

**Marine Recreational Fishing Data  
Available on  
Pacific Recreational Fisheries Information Network (RecFIN) Websites**

**1. Survey to collect fishery-dependent data on California marine recreational finfish fisheries**

Marine recreational fishing data are available on Pacific Recreational Fisheries Information Network (RecFIN) websites. The RecFIN was established in 1992 to provide an integrated database of marine recreational fishing for the Pacific coast. The states of California, Oregon, and Washington and the federal National Marine Fisheries Service (NMFS) contribute to the database. The database is maintained by the Pacific States Marine Fisheries Commission (PSMFC). California maintains a separate database for recreational salmon catch and effort.

**1.1 MRFSS**

Marine Recreational Fisheries Statistics Survey (MRFSS) was conducted by the NMFS from 1980 to 2003 (with a hiatus in 1990, 1991, and 1992) in California. The MRFSS collected catch and effort data for marine recreational finfish fisheries and provided estimates of catch and effort. The methods for MRFSS are documented at <http://www.recfin.org/pcmrffss.htm> and [http://www.st.nmfs.noaa.gov/st1/recreational/pubs/data\\_users/index.html](http://www.st.nmfs.noaa.gov/st1/recreational/pubs/data_users/index.html).

**1.2 CRFS**

The California Recreational Fisheries Survey (CRFS) collects data on California's marine recreational fisheries, and estimates the catch and effort of anglers fishing for marine finfish in California. The survey was instituted in January 2004, and is a collaborative effort between the California Department of Fish and Game and the PSMFC with funding from state and federal sources.

The goal of the CRFS is to provide the marine recreational fisheries data needed to manage California's marine resources in a sustainable manner. The CRFS improves upon the previous statewide recreational fishing survey (MRFSS) by increasing field sampling efforts, employing refined methods of effort estimation, and providing estimates for six geographic regions on a monthly basis.

**1.2.1 Methods**

The CRFS is a multi-part voluntary survey conducted in the field and by telephone. Field sampling is conducted during daylight hours at over 400 sites that are accessible to the public and to the field samplers. The CRFS samplers intercept anglers who have completed fishing trips on piers, jetties, beaches, public launch ramps, and commercial passenger fishing vessels (CPFVs). Samplers ask the anglers questions about their fishing activities, examine their catch to determine the number and kinds of fish kept or discarded, and weigh and measure the catch. At the public launch ramp sites, anglers who fished aboard private skiffs are asked to provide fishing location and depth information. In addition, samplers ride aboard

CPFVs and record fishing location, depth, species kept and species released at each stop or drift on the CPFV trip.

A contractor conducts a telephone survey of licensed anglers for information on effort when field observations are not feasible, such as night-time fishing and fishing from boats that return to privately-accessed marinas where a sampler cannot enter. The telephone survey is based on a database of anglers who volunteer their name and telephone number to a license agent when they purchase a California sport fishing license. The contractor also conducts a monthly telephone survey of approximately 10 percent of CPFV operators to estimate effort for this component of the fishery.

The data gathered from field sampling, the telephone survey of licensed anglers, the telephone survey of CPFV operators, and sport fishing license sales statistics are combined to estimate catch and effort for the marine recreational finfish fisheries in California. Catch and effort estimates are reported monthly by six geographical districts and the four modes of fishing (man-made structures, beaches and banks, commercial passenger fishing vessels, and private and rental boats). The CRFS estimates are available online at the RecFIN website: [www.recfin.org/forms/est2004.html](http://www.recfin.org/forms/est2004.html). Documentation of CRFS methods is available at <http://www.recfin.org/crfs.htm> and <http://www.dfg.ca.gov/marine/crfs.asp>.

## **2. Overview of RecFIN Websites**

The main RecFIN website ([www.recfin.org](http://www.recfin.org)) leads to websites that provide sample data and estimates for surveys of marine recreational finfish catch and effort in California, Oregon, and Washington. Information about survey methods, RecFIN member agencies, and RecFIN committees can also be found at the website.

### **2.1 Instructions for Extracting Catch and Effort Estimates from the RecFIN Websites**

The MRFSS data should be consulted for 1980-2003 estimates, while the CRFS estimates should be used for 2004 to the present.

#### **2.1.1 Summarized MRFSS Estimates**

Tabulated MRFSS estimates (1980-2003) can be found at the following website: <http://www.recfin.org/forms/est.html>. The CRFS estimates (2004 onward) in the same format as MRFSS can also be found on this website. However, MRFSS and CRFS estimates are not comparable. The extract page (Figure 1) on this website allows the user to specify how to tabulate the estimates.

Figure 1. The extract page for tabulated catch and effort estimates, 1980-2003.

**Summarize RecFIN Estimates**

Define a table and the catch estimate values it will contain.  
 NOTE: [New data summary system available for estimates after 2003.](#)

**TABLE FILTERS**

Coverage of table values. Default is full survey coverage.

- Subregion
- MARINE AREA
- FISHING MODE
- NAME - Choose one.
  - TAXONOMIC SUPER GROUP
  - TAXONOMIC GROUP
  - USER DEFINED SPECIES GROUP

unidentified fish  
 bottomfish (groundfish)  
 unidentified (sharks)  
 smoothhound, gray  
 smoothhound, brown  
 shark, blue  
 shark, leopard  
 shark, spiny dogfish  
 guitarfish, shovelnose  
 thornback

NOTE: Multiple Selection Possible - Typically, you hold down the 'control' key to select and deselect multiple members of this list. You can also select blocks of members by holding down the 'shift' key on a second click, which selects every member between it and the previous clicked member. Keep the 'control' key down while using the 'shift' key to select additional blocks while preserving already selected members.

- COMMON NAME CONTAINS  Blank selects all species

COMMON NAME CONTAINS  Blank selects all species  
 SORT ALPHABETICALLY

**DEFINE TABLE LAYOUT**

What type of coverage is summarized in the table rows and columns and which estimate values are calculated.

	COLUMN Labels	subregion
ROW Labels	common name	VALUES catch type A

/\*fish per 1000 angler days \*/ Catch types: A=Examined [B=Reported by angler: 1=Dead 2=Alive]

**TIME SPAN**

How many years of data to include in the table. Set rows or columns to year for a trend table, otherwise the years are combined in the calculated estimates.

- STARTING: YEAR 2007 WAVE 1: Jan-Feb
- ENDING: YEAR 2008 WAVE 6: Nov-Dec
- TIME SUM OPTIONS
  - SUM WAVE RANGE BY YEAR
  - SUM FROM START TO END

**OUTPUT**

View the table or download the source data base file used to produce the table.

- Table
  - WIDTH OF PAGE (CHARS) 100
  - HEIGHT OF PAGE (CHARS) 100
  - Include % Standard Error:  YES  NO
  - Number of Decimal places: 0 Average weights add 1 to this value.
  - HTML table format (up to 7x larger download)
- SAS dataset file
- Comma delimited file

Submit Reset

On this website, estimates can be customized by specifying the options listed on the website, described in bold below:

**Subregion:** Specifies a latitudinal range for the estimates. Southern California is defined as the region from Point Conception to the Mexican border. Northern California is defined as the region from Point Conception to the Oregon border.

**Marine Area:** Fishing areas were divided into **ocean** and **inland marine** areas. The ocean included open ocean areas, and did not include sounds, inlets, rivers, and enclosed bays. For the purposes of the survey, the **ocean** was further divided into two categories: the **ocean 3 miles or less from shore**, and the **ocean more than 3 miles from shore**. **Inland marine** areas were defined as other bodies of saltwater besides the oceans, and included sounds, inlets, tidal portions of rivers, bay, estuaries and other areas of salt or brackish water.

**Fishing Mode:** The type of place or platform from which marine recreational fishing occurred. The fishing modes sampled by the survey are:

- Man made:** public structures such as piers, docks, and jetties.
- Beach and bank:** publicly accessible beaches and banks.
- Shore modes:** include both man made and beach and bank.
- Party and Charter Boats:** Any boat from which persons are allowed to sport fish for a fee. In California, these are known as commercial passenger fishing

vessels (CPFVs); they are also commonly called party boats or charter boats. Smaller CPFVs are sometimes called “six-packs”.

- **Private and Rental Boats:** Boats belonging to individuals and rental boats that launch from publicly accessible launch ramps and hoists.
- **Boat modes:** include both party and charter boats and private and rental boats.

The separate estimates for man made mode and beach and bank mode are not available from 1986 through 1989; estimates are only available for the combined shore mode in those years.

**Name:** Allows for summarizing estimates at various taxonomic levels: taxonomic super level, taxonomic group, user-defined species group, or common name.

**Define Table Layout:** This function allows for customizing the content and layout of the output table. Some of the parameters included in this function are **wave** and **catch types**.

- **Wave:** A two-month interval over which estimates are calculated. The Waves are: 1 January-February, 2 March-April, 3 May-June, 4 July-August, 5 September-October, and 6 November-December.
- **Catch Types:** Identify the source of the observation (either by trained interviewers or by anglers) and whether the fish was landed or discarded.
  - **Type A** = Fish that were caught, were landed whole, and were available for identification and enumeration by the interviewers. In addition, the fish were potentially available for weighing and measuring.
  - **Type B** = Fish that were caught but either not kept or not available for identification.
    - **Type B1** = Fish that were caught and filleted, released dead, given away, or disposed of in some way other than Types A or B2.
    - **Type B2** = Fish that were caught and released alive.

The **values** that can be tabulated are:

- Catch (A, A+B1, B1, B2, A+B1+B2) in numbers of fish
- Weight of catch (A, A+B1) in metric tons
- Average length
- Average weight
- Trips (angler trips)

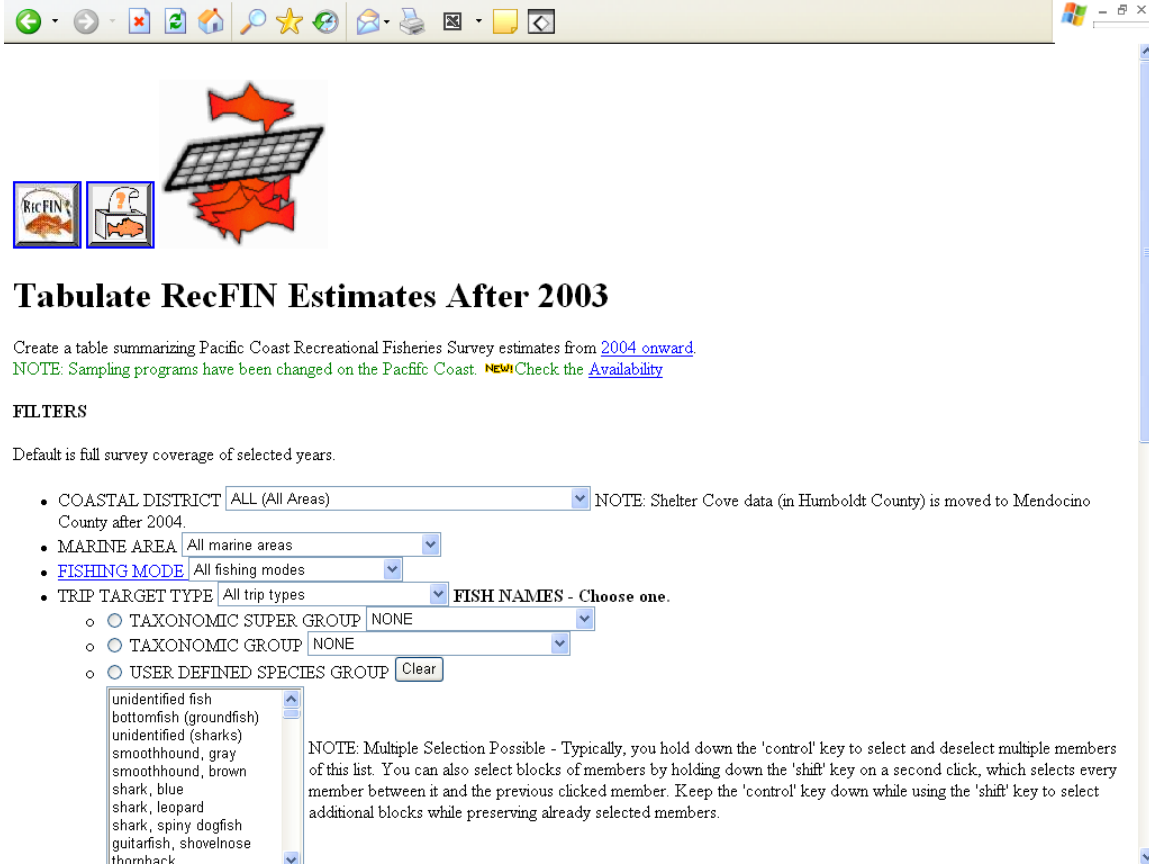
**Time Span:** Specifies the time range over which the estimates are reported.

**Output:** Allows for generating data output in table, SAS dataset, or comma delimited file formats.

## 2.1.2 Summarized CRFS Estimates

Tabulated CRFS estimates can be found at the following website:  
<http://www.recfin.org/forms/est2004.html>. The extract page (Figure 2) on this website allows the user to specify how to tabulate the estimates.

Figure 2. The extract page for tabulated catch and effort estimates, 2004 to present.



The screenshot shows a web browser window with a toolbar at the top. The main content area features a logo with a fish and a grid, and the title "Tabulate RecFIN Estimates After 2003". Below the title, there is a paragraph of text and a "FILTERS" section. The filters include dropdown menus for "COASTAL DISTRICT", "MARINE AREA", "FISHING MODE", and "TRIP TARGET TYPE", along with radio buttons for "TAXONOMIC SUPER GROUP", "TAXONOMIC GROUP", and "USER DEFINED SPECIES GROUP". A list of fish species is visible, and a note explains multiple selection options.

**Tabulate RecFIN Estimates After 2003**

Create a table summarizing Pacific Coast Recreational Fisheries Survey estimates from [2004 onward](#).  
**NOTE:** Sampling programs have been changed on the Pacific Coast. **NEW!** Check the [Availability](#)

**FILTERS**

Default is full survey coverage of selected years.

- COASTAL DISTRICT  NOTE: Shelter Cove data (in Humboldt County) is moved to Mendocino County after 2004.
- MARINE AREA
- FISHING MODE
- TRIP TARGET TYPE  **FISH NAMES - Choose one.**
  - TAXONOMIC SUPER GROUP
  - TAXONOMIC GROUP
  - USER DEFINED SPECIES GROUP

NOTE: Multiple Selection Possible - Typically, you hold down the 'control' key to select and deselect multiple members of this list. You can also select blocks of members by holding down the 'shift' key on a second click, which selects every member between it and the previous clicked member. Keep the 'control' key down while using the 'shift' key to select additional blocks while preserving already selected members.

■ □ SORT ALPHABETICALLY

**DEFINE TABLE LAYOUT**

What type of coverage is summarized in the table rows and columns and which estimate values are calculated.

PAGE Labels: NONE	COLUMN Labels: state
ROW Labels: common name	SUB-COLUMN Labels: NONE
SUB-ROW Labels: NONE	A FISH

Catch types: A=Examined [B=Reported by angler: 1=Dead 2=Alive]

**TIME SPAN**

How many years of data to include in the file.

- STARTING: YEAR 2007 MONTH Jan
- ENDING: YEAR 2008 MONTH Jan
- TIME FILTER OPTIONS
  - FILTER MONTH RANGE BY YEAR
  - FILTER FROM START TO END

**OUTPUT**

View the table or download the source data base file used to produce the table.

- Table
  - WIDTH OF PAGE (CHARS) 100
  - HEIGHT OF PAGE (CHARS) 100
  - Number of Decimal places: 0 Average weights add 1 to this value.
  - HTML table format (up to 7x larger download)
- SAS dataset file
- Comma delimited file

Submit Reset

On this website, estimates can be customized by specifying the options listed on the website, described in bold below:

**Coastal District:** Specifies a latitudinal range for the estimates. California has been divided into six geographic areas or districts for CRFS. The district boundaries generally coincide with county boundaries. Each district is briefly described below.

- 1. South District (CA South)** - Los Angeles, Orange, and San Diego counties.
- 2. Channel District (CA Channel)** - Santa Barbara and Ventura counties.
- 3. Central District (CA Central)** - Santa Cruz, Monterey, and San Luis Obispo counties.
- 4. San Francisco District (CA SF)** - Marin, San Francisco, San Mateo, and Sonoma counties on the coast and seven counties surrounding San Francisco and San Pablo bays (Alameda, Contra Costa, Solano, Sonoma, Marin, San Francisco, and San Mateo counties).
- 5. Wine District (CA Wine)** - Mendocino County and the Shelter Cove section of Humboldt County.
- 6. Redwood District (CA Redwood)** - Del Norte County and the northern part of Humboldt County.

The CRFS Districts can be combined into larger regions. Southern California (**CA Southern**) encompasses the South District and Channel District. Northern California (**CA Northern**) encompasses the other four districts.

**Marine Area:** Fishing areas were divided into **ocean** and **inland marine** areas. The ocean included open ocean areas, and did not include sounds, inlets, rivers, and enclosed bays. For the purposes of the survey, the **ocean** was further divided into two categories: the **ocean 3 miles or less from shore**, and the **ocean more than 3 miles from shore**. **Inland marine** areas were defined as other bodies of saltwater besides the oceans, and included sounds, inlets, tidal portions of rivers, bay, estuaries and other areas of salt or brackish water.

**Fishing Mode:** The type of place or platform from which marine recreational fishing occurred. The fishing modes sampled by the survey are:

- **Man made:** public structures such as piers, docks, and jetties.
- **Beach and bank:** publicly accessible beaches and banks.
- **Shore modes:** include both man made and beach and bank.
- **Party and Charter Boats:** Any boat from which persons are allowed to sport fish for a fee. In California, these are known as commercial passenger fishing vessels (CPFVs); they are also commonly called party boats or charter boats. Smaller CPFVs are sometimes called “six-packs”.
- **Private and Rental Boats:** Boats belonging to individuals and rental boats that launch from publicly accessible launch ramps and hoists.
- **Boat modes:** include both party and charter boats and private and rental boats.

**Trip Target Type:** Allows for summarizing estimates based on groupings of target species called “trip types”. Table 1 lists the species within each trip type. Note that trip types differ between 2004 and 2005 onwards.

Table 1. Comparison of trip type names on the extract page with CRFS trip types in 2004 and 2005-2008.

Trip Type Name on RecFIN Website	2004 Trip Type Name	2004 Component Species	2005-2008 Trip Type Name	2005-2008 Component Species
<b>Other</b>	Other	Any species or kind of fish that is not specifically listed under the 15 other trip-types is placed in the "other" trip-type category.	N/A	N/A
<b>Anything</b>	Anything	Unidentified fish; angler targeting 'anything'	Anything	Angler targeting 'anything'; unidentified fish; and trips targeting invertebrates where finfish are incidentally caught
<b>Salmon</b>	Salmon	Salmon (chinook, coho, pink, chum, and sockeye), sea	Salmonids	Salmon (chinook, coho, pink, chum, and sockeye), sea run



Trip Type Name on RecFIN Website	2004 Trip Type Name	2004 Component Species	2005-2008 Trip Type Name	2005-2008 Component Species
		run trout, steelhead		trout, steelhead
<b>Bottomfish</b>	Rockfish	All rockfish species	Nearshore hard bottom, kelp beds, and shelf/slope hard and soft bottom	All species listed in the federal Pacific Fishery Management Council Groundfish Fishery Management Plan except leopard shark, California skate, sand sole, and starry flounder; all species listed in the California Nearshore Fishery Management Plan; and unidentified bottomfish or groundfish, blacksmith, black croaker, white seabass, other flounders, sea chubs, groupers, grunts, Pacific halibut, sea basses (except spotted sand bass), giant sea bass, kelpfishes, sculpins, wrasses, ocean whitefish, some surfperches (black, kelp, pink, rainbow, reef, sharpnose, striped), and other flatfish and sharks found nearshore over hard bottoms and off shore
<b>Lingcod</b>	Lingcod	Lingcod	N/A	N/A
<b>Highly Migratory</b>	Tunas, Sharks, and Billfish	Tunas, sharks, billfish, skates, rays, mackerels, skipjacks, manta, louvar	Highly migratory species	All species listed in the federal Pacific Fishery Management Council Highly Migratory Species Fishery Management Plan, and other billfishes, Pacific cutlassfish, sunfish, other pelagic sharks, pelagic stingray, other tunas

Trip Type Name on RecFIN Website	2004 Trip Type Name	2004 Component Species	2005-2008 Trip Type Name	2005-2008 Component Species
<b>Coastal Migratory</b>	Yellowtail	Yellowtail	Coastal pelagic and coastal migratory species	All species listed in the federal Pacific Fishery Management Council Pelagic Species Fishery Management Plan (northern anchovy, Pacific mackerel, jack mackerel, Pacific sardine); and other anchovies, Pacific barracuda, butterfish, flyingfish, jacks (family, yellowtail), mackerels (family, bullet, sierras, Pacific bonito), Pacific saury, and unidentified surface fish
<b>White Seabass</b>	White Seabass	White seabass	N/A	N/A
<b>Inshore</b>	Bass, Barracuda, and Bonita	Kelp bass, sand basses, barracuda, giant seabass	Surf and nearshore soft bottom	Leopard shark, California skate, sand sole, starry flounder, croakers/drums (except black croaker and white seabass), herring, spotted sand bass, smelts, and silversides; surfperches not listed under Nearshore hardbottom, kelp beds and shelf/slope hard and soft bottom; and sharks, skates, rays, and flatfish found over nearshore soft bottoms
<b>Halibut</b>	Halibut	California halibut, Pacific halibut	N/A	N/A
<b>Croakers</b>	Croakers	Croakers (except black and spotfin), drum family, shortfin corvina	N/A	N/A
<b>Perches</b>	Perches	Surfperches, seaperches, perches	N/A	N/A
<b>Corbina</b>	Corbina	California corbina	N/A	N/A
<b>Smelt</b>	Smelt	Surf smelt, jacksmelt, topsmelt, silversides family,	N/A	N/A

Trip Type Name on RecFIN Website	2004 Trip Type Name	2004 Component Species	2005-2008 Trip Type Name	2005-2008 Component Species
		eulachon		
<b>Other Anadromous</b>	Sturgeon	White and green sturgeon	Other anadromous	Striped bass, lampreys, shad, and sturgeons
<b>Striped Bass</b>	Striped Bass	Striped Bass	N/A	N/A

Estimates can also be summarized by taxonomic super level, taxonomic group, user-defined species group, or common name.

**Define Table Layout:** This function allows for customizing the content and layout of the output table. Note that CRFS estimates are computed by month, rather than by wave as for MRFSS estimates.

**Catch Types:** Identify the source of the observation (either by trained interviewers or by anglers) and whether the fish was landed or discarded.

- **Type A** = Fish that were caught, were landed whole, and were available for identification and enumeration by the interviewers. In addition, the fish were potentially available for weighing and measuring.
- **Type B** = Fish that were caught but either not kept or not available for identification.
  - **Type B1** = Fish that were caught and filleted, released dead, given away, or disposed of in some way other than Types A or B2.
  - **Type B2** = Fish that were caught and released alive.

The **values** that can be tabulated are:

- Angler Trips = estimate effort
- A Fish = estimated catch of A fish in numbers of fish
- A Metric Tons = estimated catch of A fish in metric tons
- A Mean Weight = estimated average weight of an individual A fish by species or taxonomic group
- A Average Length = estimated average length (fork length) of A fish
- B1 Fish = estimated catch of B1 fish in numbers of fish
- B1 Metric Tons = estimated catch of B1 fish in metric tons
- B1 Mean Weight = estimated average weight of an individual B1 fish by species or taxonomic group
- B1 Average Length = estimated average length (fork length) of B1 fish
- B2 Fish = estimated catch of B2 fish in numbers of fish
- B2 Metric Tons = estimated catch of B2 fish in metric tons
- B2 Mean Weight = estimated average weight of an individual B2 fish by species or taxonomic group
- B2 Average Length = estimated average length (fork length) of B2 fish

- A+B1 Fish = estimated harvest (catch of A+B1) fish in numbers of fish
- A+B1 Metric Tons = estimated harvest (catch of A+B1) in metric tons
- A+B1+B2 Fish = estimated total catch and discards (A+B1+B2 fish) in numbers of fish
- A+B1+B2 Metric Tons = estimated total catch and discards (A+B1+B2 fish) in metric tons
- B1+B2 Fish = estimated discards (released fish) in numbers of fish
- B1+B2 Metric Tons = estimated discards (released fish) in metric tons

**Time Span:** Specifies the time range over which the estimates are reported.

**Output:** Allows for generating data output in table, SAS dataset, or comma delimited file formats.

## 2.2 Download Estimate Files

Users can download the all the components of the estimates into a database using the website: <http://www.recfin.org/forms/dest.html> (or at the RecFIN data page, <http://www.recfin.org/data.htm>, click on Download Estimate Files). The extract page (Figure 3) on this website allows the user to specify the estimates to be extracted. Both MRFSS (1980-2003) and CRFS (2004 to present) estimates files are available on this website. It is important to not that MRFSS and CRFS estimates are not comparable.

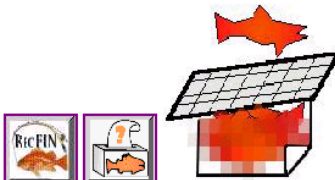
The domains (estimation cells) for MRFSS estimates are year/wave/subregion/water area/fishing mode. The domains for CRFS estimates are year/month/district/water area/fishing mode/trip type.

Figure 3. Extract page for downloading estimate files.

Download RecFIN MRFSS Estimates - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://www.recfin.org/forms/dest.html> Go Links



## Download RecFIN MRFSS Estimates

Create a file containing catch estimates.

### FILTERS

Default is full survey coverage of selected years.

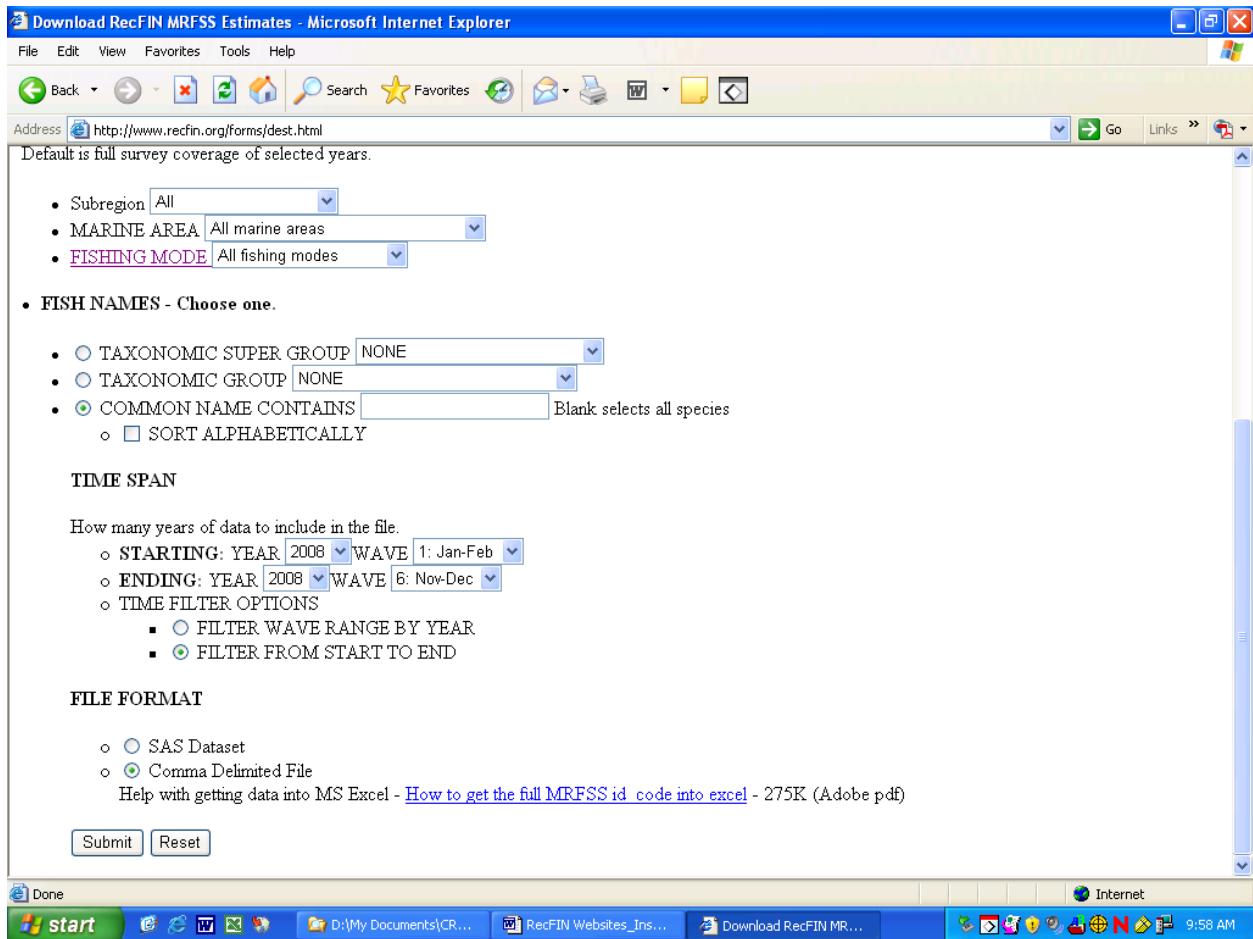
- Subregion
- MARINE AREA
- **FISHING MODE**

• **FISH NAMES - Choose one.**

- TAXONOMIC SUPER GROUP
- TAXONOMIC GROUP
- COMMON NAME CONTAINS  Blank selects all species
  - SORT ALPHABETICALLY

Done RecFIN Websites\_Instructions and Metadata(12-10-06).doc - Microsoft Word | rnet

start D:\My Documents\CR... RecFIN Websites\_Ins... Download RecFIN MR... 9:55 AM



On this website, estimates can be customized by specifying the options listed on the website, described in bold below:

**Subregion:** Specifies a latitudinal range for the estimates. Southern California is defined as the region from Point Conception to the Mexican border. Northern California is defined as the region from Point Conception to the Oregon border.

**Marine Area:** Fishing areas were divided into **ocean** and **inland marine** areas. The ocean included open ocean areas, and did not include sounds, inlets, rivers, and enclosed bays. For the purposes of the survey, the **ocean** was further divided into two categories: the **ocean 3 miles or less from shore**, and the **ocean more than 3 miles from shore**. **Inland marine** areas were defined as other bodies of saltwater besides the oceans, and included sounds, inlets, tidal portions of rivers, bay, estuaries and other areas of salt or brackish water.

**Fishing Mode:** The type of place or platform from which marine recreational fishing occurred. The fishing modes sampled by the survey are:

- **Man made:** public structures such as piers, docks, and jetties.
- **Beach and bank:** publicly accessible beaches and banks.
- **Shore modes:** include both man made and beach and bank.

- **Party and Charter Boats:** Any boat from which persons are allowed to sport fish for a fee. In California, these are known as commercial passenger fishing vessels (CPFVs); they are also commonly called party boats or charter boats. Smaller CPFVs are sometimes called “six-packs”.
- **Private and Rental Boats:** Boats belonging to individuals and rental boats that launch from publicly accessible launch ramps and hoists.
- **Boat modes:** include both party and charter boats and private and rental boats.

The separate estimates for man made mode and beach and bank mode are not available from 1986 through 1989; estimates are only available for the combined shore mode in those years.

**Fish Names:** Allows for summarizing estimates at various taxonomic levels: taxonomic super level, taxonomic group, user-defined species group, or common name.

**Time Span:** Specifies the time range over which the estimates are reported.

**Output:** Allows for generating a SAS dataset or comma delimited file.

The output variables are described on the extract summary page. Variables for CRFS data are described below, and descriptions of variables for MRFSS data can be found at [http://www.st.nmfs.noaa.gov/st1/recreational/pubs/data\\_users/index.html](http://www.st.nmfs.noaa.gov/st1/recreational/pubs/data_users/index.html).

#### Description of variables used in the CRFS estimates

- **COMMON:** AFS Common Name
- **GROUP:** MRFSS Species Group
- **RECFINSP:** RecFIN numeric Species Code. Codes are available at [http://www.recfin.org/lib/2007/Intman2001\\_species\\_by\\_code.pdf](http://www.recfin.org/lib/2007/Intman2001_species_by_code.pdf)
- **SCI\_NAME:** AFS Scientific Name
- **SG\_CODE:** MRFSS Super Group Code
- **SP\_CODE:** MRFSS Species Code
- **SUPER:** MRFSS Species Super Group
- **area\_x:** collapsed area of fishing. 1 = Ocean <= 3 mi, 2 = Ocean > 3 mi, 5 = Inland, 6 = Unknown
- **b1we:** estimated weight of B1 fish in metric tons
- **b1wev:** variance of estimated weight of B1 fish
- **b2we:** Weight estimate of B2
- **b2wev:** Variance of weight estimate of B2 run
- **estclaim:** Estimate of A
- **estclvar:** Variance of estimate of A
- **estharv:** Estimate of B1
- **esthvar:** Variance of estimate of B1
- **estrel:** Estimate of B2
- **estrips:** Estimated trips in triptype
- **estrlvar:** Variance of estimate of B2
- **estwgt:** Weight estimate of A
- **estwtvar:** Variance of weight estimate of A
- **f\_per\_t:** Catch per trip for A fish

- **gp\_code**: Species group codes
- **int\_trip**: Sample observations in stratum
- **land\_var**: Variance of landing
- **landing**: Estimate of total harvest (A+B1)
- **lenb1m**: Mean length of B1 fish
- **lenb1n**: Sample n for length of B1 fish
- **lenb1s**: Sum length of B1 fish
- **lenb1v**: Variance of length of B1 fish
- **lenb2m**: Mean length of B2 fish
- **lenb2n**: Sample n for length of B2 fish
- **lenb2s**: Sum length of B2 fish
- **lenb2v**: Variance of length of B2 fish
- **mode\_fx**: fishing modes. 1 = man-made, 2 = beach/bank, 6 = Party/Charter boat, 7 = Private/Rental Boat
- **numvar**: Variance of estimated trips in triptype
- **smp\_trip**: Sampled anglers in stratum
- **st**: FIPS state code. The code for California is 6.
- **sub\_reg**: geographical region where angler interviewed. 1 = southern California, 2 = northern California, 3 = Oregon & Washington
- **survey**: all CRFS survey estimates are denoted by CRFS
- **te**: Estimated trips in cell
- **tev**: Estimated trips in cell variance
- **tot\_cat**: Estimated total catch (A+B1+B2)
- **tot\_var**: Variance of tot\_cat
- **tsp\_exam**: Sample n for weight of A fish
- **tsp\_len**: Sum length of A fish
- **tsp\_lex**: Sample n for length of A fish
- **tsp\_wgt**: Sum weight of A fish
- **tspavel**: mean length of A fish measured in the intercept survey
- **tspavew**: mean weight of A fish measured in the intercept survey
- **var\_wab1**: variance of wgt\_ab1
- **varlngh**: Variance of length of A fish
- **varwgt**: Variance of weight of A fish
- **wave**: two month time periods. Wave 1 = January & February, Wave 2 = March & April, Wave 3 = May & June, Wave 4 = July & August, Wave 5 = September & October, Wave 6 = November – December.
- **wgt\_ab1**: Estimate of weight of A+B1 (kgs)
- **wgtb1m**: Mean weight of B1 fish
- **wgtb1n**: Sample n for weight of B1 fish
- **wgtb1s**: Sum weight of B1 fish
- **wgtb1v**: Variance of weight of B1 fish
- **wgtb2m**: Mean weight of B2 fish
- **wgtb2n**: Sample n for weight of B2 fish
- **wgtb2s**: Sum weight of B2 fish
- **wgtb2v**: Variance of weight of B2 fish
- **year**: year in which the data were collected, YYYY

### 2.3 Summarize Marine Recreational Sample Data

The user can request summarize sample data such as: number of fish sampled (A), reported released or landed dead (B1), and reported released alive (B2); average length of examined fish; and average weight of examined fish. There are three



versions of this extract program. Version 2 and Version 3 allow the user to segregate the data into more domains (e.g., year/month/subregion/fishing mode).

- <http://www.recfin.org/forms/samp.htm> = Version 1 = Summarize RecFIN Survey Sample Data
- <http://www.recfin.org/forms/samp2.htm> = Summarize RecFIN Survey Sample Data V.2
- <http://www.recfin.org/forms/samp3.html> = Summarize RecFIN Survey Sample Data V.3

On these websites, summaries can be customized by specifying the options listed on the website. The options are the same as described for the tabulated estimates in Section 2.1.1 and Section 2.1.2. Two additional options are available: **fishing gear** and **county**.

## 2.4 Download Sample Data Files

Users can download the all the components of the estimates into a database using the website: <http://www.recfin.org/forms/dsamp.htm> (or at the RecFIN data page, <http://www.recfin.org/data.htm>, click on Download Sample Data Files). The extract page (Figure 4) on this website allows the user to specify the data to be extracted. Both data from the MRFSS (1980-2003) and CRFS (2004 to present) are available on this website.

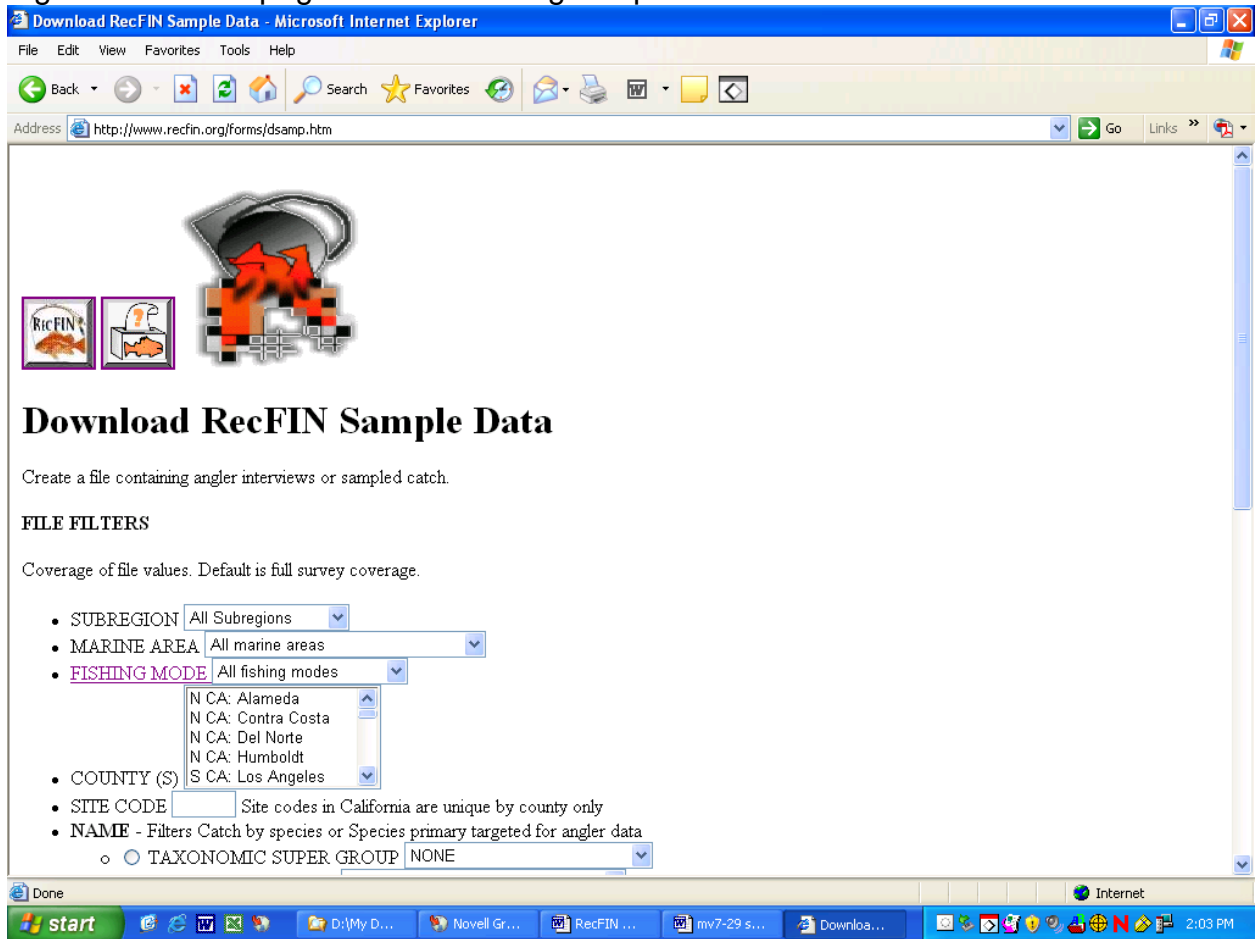
The domains (estimation cells) for MRFSS estimates are year/wave/subregion/water area/fishing mode. The domains for CRFS estimates are year/month/district/water area/fishing mode/trip type.

On this website, the user can specify the data to be extracted by using the options listed on the website. The options are the same as described in Section 2.4 with additional options for data from specific sites. The data is organized by record type:

- PR1 site totals – Type 0 records
- Angler information – Type 1 records
- Angler reported catch – Type 2 records
- Sampler examined catch – Type 3 records
- Sampler examined discards – Type 3d records
- Catch group pointers – Type 4 records
- Boat group – Type 6 records

The descriptions of the variables in each record type are in Appendix A.

Figure 4. Extract page for downloading sample data.



The output variables are described on the extract summary page. Variables for CRFS data are described below, and descriptions of variables for MRFSS data can be found at [http://www.st.nmfs.noaa.gov/st1/recreational/pubs/data\\_users/index.html](http://www.st.nmfs.noaa.gov/st1/recreational/pubs/data_users/index.html).

Description of variables used in the CRFS estimates

Name	Length	Description	Precision	Codes
a	1	COLLAPSED AREA OF FISHING		
aangs		Anglers for type A	15	
ae		Estimate of A	15	
aev		Variance of estimate of A	15	
am		Mean A catch per angler	15	
amv		Variance of mean A catch per angler	15	
an1		Anglers with A catch	15	
an2		Anglers with no A catch	15	
angn		Number of anglers	15	
angs		Number of anglers	15	

area		Marine water area	15	1 = "OCEAN 3 MI. OR LESS" 2 = "OCEAN MORE THAN 3 MI." 3 = "OCEAN AREAS" 4 = "INLAND MARINE AND 3 MI. OR LESS" 5 = "INLAND MARINE AREAS" 6 = "MEXICO" 9 = "MARINE AREAS TOTAL"
as		Type A sample fish	15	
ate		Estimated trips in triptype	15	
atev		Variance of estimated trips in triptype	15	
av		Variance of fish examined (type A)	15	
awe		Weight estimate of A	15	
awev		Variance of weight estimate of A	15	
b0e		Estimate of released dead B0	15	
b0ev		Variance of estimate of released dead B0	15	
b0we		Weight estimate of B0	15	
b0wev		Variance of weight estimate of B0	15	
b1e		Estimate of B1	15	
b1ev		Variance of estimate of B1	15	
b1m		Mean B1 catch per angler	15	
b1mv		Variance of mean B1 catch per angler	15	
b1s		Type B1 sample fish	15	
b1v		Variance of fish reported landed dead (type B1)	15	
b1we		Weight estimate of B1	15	
b1wev		Variance of weight estimate of B1	15	
b2e		Estimate of B2	15	
b2ev		Variance of estimate of B2	15	
b2m		Mean B2 catch per angler	15	
b2mv		Variance of mean B2 catch per angler	15	
b2s		Type B2 sample fish	15	
b2v		Variance of fish reported released alive (type B2)	15	
b2we		Weight estimate of B2	15	
b2wev		Variance of weight estimate of B2 run	15	
b3e		Estimate of released dead B3	15	

b3ev		Variance of estimate of released dead B3	15	
b3m		Mean B3 catch per angler	15	
b3mv		Variance of mean B3 catch per angler	15	
b3s		Fish reported released dead (type B3)	15	
b3v		Variance of fish reported released dead (type B3)	15	
b3we		Weight estimate of B3	15	
b3wev		Variance of weight estimate of B3	15	
b4e		Estimate of releases B4 (B2+B3)	15	
b4ev		Variance of estimate of releases B4 (B2+B3)	15	
b4we		Weight estimate of B4 (B2+B3)	15	
b4wev		Variance of weight estimate of B4 (B2+B3)	15	
b5e		Calculated released dead B5	15	
b5ev		Variance of calculated released dead B5	15	
b5we		Weight of calculated B5	15	
b5wev		Variance of weight of calculated B5	15	
b6e		Calculated released alive B6	15	
b6ev		Variance of calculated released alive B6	15	
b6we		Weight of calculated B6	15	
b6wev		Variance of weight of calculated B6	15	
b7e		Calculated reported dead B7 (B1+B5)	15	
b7ev		Variance of calculated reported dead B7 (B1+B5)	15	
b7we		Weight of calculated B7 (B1+B5)	15	
b7wev		Variance of weight of calculated B7 (B1+B5)	15	
bangs		Anglers for type B	15	
bn1		Anglers with B catch	15	
bn2		Anglers with no B catch	15	
bte		Estimated boat trips	15	
btev		Variance of estimated boat trips	15	
code	10	Mortality taxon code (group or NODC)		
col1		% discard 0-60ft	15	
col2		% discard >60-120ft	15	
col3		% discard >120=180ft	15	
col4		% discard >180ft	15	
common	30	AFS Common Name		

district		Coastal District	15	1 = "South (SDG-LOS)" 2 = "Channel (VEN-SBR)" 3 = "Central (SLO-SCR)" 4 = "Bay Area (MAR-SON -SON 04)" 5 = "Wine (MEN +SON 04)" 6 = "Redwood (HUM-DEL)" 7 = "Southern Oregon" 8 = "Central Oregon" 9 = "Northern Oregon" 10 = "WA Southern Coast" 11 = "WA Central Coast" 12 = "WA Northern Coast" 13 = "Southern Puget Sound" 14 = "Central Puget Sound" 15 = "Northern Puget Sound" 17 = "S. California (SDG-LOS)" 18 = "N, California (SLO-DEL)" 19 = "California" 20 = "Oregon" 21 = "Washington Coast" 22 = "Puget Sound" 23 = "Washington" 99 = "All districts"
dpool		Pool level for mortality by depth	15	

gp_code	SPECIES GROUP CODE	15	
			0 = "NONE" 1 = "SPINY DOGFISH" 2 = "OTHER SHARKS" 3 = "RAYS/SKATES" 4 = "PACIFIC HERRING" 5 = "OTHER HERRINGS" 6 = "NORTHERN ANCHOVY" 7 = "OTHER ANCHOVIES" 8 = "SURF SMELT" 9 = "OTHER SMELTS" 10 = "PACIFIC COD" 11 = "PACIFIC TOMCOD" 12 = "WALLEYE POLLOCK" 13 = "PACIFIC HAKE" 14 = "OTHER CODS AND HAKES" 15 = "JACKSMELT" 16 = "OTHER SILVERSIDES" 17 = "KELP BASS" 18 = "SPOTTED SAND BASS" 19 = "BARRED SAND BASS" 20 = "OTHER SEA BASSES" 21 = "YELLOWTAIL" 22 = "OTHER JACKS" 23 = "WHITE CROAKER" 24 = "CALIFORNIA CORBINA" 25 = "QUEENFISH" 26 = "OTHER CROAKERS" 27 = "OPALEYE" 28 = "HALFMOON" 29 = "OTHER SEA CHUBS" 30 = "SHINER PERCH" 31 = "STRIPED SEAPERCH" 32 = "BLACK PERCH" 33 = "WALLEYE SURFPERCH" 34 = "SILVER SURFPERCH" 35 = "WHITE SEAPERCH" 36 = "PILE PERCH" 37 = "REDTAIL SURFPERCH" 38 = "BARRED SURFPERCH" 39 = "OTHER SURFPERCHES" 40 = "CALIFORNIA SHEEPHEAD" 41 = "OTHER WRASSES" 42 = "PACIFIC BONITO" 43 = "CHUB MACKEREL" 44 = "TUNAS" 45 = "OTHER TUNAS AND MACKERELS" 46 = "BROWN ROCKFISH"

				47 = "COPPER ROCKFISH" 48 = "WIDOW ROCKFISH" 49 = "YELLOWTAIL ROCKFISH" 50 = "CHILIPEPPER ROCKFISH" 51 = "QUILLBACK ROCKFISH" 52 = "BLACK ROCKFISH" 53 = "BLUE ROCKFISH" 54 = "BOCACCIO" 55 = "CANARY ROCKFISH" 56 = "GREENSPOTTED ROCKFISH" 57 = "OLIVE ROCKFISH" 58 = "GOPHER ROCKFISH" 59 = "OTHER ROCKFISHES" 60 = "KELP GREENLING" 61 = "LINGCOD" 62 = "OTHER GREENLINGS" 63 = "CABEZON" 64 = "OTHER SCULPINS" 65 = "SANDDABS" 66 = "CALIFORNIA HALIBUT" 67 = "ROCK SOLE" 68 = "STARRY FLOUNDER" 69 = "OTHER FLATFISHES"
int_trip		Sample observations in stratum	15	
lenam		Mean length of A fish	15	
lenamv		Variance of mean length of A fish	15	
lenan		Sample n for length of A fish	15	
lenas		Sum length of A fish	15	
lenassq		SSQ length of A fish	15	
lenav		Variance of length of A fish	15	
lenb1m		Mean length of B1 fish	15	
lenb1mv		Variance of mean length of B1 fish	15	
lenb1n		Sample n for length of B1 fish	15	
lenb1s		Sum length of B1 fish	15	
lenb1ssq		SSQ length of B1 fish	15	
lenb1v		Variance of length of B1 fish	15	
lenb2m		Mean length of B2 fish	15	
lenb2mv		Variance of mean length of B2 fish	15	

lenb2n		Sample n for length of B2 fish	15	
lenb2s		Sum length of B2 fish	15	
lenb2ssq		SSQ length of B2 fish	15	
lenb2v		Variance of length of B2 fish	15	
m	1	Fishing mode		
mode		Major fishing mode	15	1 = "MAN MADE" 2 = "BEACH/BANK" 3 = "SHORE MODES" 6 = "PARTY/CHARTER BOAT" 7 = "PRIVATE/RENTAL BOAT" 8 = "BOAT MODES" 9 = "MODES TOTAL"
month		Month of data	15	
mort1		0-10fm depth mortality	15	
mort2		>10-20fm depth mortality	15	
mort3		>20-30fm depth mortality	15	
mort4		>30fm depth mortality	15	
pctbn		Trips in sample stratum	15	
recfinsp		RecFIN Species Code	15	
samemort			15	



sg_code	1	MRFSS Super Group Code		0 = "NONE" A = "CARTILAGINOUS FISH" B = "STURGEONS" C = "HERRINGS" D = "ANCHOVIES" E = "SMELTS" F = "CODS AND HAKES" G = "SILVERSIDES" H = "STRIPED BASS" I = "SEA BASSES" J = "JACKS" K = "CROAKERS" L = "SEA CHUBS" M = "SURFPERCHES" N = "PACIFIC BARRACUDA" O = "WRASSES" P = "TUNAS AND MACKERELS" Q = "ROCKFISHES" R = "CALIFORNIA SCORPIONFISH" S = "SABLEFISHES" T = "GREENLINGS" U = "SCULPINS" V = "FLATFISHES" W = "OTHER FISHES"
smp_trip		Sampled anglers in stratum	15	
te		Estimated trips in area_x triptype	15	
tev		Variance of estimated trips in area_x triptype	15	

triptype		trip class	15	0 = "Other Species" 1 = "Anything" 2 = "Salmon" 3 = "Bottomfish" 4 = "Lingcod" 5 = "Highly migratory" 6 = "Coastal migratory" 7 = "White Seabass" 8 = "Inshore" 9 = "Halibut" 10 = "Croakers" 11 = "Perches" 12 = "Corbina" 13 = "Smelt" 14 = "Other anadromous" 15 = "Striped Bass" 99 = "All Triptypes"
tstrat			15	
tt	1	Target species		
wgtam		Mean weight of A fish	15	
wgtamv		Variance of mean weight of A fish	15	
wgtan		Sample n for weight of A fish	15	
wgtas		Sum weight of A fish	15	
wgtassq		SSQ weight of A fish	15	
wgtav		Variance of weight of A fish	15	
wgtb1m		Mean weight of B1 fish	15	
wgtb1mv		Variance of mean weight of B1 fish	15	
wgtb1n		Sample n for weight of B1 fish	15	
wgtb1s		Sum weight of B1 fish	15	
wgtb1ssq		SSQ weight of B1 fish	15	
wgtb1v		Variance of weight of B1 fish	15	
wgtb2m		Mean weight of B2 fish	15	
wgtb2mv		Variance of mean weight of B2 fish	15	
wgtb2n		Sample n for weight of B2 fish	15	
wgtb2s		Sum weight of B2 fish	15	
wgtb2ssq		SSQ weight of B2 fish	15	
wgtb2v		Variance of weight of B2 fish	15	
wgtb3m		Mean weight of B3 fish	15	
year		Year of data	15	

## APPENDIX A

### Summary of variables in sample data from PR1 site totals – Type 0 records

2005-present			2004		
NAME	LABEL	Comments	NAME	LABEL	Comments
ACOUNT	Arrival Count - On Site		ACOUNT	Arrival Count	
ANGSPT	Anglers Sampled on Page		AMWET	AM Weather	
AREA			ANGSGT	Anglers Sampled on Assignment	
BOATSPT	Total Boats Sampled on Page		ANGSPT	Anglers Sampled on Page	
CRFSPT	CRFS Boats Sampled on Page		BOATSGT	Total Boats Sampled on Assignment	
DCOUNT	Departure Count - On Site		BOATSPT	Total Boats Sampled on Page	
DISTRICT		1 ='South (San Diego-Los Angeles)' 2 ='Channel (Ventura-Santa Barbara)' 3 ='Central (San Luis Obispo-Santa Cruz)' 4 ='SF Bay (San Mateo-Marin)' 5 ='Wine (Sonoma-Mendocino)' 6 ='Redwood (Humboldt-Del Norte)'	CRFSGT	CRFS Boats Sampled on Assignment	
ID_CODE	Boat ID		CRFSPT	CRFS Boats Sampled on Page	
ID_FORM	ASSNID+SMPLR+DATE+PAGE		DCOUNT	Departure Count	
MISSPT	Boats Missed on Assignment - On Site		MISSGT	Boats Missed on Assignment	

2005-present			2004		
NAME	LABEL	Comments	NAME	LABEL	Comments
MODE_F	Fishing Mode	1 = 'Pier Dock' 2 = 'Jetty Breakwater' 3 = 'Bridge Causeway' 4 = 'Other man-made Structure' 5 = 'Beach or Bank' 6 = 'Party Boat' 7 = 'Charter Boat' 8 = 'Private or Rental boat'	MISSPT	Boats Missed on Page	
MODE_FX	Collapsed Fishing Mode	1 = 'Man Made (MM)' 2 = 'Beach/Bank (BB)' 6 = 'Party/Charter boats (PC)' 7 = 'Private/Rental boats (PR)'	PMWET	PM Weather	
RECS	<i>Recorded Boat Count</i>		RECS	<i>Recorded Boat Count</i>	
ST	STATE OF SAMPLE		AREA		
SUB_REG		1='S. California' 2='N. California' 3='Oregon' 4='Washington'	DISTRICT		
SURVEY			ID_CODE	Boat ID	
WAVE		1 = 'Jan-Feb' 2 = 'Mar-Apr' 3 = 'May-Jun' 4 = 'Jul-Aug' 5 = 'Sep-Oct' 6 = 'Nov-Dec'	ID_FORM	ASSNID+SMPLR+DATE+PAGE	

2005-present			2004		
NAME	LABEL	Comments	NAME	LABEL	Comments
YEAR			MODE_F	Fishing Mode	1 = 'Pier Dock' 2 = 'Jetty Breakwater' 3 = 'Bridge Causeway' 4 = 'Other man-made Structure' 5 = 'Beach or Bank' 6 = 'Party Boat' 7 = 'Charter Boat' 8 = 'Private or Rental boat'
			MODE_FX	Collapsed Fishing Mode	1 = 'Man Made (MM)' 2 = 'Beach/Bank (BB)' 6 = 'Party/Charter boats (PC)' 7 = 'Private/Rental boats (PR)'
			ST	STATE OF SAMPLE	
			SUB_REG		
			SURVEY		
			WAVE		1 = 'Jan-Feb' 2 = 'Mar-Apr' 3 = 'May-Jun' 4 = 'Jul-Aug' 5 = 'Sep-Oct' 6 = 'Nov-Dec'
			YEAR		

### Summary of variables in sample data from Angler information – Type 1 records

2005-present			2004		
NAME	LABEL	COMMENTS	NAME	LABEL	COMMENTS
ADD_HRS	Added Hrs Fished for Inc Trips		ADD_HRS	Added Hrs Fished For Inc Trips	
ADD_PH	Phone # Provided for Verification		ADD_PH	Phone # Provided For Verification	
AREA	Area of Fishing	1='0-3 mi' '2'='3+ mi' '5'='Inland' '6'='Unknown' 'M'='Mexico' 'N'='SF Bay' 'P'='Puget Sound'	AREA	Area Of Fishing	
AREA_X	Collapsed Area of Fishing	1='Ocean < 3 Miles' '2'='Ocean > 3 Miles' '5'='Inland' 'M'='Mexcio'	AREA_X	Collapsed Area Of Fishing	
CATCH	Catch Available For Id & Counting	1='Examined catch' 2='No examined catch' 3='Group examined catch'	CATCH	Catch Available For Id & Counting	
CNTRBTRS	Number of Contributing Fishermen		CNTRBTRS	Number Of Contributing Fishermen	
CNTY	County of Intercept		CNTY	County Of Intercept	
CNTY_RES	County of Residence		CNTY_RES	County Of Residence	
DATE1	Date File Created		DATE1	Date File Created	
DIST	Distance from Shore	1='Ocean < 3 Miles' 2='Ocean > 3 Miles' 8='Inland'	DIST	Distance From Shore	
FFDAYS2	Dys Salwat.Finfis.(Last 2 Mon.)		FFDAYS2	Dys Salwat.Finfis.(Last 2 Mon.)	

2005-present			2004		
NAME	LABEL	COMMENTS	NAME	LABEL	COMMENTS
FFDAYS12	Dys Salwat.Finfis.(Last 12 Mon.)		FFDAYS12	Dys Salwat.Finfis.(Last 12 Mon.)	
FIRST	First Person Interviewed In Party		FIRST	First Person Interviewed In Party	
F_BY_P	Fish Caught By Individual Interviewed	1='Single angler examined catch' 2='Group examined catch' 8='No examined catch'	F_BY_P	Fish Caught By Individual Interviewed	
GEAR	Type Of Gear	1 = Hook & line 2 = Dip net 3 = Cast net 4 = Gill net 5 = Seine 6 = Trawl 7 = Trap 8 = Spear/spear gun 9 = Hand	GEAR	Type Of Gear	
HRSF	Hours Fished		HRSF	Hours Fished	
ID_CODE	ASSN#+INTVUER+DATE+INT#		ID_CODE	ASSN#+INTVUER+DATE+INT#	
INTSITE	Site Code		INTSITE	Site Code	
MODE_F	Mode of Fishing (Fisherman)	1 = 'Pier Dock'2 = 'Jetty Breakwater'3 = 'Bridge Causeway'4 = 'Other man-made Structure'5 = 'Beach or Bank'6 = 'Party Boat'7 = 'Charter Boat'8 = 'Private or Rental boat'	MODE_F	Mode Of Fishing (Fisherman)	

2005-present			2004		
NAME	LABEL	COMMENTS	NAME	LABEL	COMMENTS
MODE_FX	Mode of Fishing (Fisherman Collapsed)	1 = 'Man Made (MM)' 2 = 'Beach/Bank (BB)' 6 = 'Party/Charter boats (PC)' 7 = 'Private/Rental boats (PR)'	MODE_FX	Mode Of Fishing (Fisherman Collapsed)	
NOLIC	Unlicensed Anglers		NOLIC	Unlicensed Anglers	
NUM_TYP2	Number of Type 2 Records		NUM_TYP2	Number Of Type 2 Records	
NUM_TYP3	Number of Type 3 Records		NUM_TYP3	Number Of Type 3 Records	
NUM_TYP4	Group Catch Contributor		NUM_TYP4	Group Catch Contributor	
NUM_TYP6	Member of Boat Party		NUM_TYP6	Member Of Boat Party	
NUM_TYP8	Location Data Record		NUM_TYP8	Location Data Record	
NUM_TYP9	Name and Phone Record		NUM_TYP9	Name And Phone Record	
PARTY	Number in Fishing Party		PARTY	Number In Fishing Party	
PVT_RES			PVT_RES		
REG_RES	Region of Residence		REG_RES	Region Of Residence	
SEP_FISH		1='Examined catch seperated' 2='Examined catch not seperated'	SEP_FISH		
SEX	Gender of Angler	1='male' 2='female'	SEX	Gender Of Angler	
ST	State of Intercept		ST	State Of Intercept	
ST_RES	State of Residence		ST_RES	State Of Residence	
SUB_REG	Sub Region of Trip	1='S. California' 2='N. California' 3='Oregon' 4='Washington'	SUB_REG	Sub Region Of Trip	



2005-present			2004		
NAME	LABEL	COMMENTS	NAME	LABEL	COMMENTS
TELEFON	Has Home Telephone	1='Has land line'	TELEFON	Has Home Telephone	
TIME	Time of Intercept		TIME	Time Of Intercept	
WAVE	Wave of Data		WAVE	Wave Of Data	
YEAR	Year of Data		YEAR	Year Of Data	
ZIP	Home Zip Code		ZIP	Home Zip Code	
COASTAL	Coastal County Indicator Variable		COASTAL	Coastal County Indicator Variable	
LBOATS	Pr Boats Launched Since Last Interview		LBOATS	Pr Boats Launched Since Last Interview	
MBOATS	Pr Boats Missed Since Last Interview		MBOATS	Pr Boats Missed Since Last Interview	
MMSKIPED	Mm Anglers Skipped Since Last Interview		MMSKIPED	Mm Anglers Skipped Since Last Interview	
MMSTFSHN	Mm Anglers Started Fishing		MMSTFSHN	Mm Anglers Started Fishing	
NFBOATS	Pr Non-Fishing Boats Screened		NFBOATS	Pr Non-Fishing Boats Screened	
NUMTYP8A	Charter Boat Record		NUMTYP8A	Charter Boat Record	
NUMTYP8B	Charter Location Records		NUMTYP8B	Charter Location Records	
NUMTYP8C	Charter Harvest Records		NUMTYP8C	Charter Harvest Records	
PRIM1	Primary Species Sought		PRIM1	Primary Species Sought	
PRIM2	Secondary Species Sought		PRIM2	Secondary Species Sought	
TCNTAREA	Pr Boat Trailer In Count Area		TCNTAREA	Pr Boat Trailer In Count Area	



**Summary of variables in sample data from Angler reported catch – Type 2 records**

NAME		LABEL	Comment
ADD_HRS		Added Hrs Fished For Inc Trips	
AREA		Area Of Fishing	'1'='0-3 mi' '2'='3+ mi' '5'='Inland' '6'='Unknown' 'M'='Mexico' 'N'='SF Bay' 'P'='Puget Sound'
AREA_X		Collapsed Area Of Fishing	'1'='Ocean < 3 Miles' '2'='Ocean > 3 Miles' '5'='Inland' 'M'='Mexcio'
CNTRBTRS		Number Of Contributing Fishermen	
CNTY		County Of Intercept	
DATE1		Date File Created	
DISPO		Disposition Of Type 2 Fish	1='rel alive' 3='eat' 4='bait' 5='gave' 6='rel/ded' 7='other' 8='unknown' 9='refused';
DIST		Distance From Shore	1='Ocean < 3 Miles' 2='Ocean > 3 Miles' 8='Inland'
GEAR		Type Of Gear	0='ALL' 1='HOOK AND LINE' 2='DIP NET' 3='CAST NET' 4='GILL NET' 5='SEINE NET' 6='TRAWL NET' 7='TRAP' 8='SPEAR' 9='HAND' 10='OTHER'
HLOC		Asked Location 3=Same As Boat Leader	
HRSF		Hours Fished	
ID_CODE		ASSN#+INTVUER+DATE+INT#	
INTSITE		Site Code	

<b>NAME</b>		<b>LABEL</b>	<b>Comment</b>
MODE_F		Mode Of Fishing (Fisherman)	1 = 'Pier Dock' 2 = 'Jetty Breakwater' 3 = 'Bridge Causeway' 4 = 'Other man-made Structure' 5 = 'Beach or Bank' 6 = 'Party Boat' 7 = 'Charter Boat' 8 = 'Private or Rental boat'
MODE_FX		Mode Of Fishing (Fisherman Collapsed)	1 = 'Man Made (MM)' 2 = 'Beach/Bank (BB)' 6 = 'Party/Charter boats (PC)' 7 = 'Private/Rental boats (PR)'
NUM2		Interview Type 2 Count	
NUM_FISH		Number Of Fish (Unavail.)	
NUM_TYP2		Number Of Type 2 Records	
SALMON		Salmon Trip	
SHORT		Short Form	
SP_CODE		Nodc Species Code	
ST		State Of Intercept	
STATUS		Interview Status	1='complete' 2='non-key items missing' 3='complete refusal' 4='incomplete language barrier' 5='incomplete key=item refused'
SUB_REG		Sub Region Of Trip	1='S. California' 2='N. California' 3='Oregon' 4='Washington'
TIME		Time Of Intercept	
WAVE		Wave Of Data	1 = 'Jan-Feb' 2 = 'Mar-Apr' 3 = 'May-Jun' 4 = 'Jul-Aug' 5 = 'Sep-Oct' 6 = 'Nov-Dec'
YEAR		Year Of Data	
ASSNID		Assignment Id	
CRFS		Crfs Boat Number	
DEPTHN			

<b>NAME</b>		<b>LABEL</b>	<b>Comment</b>
DISTRICT		Crfs Coastal District	1 ='South (San Diego-Los Angeles)' 2 ='Channel (Ventura-Santa Barbara)' 3 ='Central (San Luis Obispo-Santa Cruz)' 4 ='SF Bay (San Mateo-Marin)' 5 ='Wine (Sonoma-Mendocino)' 6 ='Redwood (Humboldt-Del Norte)'
HLOC2		Examined Fish Harvest Location	
LOCN		Location Number Of Boat	
MONTH		Month Of Data	
PRIM1		Primary Species Sought	
PRIM2		Secondary Species Sought	
RECN		Record Number Of Assignment	
SFCODE		State Fishery Code	T' = 'Tournament' 'B' = 'Bonus' 'C' = 'PC crew' 'P' = 'Private Access' 'L' = 'Lobstser only trip'
SPN		Species Number Of Boat	
SURVEY			

**Summary of variables in sample data from Sampler examined catch – Type 3 records**

NAME		LABEL	COMMENTS
ADD_HRS		Added Hrs Fished For Inc Trips	
AREA		Area Of Fishing	'1'='0-3 mi' '2'='3+ mi' '5'='Inland' '6'='Unknown' 'M'='Mexico' 'N'='SF Bay' 'P'='Puget Sound'
AREA_X		Collapsed Area Of Fishing	'1'='Ocean < 3 Miles' '2'='Ocean > 3 Miles' '5'='Inland' 'M'='Mexcio'
CNTRBTRS		Number Of Contributing Fishermen	
CNTY		County Of Intercept	
DATE1		Date File Created	
DISP3		Majority Disposition Of Type 3 Fish	3='eat' 4='bait' 5='gave' 6='rel/ded' 7='other' 8='unknown' 9='refused';
DIST		Distance From Shore	1='Ocean < 3 Miles' 2='Ocean > 3 Miles' 8='Inland'
FSHINSP		Number Of Fish (Avail.)	
F_SEX		Sex Of Fish (M=Male)	.= 'undetermined'1 = 'Male'2 = 'Female'3 = 'Transitional sheephead'

GEAR		Type Of Gear	0='ALL' 1='HOOK AND LINE' 2='DIP NET' 3='CAST NET' 4='GILL NET' 5='SEINE NET' 6='TRAWL NET' 7='TRAP' 8='SPEAR' 9='HAND' 10='OTHER'
HLOC		Catch From Harvest Location	
HRSF		Hours Fished	
ID_CODE		ASSN#+INTVUER+DATE+INT#	
INTSITE		Site Code	
LNGTH		Fork Length Of Fish (Mm)	
MODE_F		Mode Of Fishing (Fisherman)	1 = 'Pier Dock' 2 = 'Jetty Breakwater' 3 = 'Bridge Causeway' 4 = 'Other man-made Structure' 5 = 'Beach or Bank' 6 = 'Party Boat' 7 = 'Charter Boat' 8 = 'Private or Rental boat'
MODE_FX		Mode Of Fishing (Fisherman Collapsed)	1 = 'Man Made (MM)' 2 = 'Beach/Bank (BB)' 6 = 'Party/Charter boats (PC)' 7 = 'Private/Rental boats (PR)'
NUM3		Interview Type 3 Count	
NUM_TYP 3		Number Of Type 3 Records	
OLD_WG T		Wgt Prior To Calculation	
SALMON		Salmon Trip	
SHORT		Short Form	
SP_CODE		Nodc Species Code	
ST		State Of Intercept	
STATUS		Interview Status	1='complete' 2='non-key items missing' 3='complete refusal' 4='incomplete language barrier' 5='incomplete key=item refused'

SUB_REG		Sub Region Of Trip	1='S. California' 2='N. California' 3='Oregon' 4='Washington'
TIME		Time Of Intercept	
WAVE		Wave Of Data	1 ='Jan-Feb' 2 ='Mar-Apr' 3 ='May-Jun' 4 ='Jul-Aug' 5 ='Sep-Oct' 6 ='Nov-Dec'
WGT		Weight Of Fish (Kg)	
WGT_FLAG		M=Missing R=Outlier Z=Oversize	'0'='real' 'r'='outlier' 'o'='outlier' 'z'='oversize' 'm'='missing'
YEAR		Year Of Data	
ASSNID		Assignment Id	
CRFS		Crfs Boat Number	
DEPTHN			
DISTRICT		Crfs Coastal District	1 ='South (San Diego-Los Angeles)' 2 ='Channel (Ventura-Santa Barbara)' 3 ='Central (San Luis Obispo-Santa Cruz)' 4 ='SF Bay (San Mateo-Marin)' 5 ='Wine (Sonoma-Mendocino)' 6 ='Redwood (Humboldt-Del Norte)'
HLOC3		Reported Fish Harvest Location	
LENFLAG			
LOCN		Location Number Of Boat	
MAXLEN			
MEASN			
MONTH		Month Of Data	
NRS		Non-Recovered Specimen	
PRIM1		Primary Species Sought	
PRIM2		Secondary Species Sought	
REC		Measurement Record	
RECN		Record Number Of Assignment	
SCAN_RS LT		White Seabass Head Scan Result	



SFCODE		State Fishery Code	T' = 'Tournament' 'B' = 'Bonus' 'C' = 'PC crew' 'P' = 'Private Access' 'L' = 'Lobstser only trip'
SPN		Species Number Of Boat	
SURVEY			
T_LEN		Calculated Total Length	
TAG		Fish Tag Code	

### Summary of variables in sample data from Catch group pointers – Type 4 records

NAME	LABEL	COMMENTS
ADD_HRS	Added Hrs Fished For Inc Trips	
AREA	Area Of Fishing	'1'='0-3 mi' '2'='3+ mi' '5'='Inland' '6'='Unknown' 'M'='Mexico' 'N'='SF Bay' 'P'='Puget Sound'
AREA_X	Collapsed Area Of Fishing	'1'='Ocean < 3 Miles' '2'='Ocean > 3 Miles' '5'='Inland' 'M'='Mexcio'
CNTRBTRS	Number Of Contributing Fishermen	
DATE1	Date File Created	
DIST	Distance From Shore	1='Ocean < 3 Miles' 2='Ocean > 3 Miles' 8='Inland'
HRSF	Hours Fished	
ID_CODE	ASSN#+INTVUER+DATE+INT#	
INTSITE	Site Code	
LEADER	Interview Number Of Form With Fish	
MODE_F	Mode Of Fishing (Fisherman)	1 = 'Pier Dock' 2 = 'Jetty Breakwater' 3 = 'Bridge Causeway' 4 = 'Other man-made Structure' 5 = 'Beach or Bank' 6 = 'Party Boat' 7 = 'Charter Boat' 8 = 'Private or Rental boat'
MODE_FX	Mode Of Fishing (Fisherman Collapsed)	1 = 'Man Made (MM)' 2 = 'Beach/Bank (BB)' 6 = 'Party/Charter boats (PC)' 7 = 'Private/Rental boats (PR)'
ST	State Of Intercept	
SUB_REG	Sub Region Of Trip	1='S. California' 2='N. California' 3='Oregon' 4='Washington'
TIME	Time Of Intercept	

WAVE	Wave Of Data	1 ='Jan-Feb' 2 ='Mar-Apr' 3 ='May-Jun' 4 ='Jul-Aug' 5 ='Sep-Oct' 6 ='Nov-Dec'
YEAR	Year Of Data	
ASSNID		
DISTRICT	Crfs Coastal District	1 ='South (San Diego-Los Angeles)' 2 ='Channel (Ventura-Santa Barbara)' 3 ='Central (San Luis Obispo-Santa Cruz)' 4 ='SF Bay (San Mateo-Marin)' 5 ='Wine (Sonoma-Mendocino)' 6 ='Redwood (Humboldt-Del Norte)'
MONTH	Month Of Data	

### Summary of variables in sample data from Boat group – Type 6 records

NAME	LABEL	COMMENTS
ADD_HRS	Added Hrs Fished For Inc Trips	
AREA	Area Of Fishing	'1'='0-3 mi' '2'='3+ mi' '5'='Inland' '6'='Unknown' 'M'='Mexico' 'N'='SF Bay' 'P'='Puget Sound'
AREA_X	Collapsed Area Of Fishing	'1'='Ocean < 3 Miles' '2'='Ocean > 3 Miles' '5'='Inland' 'M'='Mexico'
DATE1	Date File Created	
DIST	Distance From Shore	1='Ocean < 3 Miles' 2='Ocean > 3 Miles' 8='Inland'
HRSF	Hours Fished	
ID_CODE	ASSN#+INTVUER+DATE+INT#	
MODE_F	Mode Of Fishing (Fisherman)	1 = 'Pier Dock' 2 = 'Jetty Breakwater' 3 = 'Bridge Causeway' 4 = 'Other man-made Structure' 5 = 'Beach or Bank' 6 = 'Party Boat' 7 = 'Charter Boat' 8 = 'Private or Rental boat'
MODE_FX	Mode Of Fishing (Fisherman Collapsed)	1 = 'Man Made (MM)' 2 = 'Beach/Bank (BB)' 6 = 'Party/Charter boats (PC)' 7 = 'Private/Rental boats (PR)'
PARTY	Number In Fishing Party	
PRT_CODE	Id Code Of First Member Of Fishing Party	
ST	State Of Intercept	
SUB_REG	Sub Region Of Trip	1='S. California' 2='N. California' 3='Oregon' 4='Washington'
TIME	Time Of Intercept	

WAVE	Wave Of Data	1 ='Jan-Feb' 2 ='Mar-Apr' 3 ='May-Jun' 4 ='Jul-Aug' 5 ='Sep-Oct' 6 ='Nov-Dec'
YEAR	Year Of Data	
ASSNID		
DISTRICT	Crfs Coastal District	1 ='South (San Diego-Los Angeles)' 2 ='Channel (Ventura-Santa Barbara)' 3 ='Central (San Luis Obispo-Santa Cruz)' 4 ='SF Bay (San Mateo-Marin)' 5 ='Wine (Sonoma-Mendocino)' 6 ='Redwood (Humboldt-Del Norte)'
MONTH	Month Of Data	