lobsters in a pound) \$ _____

Annual Costs

Please record the costs of each of these items for the fiscal year you indicated above.

Vessel **insurance** costs (include hull, protection and indemnity (P&I), other property insurance, mortgage insurance, etc. **Do not include vessel owner health insurance or health insurance paid for crew/employees**). \$ _____

Cost of major **vessel overhaul and/or haul-out and vessel improvements**. \$ _____

Major vessel **overhaul/haul-out/improvement description**. _____

Typical number of **years between major vessel haul-outs/overhauls or improvements**. _____ yrs

Repair costs (do not include the costs reported above for vessel overhaul/haul-out/improvements. If you don't distinguish repairs from maintenance, record half the cost here and half the cost in the next question about maintenance costs). \$ _____

Maintenance costs (do not include the costs reported above for vessel overhaul/haul-out/improvements. If you don't distinguish repairs from maintenance, record half the cost here and half the cost in the previous question about repair costs). \$ _____

New gear costs (do not include the costs reported above for vessel overhaul/haul-out/improvements. Include cost of new fishing gear, vessel gear/equipment, electronics, etc. only if it was an entire additional or replacement unit). \$ _____

New gear description. _____

Mooring/dockage fees (include vessel security costs). \$ _____

Salary payments to non-share crew or other onshore employees (do not include baiting labor costs). \$ _____

Cost of providing **benefits** to crew/employees (example: your share of payments to health plans provided for your crew/employees). \$ _____

Taxes (income tax, business property tax, other business related taxes. Do not include fuel tax). \$ _____

Fishing permit fees. \$ _____

Other permit or license fees (export/import permit fees, license renewals, etc.). \$ _____

Business use of **vehicle and travel costs** (include cost to travel to Council meetings, etc).
\$ _____

Professional fees (accounting, legal, bookkeeping). \$ _____

Association fees (fees paid to business related organizations, cooperatives, fisheries organizations, etc.). \$ _____

Onshore **processing/holding costs** (cold storage rental, pounding/carring fee, costs of any onshore processing of catch before it is sold). \$ _____

Cost to rent or own (mortgage payment) **onshore facilities** (example: storage shed).
\$ _____

Onshore facilities description (list). _____

Business Financing

The following questions ask you to provide information about money you borrowed to finance your fishing operation.

<u>Loan Description</u>	<u>Total Duration of Loan (yrs)</u>	<u>Remaining Duration of Loan (yrs)</u>	<u>Interest Rate</u>	<u>Monthly Payment</u>	<u>Source</u>
_____	_____	_____	_____ %	\$ _____	_____
_____	_____	_____	_____ %	\$ _____	_____
_____	_____	_____	_____ %	\$ _____	_____
_____	_____	_____	_____ %	\$ _____	_____

TRIP COST SURVEY

YOUR VESSEL WAS RANDOMLY SELECTED TO PARTICIPATE IN A COMMERCIAL FISHING VESSEL TRIP COST SURVEY. YOU DO NOT HAVE TO REPORT COST INFORMATION FOR ALL OF YOUR TRIPS. YOU ARE BEING ASKED TO PROVIDE INFORMATION ONLY ABOUT YOUR MOST RECENT TRIP.

The information you provide will help to describe the economic characteristics of vessels similar to yours. Fisheries managers need this kind of information in order to make informed decisions that may ultimately affect your fishing business. Decisions are being made every day that may impact you. **Do you want those making these decisions to have accurate information about your fishing operation?**

Since you will probably only report cost information for a few of your fishing trips during a year (some years you may not be selected at all), the FIN will never know your entire costs for the year. Even if you participate in the Fixed Cost Survey, which you may also be randomly selected for, the FIN will not know what your total costs were for the year and so **will not know your profit**. Individual **vessel information will be kept confidential** and only reported in aggregate or by averages according to vessel types.

Instructions

This survey asks you to supply information, related to your operating costs for running a commercial fishing trip, for your most recent fishing trip. If records are unavailable for the most recent trip, for example settlement sheets have not been completed, fill out the survey for the most recent trip that records are available.

It is extremely important that the correct trip identification number and vessel number is used. This information will be used with the logbook information you provided at the end of the trip, information in the Vessel Registration System, and with state and federal permitting systems. Cost information is meaningless unless information about the length of trip, gear used, vessel characteristics, and permits owned is available. The trip and vessel identification numbers provide links to these other databases so that you don't have to provide that information in this survey.

If you don't normally incur a particular cost asked on the survey (for example, bait costs for a trawl vessel), please write N/A (not applicable) as the answer for that question. If you normally incur a particular cost but it happens to be zero for this trip, enter a zero. If you incurred a cost but don't know the amount, record your best estimate or write D/K (don't know).

N/A or blank = you don't normally have that item as a cost.

Zero = normally incur but no cost for this trip.

D/K = Don't know what the cost was but there was a cost (estimate if you can).

THANK YOU FOR YOUR TIME AND EFFORT!

Identification Information

Vessel identification number: _____ (should be hard coded)

Trip identification number: _____ (hard code? - we provide info on what trip we want?)

Was the owner the captain on this trip? Yes No (circle one)

Trip Costs

	<u>Cost this trip</u>	<u>Quantity used this trip</u>
Fuel	\$ _____	_____ gallons
Oil/lubrication	\$ _____	_____ quarts or gallons???????
Ice	\$ _____	_____ tons
Water	\$ _____	_____ gallons
Food	\$ _____	

Type of bait used _____

Bait costs (include any payment, outside of crew share, to labor. Example: labor payment to put bait on hooks or in traps) \$ _____

Cost, outside of crew share, to **grade, unload, or otherwise handle catch** \$ _____

Cost, outside of crew share, to **process fish onboard** (could include additional labor costs and related supplies) \$ _____

Cost to **transport** this trip's catch to market or buyer \$ _____

Cost of any **other supplies** bought and used for this trip (could include replacement hooks, twine, chains, shackles, knives, etc) \$ _____

Crew Payment Information

Choose one of the following methods (with an AX@ describing the way your crew gets paid:

Share of value of catch _____ Per unit catch _____ Hourly rate _____
Daily rate _____ Trip rate _____

=====

Fill out this section if you chose Ashare of value of catch@

Choose type of lay system:

Clear lay (Definition: percentage shares to crew and boat determined **before** trip expenses are deducted)

Broken lay (Definition: percentage shares to crew and boat determined **after** trip expenses are deducted)

Based on the type of lay system, enter the percent of gross receipts (if clear lay) or net receipts (if broken lay) that **goes to the boat** _____%

Based on the type of lay system, enter the percent of gross receipts (if clear lay) or net receipts (if broken lay) that **goes to the crew** (the entire crew, not per man) _____%

Based on the type of lay system, mark the **trip expenses** that are subtracted from either gross receipts (broken lay) or from the crew share (clear lay):

Fuel _____ Oil/lubrication _____ Bait _____ Ice _____ Water _____ Food _____
Other _____ Describe: _____
Other _____ Describe: _____
Other _____ Describe: _____

Choose how each of the following crew members are given bonuses by entering the following numbers: **1 = fixed amount per trip, 2 = % of gross receipts, 3 = % of boat share (before expenses), 4 = % of crew share (before expenses), 5 = other (describe here _____).**

Then for each crew member, enter either their percent bonus or dollar amount.

	Bonus calculation type (use number from list above)	Percentage or dollar amount
Captain	_____	_____ % or \$
Engineer	_____	_____ % or \$
Cook	_____	_____ % or \$
Mate	_____	_____ % or \$

=====

*Fill out this section if you chose **A** per unit catch@*

What is the **unit of volume** on which payment is based (choose one):

Pound ____ Hundred pounds ____ Thousand pounds ____
 Bushel/bucket/tote ____ Per fish ____ Other ____ (describe here _____)

If you chose bushel/bucket/tote, how many **pounds per unit**? _____ lbs

Crew member **payment per unit** \$ _____

=====

Fill out this section if you chose hourly, daily, or trip rate:

Hourly rate per man \$ _____ or

Daily rate per man \$ _____ or

Trip rate per man \$ _____

=====

If your type of lay system is different from any of the above, please describe

Regardless of the lay system, What was the **total amount paid to the crew, including the captain**, on this trip? \$ _____

ANNUAL OWNER/CAPTAIN/CREW SURVEY

YOUR VESSEL WAS RANDOMLY SELECTED TO PARTICIPATE IN A COMMERCIAL FISHING VESSEL ANNUAL OWNER/CAPTAIN/CREW SURVEY. YOU DO NOT HAVE TO REPORT INFORMATION FOR ALL OF YOUR TRIPS. YOU ARE BEING ASKED TO PROVIDE INFORMATION ONLY ABOUT YOUR MOST RECENT TRIP.

The information you provide will help to describe the owner/captain/crew characteristics of vessels similar to yours. Fisheries managers need this kind of information in order to make informed decisions that may ultimately affect your fishing business. Decisions are being made every day that may impact you. **Do you want those making these decisions to have accurate information about your fishing operation?**

Instructions

This survey is designed to be completed by the owner, captain, and each crew member of the vessel's most recent fishing trip.

It is extremely important that the correct trip identification number (trip start date) and vessel number is used. This information will be used with the logbook information you provided at the end of the trip, information in the Vessel Registration System, and with state and federal permitting systems. Owner/Captain/Crew information is meaningless unless information about the length of trip, gear used, vessel characteristics, and permits owned is available. The trip and vessel identification numbers provide links to these other databases so that you don't have to provide that information in this survey.

THANK YOU FOR YOUR TIME AND EFFORT!

Vessel identification number: _____

Trip identification number: _____

1. How do you classify yourself?

- a) vessel owner
- b) owner/captain
- c) captain
- d) mate
- e) engineer
- f) cook
- g) deckhand
- h) other _____

2. How old are you _____

3. What is (are) your ethnic background(s) _____

4. What language do you speak at home? _____

5. How well would you say you speak English?

- a) Not very well
- b) Pretty well
- c) Fluently

6. How well would you say you read English?

- a) Not very well
- b) Pretty well
- c) Fluently

7. What grade did you complete before leaving school?

1 2 3 4 5 6 7 8 9 10 11 12

Some post-secondary school but no degree

Completed Vocational School

Associate's Degree

Bachelor's Degree

Graduate or professional degree

8. Are you married? Yes---> Go to question 8a No---> Go to question 9

8a. Is your spouse involved in any aspect of the fishing industry?

Yes---> Go to question 8b No---> Go to question 9

8b. What fishing-related work does your spouse do?

9. How many adults live in your household right now? _____

Of these adults how many are primarily:

Employed outside the house _____ Full time students _____

Unemployed _____ Retired _____

Self-employed _____

10. Are you supporting any adults (for example, college students) who are not living in your household right now?

Yes -----> How many? _____ No

11. Are any of these adults who are not full time students taking classes of any kind for credit?

Yes ----> 11a No----> 12

11a. What are they studying? _____

12. How many children live in your household right now? _____

13. How would you categorize your general health?

a) excellent b) very good c) good d)not very good e) poor

14) Are you a member of any religion or religious organization?

Yes---> go to question 14a

No---> go to question 15

14a. Please circle all types of organization you are a member of.

a) local Catholic church

e) local non-denominational church

b) local Protestant church

f) other local religious organization

what organization _____

c) local Orthodox church

g) regional or national religious organization

d) local Jewish congregation

what organization _____

Do you consider yourself an active member of any of these organizations?

Yes-> Which letter or letters? _____

No

15) Do you belong to any fishing-related organizations?

Yes-> Go to question 15a

No

15a Which fishing organizations? _____

16? What percent of your household's annual income comes from the fishing industry? _____

17? What was your household's main source of income last

Spring _____

Summer _____

Fall _____

Winter _____

18. Have you ever worked outside the fishing industry?

Yes---> Go to question 18a No.

18a Please list the most important other jobs you have held

Job	Number of years you worked at this job
_____	_____
_____	_____
_____	_____

19. If you were not fishing, what do you think you would do for a living,?

20. Would you like to see your children go into fishing?

Yes No