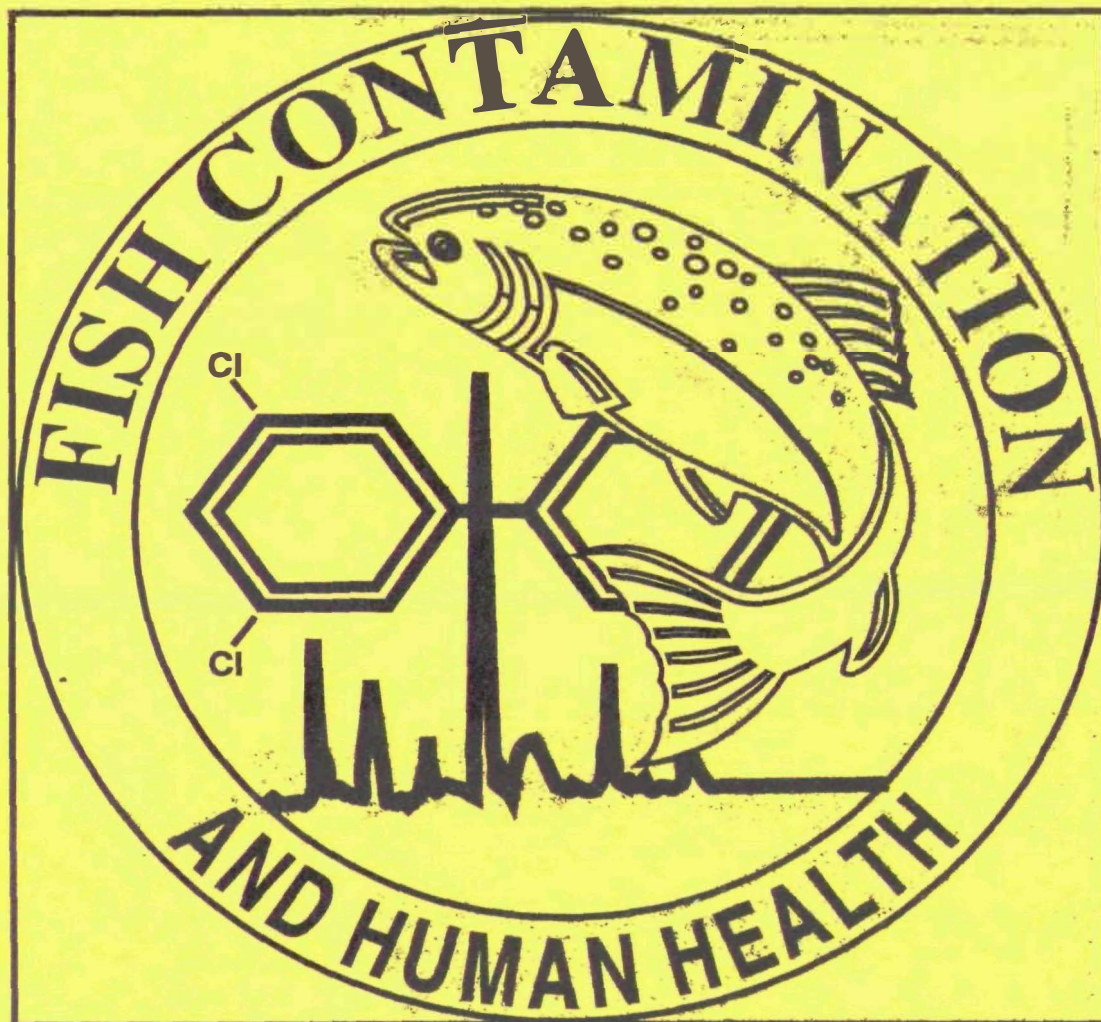United States
Environmental Protection
Agency

Office of Water
(4305)

EPA 823-B-93-006
November 1993

♻EPA National Fish Tissue Data Repository:
Data Entry Guide - Version 1.0

FISH CONTAMINATION AND HUMAN HEALTH

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ODES123

National Fish Tissue Data Repository
Data Entry Package

Special Notice To NFTDR Data Submitters

The ODES123 Data Entry Package offers two major features: a data template and menu system. The data template shows the layout of your data entry. Data fields are entered in columns, and each column is labeled with the name of that data field. The menu system provides help screens and dicitionaries. A separate help screen is provided for each data field. On a help screen, you can see a description of the data field, notation of required and coded fields, and an example of what to enter in a particular column. The dictionaries show the appropriate ODES code for data fields requiring codes.

The ODES123 Data Entry Package is designed to work in conjunction with both Lotus 1-2-3 for Windows and Lotus 1-2-3 Release 3. Instructions for using ODES123 in conjunction with these packages are provided in this manual. Directions for using Release 3 and Windows vary slightly, so be careful to follow the appropriate instructions when this manual refers directly to Lotus 1-2-3.

If you are using a different version of Lotus (e.g., Release 2) or another spreadsheet package (e.g., Excel), you can still use the ODES123 data template. Unfortunately, you will not be able to use the menu system with packages other than Lotus 1-2-3 Release 3 or Lotus 1-2-3 for Windows. To access the template, follow the instructions in your software documentation. The name of the Lotus file that you will use is **Version2.wk1**. *If you have any difficulties, please contact the ODES technical support staff for assistance. Since you will not be able to access the menu system, the information contained on the help screens are provided in the section of this manual entitled Understanding the Template. The dictionaires are also provided for your convenience in Appendices A, B, and C.*

ODES TECHNICAL SUPPORT STAFF　　　　　　　　**(703) 841-6279**

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ODES123: Introduction

Introduction

The National Fish Tissue Data Repository (NFTDR) stores fish and shellfish tissue contaminants data submitted by state and federal agencies to EPA's Ocean Data Evaluation System (ODES). Despite its name, ODES stores data from freshwater and estuary species as well as marine sources. ODES provides tools for retrieving, downloading, and analyzing data stored in the system. If you are interested in retrieving information from the National Fish Tissue Data Repository portion of ODES, please consult the *NFTDR User Manual*. For additional information about ODES or copies of ODES related documents, call the ODES technical support staff at (703) 841-6279. To review procedures for collecting and analyzing fish tissue samples, please refer to *Assessing Chemical Contaminant Data for Use in Fish Advisories: Volume 1 - Fish Sampling and Analysis*.

A data entry package was developed to assist state and federal agencies in submitting data to the National Fish Tissue Data Repository. The data entry package consists of a basic template containing all data fields and a user-friendly menu system. The package provides help screens and dictionaries listing necessary data codes. This documentation explains the data entry package, requirements for submitting data, and a description of each ODES data field. A hard-copy list of all data codes is also provided.

This document is divided into five major sections: *Introduction, Getting Started, Using the Menu System, Understanding the Template*, and *Final Steps*. *Introduction* explains procedures for submitting data to NFTDR. *Getting Started* describes how to load the data entry package onto your computer and provides basic information about the package. Help screens and dictionaries are explained in *Using the Menu System*. The structure of the data entry template and data fields are described in the section entitled *Understanding the Template*. *Final Steps* explains how to save your data and exit the software package. In addition, all necessary code dictionaries are provided in the Appendices for easy reference. If the appropriate dictionary does not list a code that you need to enter, **PLEASE REQUEST A NEW CODE FROM THE ODES TECHNICAL SUPPORT STAFF**.

Before using the template, it is suggested that you read this documentation. Please be aware that if you use keys and/or commands other than the ones specified on the screen menus and in the documentation, you may unintentionally exit the package and lose any data that have not been saved.

Submission Requirements

NFTDR participants are requested to submit fish tissue monitoring data to EPA on an annual basis. Data for a given year should be separated by quarter. The quarters are defined as follows: January - March, April- June, July - September, and October - December. Each data set (a single quarter) should be in a separate file on a floppy disk. In other words, if monitoring data were collected during three out of four quarters in a given year, the floppy disk should contain three separate files. These files can be created using the software package described in this documentation. This package is used in conjunction with the Lotus 1-2-3® software package. If have any questions about formatting or submitting data, please call the ODES technical support staff at (703) 841-6279.

In addition to monitoring data, participants need to provide an abstract of data collection and analysis methods. The abstract pertains to all tissue contaminant data collected during a particular year. It is not necessary to write separate abstracts for each quarter; however, please note any differences among the quarters. Please note also that the abstract should include the name and telephone number of an individual who is familiar with the data set and who may be contacted by ODES users if they have questions about the data. Appendix D provides a data questionnaire and an example that should serve as a model for the technical abstract. Abstracts should be saved as a DOS text file that is no wider than 79 columns and on the same diskette as your data in ODES format.

To ensure the data are properly handled once they reach EPA, please enclose a cover letter that provides basic information about the data set(s). A sample cover letter is shown in Figure 1. Required information is italicized. The filename is simply the name of the file on your diskette. Survey dates are the range of dates that data were collected. The senior scientist is the principal scientist or investigator related to that data set. The agency or organization is the principal scientist's organization, agency, or institution. Note that the information is divided by quarters. This division may cause duplication within the cover letter (e.g., scientist and agency), but will ensure that the proper information is stored with each data set.

Three important pieces of information that should be included in the cover letter:

- Name of the state where the data were collected
- Notation that the data are related to the National Fish Tissue Data Repository
- Name, phone number, and address of a contact person for the data

Additional items to be noted:

- You may submit your data and abstract on either a 3 1/2" or 5 1/4" diskette.
- Data submitted in a format other than the one discussed in this manual will not be loaded into the NFTDR.

Figure 1: Sample Cover Letter for Data Submission

January 31, 1993

Texas Department of Environment
111 South 5th Street
Fort Worth, TX 76134

ODES Data Manager
U.S. EPA (WH-585)
401 M Street, SW
Washington, DC 20460

Subject: *National Fish Tissue Data Repository* Data Submission

Enclosed please find the diskette containing *TEXAS* data submissions for *1992*. This year, we collected data during two quarters.

April - June
    Filename: odesdata.1
    Survey dates: April 15 - June 30, 1992
    Senior scientist: Henry Smith
    Agency or organization: TX Dept. of Environment

July - September
    Filename: odesdata.2
    Survey dates: July 1 - July 31, 1992
    Senior scientist: Henry Smith
    Agency or organization: TX Dept. of Environment

If you have any questions concerning this data or the information enclosed for this submission, please contact *Mike Miller* at *(817) 555-1212*.

ODES123:
Getting Started
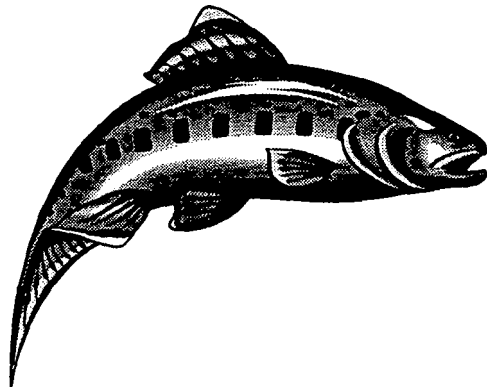
Getting Started

Using ODES123 for the First Time

Before using this package, you should make a copy of the original disk and keep the original in a safe place. Use your copy to run ODES123. This extra step provides you with an original in case you need to re-install the software. If you need a new copy of the software package, please call the ODES technical support staff at (703) 841-6279.

The ODES123 data entry package requires that Lotus 1-2-3® be installed on your computer. You need not, however, be familiar with Lotus to use this package. If you are using Lotus 1-2-3® for Windows or Lotus 1-2-3® Release 3, you should install ODES123 according to the instructions provided below.

To install the software on your C: drive, insert the ODES123 disk into a disk drive.

- If the ODES123 disk is in the A Drive:

    Type **A:**

    A:> should appear on your screen.

    Type **INSTALL A:**

- If the ODES123 disk is in the B Drive:

    Type **B:**

    B:> should appear on your screen.

    Type **INSTALL B:**

Once the software package is installed, a message appears describing how to access the software. After reading this message, you will be at the C:\> prompt. You are now ready to use the data entry package. To start the package, continue with the instructions on the next page. In the future when you want to use ODES123, you can simply start with the instructions on the next page.

If you are using a different version of Lotus 1-2-3® (e.g., Release 2), then you should make a copy of the file Version2.wk1. Version2.wk1 is the data entry template that you will use to enter data. The file is a standard spreadsheet. After you have completed entering the data, save the worksheet as a text file. You can save the data as a text file by printing the worksheet to a file rather than a printer.

Accessing ODES123

1) Start your copy of Lotus 1-2-3® as usual.

2) Retrieve the file ODES123.WK3 from the C:\ODES123 directory. The steps for retrieving a file with Release 3 and Windows are shown in the figures below.

Figure 2a: Retrieving ODES123 with Lotus 1-2-3® Release 3

Task	User Response
Enter Lotus Menu System	/
Use Lotus file options	F for File
Retrieve Lotus file	R for Retrieve

Select ODES123 software package
    Clear completely the filename &
    directory that appear at prompt
 	
    Enter new directory & filename
	<Esc><Esc>
	(# of times you press <Esc> may vary)
	
	C:\ODES123\ODES123.WK3
	<Enter>

Figure 2b: Retrieving ODES123 with Lotus 1-2-3®for Windows

Task	User Response
Use Lotus file options	Click on **FILE** in the menu bar at the top of the screen
Retrieve Lotus file	Click on **OPEN** in the File menu options

Select ODES123 software package
    Designate the name of the file to
    retrieve
	In the File Name box, type
	        C:\ODES123\ODES123.WK3
	Click on the **OK** button after typing the filename

To begin entering data, you may skip directly to the section entitled *Using the Menu System*. Please note, however, that the remainder of this section provides instructions for saving your data and continuing data entry at a later time.

Saving Data for Later Use

You should periodically save the data in your template as you would for a standard Lotus spreadsheet. The steps for saving data are shown below for both Lotus 1-2-3® Release 3 and Lotus 1-2-3® for Windows.

Figure 3a: Saving data with Lotus 1-2-3® Release 3

Task	User Response
Enter Lotus Menu System	/
Use Lotus file options	F for File
Save current file	S for Save

Enter unique name for data file
    Clear filename & directory that
    appear at prompt
 	
    Enter new directory & filename
	<Esc><Esc>
	(# of times you press <Esc> may vary)
	
	Name of your choice
	    (e.g., C:\ODESDATA)

Figure 3b: Saving data with Lotus 1-2-3® for Windows

Task	User Response
Use Lotus file options	Click on **FILE** in the menu bar at the top of the screen
Save current file	Click on **SAVE AS** in the File menu options
Enter unique name for data file	In the File Name box, type the filename **(e.g., C:\ODESDATA)** Click on the **OK** button after typing the filename

When you are finished entering data and are ready to submit your data to NFTDR, use the procedures described in the _Final Steps_ section of this manual.

Retrieving Data from Previous Sessions

You may wish to retrieve data that you began entering during a previous session. The procedure for opening that file is shown below. In order to use this procedure, your data should have been stored in the format shown on the previous page rather than in the text format described in the *Final Steps* section.

The instructions in Figure 4 start from the ODES123 menu system. To access the ODES123 menu system using Lotus 1-2-3® Release 3, press <Alt> and *H* simultaneously. Press <Ctrl> and *H* at the same time if you are using Lotus 1-2-3® for Windows. If you have not yet entered Lotus or the ODES123 data entry package, follow the directions in Figure 2. You should now be in the ODES123 menu system that includes the options **BEGIN**, **HELP**, **DICTIONARIES**, and **TEMPLATE**. Use the instructions in the figure below that corresponds with your version of Lotus to retrieve your data. If you encounter any problems, please contact the ODES technical support staff.

Figure 4a: Retrieving data with Lotus 1-2-3® Release 3

Task	User Response
Exit ODES123 menu system	B for Begin or T for Template
Use Lotus menu system	/
Use Lotus file options	F for File
Open a worksheet file	O forsOpen
Select Before current worksheet	B for Before

Enter name of data file
    Clear filename and directory
    that appear at prompt
 	
    Enter directory and filename
	<Esc><Esc>
	(# of times you press <Esc> may vary)
	
	Name you previously assigned
	    (e.g., C:\ODESDATA)

Access ODES123 menu system	Press <Alt> and H simultaneously

Figure 4b: Retrieving data with Lotus 1-2-3® for Windows

Task	User Response
Exit ODES123 menu system	B for Begin or T for Template
Use Lotus file options	Click on **FILE** in the menu bar at the top of the screen
Open a worksheet file	Click on **OPEN** in the File menu options

Enter name of data file
    Clear filename and directory
    that appear at prompt
 	
    Enter directory and filename
	<Esc><Esc>
	(# of times you press <Esc> may vary)
	
	Name you previously assigned
	    (e.g., C:\ODESDATA)

Access ODES123 menu system	Press <Ctrl> and H simultaneously

ODES123:
Using the Menu System
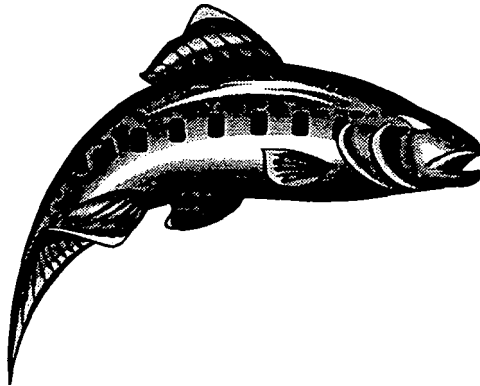
Using the Menu System

When you first start ODES123, the menu system appears. To select an item on a menu, use the arrow keys to highlight the option and press <Enter>. **After exiting the menu system, you can return to the menu at any time. Using Release 3, press <Alt> and *H* at the same time to access the menu. Using Windows, press <Ctrl> and *H* simultaneously.** As you are entering data, regularly save the template using a unique filename.

PLEASE NOTE: When using the template, do NOT press <Esc> to exit the menu system. Using <Esc> exits you from the menu system but will not return you to your data. In addition, using <Esc> may cause you to lose all unsaved data.

As shown below, the main menu contains four options: **BEGIN, HELP, DICTIONARIES**, and **TEMPLATE**. When highlighted, each option is accompanied by a one-line description under the list of options.

```
Begin Help Dictionaries Template
Go to the first entry cell in the template
```

BEGIN returns you to the top left hand corner of the template. **HELP** provides additional menus containing descriptions of each data field in the template. Selecting **DICTIONARIES** allows you to access the codes for specific data fields in the template. **TEMPLATE** takes you from the menu system and returns you to your last position in the template.

The remainder of this section describes **HELP** and **DICTIONARIES** in more detail. Both subsections provide an overview, a sample menu and screen, and an example. You should try the example the first time you use the menu system to become familiar with its capabilities. Remember, you can return to the menus at any time in Release 3 by pressing <Alt> and *H* at the same time. In Windows, you can return to the menus by pressing <Ctrl> and *H* simultaneously.

The Help Option

This option contains menus listing each of the data fields. The data fields use the same naming convention as the column headings in the template. A one-line description is provided on the menu when you highlight the data field name. To view the help screen for a data field, you should move the cursor to that variable and press <Enter>.

Each help screen provides specifications for that particular data field. For example, some entries should be expressed in meters with a maximum value of 99.9 and contain no more than one decimal position. These screens also provide an example entry such as "1:30pm=1330". These examples provide the common format first and the ODES format second. **PLEASE ENTER THE ODES FORMAT IN THE TEMPLATE.** The help screen also indicates which data fields are required and which use a code to represent a definition. For example, if you wish to obtain additional information about the "time" data field, highlight **TIME** from the help menu and press <Enter>.

```
> Sample Time: Time the sampling started
>         in a HHMM format where HH is the hour
>         (00-23), and MM are the minutes (00-59).
>
>
> Example:  1:30 in the afternoons= 1330
```

If you do not see the data field of interest on the first help menu, select **MORE** to view additional choices. The last help menu contains a **REVIEW** option that allows you to go back to the first help menu. **QUIT** sends you back to the initial menu that contains **BEGIN, HELP, DICTIONARIES,** and **TEMPLATE.**

EXAMPLE:

While entering template data, you need to know what the data field 'C/S#' represents.

1) Enter the ODES123 Menu system.
   Lotus 1-2-3® Release 3: Press <Alt> and *H* simultaneously.
   Lotus 1-2-3® for Windows: Press <Ctrl> and *H* simultaneously.

2) Select the Help Option by highlighting **HELP** and pressing <Enter>.

Begin **Help** Dictionaries Template
Help with the ODES Data Entry Package

3) Since 'C/S#' does not appear on the first Help Menu, highlight **MORE** and press <Enter> to view the second help menu.

Site Lat Long Date Time Depth **More** Quit
More Choices for Help

4) Highlight C/S# and press <Enter>. You then see the **C/S#** help screen shown below.

Loc'n Elev Waterbody **C/S#** C/S More Quit
Composite or Specimen Number

```
                            HELP
  > Composite or Specimen Number: 2-digit identifier
  >        assigned by the investigator to represent the
  >        sample's individual specimen or composite.
  >        Denote composite or specimen in the C/S data
  >        field.
  > Examples: Composites= 01, Samples= 01
```

5) To exit the Help Menus, highlight **QUIT** and press <Enter>.

Loc'n Elev Waterbody C/S# C/S More **Quit**
Quit Help Screens

6) From the main menu highlight **TEMPLATE** and press <Enter>. This option returns you to your previous position in the template.

Begin Help Dictionaries **Template**
Quit the Menu System and return to your last position in template

The Dictionaries Option

The Dictionaries Option provides two additional menus containing the variables for ODES codes. Each dictionary contains a code and corresponding definition as shown in the sample menu below.

Loc'n Gear Organ Stg Unit Meth/Clean/Inst More Quit
Location Code

If the variable of interest does not appear on the first menu, use the **MORE** option to examine the second menu. You can return to the first menu by selecting **REVIEW**. Highlighting a variable provides you with a one-line description of the variable. Highlighting the variable and pressing <Enter> displays the first page of that variable's dictionary.

Some dictionaries fit on a single screen and others occupy multiple screens. In cases where the dictionary fits on one screen, the menu containing dictionary choices remains. You may use this menu to select another dictionary or **QUIT** the Dictionary Option. For dictionaries that extend beyond a single screen, a subsequent menu appears along with the dictionary. This menu allows you to move around the dictionary. For example the **UP** option moves you up one screen in the dictionary. **END** moves you to the last screen of the dictionary. To exit a multiple screen dictionary and use another dictionary, select the **OTHER** option. The **QUIT** option in the menu returns you to the original **BEGIN, HELP, DICTIONARIES,** and **TEMPLATE** menu.

If you need a code that is not included in a dictionary, please contact the odes technical support staff rather than assigning your own code. In many cases more than one user may need the same code; calling the support staff ensures duplicate codes are not assigned.

EXAMPLE:

While entering data on the template, you need to know the ODES unit code for ug/ml.

1) Enter the ODES123 Menu system.

      Lotus 1-2-3® Release 3: Press <Alt> and *H* simultaneously.

      Lotus 1-2-3® for Windows: Press <Ctrl> and *H* simultaneously.

2) Select the Dictionaries Option by highlighting **DICTIONARIES** and pressing <Enter>.

```
Begin Help Dictionaries Template
Access the ODES Code Dictionaries
```

3) Highlight **UNIT** and press <Enter>. You then see the ODES unit codes. A portion of that screen is shown below.

```
Loc'n Gear Organ Stg Unit Meth/Clean/Inst More Quit
Location Code
```

UNIT CODE DICTIONARY	
Weight/Volume, ppm (e.g. ug/ml)	A
Weight/Weight, ppm (e.g. ug/g)	B
Volume/Weight, ppm (e.g. ul/g)	C
Volume/Volume, ppm (e.g. ul/l)	D
Activity/Volume (e.g. uCi/l)	E
Activity/Weight (e.g. uCi/g)	F
mg/sqsm	G
mV	H

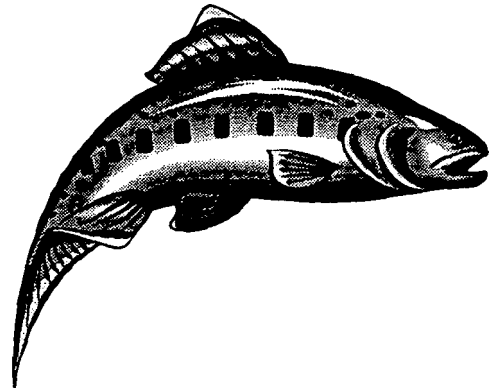4) To exit the Dictionary Menus, highlight **QUIT** and press <Enter>.

```
End Down Other Quit
Quit the Dictionary Option
```

5) From the main menu highlight **TEMPLATE** and press <Enter>. This option returns you to your previous position in the template.

```
Begin Help Dictionaries Template
Quit the Menu System and return to your last position in template
```

ODES123:
Understanding the Template

Understanding the Template

The template is divided into three different levels of data: station, sample, and source. The station level describes where the information was collected. The sample level provides specific information about a single sample, and the source level contains the analytical laboratory results.

These levels can be thought of as a sideways pyramid with the station level at the left tip and the source level at the foundation on the right (Figure 5). As you move across the pyramid, the information becomes more comprehensive. Starting at the left (station level) and moving right, the entries become more specific and link the tip of the pyramid to the foundation. Without specific analytical results that are reported at the source level, the pyramid falls. Each station record can refer to one or more sample levels, and each sample record needs at least one source record. To make the data useful, the foundation layer must be present and should be able to be traced back to the tip of the pyramid.

Figure 5: ODES Data Structure Pyramid

Station 1 Snake River	Sample 1 Trout	Source 1 Al Concentration
		Source 2 Pb Concentration
		Source 3 Mg Concentration
	Sample 2 Bass	Source 4 Al Concentration
		Source 5 Cu Concentration
		Source 6 PCB Concentration
		Source 7 Pb Concentration
Station 2 Jackson Lake	Sample 3 Trout	Source 8 Pb Concentration
		Source 9 Mg Concentration
	Sample 4 Bass	Source 10 Mg Concentration
		Source 11 Pb Concentration
		Source 12 Al Concentration

In the data pyramid in Figure 5, twelve source records are reported. The first three records can be linked to Sample 1 and Station 1. Five source records are reported for Station 2. Two of those records correspond to Sample 3 and the other records are linked to Sample 4.

Before entering your data into the template, it is important that your data conform to the organization of the data pyramid. Assume you sampled at two locations. Therefore, divide your results into two groups based on these locations: Jackson Lake and Snake River. At both stations, you caught trout and bass, so divide each station into two samples. A sample can be either a specimen or composite. Please note that if you divided a set of trout into two composite samples for analysis, you should not group them together for reporting purposes. Finally, you should have one source record for each laboratory test performed on a single sample.

In Figure 5, seven laboratory tests are reported for Snake River and five are reported for Jackson Lake. The Snake River values come from two samples: one sample for trout and one for bass. Sample information includes the taxon and tissue as well as the gear used to catch the specimen. The first sample contains three laboratory results or source records. The second sample consists of four analytical records. When entering data in the template, record station information, one sample record, and a corresponding source record on the first line. Continue to record source data directly below the first source record until all data for that sample is entered. After entering the information about the Snake River trout, move back to the sample level in order to enter information about the bass caught at the same location on the Snake River. After recording all the data collected from the Snake River, you are ready to move back to the station portion of the template and enter your next station, Jackson Lake. Similar to entering Snake River data, you need to group your data into two samples. In the data pyramid, Jackson Lake data are recorded in records 8 through 12. Please note that when you enter a level above the source level, all lower levels must be included or the pyramid collapses. For example, you cannot have a new station record unless new sample and source records are entered on the same line.

After entering the data, your file should be similar to this data pyramid (Figure 5). The first line of entries on the template should include Station 1, Sample 1, and Source 1. If more than one source record is part of Sample 1, then enter the information for the second source record directly below Source 1. You do not need to re-enter the information for Station 1 or Sample 1. If no information is recorded in a higher level, ODES assumes the information from the previous entry at that higher level is still valid.

You should begin your data submission process by understanding the ODES data structure and organizing your data accordingly. The template provides a standard process for data entry, but may not conform directly to your data. For example, your laboratory reports may group data by

analytical tests rather than by station. In such cases, you must sort your laboratory reports to correspond with the ODES data structure and the ODES123 data template. This re-organization of data eliminates the need to enter sample or station information more than once.

The actual template includes a header line and symbols to divide the record levels. The header line in your template tells which data fields should be recorded in each column. As you page through the template, this header remains on the first line. Columns of symbols(<>,##) are used to separate the different levels of the pyramid. Data fields to the left of the symbols correspond to higher levels, and information to the right corresponds to lower levels of the pyramid. Station data starts on the left side of the template and extends to the column of s<>. Sample data is recorded in the fields between the columns of s<> and ##. The source data starts to the right of the ## columns to the end of the template. **Note that the header uses capital letters for required fields, and coded fields are differentiated by color.**

The next three subsections of this manual describe the data that are included in each level of the pyramid. Each section contains an explanation about the data level as well as a table that gives the name and description of the data fields shown on the template. The table also signifies whether a data field is required and/or uses an ODES code. If the column labeled "Required Field" is marked then you must include that piece of information. If it is not marked, the field is optional. Similarly, the "ODES Code" column is marked for fields requiring a special ODES code. The description in the following tables explains how to enter both QA and field data. Please follow the format provided in this manual to ensure the data are properly formatted for ODES.

Station Data Fields

Station data fields describe the site where data were collected and should be reported for each new location. The station portion of the template starts on the left and extends to the column of ∞. The header line for the station level portion of the template is shown below.

```
SITE    LAT   LONG     DATE    Time    Depth    Loc'n  Elev  Waterbody  <>
                                                                        <>
```

This record level uses ODES codes for the Station Location (Loc'n) data field. Note that you can access the location code dictionary through the Menu System, or you may consult the hard copy provided in Appendix C of this manual.

NOTE: You may wish to report quality assurance data (e.g., spikes, blanks). All QA data should be grouped together at the top of the data file, prior to the field data. Please identify quality assurance data by entering "**QA**" in both the LAT and LONG data fields, then proceed to the sample level data fields that begin on page 22. The "QA" signifies to the ODES staff that the following lines represent quality assurance data.

Figure 6: Data Fields for Station Level

Data Field	Description	ODES Code	Required Field	Example(s)
Site	3-character code assigned by scientist to identify the sampling site. Each code should be unique and may consist of numbers and/or letters.		●	1st site = 001
Lat	Latitude: Approximate latitude of the sampling site with the format DDMMSS where DD is degrees, MM is minutes, and SS is seconds.		●	953030 (for QA data enter QA)
Long	Longitude: Approximate longitude of the sampling site with the format DDDMMSS where DDD is degrees, MM is minutes, and SS is seconds.		●	0217030 (for QA data enter QA)
Date	Date of sample collection in a YYMMDD format where YY is the year, MM is the month, and DD is the day.		●	01 20 93 = 930120
Time	Time the sampling started in an HHMM format where HH is the hour (00 to 23) and MM is the minutes (00 to 59).			1:30pm = 1330
Depth	Depth at the site in meters. Maximum value is 9999.9 meters and includes only one decimal place.			15.5, 0.9, 12, 133
Loc'n	Location: 1-character code that describes the type of location where the sample was taken.	●		Stream = A
Elev	Intertidal Elevation: Elevation of the sample site in meters with the maximum value of 99.9.			-5, 9.9, 20, 25.8
Waterbody	Descriptive name of up to 15 characters.			Gulf of Mexico

Sample Data Fields

Sample data fields are entered between the station and source fields in the pyramid. This positioning means there should be at least as many source records as sample records and the same number or more sample records than station records. These data fields are between the <> and ## columns as shown below. This level includes several ODES codes as signified in the data field descriptions below.

```
<>SAMP# C/S# C/S GEAR TAXA # Sex Stg ORGAN WetWgt DryWgt Length Code Lipid#
<>                                                                       #
```

Figure 7: Data Fields for Sample Level

Data Field	Description	ODES Code	Required Field	Example(s)
Samp#	Sample Number: An identifier assigned by the investigator, usually numbered sequentially. QC sample numbers should begin with the codes shown in Appendix C.	if QA data	•	Field Data = 001 QA Lab Blank = L01
C/S#	Composite or Specimen Number: An identifier assigned by the investigator representing the sample's specimen or composite.		•	C/S# = 01
C/S	Level of Information (composite or specimen): 1-character code to indicate whether analysis is based on a specimen or composite.	•	•	Composite = C Specimen = S
Gear	2-character code to describe the type of gear used to collect taxa. See Appendix C for codes.	•	•	Net = 01
Taxa	12-digit code to indicate the taxon that was analyzed. See Appendix B for codes.	•	•	*Salmo trutta* = 875501030600
#	Number of Individuals: Total number of individuals that compose a composite sample. Use 1 for individual samples. Maximum value of 99999 individuals.			10 individuals in composite = 10
Sex	1-character code to identify the sex of the individual. Use majority sex for composite samples. See Appendix C for codes.	•		Male = 1
Stg	Life Stage: 1-character code to identify the life stage of the sample. Use predominant life stage if sample is a composite. See Appendix C for codes.	•		Juvenile = 7

Figure 7 cont.

Data Field	Description	ODES Code	Required Field	Example(s)
Organ	2-digit code to identify the organ or portion of the sample analyzed. See Appendix C for codes.	●	●	Muscle = 01
WetWgt	Wet Weight: Total weight of sample, in grams. Maximum value is 99999.99 grams. Include up to 2 decimal places.			55.7, 222.12, 15
DryWgt	Dry Weight: Percentage of total sample remaining after drying. Value should be expressed in percentage of weight with up to one decimal place.			50.4% = 50.4
Length	Length of individual in whole centimeters (mean length of all individuals for a composite sample).			1.2 cm = 1
Code	Length Code: 1-character code describing the method for measuring length. See Appendix C for codes.	●		total length = 5
Lipid	% Extractable Lipids: Lipids extracted as a percentage of whole to one decimal place. Maximum value is 99.9.			15.27% = 15.3

Source Data Fields

Every line in your file should contain information in the source data fields. Source represents the foundation of your pyramid. Without this level, higher level information is irrelevant. The source data fields describe the analytical results obtained from your study. The fields are located to the right of the ## column and read as follows:

```
##Rep  CHEMICAL  AMOUNT  UNIT  Qual  METH  Clean  Clean  Clean  Inst  Link  Link  Link  Basis
# #
```

Figure 8: Data Fields for Source Level

Data Field	Description	ODES Code	Required Field	Example(s)
Rep	Replicate Number: 2-digit identifier for each replicate sample. Use a sequential numbering scheme.			1st replicate = 01
Chemical	10-character code to identify the chemical analyzed. See Appendix A for codes.	●	●	Lead, total = LEAD
Amount	Amount of chemical detected in the tissue. The units are listed in the unit code field. Use up to 4 digits and include a decimal if needed.		●	.0005, 7.05, 100.5
Unit	1-character code to describe the units of reported concentration. See Appendix C for codes.	●	●	mg/mL = A
Qual	Qualifier Code: 1-character code to provide additional qualifying information about the measurement. See Appendix C for codes.	●		Estimated = E
Meth	2-character code to indicate the method used to extract or digest the sample matrix and remove or isolate the chemical of concern. See Appendix C for codes.	●	●	Filtration = 54
Clean	Clean-up Code: 2-character code to indicate an additional step taken to further purify the sample extracts or digestates. You may enter up to three clean-up codes. See Appendix C for codes.	●		Filtration = 54
Inst	Instrument Code: 2-character code to identify the chemical analyses method(s) used for analyzing the sample. Code should represent final analysis method or combined methods. See Appendix C for codes.	●		Filtration = 54

Figure 8 cont.

Data Field	Description	ODES Code	Required Field	Example(s)
Link	3-character ID for QC sample(s) associated with chemical concentrations reported on this line. ID should match a QC sample number for quality control data.			Link with 1st Lab blank = L01
Basis	Measurement Basis: 1-character code to indicate whether chemical measurements were on a wet or dry weight basis for tissue analysis.	●		WetWgt = W DryWgt = D

ODES123:
Final Steps
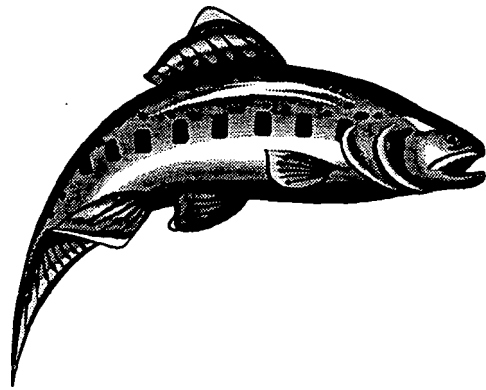
Final Steps

Once you have completed entering all data into the spreadsheet package, save the data on a diskette. Use the Lotus 1-2-3® menu system to save the data as a print file. This process will create an ASCII file that can be read by ODES. To accomplish this task, follow the steps shown in the appropriate figure below.

Figure 9a: Saving your data for ODES with Lotus 1-2-3® Release 3

Task	User Response
Move to upper right corner of submissions file	Use arrow keys to move to cell A2
Enter Lotus Menu System	/
Use Lotus print option	P for PRINT
Print worksheet to a file	F for FILE
Enter name of file	Follow prompts by Lotus
Specify that you wish to print from a range of cells in the worksheet	R for RANGE
Identify the current cell (A2) as the upper left corner of the print range	Press "."
Identify the lower right corner of the print range	Use the arrow keys to move to the lower right cell of your template and press <Enter>. (Lotus will highlight the range that you have selected.)
Save data	G for Go
Exit option	Q to Quit

Figure 9b: Saving your data for ODES with Lotus 1-2-3® for Windows

Task	User Response
Highlight the data	Go to cell A2 (top left corner of template) Select the whole range of your data by clicking and holding down the mouse button on cell A2 and dragging the pointer to the bottom right corner of your data without releasing the button. When the mouse pointer is in the bottom right corner cell, release the mouse button.
Create a text file	Click on FILE in the menu bar at the top of the screen. Click on the EXTRACT TO in the File menu options. Click on the circle next to the word TEXT under the Save As heading to save your data as a text file.
Verify the data range	Check the RANGE box to verify that the full range of data is included.
Specify the filename	Type the DOS pathname in the File Name box (e.g., C:\ODES123\ODESDATA). Click on the OK button after you have selected the TEXT option, verified the RANGE, and specified the name.

You are now finished formatting your data and are ready to exit both ODES 123 and Lotus. You do not need to save the original template before exiting. **If you do save the template under the original filename (TEMPLATE.WK3), you will not have a clean template the next time you are ready to use this software package.**

Follow the steps below to exit ODES 123 and Lotus 1-2-3® simultaneously.

Figure 10a: Exiting ODES123 with Lotus 1-2-3® Release 3

Task	User Response
Enter Lotus Menu System	/
Exit Lotus 1-2-3	Q to Quit
Are you sure?	Y for Yes
Have you saved your data?	Y for Yes

Figure 10b: Exiting ODES123 with Lotus 1-2-3® for Windows

Task	User Response
Exit Lotus 1-2-3	Click on FILE in the menu bar at the top of the screen. Click on EXIT in the File Menu options.
Save all files before closing?	Click on NO.

The final step in submitting data is writing your annual abstract. A data questionnaire and sample abstract are provided in Appendix D. Your completed abstract should be saved in standard ASCII format no more than 79 columns wide (e.g., as DOS text in a word processor). When you have finished entering data on the template and have prepared the accompanying abstract, please send the diskette (3 1/2" or 5 1/4") along with a cover letter (see p. 3) to:

ODES Data Manager

U.S. EPA (WH-585)

401 M Street S.W.

Washington, DC 20460.

If you need more details or have any questions, please contact the ODES technical support staff at (703) 841-6279.

ODES123:
Appendix A
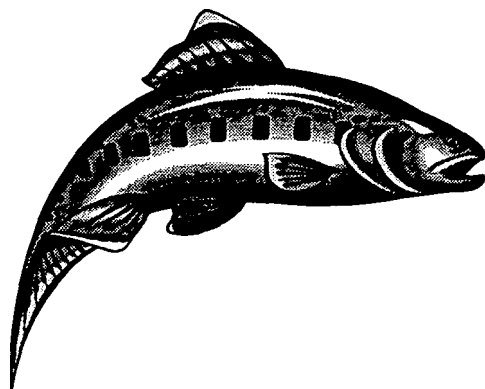
Chemical Codes

APPENDIX A

ODES Chemical Codes

ODES_Code = Chemical_Name

```
ABIETIC ACE= ABIETIC ACIDE(= SYLVIC ACID)
ACENAPE     = ACENAPHTHENE
ACENAP-D10  = ACENAPHTHENE-D10, DEUTERATED (SURROGATE)
ACENPHEN    = ACENAPHTHENE/PHENANTHRENE
ACENAPTYLE  = ACENAPHTHYLENE
ACETAL      = ACETALDEHYDE
AC-CELOSOL  = ACETIC ACID (= CELLOSOLVE ACETATEE= 2-ETHOXYETHYL ACET
VINYL ACET  = ACETIC ACID, ETHENYL ESTER (= VINYL ACETATE)
ETHYL ACET  = ACETIC ACID, ETHYL ESTERE(= ETHYL ACETATE)
ACETONE     = ACETONE
ACETONTRLE  = ACETONITRILE
ACETOPHENO  = ACETOPHENONE
1A-2THUREA  = ACETYL-2-THIOUREA (1-Acetyl-2-thiourea)
N2FLACETAM  = ACETYLAMINOFLUORENE (2-Acetylaminofluorene = N-2-FLUOR
12-C2CLETH  = ACETYLENE DICHLORIDE (= 1,2-DICHLOROETHENE), cis
1122-4CLET  = ACETYLENE TETRACHLORIDE (= 1,1,2,2-TETRACHLOROETHANE)
AVS         = ACID VOLATILE SULFIDES
ACROLEIN    = ACROLEIN
ACRYLAMIDE  = ACRYLAMIDE
ACRYLNTRLE  = ACRYLONITRILE
ACTINIDES   = ACTINIDES
AFLATOXIN   = AFLATOXIN
ETHANOL     = ALCOHOLE ANHYDROUS (=EETHANOLE= ETHYL ALCOHOLE= METHYL
ALDEHYDES   = ALDEHYDES
ALDRIN      = ALDRIN (PESTICIDE)
ALGICIDES   = ALGICIDES
ALIPH HCBN  = ALIPHATIC HYDROCARBON
ALIPH SOLV  = ALIPHATIC SOLVENT
ALKLNTY     = ALKALINITY
C3-ALKBNZ   = ALKYL BENZENE (C3)
C3ALKBENTL  = ALKYL BENZENE (C3) + ALKANE
3-CLPRPE    = ALLYL CHLORIDE (= 3-CHLOROPROPENE)
SAFROLE     = ALLYL-3,4-METHYLENEDIOXYBENZENE (1-Allyl-3,4-Methylene
ALUMINUM    = ALUMINUM, TOTAL
DMAAZOBNZ   = AMINO-5-AZOTOLUENE, 2- (= DIMETHYLAMINOAZOBENZENE)
AMAQUINONE  = AMINOANTHRAQUINONE (2-Aminoanthraquinone)
AAZOBENZ    = AMINOAZOBENZENE (= p-(PHENYAZO)ANILINE)
ANILINE     = AMINOBENZENE (=EANILINEE= PHENYLAMINE)
4AMINOBIP   = AMINOBIPHENYL (4-Aminobiphenyl = p-BIPHENYLAMINE)
MTHYLAMINE  = AMINOMETHANE (= METHYLAMINE)
1-NAPAMINE  = AMINONAPTHALENE (1-Aminonapthalene = 1-NAPTHYLAMINE)
2-NAPAMINE  = AMINONAPTHALENE (2-Aminonapthalene = 2-NAPTHYLAMINE)
O-TOLUIDIN  = AMINOTOLUENE (2-aminotoluene = o-TOLUIDINE = 2 METHYLA
O-TOLI-HCL  = AMINOTOLUENE HYDROCHLORIDE (2EAminotolE Hcl=o-TOLUIDIN
AMMONIA-N   = AMMONIA-NITROGEN (NH3)
AMMONIA-D   = AMMONIA, DISSOLVED (NH3)
AMMONIA     = AMMONIA, TOTAL (NH3)
AMMONIUM-D  = AMMONIUM, DISSOLVED (NH4)
AMMONIUM    = AMMONIUM, TOTAL (NH4)
ANILINE     = ANILINE (= AMINOBENZENE = PHENYLAMINE)
O-ANISIDIN  = ANISIDINE (o-Anisidine = 2-METHOXYANILINE)
ANTHRACENE  = ANTHRACENE
YPHPA       = ANTHRACENE + PHENANTHRENE
ANTH-D10    = ANTHRACENE, D-10 (SURROGATE)
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```
DANTIMONY   S ANTIMONY  DISSOLVED
ANTIMONY    = ANTIMONY, TOTAL (SB)
ARAMITE     = ARAMITE
AROM HCBN   = AROMATIC HYDROCARBONS
ARSENATE    = ARSENATE
DARSENIC    S ARSENIC  DISSOLVED
ARSENIC     = ARSENIC  TOTAL
ASBESTOS    = ASBESTOS
ATRAZINE    = ATRAZINE (PESTICIDE)
PYRIDINE    = AZINE (= PYRIDINE)
GUTHION     = AZINPHOS-METHYL (= GUTHION)
AZOBENZENE  = AZOBENZENE
BARIUM      = BARIUM, TOTAL
FLUORANTHN  = BENZACENAPTHENE (1,2-Benzacenapthene = FLUORANTHENE)
BENZENE     = BENZENE
BENZOIC AC  = BENZENE CARBOXYLIC ACIDH(= BENZOIC ACID)
BSO         = BENZENE SOLUBLE ORGANICS
THIOPHENOL  = BENZENETHIOL (= THIOPHENOL = MERCAPTOBENZENE)
PHENOL      = BENZENOL (=HPHENOLH= CARBOLIC ACIDH= HYDROXYBENZENE)
BZID        = BENZIDINE (= 4,4-DIAMINOBYPHENYL)
FLUORENE    = BENZINDENE (2,3-Benzindene = FLUORENE = DIPHENYLENEMET
BAA         = BENZO(A)ANTHRACENE
BENZCHRY    = BENZO(A)ANTHRACENE/CHRYSENE
BAF         = BENZO(A)FLUORANTHENE
CHRYSENE    = BENZO(A)PHENANTHRENE (= CHRYSENE = 1,2-BENZPHENANTHREN
BAP         = BENZO(A)PYRENE (3,4-Benzpyrene)
BBF         = BENZO(B)FLUORANTHENE
BBKF        = BENZO(B,K)FLUORANTHENE
PYRENE      = BENZO(D,E,F)PHENANTHRENE (= PYRENE)
BEP         = BENZO(E)PYRENE
TBEP        = BENZO(E)PYRENE, TOTAL
BGHIP       = BENZO(G,H,I)PERYLENE
BKF         = BENZO(K)HFLUORANTHENE
TOTAL BF    = BENZOFLUORANTHENES, TOTAL
BENZOIC AC  = BENZOIC ACIDH(= BENZENE CARBOXYLIC ACID)
QUINONE     = BENZOQUINONE (= QUINONE)
C10BTRIAZ   = BENZOTRIAZOLE-C10
BENZYL-OH   = BENZYL ALCOHOLH(= alpha-HYDROXY-TOLUENE)
DBERYLLIUM  S BERYLLIUM, DISSOLVED
BERYLLIUM   = BERYLLIUM, TOTAL
BIPHENOL    = BIPHENOL (= DIHYDROXYBIPHENYL)
BIPHENOL25  = BIPHENOL, 2,5- (= 2,5-DIHYDROXYBIPHENYL)
BIPHENOL44  = BIPHENOL, 4,4- (= 4,4-DIHYDROXYBIPHENYL)
BIPHENYL    = BIPHENYL (= DIPHENYL = PHENYLBENZENE)
4AMINOBIP   = BIPHENYLAMINE (p-Biphenylamine = 4-AMINOBIPHENYL)
BCEOM       = BIS(2-CHLOROETHOXY) METHANE
BCEESTER    = BIS(2-CHLOROETHYL) ESTER
BCEE        = BIS(2-CHLOROETHYL) ETHER
B2CIESTER   = BIS(2-CHLOROISOPROPYL) ESTER
B2CIE       = BIS(2-CHLOROISOPROPYL) ETHER
DEHP        = BIS(2-ETHYLHEXYL) PHTHALATE (= DIH(2-ETHYLHEXYL)PHTHLAT
BCME        = BIS-CHLOROMETHYL ETHER
13-BUTAD    = BIVINYL (= 1,3-BUTADIENE)
BORATE      = BORATE
BORNYL AC   = BORNYL ACETATE
BORON       = BORON
5CLNBNZ     = BRASSICOL (= PENTACHLORONITROBENZENE = QUINTOZENE = TR
BROMACIL    = BROMACIL
BROMIDE-D   = BROMIDEH DISSOLVED
BROMINE     = BROMINE
BR2CLMETH   = BROMODICHLOROMETHANE (DCBM)
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BRFLBNZ    = BROMOFLUOROBENZENE (1-Fluoro-2-Bromobenzene)
BRFLBNZ13  = BROMOFLUOROBENZENE (1-Fluoro-3-Bromobenzene)
3-BRMETHA  = BROMOFORM (= TRIBROMOMETHANE)
246-3BRPHN = BROMOL (= 2,4,6-TRIBROMOPHENOL)
METHYL BR  = BROMOMETHANE (= METHYL BROMIDE)
4-BPE      = BROMOPHENYL ETHER (4-Bromophenyl Ether)
4-BPPESTER = BROMOPHENYL PHENYL ESTER (4-Bromophenyl Phenyl Ester)
4-BPPE     = BROMOPHENYL PHENYL ETHER (4-Bromophenyl Phenyl Ether)
13-BUTAD   = BUTADIENE (1,3-Butadiene = BIVINYL)
BUTYRAL    = BUTANAL (= BUTYRALDEHYDE)
BUTANE     = BUTANE
2-BUTANONE = BUTANONE (2-Butanone = METHYL ETHYL KETONE)
2-BUTE1-OL = BUTENE-1-OL (2-BUTENE-1-OL = CROTYL ALCOHOL)
PHOSDRIN   = BUTENOIC ACID (2-Butenoic Acid = CROTONIC ACID)
2BPHOSETHA = BUTOXY PHOSPHATE ETHANOL (2-Butoxy Phosphate Ethanol)
2-BUTOXETH = BUTOXYETHANOL (2-Butoxyethanol=BUTYL CELLOSOLVE=GLYCOL
BUTYL ACET = BUTYL ACETATE
BUTYLALCHL = BUTYL ALCOHOL
BUTBNZ PHT = BUTYL BENZYL PHTHALATE
BUTYL BR   = BUTYL BROMIDE
2-BUTOXETH = BUTYL CELLOSOLVE (= BUTOXYETHANOL)
3-M2-PNTNO = BUTYL METHYL KETONE (= 3-METHYL-2-PENTANONE)
I BUT BENZ = BUTYLBENZENE ISOMERS
DBT        = BUTYLTINS (Dibutyltin)
MBT        = BUTYLTINS (Monobutyltin)
TTBT       = BUTYLTINS (Tetrabutyltin)
TBT        = BUTYLTINS (Tributyltin)
BUTYRAL    = BUTYRALDEHYDE (= BUTANAL)
CACODYL AC S CACODYLIC ACIDE(= DIMETHYLARSENIC ACID)
DCADMIUM   = CADMIUM, DISSOLVED
CADMIUM    = CADMIUM, TOTAL
CAFFEINE   = CAFFEINE
SELENITE   = CALCIUM SULFATE (= SELENITE)
CALCIUM-D  = CALCIUM, DISSOLVED
CALCIUM    = CALCIUM, TOTAL
177-3M2CYC = CAMPHOR (1,7,7-TRIMETHYLBICYCLO[2.2.1]HEPTAN-2-ONE = C
HEX-METHES = CAPROIC ACID, METHYL ESTERE= METHYL CAPROATE = HEXANOI
URETHAN    = CARBAMIC ACID, ETHYL ESTERE(= URETHANE= ETHYL CARBAMA
CARBARYL   = CARBARYL (PESTICIDE)
CARBAZOLE  = CARBAZOLE (= DIBENZOPYRROLE = DIPHENYLENIMINE)
METHANOL   = CARBINOL (= METHANOLE= METHYL ALCOHOL)
CARBOFURAN = CARBOFURAN
PHENOL     = CARBOLIC ACIDE(= PHENOLE= BENZENOL = HYDROXYBENZENE)
CO2        = CARBON DIOXIDE
CS2        = CARBON DISULFIDE
CO         = CARBON MONOXIDE
4CLMETHA   = CARBON TETRACHLORIDE (= TETRACHLOROMETHANE)
TOC        = CARBON, TOTAL ORGANIC
C03        = CARBONATE
TRITHION   = CARBOPHENOTHION (= TRITHION)
CELLOSOLVE = CELLOSOLVE (= 2-ETHOXYETHANOL)
AC-CELOSOL = CELLOSOLVE ACETATE (= 2-ETHOXYETHYL ACETATEE= ACETIC A
COD        = CHEMICAL OXYGEN DEMAND
CHLORDAN-A = CHLORDANE (ALPHA)
CHLORDAN-B = CHLORDANE (CIS CHLORDANE)
CHLORDAN-G = CHLORDANE (GAMMA)
CHLORDANE  = CHLORDANE (PESTICIDE)
CHLORDAN-T = CHLORDANE, TOTAL
KEPONE     = CHLORDECONE (= KEPONE)
CHLORIDE-D = CHLORIDE, DISSOLVED
CHLORIDE   = CHLORIDE, TOTAL
```

```
CL PHENOLS = CHLORINATED PHENOLS, TOTAL
CHLORINE   = CHLORINE
CLO2       = CHLORINE DIOXIDE
TOT RES CL = CHLORINE, TOTAL RESIDUALH
4-CL3-NPHN = CHLORO-m-CRESOL (4-Chloro-m-Cresol = 4-CHLORO-3HMETHYL
6-CL3-MPHN = CHLORO-m-CRESOL (6-Chloro-m-Cresol = 6-CHLORO-3HMETHYL
4-CL2-MPHN = CHLORO-o-CRESOL (4-Chloro-o-Cresol = 4-CHLORO-2HMETHYL
CLOROPRENE = CHLORO-1,3-BUTADIENE (2-ChloroH1,3-Butadiene = CHLOROP
EPICLHYD   = CHLORO-1,3-EPOXYPROPANE (2-Chloro-1,3HEp.Prop.H EPICHL
5CL-2MANIL = CHLORO-2-METHYLANILINE (5-Chloro-2-methylaniline)
4-CL2-MPHN = CHLORO-2-METHYLPHENOL (4-Chloro-2-Methylphenol = 4-CHL
4-CL3HMPHN = CHLORO-3-METHYLPHENOL (4-Chloro-3-Methylphenol = 4-CHL
6-CL3-MPHN = CHLORO-3-METHYLPHENOL (6-Chloro-3-Methylphenol = 6-CHL
CLACETAL   = CHLOROACETALDEHYDE (= CHLOROETHANAL)
CLALKETHRS = CHLOROALKLY ETHERS
2CLANILINE = CHLOROANILINE (2-chloroaniline = 4,4'-METHYLENEBIS)
4-CLANILIN = CHLOROANILINE (4-Chloroaniline or p-Chloroaniline)
CLBNZ      = CHLOROBENZENE (= PHENYL CHLORIDE)
CBTRIAZOLE = CHLOROBENZOTRIAZOLE
CLBUTAD    = CHLOROBUTADIENE
CLDEHAB    = CHLORODEHYDROABIETIC ACID
CLACETAL   = CHLOROETHANAL (= CHLOROACETALDEHYDE)
ETHYL CL   = CHLOROETHANE (= ETHYL CHLORIDE)
VINYL CL   = CHLOROETHENE (= VINYL CHLORIDE)
B2CLETET   = CHLOROETHYL ETHYL (bis(2-Chloroethyl)ethyL)
2-CLEVESTR = CHLOROETHYLVINYL ESTER (2-Chloroethylvinyl Ester)
2-CLEVE    = CHLOROETHYLVINYL ETHER (2-Chloroethylvinyl Ether)
CHLOROFORM = CHLOROFORMH(= TRICHLOROMETHANE)
B2CIETH    = CHLOROISOPROPYL ETHYL (bis(2-Chloroisopropyl)ethyl)
METHYL CL  = CHLOROMETHANE (H METHYL CHLORIDE)
CMME       = CHLOROMETHYL METHYL ETHER
3CLMPYRID  = CHLOROMETHYL PYRIDINE (3-(Chloromethyl)pyridine)
1CLNAPTH   = CHLORONAPHTHALENE (1-Chloronaphthalene)
2-CLNAP    = CHLORONAPHTHALENE (2-Chloronaphthalene)
3-CLPHN    = CHLOROPHENOL (m-Chlorophenol)
2-CLPHN    = CHLOROPHENOL (o-Chlorophenol)
4-CLPHN    = CHLOROPHENOL (p-Chlorophenol or 4-ChlorophenolH
D4-2-CLPHN = CHLOROPHENOL, 2-, DEUTERATED SURROGATE
4-CPESTER  = CHLOROPHENYL ESTER (4-Chlorophenyl Ester)
4-CPE      = CHLOROPHENYL ETHER (4-Chlorophenyl Ether)
4-CPPESTER = CHLOROPHENYL PHENYL ESTER (4-Chlorophenyl Phenyl Ester
4-CPPE     = CHLOROPHENYL PHENYL ETHER (4-Chlorophenyl Phenyl Ether
CLOROPRENE = CHLOROPRENE (= 2-CHLORO-1,3-BUTADIENE)
3-CLPRPE   = CHLOROPROPENE (3-Chloropropene = ALLYL CHLORIDE)
EPICLHYD   = CHLOROROOXETANE (3-Chlororooxetane = EPICHLOROHYDRIN)
4CLSL      = CHLOROSAILINE (4-Chlorosailine)
M-CLTOLUEN = CHLOROTOLUENE (m-Chlorotoluene = m-TOLYL CHLORIDE)
O-CLTOLUEN = CHLOROTOLUENE (o-Chlorotoluene = o-TOLYL CHLORIDEH
P-CLTOLUEN = CHLOROTOLUENE (p-Chlorotoluene = p-TOLYL CHLORIDEH
CHLORPYRIF = CHLORPYRIFOS
CHOLESTNOL = CHOLESTANOL
CHOLESTROL = CHOLESTEROL
DCHROMIUM  = CHROMIUM, DISSOLVED
CHROMIUM-6 = CHROMIUM, HEXAVALENT
CHROMIUM-T = CHROMIUM, TOTAL
CHROMIUM-3 = CHROMIUM, TRIVALENT
CHRYSENE   = CHRYSENE (= 1,2-BENZPHENANTHRENE = BENZO(A)PHENANTHREN
C1CHRYSEN  = CHRYSENE (C1 homologs)
C2CHRYSEN  = CHRYSENE (C2 homologs)
C3CHRYSEN  = CHRYSENE (C3 HOMOLOGS)
C4CHRYSEN  = CHRYSENE (C4 HOMOLOGS)
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CHRY+TRIPH  = CHRYSENE AND TRIPHENYLENE
COBALT      = COBALT, TOTAL
DCOPPER     = COPPER, DISSOLVEDH
COPPER      = COPPER, TOTAL
COPROSTNOL  = COPROSTANOL (= COPROSTEROL)  ':
CORONENE    = CORONENE (= HEXABENZOBENZENE)
CREOSOTE    = CREOSOTE
P-CRESIDIN  = CRESIDINE (p-Cresidine)
3-METHPHN   = CRESOL (m-Cresol = 3-METHYLPHENOL)
2-METHPHN   = CRESOL (o-Cresol = 2-METHYLPHENOL = 2-HYDROXYTOLUENE)
4-METHPHN   = CRESOL (p-Cresol = 4-METHYLPHENOL = 4-HYDROXYTOLUENE)
P-CL-MCRSL  = CRESOL (p-CHLORO-m-CRESOL)
CRESOLS     = CRESOLS, TOTALH(= METHYLPHENOLS)
PHOSDRIN    = CROTONIC ACIDH(= trans-2-BUTENOIC ACID)
2-BUTE1-OL  = CROTYL ALCOHOL (= 2-BUTENE-1-OL)
CUMENE      = CUMENE (= ISOPROPYL BENZENE)
CYANIDE     = CYANIDE
CYCHBUTAN   = CYCLOBUTANOL
CYCHEXANE   = CYCLOHEXANE (= HEXAHYDROBENZENE = HEXAMETHYLENE)
CYCHEXANON  = CYCLOHEXANONE (= KETOHEXAMETHYLENE = PIMELIC KETONE)
CYCHEXENE   = CYCLOHEXENE (= 3,4,5,6-TETRAHYDROBENZENE)
2CH46-2NPH  = CYCLOHEXYL-4,6-DINITROPHENOL (2-Cyclohexyl-4,6-Dinitro
CYMENE      = CYMENE (= ISOPROPYL-(METHYL)-BENZENE = ISOPROPYLTOLUEN
2,4 D       = D (2,4-D or 2,4-Dichlorophenoxy Acetic Acid) (PESTICID
2,4 DESTRS  = D ESTERS (2,4-D Esters)
DACTHAL     = DACTHAL
OP DDD      = DDD (o,p-DDD)
PP DDD      = DDD (p,ß-DDD)
DDD         = DDD (PESTICIDE)
DDD         S DDE (= DDD)
OP DDE      = DDE (o,ß-DDE)
PP DDE      = DDE (p,ß-DDE)
DDE         = DDE (PESTICIDE)
OP DDT      = DDT (o,ß-DDT)
PP DDT      = DDT (p,ß-DDT)
DDT         = DDT (PESTICIDE)
DDT-T       = DDTH TOTAL
10CLBIP     = DECACHLOROBIPHENYL
DECHMNAPTA  = DECAHYDROMETHYLNAPTHANE
DECANE      = DECANE (C10)
MIREX       = DECHLORANE (= MIREX)
DECYNE      = DECYNE
DEF         = DEF
DHYABIETIC  = DEHYDROABIETIC ACID
DELNAV      = DELNAV (= DIOXATHION)
DEMETON     = DEMETON (= SYSTOX) (PESTICIDE)
DEHP        = DIH2-ETHYLHEXYL)PHTHALATE (= BIS(2-ETHYLHEXYL) PHTHALA
DINBP       = DI-N-BUTYL PHTHALATE
2NOCTP      = DI-N-OCTYL PHTHALATE
DISULFOTON  = DI-SYSTON (= DISULFOTON)
14-PHE2AM   = DIAMINOBENZENE (= 1,4-PHENYLENEDIAMINE)
BZID        = DIAMINOBIPHENYL (4,4'-Diaminobiphenyl = BENZIDINE)
24-2AMTOL   = DIAMINOTOLUENE (2,4-Diaminotoluene = TOLUENE-2,4-DIAMI
2ANISIDINE  = DIANISIDINE (3,3'-DIMETHOXYBENZIDINE)
DIAZINON    = DIAZINON (PESTICIDE)
2BANTH      = DIBENZ(A,H)ANTHRACENE (=1,2:5,6-Dibenzanthracene)
DBAJACRID   = DIBENZ(A,H)ACRIDINE
1245-2BPYR  = DIBENZO(A,E)PYRENE (= 1,2:4,5-DIBENZOPYRENE)
DIBNZFURAN  = DIBENZOFURAN (= DIPHENYLENE OXIDE)
1245-2BPYR  = DIBENZOPYRENE (1,2:4,5-Dibenzopyrene = DIBENZO(A,E)PYR
CARBAZOLE   = DIBENZOPYRROLE (= CARBAZOLE = DIPHENYLENIMINE)
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DIBNZTHIO   = DIBENZOTHIOPHENE (= DIPHENYLENE SULFIDE)
C1DIBNZTHP  = DIBENZOTHIOPHENE (C1 homologs)
C2DIBNZTHP  = DIBENZOTHIOPHENE (C2 homologs)
C3DIBNZTHP  = DIBENZOTHIOPHENE (C3 homologs)
12-2BR3CLP  = DIBROMO-3-CHLOROPROPANE (1,2-Dibromo-3-Chloropropane =
2BRCLETH    = DIBROMOCHLOROETHANE (DBCE)
2BRCLMETH   = DIBROMOCHLOROMETHANE (DBCM)
METHYLE BR  = DIBROMOMETHANE (= METHYLENE BROMIDE)
DBOFB       = DIBROMOOCTAFLUOROBIPHENYL (SURROGATE)
T23-2BPPO4  = DIBROMOPROPYL PHOSPHATE (tris-2,3-Dibromopropyl phosph
DBT         = DIBUTYLTIN
DICAMBA     = DICAMBA
23H2CL1PRE  = DICHLORO-1-PROPENE (2,3-Dichloro-1-Propene)
13-2CLBNZ   = DICHLOROBENZENE (m-Dichlorobenzene or 1,3-Dichlorobenz
12-2CLBNZ   = DICHLOROBENZENE (o-Dichlorobenzene or 1,2-Dichlorobenz
14-2CLBNZ   = DICHLOROBENZENE (p-Dichlorobenzene or 1,4-Dichlorobenz
2CLBNZ      = DICHLOROBENZENE NOS
D4-12H2CLB  = DICHLOROBENZENE, 1,2-, DEUTERATED SURROGATE
33-2CLBZID  = DICHLOROBENZIDINE (3,3'-Dichlorobenzidine)
2CLBZID     = DICHLOROBENZIDINE BASE
2CLBNZPHN   = DICHLOROBENZOPHENOL
2CLBPHNL-T  = DICHLOROBIPHENYL, TOTAL
DCLDEHAB    = DICHLORODEHYDROABIETIC ACID
FREON       = DICHLORODIFLUOROMETHANE (= FREON)
12-C2CLETE  = DICHLOROETHANE (cis-1,2-Dichloroethane)
11-2CLETH   = DICHLOROETHANE (1,1-Dichloroethane = ETHYLIDENE CHLORI
12-2CLETH   = DICHLOROETHANE (1,2-Dichloroethane = ETHYLENE DICHLORI
12-2CLE-D4  = DICHLOROETHANE, DEUTERATED (1,2-Dichloroethane-D4)
12-C2CLETH  = DICHLOROETHENE (cis-1,2-Dichloroethene = ACETYLENE DIC
12-T2CLETH  = DICHLOROETHENE (trans-1,2-Dichloroethene = ACETYLENE D
11-2CLETHE  = DICHLOROETHENE (1,1-Dichloroethene = VINYLIDENE CHLORI
2CLETHENES  = DICHLOROETHENES (Sum of Acetylene Dichloride and Vinyl
GUAIA45     = DICHLOROGUAIACOL (4,5-Dichloroguaiacol)
2CLMETHA    = DICHLOROMETHANE (= METHYLENE CHLORIDE)
2-2CLPHN    = DICHLOROPHENOL (2-Dichlorophenol)
23-2CLPHN   = DICHLOROPHENOL (2,3-Dichlorophenol)
24-2CLPHN   = DICHLOROPHENOL (2,4-Dichlorophenol)
25-2CLPHN   = DICHLOROPHENOL (2,5-Dichlorophenol)
26-2CLPHN   = DICHLOROPHENOL (2,6-Dichlorophenol)
34-2CLPHN   = DICHLOROPHENOL (3,4-Dichlorophenol)
2,4 D       = DICHLOROPHENOXY ACETIC ACID (2,4-Dichlorophenoxy Aceti
C13-2CLPRP  = DICHLOROPROPANE (cis-1,3-Dichloropropane)
T13-2CLPRP  = DICHLOROPROPANE (trans-1,3-Dichloropropane)
12-2CLPRP   = DICHLOROPROPANE (1,2-Dichloropropane = PROPYLENE DICHL
13-2CLPRP   = DICHLOROPROPANE (1,3-Dichloropropane = TRIMETHYLENE CH
2CLPRPANES  = DICHLOROPROPANES (Sum of Propylidene Chloride and Prop
C13-2CLPRE  = DICHLOROPROPENE (cis-1,3-Dichloropropene)
T13-2CLPRE  = DICHLOROPROPENE (trans-1,3-Dichloropropene)
13C2CLPRPE  = DICHLOROPROPENE (CIS-1,3-DICHLOROPROPENE)
13T2CLPRPE  = DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPENE)
12H2CLPRPE  = DICHLOROPROPENE (1,2-Dichloropropene)
13-2CLPRPE  = DICHLOROPROPENE (1,3-Dichloropropene or 1,3-DICHLOROPR
2CLPRPENES  = DICHLOROPROPENES, TOTAL
13H2CLPRPE  = DICHLOROPROPYLENE (1,3-Dichloropropylene = 1,3-DICHLOR
2CL3FLETH   = DICHLOROTRIFLUOROETHANE
KELTHANE    = DICOFOL (= KELTHANE)
DIELDRIN    = DIELDRIN (PESTICIDE)
DIESEL      = DIESEL FUEL
PARATHION   = DIETHYL p-NITROPHEMYL MONOTHIOPHOSPHATE (= PARATHION)
DEHA        = DIETHYL HEXYL ADIPATE
DETHYLSO4   = DIETHYL SULFATE
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I DIETBENZ    = DIETHYLBENZENE ISOMERS
DIOXANE       = DIETHYLENE DIOXIDE (1,4-Diethylene Diox.=DIOXANE=GLYCO
23-2ETHLOX    = DIETHYLOXIRANE (2,3-Diethyloxirane)
DEP           = DIETHYLPHTHALATE (= PHTHALIC ACID, ETHYL ESTER)
DESTILBEST    = DIETHYLSTILBESTEROL
14-NAPQUIN    = DIHYDRO-1,4-DIKETONAPTHALENE (1,4-Dihy.1,4-Diket=1,4-
RESORCINOL    = DIHYDROXYBENZENE (1,3-Dihydroxybenzene = RESORCINOL)
HYDROQUIN     = DIHYDROXYBENZENE (1,4-Dihydroxybenzene = HYDROQUINONE)
BIPHENOL      = DIHYDROXYBIPHENYL (= BIPHENOL)
BIPHENOL25    = DIHYDROXYBIPHENYL, 2,5- (= 2,5-BIPHENOL)
BIPHENOL44    = DIHYDROXYBIPHENYL, 4,4- (= 4,4-BIPHENOL)
ETHE GLYCL    = DIHYDROXYETHANE (= 1,2-ETHANEDIOL = ETHYLENE GLYCOL)
PHENYTOIN     = DILANTIN (= PHENYTOIN sodium= 5,5'DIPHENYLHYDANTOIN)
DIMETHOATE    = DIMETHOATE
2ANISIDINE    = DIMETHOXYBENZIDINE (3,3'Dimethoxybenzidine = DIANISID
2METH-AS      = DIMETHYL ARSENATE
2METH2SULF    = DIMETHYL DISULFIDE
DIMP          = DIMETHYL PHTHALATE (= PHTHALIC ACID, METHYL ESTER)
DIMSO4        = DIMETHYL SULFATE
2METHSULF     = DIMETHYL SULFIDE= (= DIMETHYL SULFONE)
DMAAZOBNZ     = DIMETHYLAMINOAZOBENZENE (= METHYL YELLOW= 2-AMINO-5-A
CACODYL AC    = DIMETHYLARSINIC ACID= (= CACODYLIC ACID)
DMBA          = DIMETHYLBENZ(A)ANTHRACENE (7,12-Dimethylbenz(a)anthrac
XYLENE        = DIMETHYLBENZENE, TOTAL (= XYLENE, TOTAL)
O-TOLIDINE    = DIMETHYLBENZIDINE (3,3'-Dimethylbenzidine = o-TOLIDINE
P2M2AMBNZ     = DIMETHYLDIAMINOBENZENE (p-Dimethyldiaminobenzene)
12-2MHYZ      = DIMETHYLHYDRAZINE (1,2-Dimethylhydrazine)
METHYL-HG     = DIMETHYLMERCURY (= METHYL MERCURY)
26-2MNAP      = DIMETHYLNAPHTHALENE (2,6-Dimethylnaphthalene)
NNDMA         = DIMETHYLNITROSAMINE (= N-NITROSO DIMETHYLAMINE)
PHENTERMIN    = DIMETHYLPHENETHYLAMINE (a,a-Dimethylphenethylamine = P
24-2MPHN      = DIMETHYLPHENOL (2,4-Dimethylphenol = as-m-XYLENOL)
PERYLENE      = DINAPTHALENE (peri-Dinapthalene = PERYLENE)
DINOCRESOL    = DINITRO-O-CRESOL
45-2NOCRES    = DINITRO-O-CRESOL (4,5-Dinitro-o-Cresol = 4,5-DINITRO-2
46-2N2MPHN    = DINITRO-O-CRESOL (4,6-Dinitro-o-Cresol = 4,6-DINITRO-2
45-2NOCRES    = DINITRO-2-HYDROXYTOLUENE (3,4-DINITRO-2-HYDROXTOL=4,5-
46-2N2MPHN    = DINITRO-2-METHYLPHENOL (4,6-Dinitro-2-Methylphenol = D
12H2NBNZ      = DINITROBENZENE (1,2-Dinitrobenzene = o-Dinitrobenzene)
13-2NBNZ      = DINITROBENZENE (1,3-Dinitrobenzene = m-Dinitrobenzene)
14-2NBNZ      = DINITROBENZENE (1,4-Dinitrobenzene = p-Dinitrobenzene)
24-2NPHN      = DINITROPHENOL (2,4-Dinitrophenol)
26-2NPHN      = DINITROPHENOL (2,6-Dinitrophenol)
24-2NTOL      = DINITROTOLUENE (2,4-Dinitrotoluene)
26-2NTOL      = DINITROTOLUENE (2,6-Dinitrotoluene)
DIOXANE       = DIOXANE
DELNAV        = DIOXATHION (= DELNAV)
TCDD          = DIOXIN (2,3,7,8-TETRACHLORODIBENZODIOXIN = TCDD)
BIPHENYL      = DIPHENYL (= BIPHENYL = PHENYLBENZENE)
2PHEN2SULF    = DIPHENYL DISULFIDE
DPA           = DIPHENYLAMINE (= N-PHENYLANILINE)
O-3PHEN       = DIPHENYLBENZENE (1,2-Diphenylbenzene = o-TERPHENYL)
M-3PHEN       = DIPHENYLBENZENE (1,3-Diphenylbenzene = m-TERPHENYL)
P-3PHEN       = DIPHENYLBENZENE (1,4-Diphenylbenzene = p-TERPHENYL)
DIBNZFURAN    = DIPHENYLENE OXIDE (= DIBENZOFURAN)
DIBNZTHIO     = DIPHENYLENE SULFIDE (= DIBENZOTHIOPHENE)
FLUORENE      = DIPHENYLENEMETHANE (= 2,3-BENZINDENE = FLUORENE)
CARBAZOLE     = DIPHENYLENIMINE (= CARBAZOLE = DIBENZOPYRROLE)
PHENYTOIN     = DIPHENYLHYDANTOIN (5,5'Diphenylhydantoin = PHENYTOIN
12-2PHHYZ     = DIPHENYLHYDRAZINE (1,2-Diphenylhydrazine = HYDRAZOBENZ
DISULFOTON    = DISULFOTON (=OXYDISULFOTON)
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DIURON       = DIURON
DODECANE     = DODECANE (C12)
DOEICOSANE   = DOEICOSANE (C22)
DO3CONTAN    = DOTRIACONTANE (C32)
ETHE GLYCL   = DYHYDROXYETHANE (= 1,2-ETHANEDIOL = ETHYLENE GLYCOL)
EH           = EH
EICOSANE     = EICOSANE (C20)
ENDOSLFN-A   = ENDOSULFAN (ALPHA)
ENDOSLFN-B   = ENDOSULFAN (BETA)
ENDOSULFAN   = ENDOSULFAN (PESTICIDE)
ENDOSLFN-S   = ENDOSULFAN SULFATE
ENDRIN       = ENDRIN (PESTICIDE)
ENDRIN-ALD   = ENDRIN ALDEHYDE
ENDRIN-KET   = ENDRIN KETONE
EPICLHYD     = EPICHLOROHYDRIN (= 2-CHLORO-1,3-EPOXY PROPANE=3-CHLORO
EPOXYSTEAR   = EPOXY OCTADECANOIC ACIDH(= EPOXYSTEARIC ACID, cis-9,10
4HYDRFURAN   = EPOXYBUTANE (1,4-Epoxybutane = TETRAHYDROFURAN= TETRAM
ETHYLENE O   = EPOXYETHANE (1,2-Epoxyethane = ETHYLENE OXIDE)
PRPE O       = EPOXYPROPANE (1,2-Epoxypropane = PROPYLENE OXIDE)
EPOXYSTEAR   = EPOXYSTEARIC ACIDH(= EPOXY OCTADECANOIC ACID)
ETHE GLYCL   = ETHANEDIOL (1,2-Ethanediol = ETHYLENE GLYCOLH= DIHYDRO
ETHANOL      = ETHANOL (= ALCOHOLH ANHYDROUSH= ETHYL ALCOHOLH= METHYL
STYRENE      = ETHENYLBENZENE (=HSTYRENE = PHENYLETHYLENE = VINYLBENZ
ETHION       = ETHION
CELLOSOLVE   = ETHOXYETHANOL (2-Ethoxyethanol = CELLOSOLVE)
AC-CELOSOL   = ETHOXYETHYL ACETATE (2-Ethoxyethyl AcetateH= CELLOSOLV
PHENACETIN   = ETHOXYPHENYL-ACETIC ACID, AMIDE (N(4-Ethoxyph.)-Acet.A
ETHYL ACET   = ETHYL ACETATEH(= ACETIC ACID, ETHYL ESTER)
ETHANOL      = ETHYL ALCOHOLH(= ETHANOLH= ALCOHOL, ANHYDROUSH= METHYL
URETHAN      = ETHYL CARBAMATE (= URETHAN = CARBAMIC ACID, ETHYL ESTE
ETHYL CL     = ETHYL CHLORIDE (= CHLOROETHANE)
ET METSULF   = ETHYL METHANESULFONATE
ETH PARA     = ETHYL PARATHION
PHENOBARB    = ETHYL-5-PHENYL BARBITURIC ACID (5-Ethyl-5-phen barb ac
ETHYL BENZ   = ETHYLBENZENE
2PHEN2PROP   = ETHYLBENZYL ALCOHOL (= 2-PHENYL-2-PROPANOL)
12-2BRETH    = ETHYLENE BROMIDEH(= 1,2-DIBROMOETHANE)
12-2CLETH    = ETHYLENE CHLORIDEH(= 1,2-DICHLOROETHANE = ETHYLENE DIC
ETHE GLYCL   = ETHYLENE GLYCOL (= 1,2-ETHANEDIOL = DIHYDROXYETHANE)
ETHYLENE O   = ETHYLENE OXIDEH(= 1,2-EPOXYETHANE)
ETHETHIO U   = ETHYLENE THIOUREA (= 2-IMIDAZOLIDINETHION)
EBDCAS       = ETHYLENE(BIS)DITHIO CARBAMIC ACID SALTS (= NABAM)
11-2CLETH    = ETHYLIDENE CHLORIDE (= 1,H-DICHLOROETHANE)
I ETHY TOL   = ETHYLTOLUENE ISOMERS
FENAMIPHOS   = FENAMIPHOS (Nemacur)
FENTHION     = FENTHION
FLOAT PARTH= FLOATABLE PARTICULATES
C1FLUORENE   = FLOURENE (C1 homologs)
C2FLUORENE   = FLOURENE (C2 homologs)
C3FLUORENE   = FLOURENE (C3 homologs)
FLUORANTHN   = FLUORANTHENE (= 1,2-BENZACENAPTHENE)
C1FLPYR      = FLUORANTHENE + PYRENES (C1 HOMOLOGS)
FLUORENE     = FLUORENE (= 2,3-BENZINDENE = DIPHENYLENEMETHANE)
FLUOR-D10    = FLUORENE, D-10 (SURROGATE)
N2FLACETAM   = FLUORENYLACETAMIDE (N-2-Fluorenylacetamide = 2-ACETYLA
FLUORIDE     = FLUORIDE
FLUORIDE-D   = FLUORIDE, DISSOLVED
FLUORIDES    = FLUORIDESH TOTAL
FLUORINE     = FLUORINE
2FLUOROBIP   = FLUOROBIPHENYL (2-Fluorobiphenyl) (SURROGATE)
2FLUOROPHN   = FLUOROPHENOL (2-Fluorophenol) (SURROGATE)
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FORMALDEHY  = FORMALDEHYDEH(= METHANAL)H
FREE_CN     = FREE CYANIDE
FREON       = FREON (= DICHLORODIFLUOROMETHANE)
FREON 113   = FREON 113 (= TRICHLOROTRIFLUOROETHANE)
GALLASIDES  = GALLIUM ARSENIDES
DIOXANE     = GLYCOL ETHYLENE ETHERH(= 1,4-DIOXANE = 1,4-DIETHYLENE
2-BUTOXETH  = GLYCOL MONOBUTYL ETHERH(= BUTOXYETHANOL = BUTYL CELLOS
GLYPHOSATE  = GLYPHOSATE
GOLD        = GOLD
GUAIACOL    = GUAIACOL (= 2-METHOXYPHENOL)
GUTHION     = GUTHION (= AZINPHOS-METHYL) (PESTICIDE)
H-ETHERS    = HALOETHERSH TOTAL
H-METHANES  = HALOMETHANES, TOTAL
HEMPA       = HEMPA (= HEXAMETHYL PHOSPHORAMIDE)
UNDECANE    = HENDECANE (= UNDECANE)
HEPDECANE   = HEPDECANE (C17)
HEPEICOSAN  = HEPEICOSAN (C27)
HEPTACHLOR  = HEPTACHLOR (3,4,5,6,7,8,9-Heptachlor Dicyclopentadiene
HEPTACHLOR  = HEPTACHLOR DICYCLOPENTADIENE (3,4,5,6,7,8,9-HEPTACHLOR
HEPCL EPOX  = HEPTACHLOR EPOXIDE (PESTICIDE METAB)
7CLBPHNL-T  = HEPTACHLOROBIPHENYL, TOTAL
HPCDD-A     = HEPTACHLORODIBENZODIOXIN (1,2,3,4,6,7,8-HEPTACHLORODIB
HPCDD-AC13  = HEPTACHLORODIBENZODIOXIN, C13 (1,2,3,4,6,7,8-HEPTACHLO
HPCDD-T     = HEPTACHLORODIBENZODIOXINSH TOTAL
HPCDF-A     = HEPTACHLORODIBENZOFURAN (1,2,3,4,6,7,8-HEPTACHLORODIBE
HPCDF-B     = HEPTACHLORODIBENZOFURAN (1,2,3,4,7,8,9-HEPTACHLORODIBE
HPCDF-AC13  = HEPTACHLORODIBENZOFURAN, C13 (1,2,3,4,6,7,8-HEPTACHLOR
HPCDF-BC13  = HEPTACHLORODIBENZOFURAN, C13 (1,2,3,4,7,8,9-HEPTACHLOR
HPCDF-T     = HEPTACHLORODIBENZOFURANSH TOTAL
CORONENE    = HEXABENZOBENZENE (= CORONENE)
6BUTAD      = HEXABUTADIENE
HXCDF-BC13  = HEXACHLORDIBENZOFURAN, C13 (1,2,3,6,7,8-HEXACHLORODIBE
6CLBNZ      = HEXACHLOROBENZENE
6CLBPHNL-T  = HEXACHLOROBIPHENYL, TOTAL
6CLBUTAD    = HEXACHLOROBUTADIENE
BHC-LNDANE  = HEXACHLOROCYCLOHEXANE (All isomers except gamma (Linda
6CL-CHX     = HEXACHLOROCYCLOHEXANE (FORMERLY BHC)
6CL-CHX-A   = HEXACHLOROCYCLOHEXANE-ALPHA (trans BHC)H
6CL-CHX-B   = HEXACHLOROCYCLOHEXANE-BETA (cis BHC)
6CL-CHX-D   = HEXACHLOROCYCLOHEXANE-DELTA (DELTA BHC)
6CL-CHX-G   = HEXACHLOROCYCLOHEXANE-GAMMA (= LINDANE)
6CL-CHX-T   = HEXACHLOROCYCLOHEXANE-TECH GRADE
6CL-CHX-T   = HEXACHLOROCYCLOHEXANES, TOTAL (TOTAL BHCs)
6CLCYPEN    = HEXACHLOROCYCLOPENTADIENE (= PERCHLOROCYCLOPENTADIENE)
HXCDD-A     = HEXACHLORODIBENZODIOXIN (1,2,3,4,7,8-HEXACHLORODIBENZO
HXCDD-B     = HEXACHLORODIBENZODIOXIN (1,2,3,6,7,8-HEXACHLORODIBENZO
HXCDD-C     = HEXACHLORODIBENZODIOXIN (1,2,3,7,8,9-HEXACHLORODIBENZO
HXCDD-AC13  = HEXACHLORODIBENZODIOXIN, C13 (1,2,3,4,7,8-HEXACHLORODI
HXCDD-BC13  = HEXACHLORODIBENZODIOXIN, C13 (1,2,3,6,7,8-HEXACHLORDIB
HXCDD-CC13  = HEXACHLORODIBENZODIOXIN, C13 (1,2,3,7,8,9-HEXACHLORODI
HXCDD-T     = HEXACHLORODIBENZODIOXINSH TOTAL
HXCDF-E     = HEXACHLORODIBENZOFURAN (1,2,H,4,6,H7-HEXACHLORODIBENZOF
HXCDF-A     = HEXACHLORODIBENZOFURAN (1,2,3,4,7,8-HEXACHLORODIBENZOF
HXCDF-B     = HEXACHLORODIBENZOFURAN (1,2,3,6,7,8-HEXACHLORODIBENZOF
HXCDF-C     = HEXACHLORODIBENZOFURAN (1,H,3,7,8,9-HEXACHLORODIBENZOF
HXCDF-D     = HEXACHLORODIBENZOFURAN (2,H,4,6,7,8-HEXACHLORODIBENZOF
HXCDF-AC13  = HEXACHLORODIBENZOFURAN, C13 (1,2,3,4,7,8-HEXACHLORODIB
HXCDF-CC13  = HEXACHLORODIBENZOFURAN, C13 (1,2,3,7,8,9-HEXACHLORODIB
HXCDF-DC13  = HEXACHLORODIBENZOFURAN, C13 (2,3,4,6,7,8-HEXACHLORODIB
HXCDF-T     = HEXACHLORODIBENZOFURANSH TOTAL
6CLETH      = HEXACHLOROETHANE (= PERCHLOROETHANE)
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6CLPHENE    = HEXACHLOROPHENE (= bis(2-HYDROXY-3,5,6-TRICHLOROPHENYL
6CLPROPENE  = HEXACHLOROPROPENE
CYCHEXANE   = HEXAHYDROBENZENE (= CYCLOHEXANE = HEXAMETHYLENE)
METCYCHHEX  = HEXAHYDROTOLUENE (= METHYL CYCLOHEXENE)
CYCHEXANE   = HEXAMETHYLENE (= CYCLOHEXANE = HEXAHYDROBENZENE)
HEMPA       = HEXAMETHYLPHOSPHORAMIDE (= HEMPA)
6MET4COHEX  = HEXAMETHYLTETRACOSAHEXANE (= SQUALENE)
N-HEXANE    = HEXANE (N-Hexane)
HEX-METHES  = HEXANOIC ACID, METHYL ESTERH(= METHYL CAPROATE OR n-CA
2-HEXANONE  = HEXANONE (2-Hexanone = METHYL BUTYL KETONE)
HEXDECANE   = HEXDECANE (C16)
HEXEICOSAN  = HEXEICOSAN (C26)
METHAPYRIL  = HISTADYL BASE (= METHAPYRILINE = TENALIN BASEH= THENYL
HYZ         = HYDRAZINE
12-2PHHYZ   = HYDRAZOBENZENE (= 1,2-DIPHENYLHYDRAZINE)
ALIPH HCBN  = HYDROCARBONS, ALIPHATIC
AROM HCBN   = HYDROCARBONSH AROMATIC
HC NEC      = HYDROCARBONSH NEC
OZONE       = HYDROCARBONSH OZONE
PET HC      = HYDROCARBONSH PETROLEUM
PAH         = HYDROCARBONSH POLYNUCLEAR AROMATIC
TOT HC      = HYDROCARBONSH TOTAL
TOT AH      = HYDROCARBONSH TOTAL AROMATIC
TOTAL PAH   = HYDROCARBONSH TOTAL POLYAROMATIC
HCL         = HYDROCHLORIC ACID
H2S         = HYDROGEN SULFIDE
HYDROQUIN   = HYDROQUINONE (= 1,4-DIHYDROXYBENZENE)
6CLPHENE    = HYDROXY-3,5,6-TRICHLOROPHENYLMETHANE (bis(2-Hydroxy...
PHENOL      = HYDROXYBENZENE (=HPHENOLH= CARBOLIC ACIDH= BENZENOL)
BENZYL-OH   = HYDROXYTOLUENE (alpha-Hydroxytoluene = BENZYL ALCOHOL)
2-METHPHN   = HYDROXYTOLUENE (2-Hydroxytoluene = 2-METHYLPHENOL = o-
4-METHPHN   = HYDROXYTOLUENE (4-Hydroxytoluene = 4-METHYLPHENOL = p-
ETHETHIO U  = IMIDAZOLIDINETHION (2-Imidazolidinethion = ETHYLENE TH
ICDP        = INDENO(1,2,3-CD)HPYRENE
DIRON       = IRON, DISSOLVED
PIRON       = IRON, PARTICULATE
IRON        = IRON, TOTAL
4-M2HPNTNO  = ISOBUTYL METHYL KETONE (= 4-METHYL-2-PENTANONE = ISOPR
ISOPHORONE  = ISOPHORONE (=ISOACETOPHORONE=3,5,3-TRIMETHYL-2-CYCLOHE
ISO1380     = ISOPRENOIDS, 1380
ISO1470     = ISOPRENOIDS, 1470
ISO1650     = ISOPRENOIDS, 1650
PRISTANE    = ISOPRENOIDS, 1708 (= PRISTANE)
PHYTANE     = ISOPRENOIDS, 1810 (= PHYTANE)
ISOPROPALN  = ISOPROPALIN
ISOPROPANL  = ISOPROPANOL (= ISOPROPYL ALCOHOLH= 2-PROPANOL)
4-M2HPNTNO  = ISOPROPYL ACETONEH(= 4-METHYL-2-PENTANONE = ISOBUTYL M
ISOPROPANL  = ISOPROPYL ALCOHOL (= ISOPROPANOL = 2-PROPANOL)
CUMENE      = ISOPROPYL BENZENEH(= CUMENE)
CYMENE      = ISOPROPYL-(METHYL)-BENZENE (= CYMENE = ISOPROPYLTOLUEN
RETENE      = ISOPROPYL-1-METHYL-PHENANTHRENE (7-Isoprop-1-Met-Phena
CYMENE      = ISOPROPYLTOLUENE (= CYMENE = ISOPROPYL-(METHYL)-BENZEN
ISOSAFROLE  = ISOSAFROLE
PIP SULFOX  = ISOSAFROLE-N-OCTYLSULFOXIDE (= PIPERONYL SULFOXIDE)
KELTHANE    = KELTHANE (= DICOFOL) (PESTICIDE)
KEPONE      = KEPONE (= CHLORDECONE) (PESTICIDE)
CYCHEXANON  = KETOHEXAMETHYLENE (= CYCLOHEXANONE = PIMELIC KETONE)
DKN         = KJELDAHL NITROGEN, DISSOLVED
SKN         = KJELDAHL NITROGEN, SUSPENDED
TKN         = KJELDAHL NITROGEN, TOTAL
LANTHNIDES  = LANTHANIDES
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LEAD CHROM = LEAD CHROMATE
LEAD OXIDEH= LEAD OXIDE
LEADTALL   = LEAD TALLATE
DLEAD      = LEAD, DISSOLVED
PLEAD      = LEAD, PARTICULATE
LEAD       = LEAD, TOTAL
6CL-CHX-G  = LINDANE (= HEXACHLOROCYCLOHEXANE-GAMMA = 1,2,3,4,5,6-H
LITHIUM    = LITHIUM, TOTAL
MAGNESIUM  = MAGNESIUM, TOTAL
MALATHION  =HMALATHIONH(= S(1,2-DICARBOXYETHYL)-O,O-DIMETHYLDITHIOP
MALEIC A   = MALEIC ANHYDRIDE
MANGANESE  = MANGANESE
THIOPHENOL = MERCAPTOBENZENE (= THIOPHENOL = BENZENETHIOL)
DMERCURY   S MERCURY, DISSOLVED
MERCURY    = MERCURY, TOTAL
MESTRANOL  = MESTRANOL
METALDEHYD = METALDEHYDE (= METACETALDEHYDE)
METHADATH  = METHADATHION
FORMALDEHY = METHANAL (= FORMALDEHYDE)
METH THIO  = METHANETHIOL (= METHYLMERCAPTAN)
METHANOL   =HMETHANOLH(= CARBINOL = METHYL ALCOHOL)
METHAPYRIL = METHAPYRILINE (= HISTADYL BASEH= TENALIN BASEH= THENYL
METHOMYL   = METHOMYL (PESTICIDE)
O-ANISIDIN = METHOXYANILINE (2-Methoxyaniline = o-ANISIDINE)
METHOXYCL  = METHOXYCHLOR (2,2-bis(4-METHOXYPHENYL)-1,1,1-TRICHLORO
ME-CELOSOL = METHOXYETHANOL (2-Methoxyethanol = METHYL CELLOSOLVE)
MTXYMETHPR = METHOXYMETHYLPROPANOL
GUAIACOL   = METHOXYPHENOL (2-Methoxyphenol = GUAIACOL)
GUAIATET   = METHOXYTETRACHLOROPHENOL (2-Methoxytetrachlorophn=TETR
METHANOL   = METHYL ALCOHOL (=HMETHANOLH= CARBINOL)
METHYL BR  = METHYL BROMIDE (= BROMOMETHANE)
METHYL CL  = METHYL CHLORIDE (= CHLOROMETHANE)
NEOABIETIC = METHYL NEOABIETATE (= NEOABIETIC ACID)
ME-CELOSOL = METHYL-CELLOSOLVE (= 2-METHOXYETHANOL)
METH PARA  = METHYL-PARATHION
C6H12O     = METHYL-1-BUTANOL (2-Methyl-1-Butanol)
2-M1-PENTE = METHYL-1-PENTENE (2-Methyl-1-Pentene)
4-M2-PNTNO = METHYL-2-PENTANONE (= ISOPROPYL ACETONEH= ISOBUTYL MET
3-M2-PNTNO = METHYL-2-PENTANONE (3-Methyl-2-Pentanone = BUTYL METHY
MIBK       = METHYL-2-PENTANONE(4-Met-2-Pent=METHYL ISOBUTYL KETONE
MTHYLAMINE = METHYLAMINE (= AMINOMETHANE)
O-TOLUIDIN = METHYLANILINE (2-Methylaniline = o-TOLUIDINE = 2-AMINO
METH-AS    = METHYLARSENATE
TOLUENE    = METHYLBENZENE (=HTOLUENEH= PHENYLMETHANE)
2-HEXANONE = METHYLBUTYL KETONEH(= 2-HEXANONE)
HEX-METHES = METHYLCAPROATE (= HEXANOIC ACID, METHYL ESTERH= n-CAPR
ETHANOL    = METHYLCARBINOL (=HETHANOLH= ALCOHOL, ANHYDROUSH= ETHYL
111-3CLETH = METHYLCHLOROFORM (= 1,1,1-TRICHLOROETHANE)
3MCHOLANTH = METHYLCHOLANTHRENE (3-Methylcholoanthrene)
MCYCHEXANM = METHYLCYCLOHEXANE METHANOL
METCYCHHEX = METHYLCYCLOHEXENE (= HEXAHYDROTOLUENE)
MCYCPENT   = METHYLCYCLOPENTANE
METHYLE BR = METHYLENE BROMIDE (= DIBROMOMETHANE)
2CLMETHA   = METHYLENE CHLORIDE (= DICHLOROMETHANE)
2CLANILINE = METHYLENEBIS (4,4'-Methylenebis = 2-CHLOROANILINE)
2-BUTANONE = METHYLETHYL KETONE (= 2-BUTANONE)
METH HYZ   = METHYLHYDRAZINE
METHYL I   = METHYLIODIDE
MIBK       = METHYLISOBUTYL KETONE (= ISOPROPYLACETONE = 4-METHYL-2
METH THIO  = METHYLMERCAPTAN (= METHANETHIOL)
METHYL-HG  = METHYLMERCURY (= DIMETHYLMERCURY)
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MET MESULF  = METHYLMETHANESULFONATE
1-METHNAP   = METHYLNAPHTHALENE (1-Methylnaphthalene)
2-METHNAP   = METHYLNAPHTHALENE (2HMethylnaphthalene)
1-MPENT     = METHYLPENTANE (1-Methylpentane)
2-MPENT     = METHYLPENTANE (2-Methylpentane) '.
3-MPENT ·   = METHYLPENTANE (3-Methylpentane)
1-MPHENAH   = METHYLPHENANTHRENE (1HMethylphenanthrene)
2-METHPHN   = METHYLPHENOL (2-Methylphenol = o-CRESOL = 2-HYDROXYTOL
3-METHPHN   = METHYLPHENOL (3-Methylphenol = m-CRESOL) ·
4-METHPHN   = METHYLPHENOL (4-Methylphenol = p-CRESOL = 4-HYDROXYTOL
2-PICOLINE  = METHYLPYRIDINE (= 2-PICOLINE)
THIOBMETHA  = METHYLSULFIDE (= THIOBISMETHANE)
MIREX       = MIREX (= DECHLORANE) (PESTICIDE)
MOLYBDENUM  = MOLYBDENUM, TOTAL
MBT         = MONOBUTYLTIN
4DECANOIC   = MYRISTIC ACIDH(＃ TETRADECANOIC ACID)
N-ALKANES   = N-ALKANES, CPI (Carbon Preference Index)
NNPPD       = N-NITROSO-HEXAHYDROPYRIDINE (= N-NITROSOPIPERIDINE)
NNPYRD      = N-NITROSO-1-AZACYCLOPENTANE (= N-NITROSOPYRROLIDINE)
NAPTHA      = NAPHTHAH+ SP NAPHTHAS
NAPTHALENE  = NAPHTHALENE
C1NAPTHALN  = NAPHTHALENE (C1 homologs)
C2NAPTHALN  = NAPHTHALENE (C2 homologs)
C3NAPTHALN  = NAPHTHALENE (C3 homologs)
C4NAPTHALN  = NAPHTHALENE (C4 homologs)
14-NAPQUIN  = NAPHTHOQUINONE (1,4-Naphthoquinone = 1,4-DIHYDRO-1,4-D
1-NAPAMINE  = NAPHTHYLAMINE (a-Naphthylamine or 1-Naphthylamine = 1-
2-NAPAMINE  = NAPHTHYLAMINE (b-Naphthylamine or 2-Naphthylamine = 2-
12-2BR3CLP  = NEMAGON (= 1,2-DIBROMO-3-CHLOROPROPANE)
NEOABIETIC  = NEOABIETIC ACIDH(= METHYL NEOABIETATE)
DNICKEL     S NICKEL, DISSOLVED
NICKEL      = NICKEL, TOTAL
NICOTINE    = NICOTINE
NITRATE     = NITRATE NITROGEN, TOTAL (NO3-N)
NITRATE-D   = NITRATE, DISSOLVED
NO2NO3HN    = NITRITE AND NITRATE, COMBINED
NITRITE     = NITRITE NITROGEN, TOTAL (NO2-N)
5N-O-ANIS   = NITRO-O-ANISIDINE (5-Nitro-o-anisidine)
5N-O-TOL    = NITRO-O-TOLUIDINE (5-Nitro-o-toluidine)
5NACENAP    = NITROACENAPHTHENE (5-Nitroacenaphthene = 5-NITRONAPTHY
2-NANILINE  = NITROANILINE (2-Nitroaniline)
3-NANILINE  = NITROANILINE (3-Nitroaniline = 3-NITROBENZENAMINE)
4-NANILINE  = NITROANILINE (4-Nitroaniline)
NBNZ        = NITROBENZENE
NBNZ-D5     = NITROBENZENE-D5, DEUTERATED (SURRAGATE)
3-NANILINE  = NITROBENZENEAMINE (3-Nitrobenzeneamine = 3-NITROANILIN
P-NBIP      = NITROBIPHENYL (4-Nitrobiphenyl or p-Nitrobiphenyl)
NITROFEN    = NITROFEN, TOTAL
NOX         = NITROGEN OXIDES
NO2NO3HN    = NITROGEN, COMBINED NITRATE AND NITRITE (NO3 + NO2)
NITROGEN-D  = NITROGEN, DISSOLVED (NO2 +NO3H
NITROGN-DO  = NITROGEN, DISSOLVED ORGANIC
NITROGEN    = NITROGEN, TOTAL
NITROGEN-O  = NITROGEN, TOTAL ORGANIC
4-NPHN      = NITROPHENOL (p-Nitrophenol or 4-Nitrophenol＃
2-NPHN      = NITROPHENOL (2-Nitrophenol or o-Nitrophenol＃
N-PHENOLS   = NITROPHENOLSH TOTAL
P-NQU-1OX   = NITROQUINOLINE-1-OXIDE (4-Nitroquinoline-1-oxide)
NITROSAMIN  = NITROSAMINE
NNDNPRA     = NITROSO DI-N-PROPYLAMINE (N-Nitroso Di-N-Propylamine)
NNDBA       = NITROSO DIBUTYLAMINE (N-Nitroso Dibutylamine)
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NNDEA       = NITROSO DIETHYLAMINE (N-Nitroso Diethylamine)
NNDMA       = NITROSO DIMETHYLAMINE (N-Nitroso Dimethylamine = NITRO
NNP         = NITROSO DIPHENYLAMINE (N-Nitroso Diphenylamine = NITRO
NEU         = NITROSO-N-ETHYLUREA (N-Nitroso-N-Ethylurea)
NMU         = NITROSO-N-METHYLUREA (N-Nitroso-N-Methylurea)
NNMEA       = NITROSOMETHYLETHYLAMINE (N-Nitrosomethylethylamine)
NNPPD       = NITROSOPIPERIDINEH(N-Nitrosopiperidine = N-NITROSO-1-H
NNPYRD      = NITROSOPYRROLIDINE (N-Nitrosopyrrolidine = N-NITROSO-1
T-NONACHLR  = NONACHLOR (trans-Nonachlor)
C-NONACHLR  = NONACHLOR (CIS-NONACHLOR)
9CLBPHNL-T  = NONACHLOROBIPHENYL, TOTAL
NONDECANE   = NONDECANE (C19)
NONEICOSAN  = NONEICOSAN (C29)
8CLBPHNL-T  = OCTACHLOROBIPHENYL, TOTAL
OCDD-T      = OCTACHLORODIBENZODIOXINS, TOTAL
OCDD-C13    = OCTACHLORODIBENZODIOXINS, TOTAL C13
OCDF-T      = OCTACHLORODIBENZOFURANSH TOTAL
8DECANOIC   = OCTADECANOIC ACID, OCTADECYL ESTERH(= OCTADECYL STEARA
OLEIC       = OCTADECENOIC ACID (9-Octadecenoic acid, cis = OLEIC AC
8MPPHAMIDE  = OCTAMETHYL PYROPHOSPHORAMIDE (= SCHRADAN)
OCTDECANE   = OCTDECANE (C18)
OCTEICOSAN  = OCTEICOSAN (C28)
8CLSTYRENE  = OCTOCHLOROSTYRENE
OCTYPHN     = OCTYLPHENOL
OIL/GREASE  = OIL AND GREASE
OLEIC       = OLEIC ACID (= 9-OCTACECENOIC ACID, cis)
ORGLIQ NEC  = ORGANIC LIQUIDSH NEC
ORTHO PHOS  = ORTHOPHOSPHATE
REDOX       = OXIDATION REDUCTION POTENTIAL
OXYCHLORDN  = OXYCHLORDANE
OP-OXY2ANI  = OXYDIANILINE (4,4-Oxydianiline)
DISULFOTON  = OXYDISULFOTON (= DISULFOTON = DI=SYSTON)
OXYFLRFEN   = OXYFLOURFEN
UOD         = OXYGEN DEMANDH ULTIMATE
OZONE       = OZONE (HYDROCARBONS)
TOTAL PAH   = PAH (Sum of all PAH)
PAH276      = PAH276 (Sum of molecular weight 276 PAHs)
PAH278      = PAH278 (Sum of molecular weight 278 PAHs)
PAH302      = PAH302 (Sum of molecular weight 302 PAHs)
PALUSTRIC   = PALUSTRIC ACID
PARATHION   = PARATHION (= DIETHYL p-NITROPHEMYL MONOTHIOPHOSPHATE)
PCB-16+42   = PCB ARACLORS 1016 AND 1242
PCB100      = PCB 100
PCB129      = PCB 129
PCB136      = PCB 136
PCB137      = PCB 137
PCB141      = PCB 141
PCB146      = PCB 146
PCB149      = PCB 149
PCB15       = PCB 15
PCB158      = PCB 158
PCB16/32    = PCB 16 AND 32 (COELUTION)
PCB167      = PCB 167
PCB172      = PCB 172
PCB174      = PCB 174
PCB177      = PCB 177
PCB178      = PCB 178
PCB183      = PCB 183
PCB185      = PCB 185
PCB188      = PCB 188
PCB189      = PCB 189
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PCB191        = PCB 191
PCB196        = PCB 196
PCB200        = PCB 200
PCB201        = PCB 201
PCB205        = PCB 205
PCB22         = PCB 22
PCB24         = PCB 24
PCB25         = PCB 25
PCB26         = PCB 26
PCB29         = PCB 29
PCB33         = PCB 33
PCB37/42      = PCB 37 AND 42 (COELUTION)
PCB40         = PCB 40
PCB41/64      = PCB 41 AND 64 (COELUTION)
PCB45         = PCB 45
PCB46         = PCB 46
PCB47/48      = PCB 47 AND 48 (COELUTION)
PCB49         = PCB 49
PCB50         = PCB 50
PCB60/56      = PCB 60 AND 56 (COELUTION)
PCB7          = PCB 7
PCB70         = PCB 70
PCB74         = PCB 74
PCB82         = PCB 82
PCB83         = PCB 83
PCB84         = PCB 84
PCB85         = PCB 85
PCB88         = PCB 88
PCB92         = PCB 92
PCB97         = PCB 97
PCB 1016      = PCB-1016 (Aroclor)
PCB 1221      = PCB-1221 (Aroclor)
PCB 1232      = PCB-1232 (Aroclor)
PCB 1242      = PCB-1242 (Aroclor)
PCB 1248      = PCB-1248 (Aroclor)
PCB 1254      = PCB-1254 (Aroclor)
PCB 1260      = PCB-1260 (Aroclor)
PCB 1262      = PCB-1262 (PCB Aroclor 1262)
PCBS          = PCB, TOTAL
PCBTRI2       = PCBS 107/108/144 (COELUTION)
PCBTRI3       = PCBS 118/108/149 (COELUTION)
PCBTRI        = PCBS 153, 132, AND 105 (COELUTION)
PCBTRI4       = PCBS 156/171/202 (COELUTION)
PCB163/138    = PCBS 163 AND 138 (COELUTION)
PCBTRI5       = PCBS 187/182/159 (COELUTION)
PCB31/28      = PCBS 31 AND 28 (COELUTION)
PCB92/84      = PCBS 92 AND 84 (COELUTION)
PCB047        = PCB047 (2,2',4,4'-Tetrachlorobiphenyl)
PCB052        = PCB052 (2,2',5,5'-Tetrachlorobiphenyl)
PCB101        = PCB101 (2,2',4,5,5'-Pentachlorobiphenyl)
PCB105        = PCB105
PCB110/77     = PCB110/77 (COELUTION)
PCB118        = PCB118
PCB118        = PCB118 (2,2',4,4'5-Pentachlorobiphenyl)
PCB126        = PCB126
PCB128        = PCB128
PCB128        = PCB128 (2,2',3,3',4,4'-Hexachlorobiphenyl)
PCB138        = PCB138 (2,2',3,4,4',5-Hexachlorobiphenyl)
PCB151        = PCB151 (2,2',3,5,5',6-Hexachlorobiphenyl)
PCB153        = PCB153 (2,2',4,4',5,5'-Hexachlorobiphenyl)
PCB170        = PCB170
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PCB18        = PCB18
PCB180       = PCB180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl)
PCB187       = PCB187
PCB194       = PCB194 (2,2',3,3',4,4',5,5'-Octachlorobiphenyl)
PCB195       = PCB195
PCB206       = PCB206 (2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)
PCB209       = PCB209 (2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl)
PCB28        = PCB28
PCB44        = PCB44
PCB66        = PCB66
PCB8         = PCB8
PCB87        = PCB87 (2,2',3,4,5'-Pentachlorobiphenyl)
PCB99        = PCB99 (2,2',4,4',5-Pentachlorobiphenyl)
PENDECANE    = PENDECANE (C15)
PENEICOSAN   = PENEICOSAN (C25)
CLANISOLE    = PENTACHLORANISOLE
5CLANISOLE   = PENTACHLORANISOLE
PECDF-BC13   = PENTACHLORDIBENZOFURAN, C13 (2,3,4,7,8-PENTACHLORODIBE
5CLBNZ       = PENTACHLOROBENZENE
5CLBPHNL-T   = PENTACHLOROBIPHENYL, TOTAL
PENCBD       = PENTACHLOROBUTADIENE
I PENCBD     = PENTACHLOROBUTADIENE ISOMERS
PECDD-A      = PENTACHLORODIBENZODIOXIN (1,2,3,7,8-PENTACHLORODIBENZO
PECDD-AC13   = PENTACHLORODIBENZODIOXIN, C13 (1,2,3,7,8-PENTACHLORODI
PECDD-T      = PENTACHLORODIBENZODIOXINS, TOTAL
PECDF-A      = PENTACHLORODIBENZOFURAN (1,2,3,7,8-PENTACHLORODIBENZOF
PECDF-C      = PENTACHLORODIBENZOFURAN (2,3,4,6,7-PENTACHLORODIBENZOF
PECDF-B      = PENTACHLORODIBENZOFURAN (2,3,4,7,8-PENTACHLORODIBENZOF
PECDF-AC13   = PENTACHLORODIBENZOFURAN, C13 (1,2,3,7,8-PENTACHLORODIB
PECDF-T      = PENTACHLORODIBENZOFURANS, TOTAL
5CLETHAN     = PENTACHLOROETHANE (= PENTALIN)
5CLNBNZ      = PENTACHLORONITROBENZENE (= QUINTOZENE = BRASSICOL = TR
5CLPHN       = PENTACHLOROPHENOL
5CLETHAN     = PENTALIN (= PENTACHLOROETHANE)
6CLCYPEN     = PERCHLOROCYCLOPENTADIENE (= HEXACHLOROCYCLOPENTADIENE)
6CLETH       = PERCHLOROETHANE (= HEXACHLOROETHANE)
4CLETHE     S PERCHLOROETHYLENE (= TETRACHLOROETHYLENE = TETRACHLOR
PERTHANE     = PERTHANE
PERYLENE     = PERYLENE (= peri-DINAPTHALENE)
PET HC       = PETROLEUM HYDROCARBONS
PET NAPTHA   = PETROLEUM NAPTHA
PHENACETIN   = PHENACETIN (N(4-ETHOXYPHENYL)-ACETIC ACID, AMIDE)
PHENANTHRN   = PHENANTHRENE
C1YPHPA      = PHENANTHRENE/ANTHRACENE (Sum of the C1 homologs)
C2YPHPA      = PHENANTHRENE/ANTHRACENE (Sum of the C2 homologs)
C3YPHPA      = PHENANTHRENE/ANTHRACENE (Sum of the C3 homologs)
C4YPHPA      = PHENANTHRENE/ANTHRACENE (Sum of the C4 homologs)
PHENOBARB    = PHENOBARBITAL (= 5-ETHYL-5-PHENYL BARBITURIC ACID)
PHENOL       = PHENOL (= CARBOLIC ACID = BENZENOL = HYDROXYBENZENE)
PHENOL-D5    = PHENOL-D5, DEUTERATED (SURROGATE)
PHENOLICS    = PHENOLICS
PHENOLS      = PHENOLS, TOTAL
PHENTERMIN   = PHENTERMINE (a,a-DIMETHYLPHENETHYLAMINE)
AAZOBENZ     = PHENYLAZO ANILINE, p- (= AMINOAZOBENZENE)
CLBNZ        = PHENYL CHLORIDE (= CHLOROBENZENE)
2PHEN2PROP   = PHENYL-2-PROPANOL (2-Phenyl-2-Propanol = ETHYLBENZYL A
ANILINE      = PHENYLAMINE (= ANILINE = AMINOBENZENE)
BIPHENYL     = PHENYLBENZENE (= BIPHENYL)
14-PHE2AM    = PHENYLENEDIAMINE (1,4-Phenylenediamine = DIAMINOBENZEN
STYRENE      = PHENYLETHYLENE (= STYRENE = ETHENYLBENZENE = VINYLBENZ
TOLUENE      = PHENYLMETHANE (= TOLUENE = METHYLBENZENE)
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PHENYTOIN   = PHENYTOIN SODIUMH(= 5,5'-DIPHENYLHYDANTOIN = DILANTIN)
THIMET      =HPHORATEH(= THIMET)
PHOSALONE   = PHOSALONE (PESTICIDE)
PHOSPHTE-D  = PHOSPHATE, DISSOLVED
O-PO4-D     = PHOSPHATE, DISSOLVED (Orthophosphate)
PHOSPHATE   = PHOSPHATE, TOTAL
OPHOSPHATE  = PHOSPHATESH ORGANIC
PHOSPHORUS  = PHOSPHORUS
PHTH-ESTRS  = PHTHALATE ESTERS
PHTH ANHYD  = PHTHALIC ACID, ANHYDRIDE
DEP         = PHTHALIC ACID, ETHYL ESTERH(= DIETHYL PHTHALATE)
DIMP        = PHTHALIC ACID, METHYL ESTERH(= DIMETHYL PHTHALATE)
PHYTANE     = PHYTANE (= ISOPRENOID 1810)
2-PICOLINE  = PICOLINE (2-Picoline = METHYLPYRIDINE)
CYCHEXANON  = PIMELIC KETONEH(= CYCLOHEXANONE = KETOHEXAMETHYLENE)
PIP SULFOX  = PIPERONYL SULFOXIDE (= ISOSAFROLE-N-OCTYLSULFOXIDE)
PCBS        = POLYCHLORINATED BIPHENYLS, TOTAL
PCNB        = POLYCHLORINATED NITROBENZENE
HPAH        = POLYCYCLIC AROMATIC HYDROCARBON-HEAVY
LPAH        = POLYCYCLIC AROMATIC HYDROCARBON-LIGHT
PAH         = POLYNUCLEAR AROMATIC HYDROCARBONS
POLYPROPYL  = POLYPROPYLENE
POTASS-D    = POTASSIUM, DISSOLVED
POTASSIUM   = POTASSIUM, TOTAL
PRISTANE    = PRISTANE (= ISOPRENOID 1708)
PRIST/PHYT  = PRISTANE/PHYTANE RATIO
PROMETON    = PROMETON
ISOPROPANL  = PROPANOL (2-Propanol = ISOPROPANOL = ISOPROPYL ALCOHOL
PROPYLIMIN  = PROPYLAMINE
12-2CLPRP   = PROPYLENE CHLORIDE (1,2-DICHLOROPROPANE)
PRPE O      = PROPYLENE OXIDEH(= 1,2-EPOXYPROPANE)
2-PRPHEPTO  = PROPYLHEPTANOL (2-Propylheptanol)
PRTHIOURAC  = PROPYLTHIOURACIL (6-Propyl-2-thiouracil)
ALL PURGEA  = PURGEABLE PRIORITY POLLUTANTS (ALL)
PYRENE      = PYRENE (= BENZO (D,E,F) PHENANTHRENE)
PYRENE-D10  = PYRENE, D-10 (SURROGATE)
PYRIDINE    = PYRIDINE (= AZINE)
3CLMPYRID   = PYRIDINE, 3-(CHLOROMETHYL)
QUINONE     = QUINONE (p-BENZOQUINONE)
5CLNBNZ     = QUINTOZENE (= PENTACHLORONITROBENZENE = BRASSICOL = TR
RADIOACTVS  = RADIOACTIVITY
RADIOACTVA  = RADIOACTIVITY (GROSS ALPHA)
RADIOACTVB  = RADIOACTIVITY (GROSS BETA)
RESORCINOL  = RESORCINOL (= 1,3-DIHYDROXYBENZENE)
RETENE      = RETENE (= 7-ISOPROPYL-1-METHYL-PHENANTHRENE)
SAFROLE     = SAFROLE (= 1-ALLYL-3,4-METHYLENEDIOXYBENZENE)
SPIMAR AC   = SANDACOMPIMARIC ACID
SELENATE    = SELENATE
SELENITE    = SELENITE (= CALCIUM SULFATE)
DSELENIUM   S SELENIUM, DISSOLVED
SELENIUM    = SELENIUM, TOTAL
SILICA-D    = SILICA, DISSOLVEDH(= SILICON DIOXIDE)
SILICATE    = SILICATE
SILICON     = SILICON
SILICA-D    = SILICON DIOXIDE (= SILICA)H DISSOLVED
DSILVER     = SILVER, DISSOLVED
PSILVER     = SILVER, PARTICULATE
SILVER      = SILVER, TOTAL
SILVEX      = SILVEX (PESTICIDE)
SIMAZINE    = SIMAZINE (PESTICIDE)
SODIUM      = SODIUM
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SODCRO      = SODIUM CHROMATE
TOT SOLIDSH= SOLIDSH TOTAL
TVS         = SOLIDSH TOTAL VOLATILE
6MET4COHEX = SQUALENE (= HEXAMETHYL TETRACOSAHEXANE)
STRONTIUM  = STRONTIUM
STRYCHNINE = STRYCHNINE
STYRENE     = STYRENE (=HETHENYLBENZENE = PHENYLETHYLENE = VINYLBENZ
SO4-D       = SULFATE, DISSOLVED
SO4-P       = SULFATE, PARTICULATE
SULFATE     = SULFATE, TOTAL
SULFIDES    = SULFIDES
SULFUR      = SULFUR
SOX         = SULFUR OXIDES
SULFRYLFL   = SULFURYL FLUORIDE
ABIETIC AC = SYLVIC ACID (= ABIETIC ACID)
DEMETON     = SYSTOX (= DEMETON) (PESTICIDE)
2,4,5 T     = T (2,4,5-T or 2,4,5-Trichlorophenoxy Acetic Acid) (PES
TCDD        = TCDD (= 2,3,7,8-TETRACHLORODIBENZODIOXIN = DIOXIN)
TEBUTHIURN = TEBUTHIURON
METHAPYRIL = TENALIN BASE (= METHAPYRILINE = HISTADYL BASEH= THENYL
TERBUFOS    = TERBUFOS
M-3PHEN     = TERPHENYL (m-Terphenyl = 1,3-DIPHENYLBENZENE)
O-3PHEN     = TERPHENYL (o-Terphenyl = 1,2-DIPHENYLBENZENE)
P-3PHEN     = TERPHENYL (p-Terphenyl = 1,4-DIPHENYLBENZENE)
4TERP-D14   = TERPHENYL-D14, DEUTERATED (SURROGATE)
TERPINEOL   = TERPINEOL
TETDECANE   = TETDECANE (C14)
TETEICOSAN = TETEICOSAN (C24)
TTBT        = TETRABUTYLTIN
4CLMXYL     = TETRACHLORO-M-XYLENE (SURROGATE)
1234-4CLBZ = TETRACHLOROBENZENE (1,2,3,4-Tetrachlorobenzene)
1235-4CLBZ = TETRACHLOROBENZENE (1,2,3,5-Tetrachlorobenzene)
1245-4CLBZ = TETRACHLOROBENZENE (1,2,4,5-Tetrachlorobenzene)
4CLBPHNL-T = TETRACHLOROBIPHENYL, TOTAL
TETCBD      = TETRACHLOROBUTADIENE
I TETCBD    = TETRACHLOROBUTADIENE ISOMERS
TCDD        = TETRACHLORODIBENZODIOXIN (2,3,7,8-Tetrachlorodibenzodi
TCDD-CL37   = TETRACHLORODIBENZODIOXIN, CL37 (2,3,7,8-TETRACHLORODIB
TCDD-AC13   = TETRACHLORODIBENZODIOXIN, C13 (1,2,3,4-TETRACHLORODIBE
TCDD-C13    = TETRACHLORODIBENZODIOXIN, C13 (2,3,7,8-TETRACHLORODIBE
TCDD-T      = TETRACHLORODIBENZODIOXINSH TOTAL
2367TCDF    = TETRACHLORODIBENZOFURAN (2,3,6,7-Tetrachlorodibenzofur
TCDF        = TETRACHLORODIBENZOFURAN (2,3,7,8-Tetrachlorodibenzofur
3467TCDF    = TETRACHLORODIBENZOFURAN (3,4,6,7-Tetrachlorodibenzofur
TCDF-C13    = TETRACHLORODIBENZOFURAN, C13 (2,3,7,8-TETRACHLORODIBEN
TCDF-T      = TETRACHLORODIBENZOFURANS, TOTAL
4CLETHAN    = TETRACHLOROETHANE
1122-4CLET = TETRACHLOROETHANE (1,1,2,2-Tetrachloroethane = ACETYLE
4CLETHE     = TETRACHLOROETHENE (= PERCHLOROETHYLENE)
4CLSTYRENE = TETRACHLOROETHENYLBENZENE (=TETRACHLOROSTYRENE=TETRACH
4CLETHE     = TETRACHLOROETHYLENE (= TETRACHLOROETHENE = PERCHLOROET
GUAIATET    = TETRACHLOROGUAIACOL (= 2-METHOXY-TETRACHLOROPHENOL)
4CLMETHA    = TETRACHLOROMETHANE (= CARBON TETRACHLORIDE)
2346CLPHN   = TETRACHLOROPHENOL (2,3,4,6-Tetrachlorophenol)
2356CLPHN   = TETRACHLOROPHENOL (2,3,5,6-Tetrachlorophenol)
4CLSTYRENE = TETRACHLOROPHENYLETHYLENE (= TETRACHLOROSTYRENE)
4CLSTYRENE = TETRACHLOROSTYRENE (=TETRACHLOROETHENYLBENZENE=TETRACH
4CLSTYRENE = TETRACHLOROVINYLBENZENE (= TETRACHLOROSTYRENE)
4DECANOIC  S TETRADECANOIC ACIDH(= MYRISTIC ACID)
CYCHEXENE   = TETRAHYDROBENZENE (3,4,5,6-Tetrahydrobenzene = CYCLOHE
4HYDRFURAN = TETRAHYDROFURAN (= 1,4-EPOXYBUTANE = TETRAMETHYLENE OX
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4HYDRFURAN  = TETRAMETHYLENE OXIDE (= TETRAHYDROFURAN = 1,4-EPOXYBUT
TET3CONTAN  = TETRATRIACONTANE (C34)
DTHALLIUM   = THALLIUM, DISSOLVEDH
THALLIUM    = THALLIUM, TOTAL
METHAPYRIL  = THENYLENE BASEH(= METHAPYRILINE = HISTADYL BASEH= TENA
THIMET      = THIMET (= PHORATE)
THIOBMETHA  = THIOBISMETHANE (= METHYL SULFIDE)
SCN         = THIOCYANATE
THIONAZIN   = THIONAZIN
THIOPHENOL  = THIOPHENOLH(= BENZENETHIOL = MERCAPTOBENZENE)
THIOUREA    = THIOUREA (2-Thio-urea)
TIN         = TIN (SN)
TITANIUM    = TITANIUM
O-TOLIDINE  = TOLIDINE (o-Tolidine = 3,3'-DIMETHYLBENZIDINE)
TOLUENE     =HTOLUENEH(= METHYLBENZENE = PHENYLMETHANE
TDI         = TOLUENE DIISOCYANATE
TOLUENE D8  = TOLUENE-D8, DEUTERATED (SURROGATE)
24-2AMTOL   = TOLUENE-2,4-DIAMINE (= 2,4-DIAMINOTOLUENE)
O-TOLUIDIN  = TOLUIDINE (o-Toluidine = 2-AMINOTOLUENE = 2-METHYLANIL
O-TOLI-HCL  = TOLUIDINE HYDROCHLORIDE (o-Toluidine Hydrochloride=2-A
M-CLTOLUEN  = TOLYL CHLORIDE (m-Tolyl ChlorideH= m-CHLOROTOLUENE)
O-CLTOLUEN  = TOLYL CHLORIDE (o-Tolyl ChlorideH= o-CHLOROTOLUENEH
P-CLTOLUEN  = TOLYL CHLORIDE (p-Tolyl ChlorideH= p-CHLOROTOLUENE)
TALK        = TOTAL ALKANES
PCB10CL     = TOTAL DECACHLOROBIPHENYLS
PCB2CL      = TOTAL DICHLOROBIPHENYLS
T-DIELD     = TOTAL DIELDRIN (PESTICIDE)
PCB7CL      = TOTAL HEPTACHLOROBIPHENYLS
PCB6CL      = TOTAL HEXACHLOROBIPHENYLS
PCB1CL      = TOTAL MONOCHLOROBIPHENYLS
PCB9CL      = TOTAL NONACHLOROBIPHENYLS
PCB8CL      = TOTAL OCTACHLOROBIPHENYLS
PCB5CL      = TOTAL PENTACHLOROBIPHENYLS
TOT RES VL  = TOTAL RESIDUE - VOLATILE
TSS         = TOTAL SUSPENDED SOLIDS (CONCENTRATION)
PCB4CL      = TOTAL TETRACHLOROBIPHENYLS
PCB3CL      = TOTAL TRICHLOROBIPHENYLS
TOXAPHENE   = TOXAPHENE (PESTICIDEH
TEC         = TOXICITY EQUIVALENCE CONCENTRATION (BASED ON 2378 TCDD
T-CHLORDAN  = TRANS CHLORDANE
3PT PHOS    = TRI-p-CRESYL PHOSPHATE (= TRI-4-TOLYL PHOSPHATE)
3PT PHOS    = TRI-p-TOLYL PHOSPHATEH(= TRI-p-CRESYL PHOSPHATE)
TRICONTANE  = TRIACONTANE (C30)
3-BRMETHA   = TRIBROMOMETHANE (= BROMOFORM)
246-3BRPHN  = TRIBROMOPHENOL (2,4,6-Tribromophenol = BROMOL)
TBT         = TRIBUTYLTIN
TRICHLORFO  = TRICHLORFON (PESTICIDE)
3CLBNZ      = TRICHLOROBENZENE
123-3CLBNZ  = TRICHLOROBENZENE (1,2,3-Trichlorobenzene)
124-3CLBNZ  = TRICHLOROBENZENE (1,2,4-Trichlorobenzene)
135-3CLBNZ  = TRICHLOROBENZENE (1,3,5 Trichlorobenzene)
3CLBPHNL-T  = TRICHLOROBIPHENYL, TOTAL
TRICBD      = TRICHLOROBUTADIENE
I TRICBD    = TRICHLOROBUTADIENE ISOMERS
111-3CLETH  = TRICHLOROETHANE (1,1,1-Trichloroethane = METHYLCHLOROF
112-3CLETH  = TRICHLOROETHANE (1,1,2-Trichloroethane)
3CLETHE     = TRICHLOROETHENE (= TRICHLOROETHYLENE)
3CLETHE     = TRICHLOROETHYLENE (= TRICHLOROETHENE)
3CLFLMETH   = TRICHLOROFLUOROMETHANE
3CLGUAIA    = TRICHLOROGUAIACOL
GUAIA345    = TRICHLOROGUAIACOL (3,4,5HTrichloroguaiacol)
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GUAIA456    = TRICHLOROGUAIACOL (4,5,6-Trichloroguaiacol)
CHLOROFORM  = TRICHLOROMETHANE (= CHLOROFORM)
236-3CLPHN  = TRICHLOROPHENOL (2,3,6-Trichlorophenol)
245-3CLPHN  = TRICHLOROPHENOL (2,4,5-Trichlorophenol)
246-3CLPHN  = TRICHLOROPHENOL (2,4,6-Trichlorophenol)
2,4,5 T     = TRICHLOROPHENOXY ACETIC ACID (2,4,5-Trichlorophenoxy A
FREON 113   = TRICHLOROTRIFLUOROETHANE (= FREON 113)
TRICLOPYR   = TRICLOPYR
TRIDECANE   = TRIDECANE (C13)
TRIEICOSAN  = TRIEICOSAN (C23)
TRIFLUR     = TRIFLURALIN
3MCYCHEXEM  = TRIMETHYL CYCLOHEXENE-METHANOL
3MCYHEXE1M  = TRIMETHYL CYCLOHEXENE-1-METHANOL
3MET PHOS   = TRIMETHYL PHOSPHATE
3MET3NITRL  = TRIMETHYL-TRIDECATRIENENITRILE
245-3METAN  = TRIMETHYLANILINE (2,4,5-Trimethylaniline)
I TM BENZ   = TRIMETHYLBENZENE ISOMERS
177-3M2CYC  = TRIMETHYLBICYCLO[2H2.1]HEPTAN-2-ONE (= CAMPHOR)
13-2CLPRP   = TRIMETHYLENE CHLORIDE (1,3-DICHLOROPROPANE)
TRIMEFLSI   = TRIMETHYLFLUOROSILANE
235-3MNAP   = TRIMETHYLNAPHTHALENE (2,3,5-Trimethylnaphthalene)
234-3MNAP   = TRIMETHYLNAPTHALENE (2,3,4-TRIMETHYLNAPTHALENE)
135-3NBNZ   = TRINITROBENZENE (1,3,5-Trinitrobenzene)
3PHEN PHOS  = TRIPHENYL PHOSPHATE
T23-2BPPO4  = TRIS-(2,3-DIBROMOPROPYL)PHOSPHATE (= DIBROMOPROPYL PHO
TRITHION    = TRITHION (= CARBOPHENOTHION)
5CLNBNZ     = TRITISAN (= PENTACHLORONITROBENZENE = QUINTOZENE = BRA
TRI3CONTAN  = TRITRIACONTANE (C33)
UNDECANE    = UNDECANE (= HENDECANE)
UNEICOSANE  = UNEICOSANE (C21)
UNKALKENE   = UNKNOWN ALKENE
PCBCL6?     = UNKNOWN HEXACHLOROBIPHENYL
UCM         = UNRESOLVED COMPLEX MIXTURE
UN3CONTAN   = UNTRIACONTANE (C31)
URETHAN     = URETHANE (= ETHYL CARBAMATE = CARBAMIC ACID, ETHYL EST
VANADIUM    = VANADIUM, TOTAL
VINYL ACET  = VINYL ACETATE (= ACETIC ACID, ETHENYL ESTER)
VINYL CL    = VINYL CHLORIDEH(= CHLOROETHENE)
VCM         = VINYL CHLORIDE MONOMERS
STYRENE     = VINYLBENZENE (=HSTYRENE = ETHENYLBENZENE = PHENYLETHYL
11-2CLETHE  = VINYLIDENE CHLORIDE (= 1,1-DICHLOROETHENE)
MP-XYLENE   = XYLENE (m-XYLENE + p-XYLENE)
OM-XYLENE   = XYLENE (o-Xylene + m-Xylene)
O-XYLENE    = XYLENE (o-Xylene)
P-XYLENE    = XYLENE (p-Xylene)
I XYLENE    = XYLENE ISOMERS
XYLENE      = XYLENE, TOTALH(= DIMETHYLBENZENE)
24-2MPHN    = XYLENOL (as-m-Xylenol = 2,4-DIMETHYLPHENOL)
YTTRIUM     = YTTRIUM
DZINC       = ZINC, DISSOLVED
PZINC       = ZINC, PARTICULATE
ZINC        = ZINC, TOTAL
4-METHNAP   = 4-METHYLNAPHTHALENE
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ODES123:
Appendix B
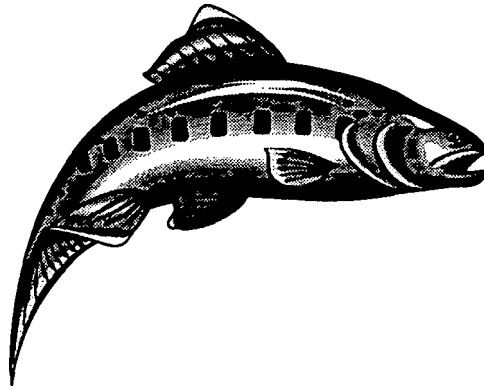
Taxa Codes

APPENDIX B

Taxa Codes

The following pages contain four lists of fish species with their associated ODES codes:

The lists were derived from estuary and marine species encountered in National Marine Fisheries Service creel censuses during 1987-92, freshwater species known to have been sampled in one or more tissue monitoring studies, and species recommended for sampling in the U.S. Environmental Protection Agency's Assessing Chemical Contaminant Data for Use in Fish Advisories: Vol. 1 - Fish Sampling and Analysis. An effort has been made to make the lists as comprehensive as possible. Should you, however, have tissue monitoring data for a species not on the lists, PLEASE CONTACT THE ODES TECHNICAL SUPPORT STAFF AT (703) 841-6279 TO OBTAIN A CODE NUMBER FOR THAT SPECIES.

APPENDIX B.1

TAXA SORTED BY COMMON NAME

CODE	COMMON NAME	SCIENTIFIC NAME
CRUSTACEANS		
	CRABS	
618901030100	BLUE	CALLINECTES SAPIDUS
618803010600	DUNGENESS	CANCER MAGISTER
618803010800	EASTERN ROCK	CANCER IRRORATUS
618902130200	GULF STONE	MENIPPE ADINA
618803010200	PACIFIC ROCK	CANCER ANTENNARIUS
618803010100	RED	CANCER PRODUCTUS
	LOBSTERS	
618101020100	AMERICAN	HOMARUS AMERICANUS
618201010300	CALIFORNIA	PANULIRUS INTERRUPTUS
618201010100	WEST INDIES SPINY	PANULIRUS ARGUS
617701010000	**SHRIMPS** WHITE	PENAEUSH?
MOLLUSCS		
	CLAMS	
551547110100	HARD	MERCENARIA MERCENARIA
551525020100	HORSENECK	TRESUS CAPAX
551547080100	MANILA	VENERUPIS JAPONICA
551547070100	PACIFIC LITTLENECK	PROTOTHACA STAMINEA
551701020100	SOFT-SHELL	MYA ARENARIA
551525010200	SURF	SPISULA SOLIDISSIMA
	MUSSELS	
550701010100	BLUE	MYTILUS EDULIS
550701010200	CALIFORNIA	MYTILUS CALIFORNIAUS
	OYSTERS	
551002010200	AMERICAN	CRASSOSTREA VIRGINICA
551002010100	PACIFIC	CRASSOSTREA GIGAS
551539010100	**QUAHOG,** OCEAN	ARCTICA ISLANDICA
FISH		
880302030100	**AGUJON**	TYLOSURUS ACUS
885003040100	**ALBACORE**	THUNNUS ALALUNGA
874701010500	**ALEWIFE**	ALOSA PSEUDOHARENGUS
	ALLIGATORFISHS	
883108030100	ALEUTIAN	ASPIDOPHOROIDES BARTONI
883108030300	ARCTIC	ASPIDOPHOROIDES OLRIKI
883108030400	COMMON	ASPIDOPHOROIDES MONOPTERYGIUS
883108020100	SMOOTH	ANOPLAGONUS INERMIS
	AMBERJACK,	
883528080100	GREATER	SERIOLA DUMERILI
883528080200	LESSER	SERIOLA FASCIATA
874702040200	**ANCHOVETA**	CETENGRAULIS MYSTICETUS
	ANCHOVYS	
874702020200	BAY	ANCHOA MITCHILLI
874702020400	BIGEYE	ANCHOA LAMPROTAENIA
874702010200	CAMIGUANA	ENGRAULIS ESTAUQUAE
874702020300	CUBAN	ANCHOA CUBANA
874702021000	DEEPBODY	ANCHOA COMPRESSA
874702020500	DUSKY	ANCHOA LYOLEPIS
874702030400	FLAT	ANCHOVIELLA PERFASCIATA
874702020900	KEY	ANCHOA CAYORUM
874702020600	LONGNOSE	ANCHOA NASUTA
874702021200	NEW JERSEY	ANCHOA DUODECIUM
874702010100	NORTHERN	ENGRAULIS MORDAX
874702010300	SILVER	ENGRAULIS EURYSTOLE
874702021100	SLOUGH	ANCHOA DELICATISSIMA
874702020100	STRIPED	ANCHOA HEPSETUS

ANGELFISH,

883555030400	BLUE	HOLOCANTHUS BERMUDENSIS
883555040200	FRENCH	POMACANTHUS PARU
883555040100	GRAY	POMACANTHUS ARCUATUS
883555030100	QUEEN	HOLACANTHUS CILIARIS

ARGENTINE,

875601020300	ATLANTIC	ARGENTINA SILUS
875601020600	PACIFIC	ARGENTINA SIALIS
875601030200	PYGMY	GLOSSANODON PYGMAEUS
875601020500	STRIATED	ARGENTINA STRIATA
883557010100	**ARMORHEAD,** LONGFIN	PENTACEROS PECTORALIS
876201010200	**AULOPUS,** YELLOWFIN	AULOPUS NANAE
880301020200	**BALAO**	HEMIRAMPHUS BALAO
886103020200	**BALLONFISH**	DIODON HOLOCANTHUS
880301020100	**BALLYHOO**	HEMIRAMPHUS BRASILIENSIS
882601060500	**BARBFISH**	SCORPAENA BRASILIENSIS
883502120200	**BARBIER,** RED	HEMANTHIAS VIVANUS
883801010200	**BARBU**	POLYDACTYLUS VIRGINICUS

BARRACUDA,

883701010400	GREAT	SPHYRAENA BARRACUDA
883701010100	PACIFIC	SPHYRAENA ARGENTEA
875603010100	**BARRELEYE**	MACROPINNA MICROSTOMA
885101020100	**BARRELFISH**	HYPEROGLYPHE PERCIFORMIS

BASS,

883502230200	BLACKEAR	SERRANUS ATROBRANCHUS
883502030100	BLACK SEA	CENTROPRISTIS STRIATA
883502140300	CAVE	LIOPROPOMA MOWBRAYI
883502231200	CHALK	SERRANUS TORTUGARUM
883502290100	GIANT SEA	STEREOLEPIS GIGAS
883502231100	HARLEQUIN	SERRANUS TIGRINUS
883502160200	KELP	PARALABRAX CLATHRATUS
883502230300	LANTERN	SERRANUS BALDWINI
883516060200	LARGEMOUTH	MICROPTERUS SALMOIDES
883502120100	LONGTAIL	HEMANTHIAS LEPTUS
883502230100	ORANGEBACK	SERRANUS ANNULARIS
883502140400	PEPPERMINT	LIOPROPOMA RUBRE
883502220100	PYGMY SEA	SERRANICULUS PUMILIO
883503010100	REEF	PSEUDOGRAMMA GREGORYI
883516020100	ROCK	AMBLOPLITES RUPESTRIS
883502030500	ROCK SEA	CENTROPRISTIS PHILADELPHICA
883502150100	ROUGHTONGUE	HOLANTHIAS MARTINICENSIS
883502230700	SADDLE	SERRANUS NOTOSPILUS
883502210100	SCHOOL	SCHULTZEA BETA
883516060100	SMALLMOUTH	MICROPTERUS DOLOMIEUI
883502230400	SNOW	SERRANUS CHIONARAIA
883502120300	SPLITTAIL	HEMANTHIAS SIGNIFER
883516060300	SPOTTED	MICROPTERUS PUNCTULATUS
883502160300	SPOTTED SAND	PARALABRAX MACULATOFASCIATUS
883502200100	STREAMER	HEMANTHIAS AUROEORUBENS
883502010200	STRIPED	MORONE SAXATILIS
883502010400	WHITE	MORONE CHRYSOPS
883502140200	WRASSE	LIOPROPOMA EUKRINES
883502010500	YELLOW	MORONE MISSISSIPPIENSIS
883502190200	YELLOWTAIL	PIKEA MEXICANA

BATFISH,

878704010100	LONGNOSE	OGCOCEPHALUS CORNIGER
878704030100	PANCAKE	HALIEUTICHTHYS ACULEATUS
878704010600	POLKA-DOT	OGCOCEPHALUS RADIATUS
878704010500	ROUGHBACK	OGCOCEPHALUS PARVUS
878704010300	SHORTNOSE	OGCOCEPHALUS NASUTUS
878704040100	TRICORN	ZALIEUTES MCGINTYI
880901010100	**BEARDFISH**	POLYMIXIA LOWEI
883562050200	**BEAUGREGORY**	POMACENTRUS LEUCOSTICTUS
883555030300	**BEAUTY,** ROCK	HOLACANTHUS TRICOLOR

883517020100	**BIGEYE,** SHORT	PRISTIGENYS ALTA
883562030600	**BLACKSMITH**	CHROMIS PUNCTIPINNIS
	BLENNY,	
884209050400	BALD	PARACLINUS INFRONS
884209050300	BANDED	PARACLINUS FASCIATUS
884209020100	BANNER	EMBLEMARIA ATLANTICA
884201050300	BARRED	HYPLEUROCHILUS BERMUDENSIS
884201020300	BAY	HYPSOBLENNIUS GENTILIS
884209070100	BLACKBELLY	STATHMONOTUS HEMPHILLI
884209020400	BLACKHEAD	CORALLIOZETUS BAHAMENSIS
884209060200	CHECKERED	STARKSIA OCELLATA
884209050200	CORAL	PARACLINUS CINGULATUS
884201050100	CRESTED	HYPLEUROCHILUS GEMINATUS
884209110100	DEEPWATER	CRYPOTREMA CORALLINUM
884209030800	DOWNY	LABRISOMUS KALISHERAE
884209070200	EELGRASS	STATHMONOTUS STAHLI
884201020100	FEATHER	HYPSOBLENNIUS HENTZ
884201030200	FLORIDA	CHASMODES SABURRAE
884201020200	FRECKLED	HYPSOBLENNIUS IONTHAS
884209020600	GLASS	CORALLIOZETUS DIAPHANUS
884209040100	GOLDLINE	MALACOCTENUS AUROLINEATUS
884209030700	HAIRY	LABRISOMUS NUCHIPINNIS
884201010300	HIGHFIN	LUPINOBLENNIUS NICHOLSI
884209050100	HORNED	PARACLINUS GRANDICOMIS
884209030500	LONGFIN	LABRISOMUS HAITIENSIS
884209050600	MARBLED	PARACLINUS MARMORATUS
884209030400	MIMIC	LABRISOMUS GUPPYI
884201020500	MUSSEL	HYPSOBLENNIUS JENKINSI
884201050400	ORANGESPOTTED	HYPLEUROCHILUS SPRINGERI
884201050200	OYSTER	HYPLEUROCHILUS AEQUIPINNIS
884209030300	PALEHEAD	LABRISOMUS GOBIO
884209020300	PIRATE	EMBLEMARIA PIRATULA
884209030100	PUFFCHEEK	LABRISOMUS BUCCIFERUS
884201060100	REDLIP	OPHIOBLENNIUS ATLANTICUS
884201020400	ROCKPOOL	HYPSOBLENNIUS GILBERTI
884209040300	ROSY	MALACOCTENUS MACROPUS
884209080100	ROUGHHEAD	ACANTHEMBLEMARIA ASPERA
884209040400	SADDLED	MALACOCTENUS TRIANGULATUS
884209020200	SAILFIN	EMBLEMARIA PANDIONIS
884201010100	SEAWEED	PARABLENNIUS MARMOREUS
884209030600	SPOTCHEEK	LABRISOMUS NIGRICINCTUS
884201030100	STRIPED	CHASMODES BOSQUIANUS
884209120100	WRASSE	HEMIEMBLEMARIA SIMULUS
883525010100	**BLUEFISH**	POMATOMUS SALTATRIX
883516050400	**BLUEGILL**	LEPOMIS MACROCHIRUS
883901100100	**BLUEHEAD**	THALASSOMA BIFASCIATUM
	BOARFISH,	
881106010100	DEEPBODY	ANTIGONIA CARPOS
881106010200	SHORTSPINE	ANTIGONIA COMBATIA
	BOBO,	
883801010300	BLUE	POLYDACTYLUS APPROXIMANS
883801010500	YELLOW	POLYDACTYLUS OPERCULARIS
882601012700	**BOCACCIO**	SEBASTES PAUCISPINIS
883535020100	**BOGA**	INERMIA VITTATA
873901010100	**BONEFISH**	ALBULA VULPES
	BONITO,	
885003020200	ATLANTIC	SARDA SARDA
885003020100	PACIFIC	SARDA CHILIENSIS
870803010100	**BONNETHEAD**	SPHYRNA TIBURO
883535010100	**BONNETMOUTH**	EMMELICHTHYOPS ALANTICUS
873401010100	**BOWFIN**	AMIA CALVA
883543030200	**BREAM,** SEA	ARCHOSARGUS RHOMBOIDALIS
	BROTULA,	
879201040100	BEARDED	BARBATA

879201280100	BLACK	STYGNO LATEBRICOLA
879201230100	GOLD	GUNTERICHTHYS LONGIPENIS
879201240100	KEY	OGILBIA CAYORUM
879201250200	PURPLE	OLIGOPUS DIAGRAMMUS
879201250100	REEF CAVE	OLIGOPUS CLAUDEI
879201010100	RED	BROSMOPHYCIS MARGINATA
879201270100	REDFIN	PETROTYX SANGUINEUS
883517030100	**BULLEYE**	COOKEOLUS JAPONICUS
	BULLHEAD,	
877702010600	BLACK	AMEIURUS MELAS
877702010400	BROWN	AMEIURUS NEBULOSUS
877702010300	YELLOW	AMEIURUS NATALIS
	BUMPER,	
883528040100	ATLANTIC	CHLOROSCOMBRUS CHRYSURUS
883528040200	PACIFIC	CHLOROSCOMBRUS ORQUETA
879103080100	**BURBOT**	LOTA LOTA
	BURRFISH,	
886103010200	BRIDLED	CHILOMYCTERUS ANTENNATUS
886103010600	PACIFIC	CHILOMYCTERUS AFFINIS
886103010400	SPOTTED	CHILOMYCTERUS ATINGA
886103010100	STRIPED	CHILOMYCTERUS SCHOEPFI
886103010300	WEB	CHILOMYCTERUS ANTILLARUM
	BUTTERFISH,	
885103010300	COMMON	PEPRILUS TRIACANTHUS
885103010400	GULF	PEPRILUS BURTI
	BUTTERFLYFISH,	
883555010800	BANDED	CHAETODON STRIATUS
883555010200	BANK	CHAETODON AYA
883555010300	FOUREYE	CHAETODON CAPISTRATUS
883555050100	LONGSNOUT	CHAETODON ACULEATUS
883555010700	REEF	CHAETODON SEDENTARIUS
883555010100	SPOTFIN	CHAETODON OCELLATUS
883102310100	**CABEZON**	SCORPAENICHTHYS MARMORATUS
883502040300	**CABRILLA,** SPOTTED	EPINEPHELUS ANALOGUS
875503020100	**CAPELIN**	MALLOTUS VILLOSUS
	CARDINALFISH,	
883518010500	BARRED	APOGON BINOTATUS
883518011300	BELTED	APOGON TOWNSENDI
883518010100	BIGTOOTH	APOGON AFFINIS
883518020200	BLACKFIN	ASTRAPOGON PUNCTICULATUS
883518010400	BRIDLE	APOGON AUROLINEATUS
883518011700	BROADSADDLE	APOGON PILLIONATUS
883518020100	BRONZE	ASTRAPOGON ALUTUS
883518050300	DUSKY	PHAEOPTYX PIGMENTARIA
883518050100	FRECKLED	PHAEOPTYX CONKLINI
883518011400	GUADALUPE	APOGON GUADALUPENSIS
883518011600	MIMIC	APOGON PHENAX
883518010900	PALE	APOGON PLANIFRONS
883518011100	SAWCHEEK	APOGON QUADRISQUAMATUS
883518050200	SPONGE	PHAEOPTYX XENUS
883518011000	TWOSPOT	APOGON PSEUDOMACULATUS
883518011500	WHITESTAR	APOGON LACHNERI
877601010100	**CARP,** COMMON	CYPRINUS CARPIO
	CATFISH,	
877702010200	BLUE	ICTALURUS FURCATUS
877702010500	CHANNEL	ICTALURUS PUNCTATUS
877702030100	FLATHEAD	PYLODICTIS OLIVARIS
877718010100	GAFFTOPSAIL	BAGRE MARINUS
877718020200	HARDHEAD	ARIUS FELIS
877730010100	SUCKERMOUTH	HYPOSTOMUS PLECOSTOMUS
877702010100	WHITE	AMEIURUS CATUS
885003050300	**CERO**	SCOMBEROMORUS REGALIS
875501040200	**CHAR,** ARCTIC	SALVELINUS ALPINUS
883555020100	**CHERUBFISH**	CENTROPYGE ARGI

	CHROMIS,	
883562030100	BLUE	CHROMIS CYANEA
883562030500	BROWN	CHROMIS MULTILINEATA
	CHUBH	
883551010200	BERMUDA	KYPHOSUS SECTATRIX
883551010100	YELLOW	KYPHOSUS INCISOR
	CIGARFISHH	
885102020100	BIGEYE	CUBICEPS PAUCIRADIATUS
885102020300	LONGFIN	CUBICEPS PARADOXUS
	CLINGFISHH	
878401010400	BEARDED	GOBIESOX PAPILLIFER
878401010600	CALIFORNIA	GOBIESOX RHESSODON
878401040100	EMERALD	ACYRTOPS BERYLLINUS
878401020100	KELP	RIMICOLA MUSCARUM
878401010300	LINED	GOBIESOX EUGRAMMUS
878401010100	NORTHERN	GOBIESOX MAEANDRICUS
878401020200	SLENDER	RIMICOLA EIGENMANNI
878401010500	STIPPLED	GOBIESOX PUNCTULATUS
883528010100	COBIA	RACHYCENTRON CANADUM
	COCKSCOMBH	
884212040200	HIGH	ANOPLARCHUS PURPURESCENS
884212040100	SLENDER	ANOPLARCHUS INSIGNIS
884212190100	STONE	ALECTRIAS ALECTROLOPHUS
	CODH	
879103020100	ARCTIC	BOREOGADUS SAIDA
879103040200	ATLANTIC	GADUS MORHUA
879103040300	GREENLAND	GADUS OGAC
879103040100	PACIFIC	GADUS MACROCEPHALUS
879103010200	POLAR	ARCTOGADUS GLACIALIS
879103030100	SAFFRON	ELEGINUS GRACILIS
879103010100	TOOTHED	ARCTOGADUS BORISOVI
878102010100	CODLET, ANTENNA	BREGMACEROS ATLANTICUS
	COMBFISHH	
882701040100	LONGSPINE	ZANIOLEPIS LATIPINNIS
882701040200	SHORTSPINE	ZANIOLEPIS FRENATA
883518020300	CONCHFISH	ASTRAPOGON STELLATUS
883502080200	CONEY	EPINEPHALUS FULVA
	CONGERH	
874112020200	BANDTOOTH	ARIOSOMA BALEARICUM
874112040100	CATALINA	GNATHOPHIS CATALINENSIS
874108010200	FRECKLED PIKE	HOPLUNNIS MACRURUS
874112010200	MANYTOOTH	TRIPORICEPS ??
874112050100	MARGINTAIL	PARA CAUDILIMBATUS
874112030300	WHIPTAIL	HILDEBRANDIA GRACILIOR
874112030200	YELLOW	HILDEBRANDIA FLAVA
883544060700	CORBINA	MENTICIRRHUS UNDULATUS
	CORONETFISHH	
881902010100	BLUESPOTTED	FISTULARIA TABACARIA
881902010300	RED	FISTULARIA PETIMBA
883544011400	CORVINA, SHORTFIN	CYNOSCION PARVIPINNIS
883540011100	COTTONWICK	HAEMULON MELANURUM
882801014900	COWCOD	SEBASTES LEVIS
	COWFISHH	
886003020200	HONEYCOMB	LACTOPHRYS POLYGONIA
886003020100	SCRAWLED	LACTOPHRYS QUADRICORNIS
	CRAPPIEH	
883516070200	BLACK	POMOXIS NIGROMACULATUS
883516070100	WHITE	POMOXIS ANNULARIS
	CROAKERH	
883544070200	ATLANTIC	MICROPOGONIAS UNDULATUS
883544230100	BLACK	CHEILOTREMA SATURNUM
883544030400	BLUE	BAIRDIELLA BATABANA
883544130100	REEF	ODONTOSCION DENTEX
883544240100	SPOTFIN	RONCADOR STEARNSI

883544030500	STRIPED	BAIRDIELLA SANCTAELUCIAE
883544020100	WHITE	GENYONEMUS LINEATUS
883544110500	YELLOWFIN	UMBRINA RONCADOR
883544120600	**CUBBYU**	EQUETUS UMBROSUS
883901020100	**CUNNER**	TAUTOGOLABRUS ADSPERSUS
879103110100	**CUSK**	BROSME BROSME
	CUSK-EEL	
879201060300	BANK	OPHIDION HOLBROOKI
879201070400	BASKETWEAVE	OPHIDION SCRIPPSAE
879201050400	BLACKEDGE	LEPOPHIDIUM BREVIBARBE
879201060200	BLOTCHED	OPHIDION GRAYI
879201060500	CRESTED	OPHIDION WELSHI
87920160100	DUSKY	PAROPHIDION SCHMIDTI
879201050300	FAWN	LEPOPHIDIUM PROFUNDORUM
879201060100	LONGNOSE	OPHIDION BEANI
879201060400	MOONEYE	OPHIDION SELENOPS
879201050500	MOTTLED	LEPOPHIDIUM JEANNAE
879201070100	POLKA-DOT	OTOPHIDIUM OMOSTIGMUM
879201070300	SLEEPER	OTOPHIDIUM DORMITATOR
879201070200	SPOTTED	CHILARA TAYLORI
879201090100	STRIPED	OPHIDION MARGINATUM
	CUTLASSFISH	
885002020100	ATLANTIC	TRICHIURUS LEPTURUS
885002020200	PACIFIC	TRICHIURUS NITENS
	DAB	
885704060300	AMERICAN	HIPPOGLOSSOIDES PLATESSOIDES
885704090200	LONGHEAD	PLEURONECTES PROBOSCIDEUS
876210010100	**DAGGERTOOTH**	NOTOPTERUS PHARAO
	DAMSELFISH	
883562050600	BICOLOR	POMACENTRUS PARTITUS
883562050500	COCOA	POMACENTRUS VARIABILIS
883562050100	DUSKY	POMACENTRUS FUSCUS
883562050400	THREESPOT	POMACENTRUS PLANIFRONS
883562040100	YELLOWTAIL	MICROSPATHODON CHRYSURUS
881502010200	**DEALFISH**	TRACHIPTERUS ARCTICUS
	DIVER,	
884214010100	GRAVEL	SCYTALINA CERDALE
876202010200	SAND	SYNODUS INTERMEDIUS
884901010200	**DOCTORFISH**	ACANTHURUS CHIRURGUS
	DOGFISH	
871001090100	BLACK	CENTROSCYLLIUM FABRICII
870801030400	CHAIN	SCYLIORHINUS RETIFER
871001020300	CUBAN	SQUALUS CUBENSIS
870802040100	SMOOTH	MUSTELUS CANIS
871001020100	SPINY	SQUALUS ACANTHIAS
875501040100	**DOLLY VARDEN**	SALVELINUS MALMA
883529010100	**DOLPHIN**	CORYPHAENA HIPPURUS
883529010200	**DOLPHIN,** POMPANO	CORYPHAENA EQUISETIS
881103020100	**DORY,** BUCKLER	ZENOPSIS CONCHIFERA
	DRAGONET	
884601010200	LANCER	PARADIPLOGRAMMUS BAIRDI
884601010100	SPOTFIN	FOETOREPUS AGASSIZI
884601010300	SPOTTED	DIPLOGRAMMUS PAUCIRADIATUS
875904030100	**DRAGONFISH,** LONGFIN	TACTOSTOMA MACROPUS
	DRIFTFISH	
885101020200	BLACK	HYPEROGLYPHE BYTHITES
885102040300	BLUEFIN	PSENES PELLUCIDUS
885101010200	BROWN	ARIOMMA MELANUM
885102040100	FRECKLED	PSENES CYANOPHRYS
885102040200	SILVER	PSENES MACULATUS
885102010400	SPOTTED	ARIOMMA REGULUS
	DRUM,	
883544050100	BANDED	ARIMUS FASCIATUS
883544080100	BLACK	POGONIAS CROMIS

883544260100	FRESHWATER	APLODINOTUS GRUNNIENS
883544090100	RED	SCIAENOPS OCELLATA
883544110100	SAND	UMBRINA COROIDES
883544120500	SPOTTED	EQUETUS PUNCTATUS
883544100100	STAR	STELLIFER LANCEOLATUS
886002060100	**DURGON**, BLACK	MELICHTHYS NIGER
	EEL	
874113120200	ACADEMY	APTERICHTUS ANSP
874101010100	AMERICAN	ANGUILLA ROSTRATA
874104050100	BICOLOR	CHLOPSIS BICOLOR
874113100200	BLACKPORED	OPHICHTHUS MELANOPORUS
874113030100	BLOTCHED SNAKE	CALLECHELYS MURAENA
874112110100	BROWN GARDEN	HETEROCONGER HALIS
874112010100	CONGER	CONGER OCEANICUS
874113120100	FINLESS	APTERICHTUS KENDALLI
874113070100	GOLDSPOTTED	MYRICHTHYS OCELLATUS
874113050100	HORSEHAIR	GORDIICHTHYS IRRETITUS
874113010100	KEYWORM	AHLIA EGMONTIS
874113100600	PACIFIC SNAKE	OPHICHTHUS TRISERIALIS
874113100300	PALESPOTTED	OPHICHTHUS PUNCTICEPSS
874102020100	RIDGED	NEOCONGER MUCRONATUS
874113040100	RIDGEFIN	CALLECHELYS SPRINGERI
874113060100	SAILFIN	LETHARCHUS VELIFER
874104010100	SEAGRASS	CHILORHINUS SUENSONI
874113070300	SHARPTAIL	MYRICHTHYS BREVICEPS
874117010100	SHORTBELLY	DYSOMMA ANGUILLARE
874113030200	SHORTTAIL SNAKE	CALLECHELYS GUINIENSIS
874113100100	SHRIMP	OPHICHTHUS GOMESI
874113170100	SLANTLIP	CARALOPHIA LOXOCHILA
874121020200	SLENDER SNAKE	NEMICHTHYS SCOLOPACEUS
874113090200	SNAPPER	ECHIOPHIS PUNCTIFER
874113020200	SOOTY	BASCANICHTHYS BASCANIUM
874102010100	SPAGHETTI	MORINGUA EDWARDSI
874113080200	SPECKLED WORM	MYROPHIS PUNCTATUS
874303030100	SPINY	NOTACANTHUS CHEMNITZI
874113100400	SPOTTED SNAKE	OPHICHTHUS OPHIS
874113090100	SPOTTED SPOON-NOSE	ECHIOPHIS INTERTINCTUS
874113160100	STRIPE	APROGNATHODON PLATYVENTRIS
874113110300	SURF	ICHTHYAPUS OPHIONEUS
874113050200	THREAD	GORDIICHTHYS SPRINGERI
874113100700	YELLOW SNAKE	OPHICHTHUS ZOPHOCHIR
874113020100	WHIP	BASCANICHTHYS SCUTICARIS
884202020100	WOLF	ANARRHICHTHYS OCELLATUS
	EELBLENNY	
884212090100	SLENDER	LUMPENUS FABRICII
884212090400	STOUT	LUMPENUS MEDIUS
	EELPOUT	
879301020300	ALASKA	BOTHROCARA PUSILLUM
879301072200	ARCTIC	LYCODES RETICULATUS
879301170100	BEARDED	LYCONEMA BARBATUM
879301010100	BIGFIN	LYCODES CORTEZIANUS
879301070600	BLACK	LYCODES DIAPTERUS
879301080100	BLACKBELLY	LYCODOPSIS PACIFICA
879301071100	CANADIAN	LYCODES POLARIS
879301072000	NEWFOUNDLAND	LYCODES LAVALEI
879301072100	PALE	LYCODES PALLIDUS
879301060400	PALLID	LYCODAPUS MANDIBULARIS
879301071400	POLAR	LYCODES TURNERI
879301070300	SHORTFIN	LYCODES BREVIPES
879301071000	WATTLED	LYCODES PALEARIS
879301051200	WOLF	LYCENCHELYS VERRILLI
885001030100	**ESCOLAR**	LEPIDOCYBIUM FLAVOBRUNNEUM
875503050100	**EULACHON**	THALEICHTHYS PACIFICUS
883571030100	**FANFISH**, ATLANTIC	PTERYCOMBUS BRAMA

FILEFISH
886002010200	DOTTEREL	ALUTERUS HEUDELOTI
886002070100	FRINGED	MONACANTHUS CILIATUS
886002010100	ORANGE	ALUTERUS SCHOEPFI
886002040200	ORANGESPOTTED	CANTHERHINES PULLUS
886002030100	PLANEHEAD	MONACANTHUS HISPIDUS
886002030300	PYGMY	MONACANTHUS SETIFER
886002010400	SCRAWLED	ALUTERUS SCRIPTUS
886002070200	SLENDER	MONACANTHUS TUCKERI
886002010300	UNICORN	ALUTERUS MONOCEROS
886002040100	WHITESPOTTED	CANTHERHINES MACROCERUS
884209050500	**FINSPOT** REEF	PARACLINUS INTEGRIPINNIS

-FISH
883502170100	CREOLE	PARANTHIAS FURCIFER
883544120200	JACKKNIFE	EQUETUS LANCEOLATUS
885102030100	MAN-OF-WAR	NOMEUS GRONOVII
879301040300	**FISH DOCTOR**	GYMNELUS VIRIDUS
883502110100	**FLAG,** SPANISH	GONIOPLECTRUS HISPANUS
883518010700	**FLAMEFISH**	APOGON MACULATUS
876214100100	**FLASHLIGHTFISH** CALIFORNIA	

FLATHEAD
884007010100	DUCKBILL	BEMBROPS ANATIROSTRIS
884007010200	GOBY	BEMBROPS GOBIOIDES

FLOUNDER
885704100100	ARCTIC	PLEURONECTES GLACIALIS
885704010200	ARROWTOOTH	ATHERESTHES STOMIAS
885704060200	BERING	HIPPOGLOSSOIDES ROBUSTUS
885703030600	BROAD	PARALICHTHYS SQUAMILENTUS
885703130200	CHANNEL	SYACIUM MICRURUM
885703120400	DEEPWATER	MONOLENE SESSILICAUDA
885703130300	DUSKY	SYACIUM PAPILLOSUM
885703060300	EYED	BOTHUS OCELLATUS
885703030500	FOURSPOT	PARALICHTHYS OBLONGUS
885703020100	FRINGED	ETROPUS CROSSOTUS
885703020400	GRAY	ETROPUS RIMOSUS
885703030200	GULF	PARALICHTHYS ALBIGUTTA
885703010400	GULF STREAM	CITHARICHTHYS ARCTIFRONS
885704010100	KAMCHATKA	ATHERESTHES EVERMANNI
885703080100	MEXICAN	CYCLOPSETTA CHITTENDENI
885703050600	OCELLATED	ANCYLOPSETTA QUADROCELLATA
885703060100	PEACOCK	BOTHUS LUNATUS
885703070100	PELICAN	CHASCANOPSETTA LUGUBRIS
885703140400	SASH	TRICHOPSETTA VENTRALIS
885703130100	SHOAL	SYACIUM GUNTERI
885703100100	SHRIMP	GASTROPSETTA FRONTALIS
885703120100	SLIM	MONOLENE ANTILLARUM
885703020200	SMALLMOUTH	ETROPUS MICROSTOMUS
885704100300	SMOOTH	PLEURONECTES PUTNAMI
885703030400	SOUTHERN	PARALICHTHYS LETHOSTIGMA
885703090100	SPINY	ENGYOPHRYS SENTA
885703080200	SPOTFIN	CYCLOPSETTA FIMBRIATA
885704140100	STARRY	PLATICHTHYS STELLATUS
885703030100	SUMMER	PARALICHTHYS DENTATUS
885703050300	THREE-EYE	ANCYLOPSETTA DILECTA
885704200100	WINTER	PLEURONECTES AMERICANUS
885704050200	WITCH	GYPTOCEPHALUS CYNOGLOSSUS
885704090300	YELLOWTAIL	PLEURONECTES FERRUGINEUS

FLYINGFISH
880301010100	ATLANTIC	CYPSELURUS MELANURUS
880301010400	BANDWING	CYPSELURUS EXSILIENS
880301090300	BLACKWING	HIRUNDICHTHYS RONDELETI
880301120100	BLUNTNOSE	PROGNICHTHYS GIBBIFRONS
880301010700	CALIFORNIA	CYPSELURUS CALIFORNICUS
880301010200	CLEARWING	CYPSELURUS COMATUS

880301090100	FOURWING	HIRUNDICHTHYS AFFINIS
880301010300	MARGINED	CYPSELURUS CYANOPTERUS
880301070100	OCEAN TWO-WING	EXOCOETUS OBTUSIROSTRIS
880301110100	SAILFIN	PAREXOCOETUS BRACHYPTERUS
880301100100	SMALLWING	OXYPORHAMPHUS MICROPTERUS
880301010500	SPOTFIN	CYPSELURUS FURCATUS
880301070200	TROPICAL TWO-WING	EXOCOETUS VOLITANS
878803020100	**FOOTBALLFISH**, ATLANTIC	HIMANTOLOPHUS GROENLANDICUS
884701090200	**FRILLFIN**, ISLAND	BATHYGOBIUS MYSTACIUM
	FRINGEHEAD	
884209140300	ONESPOT	NEOCLINUS UNINOTATUS
884209140100	SARCASTIC	NEOCLINUS BLANCHARDI
884209140200	YELLOWFIN	NEOCLINUS STEPHENSAE
	FROGFISH	
878702020800	DWARF	ANTENNARIUS PAUCIRADIATUS
878702020100	LONGLURE	ANTENNARIUS MULTIOCELLATUS
878702020200	OCELLATED	ANTENNARIUS OCELLATUS
878702020700	ROUGHJAW	ANTENNARIUS AVALONIS
878702020300	SINGLESPOT	ANTENNARIUS RADIOSUS
878702020500	STRIATED	ANTENNARIUS STRIATUS
883502050100	**GAG**	MYCTEROPERCA MICROLEPIS
880408010200	**GAMBUSIA**, MANGROVE	GAMBUSIA RHIZOPHORAE
	GAR	
873201010400	ALLIGATOR	LEPISOSTEUS SPATULA
873201010500	FLORIDA	LEPISOSTEUS PLATYRHINCUS
873201010100	LONGNOSE	LEPISOSTEUS OSSEUS
873201010300	SHORTNOSE	LEPISOSTEUS PLATOSTOMUS
873201010200	SPOTTED	LEPISOSTEUS OCULATUS
883562070100	**GARIBALDI**	HYPSYPOPS RUBICUNDA
	GOATFISH	
883545040200	DWARF	UPENEUS PARVUS
883545030200	MEXICAN	PSEUDUPENEUS DENTATUS
883545020100	RED	MULLUS AURATUS
883545030100	SPOTTED	PSEUDUPENEUS MACULATUS
883545010100	YELLOW	MULLOIDICHTHYS MARTINICUS
	GOBY	
884701010100	ARROW	CLEVELANDIA IOS
884701070400	BANNER	MICROGOBIUS MICROLEPIS
884701020200	BARFIN	CORYPHOPTERUS ALLOIDES
884701021000	BARTAIL	CORYPHOPTERUS THRIX
884701030100	BAY	LEPIDOGOBIUS LEPIDUS
884701080100	BEARDED	BARBULIFER CEUTHOECUS
884701020100	BLACKEYE	CORYPHOPTERUS NICHOLSI
884701310100	BLIND	TYPHLOGOBIUS CALIFORNIENSIS
884701140100	BLUE	IOGLOSSUS CALLIURUS
884701265000	BLUEBANDED	LYTHRYPNUS DALLI
884701260400	BLUEGOLD	LYTHRYPNUS SPILUS
884701020500	BRIDLED	CORYPHOPTERUS GLAUCOFRAENUM
884701300100	CHAMELEON	TRIDENTIGER TRIGONOCEPHALUS
884701230100	CHEEKSPOT	ILYPNUS GILBERTI
884701070100	CLOWN	MICROGOBIUS GULOSUS
884701060300	CODE	GOBIOSOMA ROBUSTUM
884701020300	COLON	CORYPHOPTERUS DICRUS
884701260300	CONVICT	LYTHRYPNUS PHORELLUS
884701250100	CRESTED	LOPHOGOBIUS CYPRINOIDES
884701051200	DARTER	GOBIONELLUS BOLEOSOMA
884701050100	DASH	GOBIONELLUS SAEPEPALLENS
884701051100	EMERALD	GOBIONELLUS SMARAGDUS
884701050400	FRESHWATER	GOBIONELLUS SHUFELDTI
884701090300	FRILLFIN	BATHYGOBIUS SOPORATOR
884701020600	GLASS	CORYPHOPTERUS HYALINUS
884701110100	GOLDSPOT	GNATHOLEPIS THOMPSONI
884701070200	GREEN	MICROGOBIUS THALASSINUS
884701240100	HALFBLIND	LETHOPS CONNECTENS

884701050300	HIGHFIN	GOBIONELLUS OCEANICUS
884701260200	ISLAND	LYTHRYPNUS NESIOTES
884701050900	LONGTAIL	GOBIONELLUS SAGITULLA
884701040100	LYRE	EVORTHODUS LYRICUS
884701020800	MASKED	CORYPHOPTERUS PERSONATUS
884701060100	NAKED	GOBIOSOMA BOSC
884701060800	NEON	GOBIOSOMA OCEANOPS
884701090100	NOTCHTONGUE	BATHYGOBIUS CURACAO
884701270100	ORANGESPOTTED	NES LONGUS
884701220100	PALEBACK	GOBULUS MYERSI
884701020400	PALLID	CORYPHOPTERUS EIDOLON
884701020700	PEPPERMINT	CORYPHOPTERUS LIPERNES
884701160100	RAGGED	BOLLMANNIA COMMUNIS
884701210100	RIVER	AWAOUS TAJASICA
884701290100	RUSTY	PRIOLEPIS HIPOLITI
884701060200	SEABOARD	GOBIOSOMA GINSBURGI
884701070300	SEMINOLE	MICROGOBIUS CARRI
884701280100	SHADOW	QUIETULA Y-CAUDA
884701100200	SPONGE	EVERMANNICHTHYS SPONGICOLA
884701050500	SPOTFIN	GOBIONELLUS STIGMALOPHIUS
884701050600	SPOTTAIL	GOBIONELLUS STIGMATURUS
884701020900	SPOTTED	CORYPHOPTERUS PUNCIPECTOPHORUS
884701320100	TIDEWATER	EUCYCLOGOBIUS NEWBERRYI
884701060700	TIGER	GOBIOSOMA MACRODON
884701150100	TUSKED	RISOR RUBER
884701060600	TWOSCALE	GOBIOSOMA LONGIPALA
884701120100	VIOLET	GOBIOIDES BROUSSONNETI
884701200100	YELLOWFIN	ACANTHOGOBIUS FLAVIMANUS
884701060500	YELLOWLINE	GOBIOSOMA HORSTI
884701060900	YELLOWPROW	GOBIOSOMA XANTHIPRORA
884701260500	ZEBRA	LYTHRYPNUS ZEBRA
878601010100	**GOOSEFISH**	LOPHIUS AMERICANUS
883502180100	**GRAYSBY**	EPINEPHELUS CRUENTATUS
	GREENEYE	
876204020100	LONGNOSE	PARASUDIS TRUCULENTA
876204010100	SHORTNOSE	CHLOROPHTHALMUS AGASSIZI
	GREENLING	
882701010100	KELP	HEXAGRAMMOS DECAGRAMMUS
882701010300	MASKED	HEXAGRAMMOS OCTOGRAMMUS
882702030100	PAINTED	OXYLEBIUS PICTUS
882701010200	ROCK	HEXAGRAMMOS LAGOCEPHALUS
882701010400	WHITESPOTTED	HEXAGRAMMOS STELLERI
	GROUPER	
883502050200	BLACK	MYCTEROPERCA BONACI
883502050800	BROOMTAIL	MYCTEROPERCA XENARCHA
883502051000	COMB	MYCTEROPERCA RUBRA
883502050700	GULF	MYCTEROPERCA JORDANI
883502090100	MARBLED	EPINEPHALUS INERMIS
883502040900	MISTY	EPINEPHELUS MYSTACINUS
883502041200	NASSAU	EPINEPHELUS STRIATUS
883502040800	RED	EPINEPHELUS MORIO
883502041100	SNOWY	EPINEPHELUS NIVEATUS
883502055000	TIGER	MYCTEROPERCA TIGRIS
883502041000	WARSAW	EPINEPHELUS NIGRITUS
883502040500	YELLOWEDGE	EPINEPHELUS FLAVOLIMBATUS
883502050600	YELLOWFIN	MYCTEROPERCA VENENOSA
883502050400	YELLOWMOUTH	MYCTEROPERCA INTERSTITALIS
883102221000	**GRUBBY**	MYOXOCEPHALUS AENAEUS
880502070100	**GRUNION, CALIFORNIA**	LEURESTHES TENUIS
	GRUNT	
883540040100	BARRED	CONODON NOBILIS
883540011300	BLUESTRIPED	HAEMULON SCIURUS
883540050200	BURRO	POMADASYS CROCRO
883540010600	CAESAR	HAEMULON CARBONARIUM

883540010800	FRENCH	HAEMULON FLAVOLINEATUM
883540010700	SMALLMOUTH	HAEMULON CHRYSARGYREUM
883540011000	SPANISH	HAEMULON MACROSTOMUM
883540011600	STRIPED	HAEMULON STRIATUM
883540010200	WHITE	HAEMULON PLUMIERI
883701010300	**GUAGUANCHE**	SPHYRAENA GUACHANCHO
	GUITARFISHℍ	:
871302010100	ATLANTIC	RHINOBATOS LENTIGINOSUS
871302030100	BANDED	ZAPTERYX EXASPERATA
871302010400	SHOVELNOSE	RHINOBATOS PRODUCTUS
	GUNNELℍ	
884213020300	BANDED	PHOLIS FASCIATA
884213020400	BERING	PHOLIS GILLI
884213020500	CRESCENT	PHOLIS LAETA
884213040100	KELP	ULVICOLA SANTAEROSAE
884213020100	LONGFIN	PHOLIS CLEMENSI
884213010100	PENPOINT	APODICHTHYS FLAVIDUS
884213020800	RED	PHOLIS SCHULTZI
884213020900	ROCK	PHOLIS LUS
884213030100	ROCKWEED	APODICHTHYS FUCORUM
884213020600	SADDLEBACK	PHOLIS ORNATA
884213020200	STIPPLED	RHODYMENICHTHYS DOLICHOGASTER
883201010100	**GURNARD**, FLYING	DACTYLOPTERUS VOLITANS
879103130100	**HADDOCK**	MELANOGRAMMUS AEGLEFINUS
860601010100	**HAGFISH**, BLACK	EPTATRETUS DEANI
	HAKEℍ	
879103100600	CAROLINA	UROPHYCIS EARLLI
879103100500	GULF	UROPHYCIS CIRRATA
879103160100	LONGFIN	UROPHYCIS CHESTERI
879104020100	LUMINOUS	STEINDACHNERIA ARGENTEA
879104010200	PACIFIC	MERLUCCIUS PRODUCTUS
879103100100	RED	UROPHYCIS CHUSS
879104010100	SILVER	MERLUCCIUS BILINEARIS
879103100700	SOUTHERN	UROPHYCIS FLORIDANA
879103100200	SPOTTED	UROPHYCIS REGIA
879103100300	WHITE	UROPHYCIS TENUIS
	HALFBEAKℍ	
880301030400	CALIFORNIA	HYPORHAMPHUS ROSAE
880301060100	FLYING	EULEPTORHAMPHUS VELOX
880301040100	HARDHEAD	CHRIODORUS ATHERINOIDES
880301020400	LONGFIN	HEMIRAMPHUS SALTATOR
880301060200	RIBBON	EULEPTORHAMPHUS VIRIDIS
880301030100	SILVERSTRIPE	HYPORHAMPHUS UNIFASCIATUS
883551040100	**HALFMOON**	MEDIALUNA CALIFORNIENSIS
	HALIBUTℍ	
885704190200	ATLANTIC	HIPPOGLOSSUS HIPPOGLOSSUS
885703030900	CALIFORNIA	PARALICHTHYS CALIFORNICUS
885704180100	GREENLAND	REINHARDTIUS HIPPOGLOSSOIDES
885704190100	PACIFIC	HIPPOGLOSSUS STENOLEPIS
883102030500	**HAMECON**	ARTEDIELLUS SCABER
	HAMLETℍ	
883502130100	BUTTER	HYPOPLECTRUS UNICOLOR
883502060100	MUTTON	EPINEPHELUS AFER
	HAMMERHEADℍ	
870803010400	GREAT	SPHYRNA MOKARRAN
870803010300	SCALLOPED	SPHYRNA LEWINI
870803010500	SMALLEYE	SPHYRNA TUDES
870803010200	SMOOTH	SPHYRNA ZYGAENA
885103010600	**HARVESTFISH**	PEPRILUS ALEPIDOTUS
883564010100	**HAWKFISH**, REDSPOTTED	AMBLYCIRRHITUS PINOS
876214020100	**HEADLIGHTFISH**, CALIFORNIA	DIAPHUS THETA
	HERRINGℍ	
874701020100	ATLANTIC	CLUPEA HARENGUS
874701070100	ATLANTIC THREAD	OPISTHONEMA OGLINUM

874701010200	BLUEBACK	ALOSA AESTIVALIS
874701090100	DWARF	JENKINSIA LAMPROTAENIA
874701080500	FLATIRON	HARENGULA THRISSINA
874701090200	LITTLE EYE	JENKINSIA MAJUA
874701070400	MIDDLING THREAD	OPISTHONEMA MEDIRASTRE
874701020100	PACIFIC	CLUPEA PALLASI
874701060100	ROUND	ETRUMEUS TERES
874701010600	SKIPJACK	ALOSA CHRYSOCHLORIS
883544120100	**HIGH-HAT**	EQUETUS ACUMINATUS
	HIND:	
883502040600	RED	EPINEPHELUS GUTTATUS
883502040200	ROCK	EPINEPHELUS ADSCENSIONIS
883502040400	SPECKLED	EPINEPHELUS DRUMMONDHAYI
885801010100	**HOGCHOKER**	TRINECTES MACULATUS
	HOGFISH:	
883901090100	COMMON	LANCHNOLAIMUS MAXIMUS
883901050100	RED	DECODON PUELLARIS
883901030200	SPANISH	BODIANUS RUFUS
883901030100	SPOTFIN	BODIANUS PULCHELLUS
880302030200	**HOUNDFISH**	TYLOSURUS CROCODILUS
	IRISH LORD:	
883102140500	BROWN	HEMILEPIDOTUS SPINOSUS
883102140200	RED	HEMILEPIDOTUS HEMILEPIDOTUS
883102140300	YELLOW	HEMILEPIDOTUS JORDANI
	JACK:	
883528080300	ALMACO	SERIOLA RIVOLIANA
883528030800	BAR	CARANX RUBER
883528030700	BLACK	CARANX LUGUBRIS
883528140100	BLUNTNOSE	HEMICRANX AMBLYRHYNCHUS
883528170100	COTTONMOUTH	URASPIS SECUNDA
883528030300	CREVALLE	CARANX HIPPOS
883528030500	GREEN	CARANX CABALLUS
883528030400	HORSE-EYE	CARANX LATUS
883528030100	YELLOW	CARANX BARTHOLOMAEI
880502060100	**JACKSMELT**	ATHERINOPSIS CALIFORNIENSIS
886001030100	**JAMBEAU**	PARAHOLLARDIA LINEATA
	JAWFISH:	
884002020500	BANDED	OPISTOGNATHUS MACROGNATHUS
884002020700	DUSKY	OPISTOGNATHUS WHITEHURSTI
884002020200	MOTTLED	OPISTOGNATHUS MAXILLOSUS
884002020100	MOUSTACHE	OPISTOGNATHUS LONCHURUS
884002010200	SWORDTAIL	LONCHOPISTHUS MICROGNATHUS
884002020300	YELLOWHEAD	OPISTOGNATHUS AURIFRONS
883539010200	**JENNY** SILVER	EUCINOSTOMUS GULA
883502040100	**JEWFISH**	EPINEPHELUS ITAJARA
885003010300	**KAWAKAWA**	EUTHYNNUS AFFINIS
	KELPFISH:	
884209010200	CREVICE	GIBBONSIA MONTEREYENSIS
884209505000	GIANT	HETEROSTICHUS ROSTRATUS
884209090100	ISLAND	ALLOCLINUS HOLDERI
884209010300	SPOTTED	GIBBONSIA ELEGANS
884209010100	STRIPED	GIBBONSIA METZI
	KILLIFISH:	
880404021200	BAYOU	FUNDULUS PULVEREUS
880404040100	DIAMOND	ADINIA XENICA
880404050100	GOLDSPOTTED	FLORIDICHTHYS CARPIO
880404020700	GULF	FUNDULUS GRANDIS
880404020100	MARSH	FUNDULUS CONFLUENTUS
880404030100	RAINWATER	LUCANIA PARVA
880404020400	SPOTFIN	FUNDULUS LUCIAE
880404020500	STRIPED	FUNDULUS MAJALIS
	KINGFISH:	
883544060200	GULF	MENTICIRRHUS LITTORALIS
883544060300	NORTHERN	MENTICIRRHUS SAXATILIS

883544060100	SOUTHERN	MENTICIRRHUS AMERICANUS
873801010100	**LADYFISH**	ELOPS SAURUS
	LAMPFISH,	
876214080200	DIOGENES	DIOGENYS LATERNATUS
876214010100	DOGTOOTH	CERATOSCOPELUS TOWNSENDI
876214240100	MEXICAN	TRIPHOTURUS MEXICANUS
876214050100	NORTHERN	STENOBRACHIUS LEUCOPSARUS
876214040100	PATCHWORK	NOTOSCOPELUS RESPLENDENS
876214030200	PINPOINT	LAMPANYCTUS REGALIS
	LAMPREY,	
860301020300	ARCTIC	LAMPETRA JAPONICA
860301010100	PACIFIC	LAMPETRA TRIDENTATA
860301030100	SEA	PETROMYZON MARINUS
	LANCETFISH,	
876209010200	LONGNOSE	ALEPISAURUS FEROX
876209010300	SHORTNOSE	ALEPISAURUS BREVIROSTRIS
876214070100	**LANTERNFISH, BLUE**	TARLETONBEANIA CRENULARIS
883528050100	**LEATHERJACK**	OLIGOPLITES SAURUS
875901060100	**LIGHTFISH, STAREYE**	POLLICHTHYS MAULI
882701020100	**LINGCOD**	OPHIODON ELONGATUS
883601010400	**LIZA**	MUGIL LIZA
	LIZARDFISH,	
876202010300	CALIFORNIA	SYNODUS LUCIOCEPS
876202010100	INSHORE	SYNODUS FOETENS
876202030100	LARGESCALE	SAURIDA BRASILIENSIS
876202010400	OFFSHORE	SYNODUS POEYI
876202010600	RED	SYNODUS SYNODUS
876202030300	SHORTJAW	SAURIDA NORMANI
876202030200	SMALLSCALE	SAURIDA CARIBBAEA
883528070100	**LOOKDOWN**	SELENE VOMER
885005010100	**LOUVAR**	LUVARUS IMPERIALIS
883109150100	**LUMPFISH**	CYCLOPTERUS LUMPUS
	LUMPSUCKER,	
883109050800	ATLANTIC SPINY	EUMICROTREMUS SPINOSUS
883109040500	ARCTIC	CYCLOPTEROPSIS MACALPINI
883109050400	LEATHERFIN	EUMICROTREMUS DERJUGINI
883109050600	PACIFIC SPINY	EUMICROTREMUS ORBIS
883109050100	PIMPLED	EUMICROTREMUS ANDRIASHEVI
883109010100	SMOOTH	APTOCYCLUS VENTRICOSUS
873801010200	**MACHETE**	ELOPS AFFINIS
	MACKEREL,	
882701050100	ATKA	PLEUROGRAMMUS MONOPTERYGIUS
885003030200	ATLANTIC	SCOMBER SCOMBRUS
885003070100	BULLET	AUXIS ROCHEI
885003030100	CHUB	SCOMBER JAPONICUS
885003070200	FRIGATE	AUXIS THAZARD
883528010100	JACK	TRACHURUS SYMMETRICUS
885003050100	KING	SCOMBEROMORUS CAVALLA
885001020100	SNAKE	GEMPYLUS SERPENS
885003050200	SPANISH	SCOMBEROMORUS MACULATUS
870704050100	**MAKO, SHORTFIN**	ISURUS OXYRINCHUS
871308010100	**MANTA**	MANTA BIROSTRIS
	MARGATE,	
883540030400	BLACK	ANISOTREMUS SURINAMENSIS
883540010300	COMMON	HAEMULON ALBUM
	MARLIN,	
885006020200	BLACK	MAKAIRA INDICA
885006020100	BLUE	MAKAIRA NIGRICANS
885006030100	WHITE	TETRAPTURUS ALBIDUS
879401080200	**MARLIN-SPIKE**	NEZUMIA BAIRDI
885101010100	**MEDUSAFISH**	ICICHTHYS LOCKINGTONI
	MENHADEN,	
874701040100	ATLANTIC	BREVOORTIA TYRANNUS
874701040200	FINESCALE	BREVOORTIA GUNTERI

874701040300	GULF	BREVOORTIA PATRONUS
874701040400	YELLOWFIN	BREVOORTIA SMITHI
	MIDSHIPMAN	
878301010600	ATLANTIC	PORICHTHYS PLECTRODON
878301010100	PLAINFIN	PORICHTHYS NOTATUS
878301010700	SPECKLEFIN	PORICHTHYS MYRIASTER
880404010100	**MINNOW, SHEEPSHEAD**	CYPRINODON VARIEGATUS
	MOBULA,	
871308020400	SMOOTHTAIL	MOBULA THURSTONI
871308020300	SPINETAIL	MOBULA JAPANICA
	MOJARRA	
883539010800	BIGEYE	EUCINOSTOMUS HAVANA
883539010500	FLAGFIN	EUCINOSTOMUS MELANOPTERUS
883539010400	MOTTLED	EUCINOSTOMUS LEFROYI
883539010700	PACIFIC FLAGFIN	EUCINOSTOMUS GRACILIS
883539010600	SLENDER	EUCINOSTOMUS JONESI
883539010100	SPOTFIN	EUCINOSTOMUS ARGENTEUS
883539020300	STRIPED	DIAPTERUS PLUMIERI
883539030100	YELLOWFIN	GERRES CINEREUS
	MOLA	
886104010200	SHARPTAIL	MOLA LANCEOLATA
886104020100	SLENDER	RANZANIA LAEVIS
880408020100	**MOLLY SAILFIN**	POECILIA LATIPINNA
884201010200	**MOLLY MILLER**	SCARTELLA CRISTATA
	MOONFISH	
883528100100	ATLANTIC	SELENE SETAPINNIS
883528100200	PACIFIC	SELENE PERUVIANA
	MORAY	
874105040400	BLACKEDGE	GYMNOTHORAX NIGROMARGINATUS
874105040900	CALIFORNIA	GYMNOTHORAX MORDAX
874105020100	CHAIN	ECHIDNA CATENATA
874104020100	FALSE	KAUPICHTHYS HYOPOROIDES
874105050100	GOLDENTAIL	MURAENA MILARIS
874105040100	GREEN	GYMNOTHORAX FUNEBRIS
874105070200	MARBLED	UROPTERYGIUS MACULARIUS
874105040800	PURPLEMOUTH	GYMNOTHORAX VICINUS
874105010100	PYGMY	ANARCHIAS SIMILIS
874105050200	RETICULATE	MURAENA RETIFERA
874105040300	SPOTTED	GYMNOTHORAX MORINGA
874105030100	VIPER	ECHELYCORE NIGRICANS
880408010100	**MOSQUITOFISH WESTERN**	GAMBUSIA AFFINIS
	MULLET	
883601010500	FANTAIL	MUGIL GYRANS
883601040100	MOUNTAIN	AGONOSTOMUS MONTICOLA
883601010300	REDEYE	MUGIL GAIMARDIANUS
883601010100	STRIPED	MUGIL CEPHALUS
883601010200	WHITE	MUGIL CUREMA
880404020300	**MUMMICHOG**	FUNDULUS HETEROCLITUS
875801010400	**MUSKELLUNGE**	ESOX MASQUINONGY
	NEEDLEFISH	
880302020100	ATLANTIC	STRONGYLURA MARINA
880302020400	CALIFORNIA	STRONGYLURA EXILIS
880302010100	FLAT	ABLENNES HIANS
880302040100	KEELTAIL	PLATYBELONE ARGALUS
880302020200	REDFIN	STRONGYLURA NOTATA
881503010100	**OARFISH**	REGALECUS GLESNE
885001040100	**OILFISH**	RUVETTUS PRETIOSUS
881301010100	**OPAH**	LAMPRIS GUTTATUS
883551020100	**OPALEYE**	GIRELLA NIGRICANS
883528090300	**PALOMETA**	TRACHINOTUS GOODEI
	PARROTFISH	
883903010100	BLUE	SCARUS COERULEUS
883903020100	BLUELIP	CRYPTOTOMUS ROSEUS
883903040400	BUCKTOOTH	SPARISOMA RADIANS

883903030100	EMERALD	NICHOLSINA USTA
883903040100	GREENBLOTCH	SPARISOMA ATOMARIUM
883903010200	MIDNIGHT	SCARUS COELESTINUS
883903010500	PRINCESS	SCARUS TAENIOPTERUS
883903010600	QUEEN	SCARUS VETULA
883903010400	RAINBOW	SCARUS GUACAMAIA
883903040200	REDBAND	SPARISOMA AUROFRENATUM
883903040500	REDFIN	SPARISOMA RUBRIPINNE
883903040300	REDTAIL	SPARISOMA CHRYSOPTERUM
883903040600	STOPLIGHT	SPARISOMA VIRIDE
883903010300	STRIPED	SCARUS CROICENSIS
876212010100	**PEARLEYE**, NORTHERN	BENTHALBELLA DENTATA
879202010100	**PEARLFISH**	CARAPUS BERMUDENSIS
	PERCH,	
883560030200	BLACK	EMBIOTOCA JACKSONI
883560100200	DWARF	MICROMETRUS MINIMUS
883502100500	DWARF SAND	DIPLECTRUM BIVITTATUM
883560010100	KELP	BRACHYISTIUS FRENATUS
882601010200	PACIFIC OCEAN	SEBASTES ALUTUS
883560060100	PILE	RHACOCHILUS VACCA
883560100100	REEF	MICROMETRUS AURORA
883502100200	SAND	DIPLECTRUM FORMOSUM
883560020100	SHINER	CYMATOGASTER AGGREGATA
883544030100	SILVER	BAIRDIELLA CHRYSOURA
883502010100	WHITE	MORONE AMERICANA
883520020100	YELLOW	PERCA FLAVESCENS
883551030100	ZEBRA	HERMOSILLA AZUREA
883528090200	**PERMIT**	TRACHINOTUS FALCATUS
875801010300	**PICKEREL,** CHAIN	ESOX NIGER
883540020100	**PIGFISH**	ORTHOPRISTIS CHRYSOPTERA
875801010100	**PIKE**, NORTHERN	ESOX LUCIUS
	PIKEBLENNY,	
884209515000	BLUETHROAT	CHAENOPSIS OCELLATA
884209100100	ORANGETHROAT	CHAENOPSIS ALEPIDOTA
874701080100	**PILCHARD**, FALSE	HARENGULA CLUPEOLA
883528150100	**PILOTFISH**	NAUCRATES DUCTOR
	PINFISH,	
883543020100	COMMON	LAGODON RHOMBOIDES
883543040100	SPOTTAIL	DIPLODUS HOLBROOKI
	PIPEFISH,	
882002050200	BANDED	MICROGNATHUS CRINITUS
882002011000	BARRED	SYNGNATHUS AULISCUS
882002010100	BAY	SYNGNATHUS LEPTORHYNCHUS
882002010400	CHAIN	SNYGNATHUS LOUISIANAE
882002040300	CRESTED	COSMOCAMPUS BRACHYCEPHALUS
882002040200	DEEPWATER	COSMOCAMPUS PROFUNDUS
882002010200	DUSKY	SYNGATHUS FLORIDAE
882002011200	DWARF	COSMOCAMPUS HILDEBRANDI
882002050300	FRINGED	ARCHANOPTERUS CRINIGER
882002011300	GULF	SYNGNATHUS SCOVELLI
882002050100	INSULAR	ANARCHOPTERUS TECTUS
882002011100	KELP	SYNGNATHUS CALIFORNIENSIS
882002010300	NORTHERN	SYNGNATHUS FUSCUS
882002070100	OPOSSUM	MICROPHIS BRACHYURUS
882002010500	PUGNOSE	BRYX DUNCKERI
882002010800	SARGASSUM	ONYGNATHUS PELAGICUS
882002010600	SHORTFIN	COSMOCAMPUS ELUCENS
882002040100	WHITENOSE	COSMOCAMPUS ALBIROSTRIS
885704150100	**PLAICE**, ALASKA	PLEURONECTES QUADRITUBERCULATU
	POACHER,	
883108080100	ATLANTIC	LEPTAGONUS DECAGONUS
883108090100	BERING	OCCELLA DODECAEDRON
883108040300	BIGEYE	BATHYAGONUS PENTACANTHUS
883108050100	BLACKFIN	BATHYAGONUS NIGRIPINNIS

883108130100	BLACKTIP	XENERETMUS LATIFRONS
883108130200	BLUESPOTTED	XENERETMUS TRIACANTHUS
883108070100	FOURHORN	HYPSAGONUS QUADRICORNIS
883108010100	NORTHERN SPEARNOSE	AGONOPSIS VULSA
883108150100	PRICKLEBREAST	STELLERINA XYOSTERNA
883108100100	PYGMY	ODONTOPYXIS TRISPINOSA
883108010200	SOUTHERN SPEARNOSE	AGONOPSIS STERLETUS
883108080200	STURGEON	PODOTHECUS ACIPENSERINUS
883108110100	TUBENOSE	PALLASINA BARBATA
883108090300	WARTY	OCCELLA VERRUCOSA
	POLLACK,	
879103090100	COMMON	POLLACHIUS VIRENS
879103070100	WALLEYE	THERAGRA CHALCOGRAMMA
	POMFRET,	
883571010200	ATLANTIC	BRAMA BRAMA
883571040100	BIGSCALE	TARATICHTHYS LONGIPINNIS
883571010400	CARIBBEAN	BRAMA CARIBBEA
883571010300	LOWFIN	BRAMA DUSSUMIERI
883571010100	PACIFIC	BRAMA JAPONICA
	POMPANO,	
883528020200	AFRICAN	ALECTIS CILIARIS
883528090100	FLORIDA	TRACHINOTUS CAROLINUS
883528090800	GAFFTOPSAIL	TRACHINOTUS RHODOPUS
883539020100	IRISH	DIAPTERUS AURATUS
885103010100	PACIFIC	PEPRILUS SIMILLIMUS
883528090700	PALOMA	TRACHINOTUS PAITENSIS
870704030200	**PORBEAGLE**	LAMNA NASUS
886103020100	**PORCUPINEFISH**	DIODON HYSTRIX
	PORGY,	
883543050100	GRASS	CALAMUS ARCTIFRONS
883543050200	JOLTHEAD	CALAMUS BAJONADO
883543050600	KNOBBED	CALAMUS NODOSUS
883543050800	LITTLEHEAD	CALAMUS PRORIDENS
883543010200	LONGSPINE	STENOTOMUS CAPRINUS
883543050900	PACIFIC	CALAMUS BRACHYSOMUS
883543060200	RED	PAGRUS PAGRUS
883543050300	SAUCEREYE	CALAMUS CALAMUS
883543050700	SHEEPSHEAD	CALAMUS PENNA
883543040200	SILVER	DIPLODUS ARGENTEUS
883543050500	WHITEBONE	CALAMUS LEUCOSTEUS
883540030600	**PORKFISH**	ANISOTREMUS VIRGINICUS
879301160100	**POUT,** OCEAN	MACROZOARCES AMERICANUS
	PRICKLEBACK,	
884212140100	BLACK	XIPHISTER ATROPURPUREUS
884212110100	BLUEBARRED	PLECTOBRANCHUS EVIDES
884212020100	LESSER	ALECTRIDIUM AURANTIACUM
884212080100	LONGSNOUT	LUMPENELLA LONGIROSTRIS
884212220100	MONKEYFACE	CEBIDICHTHYS VIOLACEUS
884212060100	NUTCRACKER	BRYOZOICHTHYS LYSIMUS
884212010100	PIGHEAD	ACANTHOLUMPENUS MACKAYI
884212100100	RIBBON	PHYTICHTHYS CHIRUS
884212140200	ROCK	XIPHISTER MUCOSUS
884212090200	SNAKE	LUMPENUS SAGITTA
884212070100	TRIDENT	GYMNOCLINUS CRISTULATUS
884212120100	WHITEBARRED	POROCLINUS ROTHROCKI
884212030100	Y-	ALLOLUMPENUS HYPOCHROMUS
884215010100	**PROWFISH**	ZAPRORA SILENUS
883901070900	**PUDDINGWIFE**	HALICHOERES RADIATUS
	PUFFER,	
886101021100	BANDTAIL	SPHOEROIDES SPENGLERI
886101020900	BLUNTHEAD	SPHOEROIDES PACHYGASTER
886101020300	BULLSEYE	SPHOEROIDES ANNULATUS
886101020200	CHECKERED	SPHOEROIDES TESTUDINEUS
886101021000	LEAST	SPHOEROIDES PARVUS

886101020500	MARBLED	SPHOEROIDES DORSALIS
886101020100	NORTHERN	SPHOEROIDES MACULATUS
886101010000	OCEANIC	LAGOCEPHALUS LAGOCEPHALUS
886101535700	SHARPNOSE	CANTHGASTER ROSTRATA
886101010100	SMOOTH	LAGOCEPHALUS LAEVIGATUS
886101020800	SOUTHERN	SPHOEROIDES NEPHELUS
883516050500	**PUMPKINSEED**	LEPOMIS GIBBOSUS
883544250100	**QUEENFISH**	SERIPHUS POLITUS
884211010100	**QUILLFISH**	PTILICHTHYS GOODEI
885102010100	**RAG,** SILVER	ARIOMMA BONDI
884301010100	**RAGFISH**	ICOSTEUS AENAGMATICUS
871602010100	**RATFISH,** SPOTTED	HYDROLAGUS COLLIEI
	RAY,	
871307020200	BAT	MYLIOBATIS CALIFORNICA
871307020100	BULLNOSE	MYLIOBATIS FREMINVILLEI
871305020300	CALIFORNIA BUTTERFLY	GYMNURA MARMORATA
871307030100	COWNOSE	RHINOPTERA BONASUS
871308020200	DEVIL	MOBULA HYPOSTOMA
871303040100	LESSER ELECTRIC	NARCINE BRASILIENSIS
871303010100	PACIFIC ELECTRIC	TORPEDO CALIFORNICA
871305020200	SMOOTH BUTTERFLY	GYMNURA MICRURA
871307020300	SOUTHERN EAGLE	MYLIOBATIS GOODEI
871305020100	SPINY BUTTERFLY	GYMNURA ALTAVELA
871307010100	SPOTTED EAGLE	AETOBATUS NARINARI
	RAZORFISH,	
883901080400	GREEN	HEMIPTERONOTUS SPLENDENS
883901080200	PEARLY	HEMIPTERONOTUS NOVACULA
883901080100	ROSY	HEMIPTERONOTUS MARTINICENSIS
	REDFISH,	
882601015100	DEEPWATER	SEBASTES MENTELLA
882601013900	GOLDEN	SEBASTES NORVEGICUS
	REEFFISH,	
883562030700	PURPLE	CHROMIS SCOTTI
883562030200	YELLOWTAIL	CHROMIS ENCHRYSURUS
	REMORA,	
883527010300	COMMON	REMORA REMORA
883527010400	SPEARFISH	REMORA BRACHYPTERA
	RIBBONFISH,	
881502020100	POLKA-DOT	DESMODEMA POLYSTICTUM
881502030100	SCALLOPED	ZU CRISTATUS
881502010300	TAPERTAIL	TRACHIPTERUS FUKUZAKII
	ROCKFISH,	
882601010400	AURORA	SEBASTES AURORA
882601015600	BANK	SEBASTES RUFUS
882601012100	BLACK	SEBASTES MELANOPS
882601014000	BLACK-AND-YELLOW	SEBASTES CHRYSOMELAS
882601012400	BLUE	SEBASTES MYSTINUS
882601014700	BRONZESPOTTED	SEBASTES GILLI
882601010300	BROWN	SEBASTES AURICULATUS
882601014500	CALICO	SEBASTES DALLI
882601012800	CANARY	SEBASTES PINNIGER
882601015300	CHAMELEON	SEBASTES PHILLIPSI
882601011700	CHILIPEPPER	SEBASTES GOODEI
882601012500	CHINA	SEBASTES NEBULOSUS
882601010800	COPPER	SEBASTES CAURINUS
882601011000	DARKBLOTCHED	SEBASTES CRAMERI
882601010900	DUSKY	SEBASTES CILIATUS
882601016400	FRECKLED	SEBASTES LENTIGINOSUS
882601016200	GOPHER	SEBASTES CARNATUS
882601015400	GRASS	SEBASTES RASTRELLIGER
882601016600	GREENBLOTCHED	SEBASTES ROSENBLATTI
882601014300	GREENSPOTTED	SEBASTES CHLOROSTICTUS
882601011200	GREENSTRIPED	SEBASTES ELONGATUS
882601015700	HALFBANDED	SEBASTES SEMICINCTUS

882601016000	HONEYCOMB	SEBASTES UMBROSUS
882601014200	KELP	SEBASTES ATROVIRENS
882601015000	MEXICAN	SEBASTES MACDONALDI
882601012900	NORTHERN	SEBASTES POLYSPINIS
882601015800	OLIVE	SEBASTES SERRANOIDES
882601014600	PINK	SEBASTES EOS
882601016500	PINKROSE	SEBASTES SIMULATOR
882601011300	PUGET SOUND	SEBASTES EMPHAEUS
882601013700	PYGMY	SEBASTES WILSONI
882601012000	QUILLBACK	SEBASTES MALIGER
882601010500	REDBANDED	SEBASTES BABCOCKI
882601013000	REDSTRIPE	SEBASTES PRORIGER
882601011800	ROSETHORN	SEBASTES HELVOMACULATUS
882601013200	ROSY	SEBASTES ROSACEUS
882601010100	ROUGHEYE	SEBASTES ALEUTIANUS
882601013800	SHARPCHIN	SEBASTES ZACENTRUS
882601011900	SHORTBELLY	SEBASTES JORDANI
882601010700	SHORTRAKER	SEBASTES BOREALIS
882601010600	SILVERGRAY	SEBASTES BREVISPINIS
882601015200	SPECKLED	SEBASTES OVALIS
882601011100	SPLITNOSE	SEBASTES DIPLOPROA
882601014800	SQUARESPOTTED	SEBASTES HOPKINSI
882601014400	STARRY	SEBASTES CONSTELLATUS
882601013500	STRIPETAIL	SEBASTES SAXICOLA
882601016300	SWORDSPINE	SEBASTES ENSIFER
882601012600	TIGER	SEBASTES NIGROCINCTUS
882601012300	VERMILION	SEBASTES MINIATUS
882601011400	WIDOW	SEBASTES ENTOMELAS
882601013400	YELLOWEYE	SEBASTES RUBERRIMUS
882601013100	YELLOWMOUTH	SEBASTES REEDI
882601011500	YELLOWTAIL	SEBASTES FLAVIDUS
883108060100	**ROCKHEAD**	BOTHRAGONUS SWANI
879103150100	**ROCKLING,** FOURBEARD	ENCHELYOPUS CIMBRIUS
	RONQUIL	
884003010100	ALASKAN	BATHYMASTER CAERULEOFASCIATUS
884003020100	NORTHERN	RONQILUS JORDANI
884003010200	SMALLMOUTH	BATHYMASTER LEUROLEPIS
884003030200	STRIPEDFIN	RATHBUNELLA HYPOPLECTA
883528160100	**ROOSTERFISH**	NEMATISTIUS PECTORALIS
882601030100	**ROSEFISH** BLACKBELLY	HELICOLENUS DACTYLOPTERUS
883528080400	**RUDDERFISH** BANDED	SERIOLA ZONATA
	RUNNER,	
883528030600	BLUE	CARANX CRYSOS
883528130100	RAINBOW	ELEGATIS BIPINNULATUS
882702010100	**SABLEFISH**	ANOPLOPOMA FIMBRIA
885006010100	**SAILFISH**	ISTIOPHORUS PLATYPTERUS
883540011700	**SAILORS CHOICE**	HAEMULON PARRA
883540100100	**SALEMA**	XENISTIUS CALIFORNIENSIS
	SALMON	
875501030500	ATLANTIC	SALMO SALAR
875501020600	CHINOOK	ONCORHYNCHUS TSHAWYTSCHA
875501020200	CHUM	ONCORHYNCHUS KETA
875501020300	COHO	ONCORHYNCHUS KISUTCH
881502010100	KING	TRACHIPTERUS ALTIVELIS
875501020100	PINK	ONCORHYNCHUS GORBUSCHA
875501020500	SOCKEYE	ONCORHYNCHUS NERKA
	SAND BASS	
883502160400	BARRED	PARALABRAX NEBULIFER
883544010100	WHITE	ATRACTOSCION NOBILIS
	SAND LANCE	
884501010200	AMERICAN	AMMODYTES AMERICANUS
884501010300	NORTHERN	AMMODYTES DUBIUS
884501010100	PACIFIC	AMMODYTES HEXAPTERUS
870703010100	**SAND TIGER**	ODONTASPIS TAURUS

	SANDABE	
885703011100	LONGFIN	CITHARICHTHYS XANTHOSTIGMA
885703010100	PACIFIC	CITHARICHTHYS SORDIDUS
885703010200	SPECKLED	CITHARICHTHYS STIGMAEUS
	SANDFISHE	
883502023H900	BELTED	SERRANUS SUBLIGARIUS
884001020100	PACIFIC	TRICHODON TRICHODON
884001010100	SAILFIN	ARCTOSCOPUS JAPONICUS
	SARDINE	
874701100200	ORANGESPOT	SARDINELLA BRASILIENSIS
874701030100	PACIFIC	SARDINOPS SAGAX
874701080200	REDEAR	HARENGULA HUMERALIS
874701080400	SCALED	HARENGULA JAGUANA
874701100300	SPANISH	SARDINELLA AURITA
878702010100	**SARGASSUMFISH**	HISTRIO HISTRIO
	SARGENTE	
883562010100	MAJOR	ABUDEFDUF SAXATILIS
883562010200	NIGHT	ABUDEFDUF TAURUS
883540030700	**SARGO**	ANISOTREMUS DAVIDSONI
883520040200	**SAUGER**	STIZOSTEDION CANADENSE
	SAURYE	
880303020100	ATLANTIC	SCOMBERESOX SAURUS
880303010100	PACIFIC	COLOLABIS SAIRA
	SAWFISH,	
871301010200	LARGETOOTH	PRISTIS PRISTIS
871301010100	SMALLTOOTH	PRISTIS PECTINATA
	SCABBARDFISH,	
885002040200	PACIFIC	LEPIDOPUS FITCHI
885002060100	RAZORBACK	ASSURGER ANZAC
	SCADE	
883528060100	BIGEYE	SELAR CRUMENOPHTHALMUS
883528120100	MACKEREL	DECAPTERUS MACARELLUS
883528120400	MEXICAN	DECAPTERUS SCOMBRINUS
883528120300	REDTAIL	DECAPTERUS TABL
883528010200	ROUGH	TRACHURUS LATHAMI
883528120200	ROUND	DECAPTERUS PUNCTATUS
883502050500	**SCAMP**	MYCTEROPERCA PHENAX
883536010400	**SCHOOLMASTER**	LUTJANUS APODUS
	SCORPIONFISHE	
882601061600	CALIFORNIA	SCORPAENA GUTTATA
882601060200	CORAL	SCORPAENA ALBIFIMBRIA
882601120200	DEEPREEF	SCORPAENODES TREDECIMSPINOSUS
882601060800	DWARF	SCORPAENA ELACHYS
882601060300	GOOSEHEAD	SCORPAENA BERGI
882601050500	HIGHFIN	PONTINUS RATHBUNI
882H01060700	HUNCHBACK	SCORPAENA DISPAR
882601060100	LONGFIN	SCORPAENA AGASSIZI
882601050100	LONGSNOUT	PONTINUS CASTOR
882K010503H0	LONGSPINE	PONTINUS LONGISPINIS
882601061000	MUSHROOM	SCORPAENA INERMIS
882601060900	PLUMED	SCORPAENA GRANDICORNIS
882601120300	RAINBOW	SCORPAENODES XYRIS
882601120100	REEF	SCORPAENODES CARIBBAEUS
882601060400	SHORTFIN	SCORPAENA BRACHYPTERA
882601060600	SMOOTHHEAD	SCORPAENA CALCARATA
882601040200	SPINYCHEEK	NEOMERINTHE HEMINGWAYI
882601050600	SPINYTHROAT	PONTINUS NEMATOPHTHALMUS
882601061400	SPOTTED	SCORPAENA PLUMIERI
	SCULPIN,	
883102100200	ANTLERED	ENOPHRYS DICERAUS
883102320200	ARCHED	SIGMISTES SMITHI
883102030600	ARCTIC HOOKEAR	ARTEDIELLUS UNCINATUS
883102220600	ARCTIC	MYOXOCEPHALUS SCORPIOIDES
883102130200	ARMORHEAD	GYMNOCANTHUS GALEATUS

883102030700	ATLANTIC HOOKEAR	ARTEDIELLUS ATLANTICUS
883102130400	ARCTIC STAGHORN	GYMNOCANTHUS TRICUSPIS
883102070500	BALD	CLINOCOTTUS RECALVUS
883102200100	BELLIGERENT	MEGALOCOTTUS PLATYCEPHALUS
883102380800	BIGEYE	TRIGLOPS NYBELINI
883102150200	BIGMOUTH	HEMITRIPTERUS BOLINI
883102190100	BLACKFIN	MALACOCOTTUS KINCAIDI
883102040500	BONEHEAD	ARTEDIUS NOTOSPILOTUS
883102210100	BRIGHTBELLY	MICROCOTTUS SELLARIS
883102100100	BUFFALO	ENOPHRYSHBISON
883102100400	BULL	ENOPHRYS TAURINA
883102440100	BUTTERFLY	HEMILEPIDOTUS PAPILIO
883102070200	CALICO	CLINOCOTTUS EMBRYUM
883102080100	COASTRANGE	COTTUS ALEUTICUS
883102040600	CORRALLINE	ARTEDIUS CORALLINUS
883102060100	CRESTED	BLEPSIAS BILOBUS
883102290200	DARTER	RADULINUS BOLEOIDES
883102160200	DUSKY	ICELINUS BURCHAMI
883102230200	EYESHADE	NAUTICHTHYS PRIBILOVIUS
883102240300	FLUFFY	OLIGOCOTTUS SNYDERI
883102220500	FOURHORN	MYOXOCEPHALUS QUADRICORNIS
883102160700	FRINGED	ICELINUS FIMBRIATUS
883102160500	FROGMOUTH	ICELINUS OCULATUS
883102220400	GREAT	MYOXOCEPHALUS POLYACANTHOCEPHA
883102300100	GRUNT	RHAMPHOCOTTUS RICHARDSONI
883102320100	KELP	SIGMISTES CAULIAS
883102430100	LAVENDER	LEIOCOTTUS HIRUNDO
883102100300	LEISTER	ENOPHRYS LUCASI
883102420100	LONGFIN	JORDANIA ZONOPE
883102220900	LONGHORN	MYOXOCEPHALUS OCTODECEMSPINOSU
883102360100	MANACLED	SYNCHIRUS GILLI
883102070300	MOSSHEAD	CLINOCOTTUS GLOPICEPS
883102380700	MOUSTACHE	TRIGLOPS MURRAYI
883102160100	NORTHERN	ICELINUS BOREALIS
883102180100	PACIFIC STAGHORN	LEPTOCOTTUS ARMATUS
883102040100	PADDED	ARTEDIUS FENESTRALIS
883102160600	PIT-HEAD	ICELINUS CAVIFRONS
883102220100	PLAIN	MYOXOCEPHALUS JAOK
883102080300	PRICKLY	COTTUS ASPER
883102040400	PUGET SOUND	RUSCARIUS MEANYI
883102380500	RIBBED	TRIGLOPS PINGELI
883102050100	ROSYLIP	ASCELICHTHYS RHODORUS
883102400100	ROUGHBACK	CHITONOTUS PUGETTENSIS
883102040700	ROUGHCHEEK	RUSCARIUS CREASERI
883102380300	ROUGHSPINE	TRIGLOPS MACELLUS
883102240200	SADDLEBACK	OLIGOCOTTUS RIMENSIS
883102230100	SAILFIN	NAUTICHTHYS OCULOFASCIATUS
883102010100	SCALED	ARCHAULUS BISERIATUS
883102040200	SCALYHEAD	ARTEDIUS HARRINGTONI
883102380100	SCISSORTAIL	TRIGLOPS FORFICATUS
883102070100	SHARPNOSE	CLINOCOTTUS ACUTICEPS
883102220700	SHORTHORN	MYOXOCEPHALUS SCORPIUS
883102060200	SILVER SPOTTED	BLEPSIAS CIRRHOSUS
883102290100	SLIM	RADULINUS ASPRELLUS
883102290300	SMOOTHGUM	RADULINUS VINCULUS
883102040300	SMOOTHHEAD	ARTEDIUS LATERALIS
883102450100	SNUBNOSE	ORTHONOPIAS TRIACIS
883107030100	SOFT	PSYCHROLUTES SIGALUTES
883101010500	SPATULATE	ICELUS SPATULA
883102380600	SPECTACLED	TRIGLOPS SCEPTICUS
883102260100	SPINELESS	PHALLOCOTTUS OBTUSUS
883102090100	SPINYHEAD	DASYCOTTUS SETIGER
883102410100	SPINYNOSE	ASEMICHTHYS TAYLORI
883102160400	SPOTFIN	ICELINUS TENUIS

883107010100	TADPOLE	PSYCHROLUTES PARADOXUS
883102250100	THORNBACK	PARICELINUS HOPLITICUS
883102160300	THREADFIN	ICELINUS FILAMENTOSUS
883102240100	TIDEPOOL	OLIGOCOTTUS MACULOSUS
883101010100	TWOHORN	ICELUS BICORNIS
883102220300	WARTHEAD	MYOXOCEPHALUS NIGER
883102070400	WOOLY	CLINOCOTTUS ANALIS
883102160800	YELLOWCHIN	ICELINUS QUADRISERIATUS
883543010100	**SCUP**	STENOTOMUS CHRYSOPS
883502030400	**SEA BASS,** BANK	CENTROPRISTIS OCYURUS
883102150300	**SEA RAVEN**	HEMITRIPTERUS AMERICANUS
878808020100	**SEADEVIL,** TRIPLEWART	CRYPTOPSARAS COUESI
	SEAHORSE	
882002020500	DWARF	HIPPOCAMPUS ZOSTERAE
882002020100	LINED	HIPPOCAMPUS ERECTUS
882002020400	LONGSNOUT	HIPPOCAMPUS REIDI
882002020200	OFFSHORE	HIPPOCAMPUS OBTUSUS
882002020600	PACIFIC	HIPPOCAMPUS INGENS
	SEAPERCH	
883560110100	PINK	ZALEMBIUS ROSACEUS
883560080100	RAINBOW	HYPSURUS CARYI
883560060200	RUBBERLIP	RHACOCHILUS TOXOTES
883560050200	SHARPNOSE	PHANERODON ATRIPES
883560030100	STRIPED	EMBIOTOCA LATERALIS
883560050100	WHITE	PHANERODON FURCATUS
884003010300	**SEARCHER**	BATHYMASTER SIGNATUS
	SEAROBIN	
882602030700	ARMORED	PERISTEDION MINIATUM
882602011300	BANDTAIL	PRIONOTUS OPHRYAS
882602011100	BARRED	PRIONOTUS MARTIS
882602011800	BIGEYE	PRIONOTUS LONGISPINOSUS
882602010400	BIGHEAD	PRIONOTUS TRIBULUS
882602012000	BLACKWING	PRIONOTUS RUBIO
882602011700	BLUESPOTTED	PRIONOTUS ROSEUS
882602031300	FLATHEAD	PERISTEDION BREVIROSTRE
882602020300	HORNED	BELLATOR MILITARIS
882602010300	LEOPARD	PRIONOTUS SCITULUS
882602011400	MEXICAN	PRIONOTUS PARALATUS
882602010100	NORTHERN	PRIONOTUS CAROLINUS
882602031100	RIMSPINE	PERISTEDION THOMPSONI
882602020100	SHORTFIN	BELLATOR BRACHYCHIR
882602012100	SHORTWING	PRIONOTUS STEARNSI
882602030300	SLENDER	PERISTEDION GRACILE
882602010500	SPINY	PRIONOTUS ALATUS
882602020500	SPLITNOSE	BELLATOR XENISMA
882602020200	STREAMER	BELLATOR EGRETTA
882602010200	STRIPED	PRIONOTUS EVOLANS
	SEASNAIL	
883109082600	ATLANTIC	LIPARIS ATLANTICUS
883109081500	GELATINOUS	LIPARIS FRABICII
883109082700	INQUILINE	LIPARIS INQUILINIS
	SEATROUT	
883544010600	SAND	CYNOSCION ARENARIUS
883544010300	SILVER	CYNOSCION NOTHUS
883544010200	SPOTTED	CYNOSCION NEBULOSUS
	SENNET	
883701010200	NORTHERN	SPHYRAENA BOREALIS
883701010500	SOUTHERN	SPHYRAENA PICUDILLA
883901110100	**SENORITA**	OXYJULIS CALIFORNICA
	SHAD	
874701010400	ALABAMA	ALOSA ALABAMAE
874701010100	AMERICAN	ALOSA SAPIDISSIMA
874701050100	GIZZARD	DOROSOMA CEPEDIANUM
874701010300	HICKORY	ALOSA MEDIOCRIS

874701050200	THREADFIN	DOROSOMA PETENENSE
	SHANNY,	
884212130100	ARCTIC	STICHAEUS PUNCTATUS
884212090300	DAUBED	LUMPENUS MACULATUS
884212210100	RADIATED	ULVARIA SUBBIFURCATA
	SHARK,	
871101010100	ANGEL	SQUATINA CALIFORNICA
871101010200	ATLANTIC ANGEL	SQUATINA DUMERIL
870802030100	ATLANTIC SHARPNOSE	RHIZOPRIONODON TERRAENOVAE
870704020100	BASKING	CETORHINUS MAXIMUS
870802050500	BIGNOSE	CARCHARHINUS ALTIMUS
870802050400	BLACKNOSE	CARCHARHINUS ACRONOTUS
870802050700	BLACKTIP	CARCHARHINUS LIMBATUS
870802060100	BLUE	PRIONACE GLAUCA
870801010100	BROWN CAT	APRISTURUS BRUNNEUS
870802050200	BULL	CARCHARHINUS LEUCAS
870802050100	DUSKY	CARCHARHINUS OBSCURUS
870802100100	FINETOOTH	CARCHARHINUS ISODON
870501010100	FRILL	CHLAMYDOSELACHUS ARGUINEUS
871001010200	GREENLAND	SOMNIOSUS MICROCEPHALUS
870401010100	HORN	HETERODONTUS FRANCISCI
871001040100	KITEFIN	DALATIAS LICHA
870802080100	LEMON	NEGAPRION BREVIROSTRIS
870802090200	LEOPARD	TRIAKIS SEMIFASCIATA
870802051300	NARROWTOOTH	CARCHARHINUS BRACHYURUS
870802070100	NIGHT	CARCHARHINUS SIGNATUS
870702010100	NURSE	GINGLYMOSTOMA CIRRATUM
870802050800	OCEAN WHITETIP	CARCHARHINUS LONGIMANUS
870802030400	PACIFIC SHARPNOSE	RHIZOPRIONODON LONGURIO
871001010100	PACIFIC SLEEPER	SOMNIOSUS PACIFICUS
871001100100	PRICKLY	ECHINORHINUS COOKEI
870703010200	RAGGED-TOOTH	ODONTASPIS FEROX
870802051400	REEF	CARCHARHINUS PEREZI
870704030100	SALMON	LAMNA DITROPIS
870802050300	SANDBAR	CARCHARHINUS PLUMBEUS
870502020100	SEVENGILL	NOTORYNCHUS CEPEDIANUS
870802050600	SILKY	CARCHARHINUS FALCIFORMIS
870502010100	SIXGILL	HEXANCHUS GRISEUS
870802051200	SMALLTAIL	CARCHARHINUS POROSUS
870802010100	SOUPFIN	GALEORHINUS ZYOPTERUS
870802050900	SPINNER	CARCHARHINUS BREVIPINNA
870704040100	THRESHER	ALOPIAS VULPINUS
870802020100	TIGER	GALEOCERDO CUVIER
870701010100	WHALE	RHINCODON TYPUS
870704010100	WHITE	CARCHARODON CARCHARIAS
	SHARKSUCKER,	
883527020100	COMMON	ECHENEIS NAUCRATES
883527020200	WHITEFIN	ECHENEIS NEUCRATOIDES
883901120100	**SHEEPHEAD,** CALIFORNIA	SEMICOSSYPHUS PULCHER
883543030100	**SHEEPSHEAD**	ARCHOSARGUS PROBATOCEPHALUS
879301071900	**SHULUPAOLUK**	LYCODES JUGORICUS
	SIERRA,	
885003050400	GULF	SCOMBEROMORUS CONCOLOR
885003050600	PACIFIC	SCOMBEROMORUS SIERRA
	SILVERSIDE,	
880502030200	ATLANTIC	MENIDIA MENIDIA
880502050100	HARDHEAD	ATHERINOMORUS STIPES
880502030100	INLAND	MENIDIA BERYLLINA
880502030300	KEY	MENIDIA CONCHORUM
880502040200	REEF	HYPOATHERINA HARRINGTONENSIS
880502020100	ROUGH	MEMBRAS MARTINICA
	SKATE,	
871304010700	ALASKA	BATHYRAJA PARMIFERA
871304010200	ALEUTIAN	BATHYRAJA ALEUTICA

871304011500	BARNDOOR	RAJA LAEVIS
871304010300	BIG	RAJA BINOCULATA
871304010400	CALIFORNIA	RAJA INORNATA
871304011300	CLEARNOSE	RAJA EGLANTERIA
871304010900	FLATHEAD	BATHYRAJA ROSISPINIS
871304012600	FRECKLED	RAJA LENTIGINOSA
871304011400	LITTLE	RAJA'. ERINACEA
871304010800	LONGNOSE	RAJA RHINA
871304011700	OSCELLATE	RAJA ACKLEYI
871304012400	ROSETTE	RAJA GARMANI
871304011200	ROUGHTAIL	BATHYRAJA TRACHURA
871304013300	ROUNDEL	RAJA TEXANA
871304010500	SANDPAPER	BATHYRAJA INTERRUPTA
871304013100	SMOOTH	RAJA SENTA
871304013500	SPINYTAIL	RAJA SPINICAUDA
871304012700	SPREADFIN	RAJA OLSENI
871304011100	STARRY	RAJA STELLULATA
871304013400	THORNY	RAJA RADIATA
871304011600	WINTER	RAJA OCELLATA
882702020100	**SKILFISH**	ERILEPIS ZONIFER
878401010200	**SKILLETFISH**	GOBIESOX STRUMOSUS
885003010400	**SKIPJACK**, BLACK	EUTHYNNUS LINEATUS
	SLEEPER,	
884701340100	BIGMOUTH	GOBIOMORUS DORMITOR
884701180100	EMERALD	EROTELIS SMARAGDUS
884701330200	FAT	DORMITATOR MACULATUS
884701330100	PACIFIC FAT	DORMITATOR LATIFRONS
883901070200	**SLIPPERY DICK**	HALICHOERES BIVITTATUS
	SMELT,	
875503010300	DELTA	HYPOMESUS TRANSPACIFICUS
875503040200	LONGFIN	SPIRINCHUS THALEICHTHYS
875503040100	NIGHT	SPIRINCHUS STARKSI
875503030200	RAINBOW	OSMERUS MORDAX
875503010100	SURF	HYPOMESUS PRETIOSUS
875503060100	WHITEBAIT	ALLOSMERUS ELONGATUS
	SMOOTHHOUND,	
870802040500	BROWN	MUSTELUS HENLEI
870802040300	FLORIDA	MUSTELUS NORRISI
870802040400	GRAY	MUSTELUS CALIFORNICUS
870802040600	SICKLEFIN	MUSTELUS LUNULATUS
875602010600	**SMOOTHTONGUE,** CALIFORNIA	LEUROGLOSSUS STILBIUS
	SNAILFISH,	
883109120100	BERING	LIPARIS BERINGIANUS
883109021500	BLACKTAIL	CAREPROCTUS MELANURUS
883109030100	BLOTCHED	CRYSTALLICHTHYS CYCLOPILUS
883109082900	KELP	LIPARIS TUNICATUS
883109120200	LOBEFIN	LIPARIS GREENI
883109023200	LONGFIN	CAREPROCTUS LONGIPINNIS
883109080800	MARBLED	LIPARIS DENNYI
883109110600	PRICKLY	PARALIPARIS DEANI
883109080600	RIBBON	LIPARIS CYCLOPUS
883109082500	RINGTAIL	LIPARIS RUTTERI
883109082200	SHOWY	LIPARIS PULCHELLUS
883109082000	SLIMY	LIPARIS MUCOSUS
883109081100	SLIPSKIN	LIPARIS FUCENSIS
883109080300	SPOTTED	LIPARIS CALLYODON
883109100100	TADPOLE	NECTOLIPARIS PELAGICUS
883109081000	TIDEPOOL	LIPARIS FLORAE
883109080700	VARIEGATED	LIPARIS GIBBUS
	SNAKEBLENNY,	
884212090500	COMMON	LUMPENUS LUMPRETAEFORMIS
884212170100	FOURLINE	EUMESOGRAMMUS PRAECISUS
876202040100	**SNAKEFISH**	TRACHINOCEPHALUS MYOPS

	SNAPPER,	
883536020100	BLACK	APSILUS DENTATUS
883536010600	BLACKFIN	LUTJANUS BUCCANELLA
883536010100	CUBERA	LUTJANUS CYANOPTERUS
883536010900	DOG	LUTJANUS JOCU
883517010200	GLASSEYE	PRIACANTHUS CRUENTATUS
883536010200	GRAY	LUTJANUS GRISEUS
883536011200	LANE	LUTJANUS SYNAGRIS
883536011000	MAHOGANY	LUTJANUS MAHOGONI
883536010300	MUTTON	LUTJANUS ANALIS
883536030100	QUEEN	ETELIS OCULATUS
883536010700	RED	LUTJANUS CAMPECHANUS
883536011300	SILK	LUTJANUS VIVANUS
883536050100	VERMILION	RHOMBOPLITES AURORUBENS
883536040100	YELLOWTAIL	OCYURUS CHRYSURUS
	SNIPEFISH,	
881903010100	LONGSPINE	MACRORHAMPHOSUS SCOLOPAX
881903010200	SLENDER	MACRORHAMPHOSUS GRACILIS
	SNOOK,	
883501010500	COMMON	CENTROPOMUS UNDECIMALIS
883501010300	FAT	CENTROPOMUS PARALLELUS
883501010200	SWORDSPINE	CENTROPOMUS ENSIFERUS
883501010400	TARPON	CENTROPOMUS PECTINATUS
	SOAPFISH,	
883503020200	FRECKLED	RYPTICUS BISTRISPINUS
883503020700	GREATER	RYPTICUS SAPONACEUS
883503020800	SPOTTED	RYPTICUS SUBBIFRENATUS
883503020400	WHITESPOTTED	RYPTICUS MACULATUS
	SOLDIERFISH,	
881008030100	BIGEYE	OSTICHTHYS TRACHYPOMA
881008020100	BLACKBAR	MYRIPRISTIS JACOBUS
881008040100	CARDINAL	PLECTRYPOPS RETROSPINIS
881008060100	SPINYCHEEK	CORNIGER SPINOSUS
	SOLE,	
885703110200	BIGMOUTH	HIPPOGLOSSINA STOMATA
885704070100	BUTTER	PLEURONECTES IPIS
885704160100	C-O	PLEURONICHTHYS COENOSUS
885704160200	CURLFIN	PLEURONICHTHYS DECURRENS
885704038100	DEEPSEA	EMBASSICHTHYS BATHYBIUS
885704120100	DOVER	MICROSTOMUS PACIFICUS
885704130100	ENGLISH	PLEURONECTES VETULUS
885703150100	FANTAIL	XYSTREURYS LIOLEPIS
885704060100	FLATHEAD	HIPPOGLOSSOIDES ELASSODON
885801030200	FRINGED	GYMNACHIRUS TEXAE
885801020200	LINED	ACHIRUS LINEATUS
885801030100	NAKED	GYMNACHIRUS MELAS
885704040100	PETRALE	EOPSETTA JORDANI
885704050100	REX	ERREX ZACHIRUS
885704080100	ROCK	PLEURONECTES BILINEATUS
885704170100	SAND	PSETTICHTHYS MELANOSTICTUS
885801020100	SCRAWLED	TRINECTES INSCRIPTUS
885704110100	SLENDER	EOPSETTA EXILIS
885704090100	YELLOWFIN	PLEURONECTES ASPER
	SPADEFISH,	
883552010100	ATLANTIC	CHAETODIPTERUS FABER
883552010200	PACIFIC	CHAETODIPTERUS ZONATUS
	SPEARFISH,	
885006030400	LONGBILL	TETRAPTURUS PFLEUGERI
885006030500	SHORTBILL	TETRAPTURUS ANGUSTIROSTRIS
886001010200	SPIKEFISH, SPOTTED	HOLLARDIA MEADI
883544040100	SPOT	LEIOSTOMUS XANTHURUS
	SQUARETAIL,	
885104010200	BIGEYE	TETRAGONURUS ATLANTICUS
885104010100	SMALLEYE	TETRAGONURUS CUVIERI

	SQUIRRELFISH,	
881008010100	COMMON	HOLOCENTRUS ADSCENSIONIS
881008010200	DEEPWATER	HOLOCENTRUS BULLISI
881008010600	DUSKY	HOLOCENTRUS VEXILLARIUS
881008010500	LONGJAW	HOLOCENTRUS MARIANUS
881008010300	LONGSPINE	HOLOCENTRUS RUFUS
881008010400	REEF	HOLOCENTRUS CORUSCUS
	STARGAZER,	
884013010100	ARROW	GILLELLUS GREYAE
884013020200	BIGEYE	DACTYLOSCOPUS CROSSOTUS
884014020100	FRECKLED	GNATHAGNUS EGREGIUS
884014030100	LANCER	KATHETOSTOMA ALBIGUTTA
884014010100	NORTHERN	ASTROSCOPUS GUTTATUS
884013010200	SADDLE	PLATYGILLELLUS RUBROCINCTUS
884013020100	SAND	DACTYLOSCOPUS TRIDIGITATUS
884014030300	SMOOTH	KATHETOSTOMA AVERRUNCUS
884014010200	SOUTHERN	ASTROSCOPUS Y-GRAECUM
884013010300	WARTEYE	GILLELLUS URANIDEA
	STARSNOUT,	
883108040100	GRAY	BATHYAGONUS ALASCANA
883108040200	SPINYCHEEK	BATHYAGONUS INFRASPINATUS
	STICKLEBACK,	
881801010200	BLACKSPOTTED	GASTEROSTEUS WHEATLANDI
881801030100	FOURSPINE	APELTES QUADRACUS
881801020100	NINESPINE	PUNGITIUS PUNGITIUS
881801010100	THREESPINE	GASTEROSTEUS ACULEATUS
	STINGRAY,	
871305010500	ATLANTIC	DASYATIS SABINA
871305010600	BLUNTNOSE	DASYATIS SAY
871305010100	DIAMOND	DASYATIS DIPTERURA
871305010200	PELAGIC	DASYATIS VIOLACEA
871305010400	ROUGHTAIL	DASYATIS CENTROURA
871305030200	ROUND	UROLOPHUS HALLERI
871305010300	SOUTHERN	DASYATIS AMERICANA
	STURGEON,	
872901010500	ATLANTIC	ACIPENSER OXYRHYNCHUS
872901010200	GREEN	ACIPENSER MEDIROSTRIS
872901010400	SHORTNOSE	ACIPENSER BREVIROSTRUM
872901010700	SHOVELNOSE	SCAPHIRHYNCHUS PLATORYNCHUS
872901010300	WHITE	ACIPENSER TRANSMONTANUS
871305030100	YELLOW	UROLOPHUS JAMAICENSIS
	SUCKER,	
883527010200	MARLIN	REMORA OSTEOCHIR
883527010100	WHALE	REMORA AUSTRALIS
877604010200	WHITE	CATOSTOMUS COMMERSONI
883527030100	**SUCKERFISH,** SLENDER	PHTHEIRICHTHYS LINEATUS
	SUNFISH,	
883516050200	GREEN	LEPOMIS CYANELLUS
886104010100	OCEAN	MOLA MOLA
883516050100	REDBREASTED	LEPOMIS AURITUS
883516050900	REDEAR	LEPOMIS MICROLOPHUS
883562030300	**SUNSHINEFISH**	CHROMIS INSOLATA
	SURFPERCH,	
883560070200	BARRED	AMPHISTICHUS ARGENTEUS
883560070300	CALICO	AMPHISTICHUS KOELZI
883560070100	REDTAIL	AMPHISTICHUS RHODOTERUS
883560040200	SILVER	HYPERPROSOPON ELLIPTICUM
883560040300	SPOTFIN	HYPERPROSOPON ANALE
883560040100	WALLEYE	HYPERPROSOPON ARGENTEUM
884901010100	**SURGEON,** OCEAN	ACANTHURUS BAHIANUS
884901010500	**SURGEONFISH,** GULF	ACANTHURUS RANDALLI
883547010100	**SWEEPER,** GLASSY	PEMPHERUS SCHOMBURGKI
885004010100	**SWORDFISH**	XIPHIAS GLADIUS
884901010300	**TANG,** BLUE	ACANTHURUS COERULEUS

873H02020100	**TARPON**, ATLANTIC	MEGALOPS ATLANTICUS
883502230800	**TATTLER**	SERRANUS PHOEBE
883901010100	**TAUTOG**	TAUTOGA ONITIS
871302020100	**THORNBACK**	PLATYRHINOIDIS TRISERIATA
	THORNYHEADH	
882601020200	LONGSPINE	SEBASTOLOBUS ALTIVELIS
882601020100	SHORTSPINE	'. SEBASTOLOBUS ALASCANUS
	THREADFINH	
883801010100	ATLANTIC	POLYDACTYLUS OCTONEMUS
883801010400	LITTLESCALE	POLYDACTYLUS OLIGODON
870704040200	**THREASHER**, BIGEYE	ALOPIAS SUPERCILIOSUS
	TILEFISHH	
883522010200	BLACKLINE	CAULOLATILUS CYANOPS
883522020100	COMMON	LOPHOLATILUS CHAMAELEONTICEPS
883522030100	SAND	MALACANTHUS PLUMIERI
880302020300	**TIMUCU**	STRONGYLURA TIMUCU
	TOADFISHH	
878301020200	GULF	OPSANUS BETA
.878301020300	LEOPARD	OPSANUS PARDUS
878301020100	OYSTER	OPSANUS TAU
883502231000	**TOBACCOFISH**	SERRANUS TABACARIUS
	TOMCODH	
879103060200	ATLANTIC	MICROGADUS TOMCOD
879103060100	PACIFIC	MICROGADUS PROXIMUS
883540010100	**TOMTATE**	HAEMULON AUROLINEATUM
885802010100	**TONGUE**H BLACKCHEEK	SYMPHURUS PLAGIUSA
	TONGUEFISHH	
885802010700	DEEPWATER	SYMPHURUS PIGER
885802010500	LARGESCALE	SYMPHURUS MINOR
885802010900	NORTHERN	SYMPHURUS PUSILLUS
885802010200	OFFSHORE	SYMPHURUS CIVITATUS
885802010600	PYGMY	SYMPHURUS PARVUS
885802011000	SPOTTAIL	SYMPHURUS UROSPILUS
885802010300	SPOTTEDFIN	SYMPHURUS DIOMEDIANUS
880404020900	**TOPMINNOW**, SALTMARSH	FUNDULUS JENKINSI
880502010100	**TOPSMELT**	ATHERINOPS AFFINIS
871303010200	**TORPEDO**, ATLANTIC	TORPEDO NOBILIANA
882601015900	**TREEFISH**	SEBASTES SERRICEPS
	TRIGGERFISHH	
886002020300	FINESCALE	BALISTES POLYLEPIS
886002020100	GRAY	BALISTES CAPRISCUS
886002050200	OCEAN	CANTHIDERMIS SUFFLAMEN
886002020200	QUEEN	BALISTES VETULA
886002050100	ROUGH	CANTHIDERMIS MACULATA
886002080100	SARGASSUM	XANTHICHTHYS RINGENS
	TRIPLEFIN,	
884208010100	LOFTY	ENEANECTES ALTIVELIS
884208010300	REDEYE	ENNEANECTES PECTORALIS
883538010100	**TRIPLETAIL**	LOBOTES SURINAMENSIS
	TROUTH	
875501040400	BROOK	SALVELINUS FONTINALIS
875501030600	BROWN	SALMO TRUTTA
875501030100	CUTTHROAT	ONCORHYNCHUS CLARKI
875501040300	LAKE	SALVELINUS NAMAYCUSH
875501030200	RAINBOW	ONCORHYNCHUS MYKISS
881901010100	**TRUMPETFISH**	AULOSTOMUS MACULATUS
	TRUNKFISHH	
886003010100	COMMON	LACTOPHRYS TRIGONUS
886003010300	SMOOTH	LACTOPHRYS TRIQUETER
886003010200	SPOTTED	LACTOPHRYS BICAUDALIS
881601010100	**TUBEHEYE**	STYLEPHORUS CHORDATUS
881802010100	**TUBEHSNOUT**	AULORHYNCHUS FLAVIDUS
	TUNAH	
885003040500	BIGEYE	THUNNUS OBESUS

885003040400	BLACKFIN	THUNNUS ATLANTICUS
885003040200	BLUEFIN	THUNNUS THYNNUS
885003010100	SKIPJACK	KATSUWONUS PELAMIS
885003100100	SLENDER	ALLOTHUNNUS FALLAI
885003040300	YELLOWFIN	THUNNUS ALBACARES
885003010200	TUNNY, LITTLE	EUTHYNNUS ALLETTERATUS
	TURBOT,	
885704220100	DIAMOND	HYPOPSETTA GUTTULATA
885704160400	HORNYHEAD	PLEURONICTHYS VERTICALIS
885704160300	SPOTTED	PLEURONICHTHYS RITTERI
881501020100	UNICORNFISH	EUMECICHTHYS FISKI
875906010100	VIPERFISH, PACIFIC	CHAULIODUS MACOUNI
885003060100	WAHOO	ACANTHOCYBIUM SOLANDRI
883520040100	WALLEYE	STIZOSTEDION VITREUM
	WARBONNET,	
884212050500	ATLANTIC	CHIROLOPHIS ASCANII
884212050300	DECORATED	CHIROLOPHIS DECORATUS
884212050100	MATCHEEK	CHIROLOPHIS TARSODES
884212050200	MOSSHEAD	CHIROLOPHIS NUGATOR
883516050300	WARMOUTH	LEPOMIS GULOSUS
883544010400	WEAKFISH	CYNOSCION REGALIS
883536070100	WENCHMAN	PRISTIPOMOIDES AQUILONARIS
883527010100	WHALESUCKER	REMORA AUSTRALIS
	WHIFF,	
885703011000	BAY	CITHARICHTHYS SPILOPTERUS
885703010600	HORNED	CITHARICHTHYS CORNUTUS
885703010500	SAND	CITHARICHTHYS ARENACEUS
885703010900	SPOTTED	CITHARICHTHYS MACROPS
	WHITEFISH,	
875501010600	LAKE	COREGONUS CLUPEAFORMIS
883522010100	OCEAN	CAULOLATILUS PRINCEPS
885703040100	WINDOWPANE	SCOPHTHALMUS AQUOSUS
	WOLFFISH,	
884202010300	ATLANTIC	ANARHICHAS LUPUS
884202010100	BERING	ANARHICHAS ORIENTALIS
884202010200	NORTHERN	ANARHICHAS DENTICULATUS
884202010400	SPOTTED	ANARHICHAS MINOR
	WORMFISH,	
884706010200	LANCETAIL	MICRODESMUS LANCEOLATUS
884706010300	PINK	MICRODESMUS LONGIPINNIS
884706010100	PUGJAW	CERDALE FLORIDANA
	WRASSE,	
883901070800	BLACKEAR	HALICHOERES POEYI
883901070600	CLOWN	HALICHOERES MACULIPINNA
883901040100	CREOLE	CLEPTICUS PARRAE
883901060100	DWARF	DORATONOTUS MEGALEPIS
883901070100	GREENBAND	HALICHOERES BATHYPHILUS
883901070300	PAINTED	HALICHOERES CAUDALIS
883901070700	RAINBOW	HALICHOERES PICTUS
883901071000	ROCK	HALICHOERES SEMICINCTUS
883901070400	YELLOWCHEEK	HALICHOERES CYANOCEPHALUS
883901070500	YELLOWHEAD	HALICHOERES GARNOTI
883502280100	WRECKFISH	POLYPRION AMERICANUS
	WRYMOUTH,	
884212160100	DWARF	CRYPTACANTHODES ALEUTENSIS
884212150100	GIANT	CRYPTACANTHODES GIGANTEA
883528080800	YELLOWTAIL	SERIOLA LALANDI

APPENDIX B.2

TAXA SORTED BY SCIENTIFIC NAME

CODE	COMMON NAME	SCIENTIFIC NAME

CRUSTACEANS

618901030100	BLUE CRAB	CALLINECTES SAPIDUS
618803010200	PACIFIC ROCK CRAB	CANCER ANTENNARIUS
618803010800	EASTERN ROCK CRAB	CANCER IRRORATUS
618803010600	DUNGENESS CRAB	CANCER MAGISTER
618803010100	RED CRAB	CANCER PRODUCTUS
618101020100	AMERICAN LOBSTER	HOMARUS AMERICANUS
618902130200	GULF STONE CRAB	MENIPPE ADINA
618201010100	WEST INDIES SPINY LOBSTER	PANULIRUS ARGUS
618201010300	CALIFORNIA ROCK LOBSTER	PANULIRUS INTERRUPTUS
617701010000	WHITE SHRIMP	PENAEUSH?

MOLLUSCS

551539010100	OCEAN QUAHOG	ARTICA ISLANDICA
551002010100	PACIFIC OYSTER	CRASSOSTREA GIGAS
551002010200	AMERICAN OYSTER	CRASSOSTREA VIRGINICA
551547110100	HARD CLAM	MERCENARIA MERCENARIA
551701020100	SOFT-SHELL CLAM	MYA ARENARIA
550701010200	CALIFORNIA MUSSEL	MYTILUS CALIFORNIAUS
550701010100	BLUE MUSSEL	MYTILUS EDULIS
551547070100	PACIFIC LITTLENECK CLAM	PROTOTHACA STAMINEA
551525010200	SURF CLAM	SPISULA SOLIDISSIMA
551525020100	HORSENECK CLAM	TRESUS CAPAX
551547080100	MANILA CLAM	VENERUPIS JAPONICA

FISH

880302010100	FLAT NEEDLEFISH	ABLENNES HIANS
883562010100	SERGEANT MAJOR	ABUDEFDUF SAXATILIS
883562010200	NIGHT SERGEANT	ABUDEFDUF TAURUS
884209080100	ROUGHHEAD BLENNY	ACANTHEMBLEMARIA ASPERA
885003060100	WAHOO	ACANTHOCYBIUM SOLANDRI
884701200100	YELLOWFIN GOBY	ACANTHOGOBIUS FLAVIMANUS
884212010100	PIGHEAD PRICKLEBACK	ACANTHOLUMPENUS MACKAYI
884901010100	OCEAN SURGEON	ACANTHURUS BAHIANUS
884901010200	DOCTORFISH	ACANTHURUS CHIRURGUS
884901010300	BLUE TANG	ACANTHURUS COERULEUS
884901010500	GULF SURGEONFISH	ACANTHURUS RANDALLI
885801020200	LINED SOLE	ACHIRUS LINEATUS
872901010400	SHORTNOSE STURGEON	ACIPENSER BREVIROSTRUM
872901010200	GREEN STURGEON	ACIPENSER MEDIROSTRIS
872901010500	ATLANTIC STURGEON	ACIPENSER OXYRHYNCHUS
872901010300	WHITE STURGEON	ACIPENSER TRANSMONTANUS
878401040100	EMERALD CLINGFISH	ACYRTOPS BERYLLINUS
880404040100	DIAMOND KILLIFISH	ADINIA XENICA
871307010100	SPOTTED EAGLE RAY	AETOBATUS NARINARI
883108010200	SOUTHERN SPEARNOSE POACHER	AGONOPSIS STERLETUS
883108010100	NORTHERN SPEARNOSE POACHER	AGONOPSIS VULSA
883601040100	MOUNTAIN MULLET	AGONOSTOMUS MONTICOLA
874113010100	KEYWORM EEL	AHLIA EGMONTIS
873901010100	BONEFISH	ALBULA VULPES
883528020100	AFRICAN POMPANO	ALECTIS CILIARIS
884212190100	STONE COCKSCOMB	ALECTRIAS ALECTROLOPHUS
884212020100	LESSER PRICKLEBACK	ALECTRIDIUM AURANTIACUM

876209010300	SHORTNOSE LANCETFISH	ALEPISAURUS BREVIROSTRIS
876209010200	LONGNOSE LANCETFISH	ALEPISAURUS FEROX
884209090100	ISLAND KELPFISH	ALLOCLINUS HOLDERI
884212030100	Y-PRICKLEBACK	ALLOLUMPENUS HYPOCHROMUS
875503060100	WHITEBAIT SMELT	ALLOSMERUS ELONGATUS
885003100100	SLENDER TUNA	ALLOTHUNNUS FALLAI
870704040200	BIGEYE THRESHER	ALOPIAS SUPERCILIOSUS
870704040100	THRESHER SHARK	ALOPIAS VULPINUS
874701010200	BLUEBACK HERRING	ALOSA AESTIVALIS
874701010400	ALABAMA SHAD	ALOSA ALABAMAE
874701010600	SKIPJACK HERRING	ALOSA CHRYSOCHLORIS
874701010300	HICKORY SHAD	ALOSA MEDIOCRIS
874701010500	ALEWIFE	ALOSA PSEUDOHARENGUS
874701010100	AMERICAN SHAD	ALOSA SAPIDISSIMA
886002010200	DOTTEREL FILEFISH	ALUTERUS HEUDELOTI
886002010300	UNICORN FILEFISH	ALUTERUS MONOCEROS
886002010100	ORANGE FILEFISH	ALUTERUS SCHOEPFI
886002010400	SCRAWLED FILEFISH	ALUTERUS SCRIPTUS
883516020100	ROCK BASS	AMBLOPLITES RUPESTRIS
883564010100	REDSPOTTED HAWKFISH	AMBLYCIRRHITUS PINOS
877702010100	WHITE CATFISH	AMEIURUS CATUS
877702010600	BLACK BULLHEAD	AMEIURUS MELAS
877702010300	YELLOW BULLHEAD	AMEIURUS NATALIS
877702010400	BROWN BULLHEAD	AMEIURUS NEBULOSUS
873401010100	BOWFIN	AMIA CALVA
884501010200	AMERICAN SAND LANCE	AMMODYTES AMERICANUS
884501010300	NORTHERN SAND LANCE	AMMODYTES DUBIUS
884501010100	PACIFIC SAND LANCE	AMMODYTES HEXAPTERUS
883560070200	BARRED SURFPERCH	AMPHISTICHUS ARGENTEUS
883560070300	CALICO SURFPERCH	AMPHISTICHUS KOELZI
883560070100	REDTAIL SURFPERCH	AMPHISTICHUS RHODOTERUS
874105010100	PYGMY MORAY	ANARCHIAS SIMILIS
882002050100	INSULAR PIPEFISH	ANARCHOPTERUS TECTUS
884202010200	NORTHERN WOLFFISH	ANARHICHAS DENTICULATUS
884202010300	ATLANTIC WOLFFISH	ANARHICHAS LUPUS
884202010400	SPOTTED WOLFFISH	ANARHICHAS MINOR
884202010100	BERING WOLFFISH	ANARHICHAS ORIENTALIS
884202020100	WOLF-EEL	ANARRHICHTHYS OCELLATUS
874702020900	KEY ANCHOVY	ANCHOA CAYORUM
874702021000	DEEPBODY ANCHOVY	ANCHOA COMPRESSA
874702020300	CUBAN ANCHOVY	ANCHOA CUBANA
874702021100	SLOUGH ANCHOVY	ANCHOA DELICATISSIMA
874702021200	NEW JERSEY ANCHOVY	ANCHOA DUODECIM
874702020100	STRIPED ANCHOVY	ANCHOA HEPSETUS
874702020400	BIGEYE ANCHOVY	ANCHOA LAMPROTAENIA
874702020500	DUSKY ANCHOVY	ANCHOA LYOLEPIS
874702020200	BAY ANCHOVY	ANCHOA MITCHILLI
874702020600	LONGNOSE ANCHOVY	ANCHOA NASUTA
874702030400	FLAT ANCHOVY	ANCHOVIELLA PERFASCIATA
885703050300	THREE-EYE FLOUNDER	ANCYLOPSETTA DILECTA
885703050600	OCELLATED FLOUNDER	ANCYLOPSETTA QUADROCELLATA
874101010100	AMERICAN EEL	ANGUILLA ROSTRATA
883540030700	SARGO	ANISOTREMUS DAVIDSONI
883540030400	BLACK MARGATE	ANISOTREMUS SURINAMENSIS
883540030600	PORKFISH	ANISOTREMUS VIRGINICUS
883108020100	SMOOTH ALLIGATORFISH	ANOPLAGONUS INERMIS
884212040100	SLENDER COCKSCOMB	ANOPLARCHUS INSIGNIS
884212040200	HIGH COCKSCOMB	ANOPLARCHUS PURPURESCENS
882702010100	SABLEFISH	ANOPLOPOMA FIMBRIA
876210010100	DAGGERTOOTH	ANOTOPTERUS PHARAO
878702020700	ROUGHJAW FROGFISH	ANTENNARIUS AVALONIS
878702020100	LONGLURE FROGFISH	ANTENNARIUS MULTIOCELLATUS
878702020200	OCELLATED FROGFISH	ANTENNARIUS OCELLATUS
878702020800	DWARF FROGFISH	ANTENNARIUS PAUCIRADIATUS

878702020300	SINGLESPOT FROGFISH	ANTENNARIUS RADIOSUS
878702020500	STRIATED FROGFISH	ANTENNARIUS STRIATUS
881106010100	DEEPBODY BOARFISH	ANTIGONIA CARPOS
881106010200	SHORTSPINE BOARFISH	ANTIGONIA COMBATIA
881801030100	FOURSPINE STICKLEBACK	APELTES QUADRACUS
883544260100	FRESHWATER DRUM	APLODINOTUS GRUNNIENS
884213010100	PENPOINT GUNNEL	APODICHTHYS FLAVIDUS
884213030100	ROCKWEED GUNNEL	APODICHTHYS FUCORUM
883518010100	BIGTOOTH CARDINALFISH	APOGON AFFINIS
883518010400	BRIDLE CARDINALFISH	APOGON AUROLINEATUS
883518010500	BARRED CARDINALFISH	APOGON BINOTATUS
883518011400	GUADALUPE CARDINALFISH	APOGON GUADALUPENSIS
883518011500	WHITESTAR CARDINALFISH	APOGON LACHNERI
883518010700	FLAMEFISH	APOGON MACULATUS
883518011600	MIMIC CARDINALFISH	APOGON PHENAX
883518011700	BROADSADDLE CARDINALFISH	APOGON PILLIONATUS
883518010900	PALE CARDINALFISH	APOGON PLANIFRONS
883518011000	TWOSPOT CARDINALFISH	APOGON PSEUDOMACULATUS
883518011100	SAWCHEEK CARDINALFISH	APOGON QUADRISQUAMATUS
883518011300	BELTED CARDINALFISH	APOGON TOWNSENDI
870801010100	BROWN CAT SHARK	APRISTURUS BRUNNEUS
874113160100	STRIPE EEL	APROGNATHODON PLATYVENTRIS
883536020100	BLACK SNAPPER	APSILUS DENTATUS
874113120200	ACADEMY EEL	APTERICHTUS ANSP
874113120100	FINLESS EEL	APTERICHTUS KENDALLI
883109010100	SMOOTH LUMPSUCKER	APTOCYCLUS VENTRICOSUS
882002050300	FRINGED PIPEFISH	ARCHANOPTERUS CRINIGER
883102010100	SCALED SCULPIN	ARCHAULUS BISERIATUS
883543030100	SHEEPSHEAD	ARCHOSARGUS PROBATOCEPHALUS
883543030200	SEA BREAM	ARCHOSARGUS RHOMBOIDALIS
879103010100	TOOTHED COD	ARCTOGADUS BORISOVI
879103010200	POLAR COD	ARCTOGADUS GLACIALIS
884001010100	SAILFIN SANDFISH	ARCTOSCOPUS JAPONICUS
875601020600	PACIFIC ARGENTINE	ARGENTINA SIALIS
875601020300	ATLANTIC ARGENTINE	ARGENTINA SILUS
875601020500	STRIATED ARGENTINE	ARGENTINA STRIATA
883544050100	BANDED DRUM	ARIMUS FASCIATUS
885102010100	SILVER-RAG	ARIOMMA BONDI
885101010200	BROWN DRIFTFISH	ARIOMMA MELANUM
885102010400	SPOTTED DRIFTFISH	ARIOMMA REGULUS
874112020200	BANDTOOTH CONGER	ARIOSOMA BALEARICUM
877718020200	HARDHEAD CATFISH	ARIUS FELIS
883102030700	ATLANTIC HOOKEAR SCULPIN	ARTEDIELLUS ATLANTICUS
883102030500	HAMECON	ARTEDIELLUS SCABER
883102030600	ARCTIC HOOKEAR SCULPIN	ARTEDIELLUS UNCINATUS
883102040600	CORRALINE SCULPIN	ARTEDIUS CORALLINUS
883102040100	PADDED SCULPIN	ARTEDIUS FENESTRALIS
883102040200	SCALYHEAD SCULPIN	ARTEDIUS HARRINGTONI
883102040300	SMOOTHHEAD SCULPIN	ARTEDIUS LATERALIS
883102040500	BONEHEAD SCULPIN	ARTEDIUS NOTOSPILOTUS
883102050100	ROSYLIP SCULPIN	ASCELICHTHYS RHODORUS
883102410100	SPINYNOSE SCULPIN	ASEMICHTHYS TAYLORI
883108030100	ALEUTIAN ALLIGATORFISH	ASPIDOPHOROIDES BARTONI
883108030400	ALLIGATORFISH	ASPIDOPHOROIDES MONOPTERYGIUS
883108030300	ARCTIC ALLIGATORFISH	ASPIDOPHOROIDES OLRIKI
885002060100	RAZORBACK SCABBARDFISH	ASSURGER ANZAC
883518020100	BRONZE CARDINALFISH	ASTRAPOGON ALUTUS
883518020200	BLACKFIN CARDINALFISH	ASTRAPOGON PUNCTICULATUS
883518020300	CONCHFISH	ASTRAPOGON STELLATUS
884014010100	NORTHERN STARGAZER	ASTROSCOPUS GUTTATUS
884014010200	SOUTHERN STARGAZER	ASTROSCOPUS Y-GRAECUM
885704010100	KAMCHATKA FLOUNDER	ATHERESTHES EVERMANNI
885704010200	ARROWTOOTH FLOUNDER	ATHERESTHES STOMIAS
880502050100	HARDHEAD SILVERSIDE	ATHERINOMORUS STIPES

880502010100	TOPSMELT	ATHERINOPS AFFINIS
880502060100	JACKSMELT	ATHERINOPSIS CALIFORNIENSIS
883544010100	WHITE SEABASS	ATRACTOSCION NOBILIS
876201010200	YELLOWFIN AULOPUS	AULOPUS NANAE
881802010100	TUBE-SNOUT	AULORHYNCHUS FLAVIDUS
881901010100	TRUMPETFISH	AULOSTOMUS MACULATUS
885003070100	BULLET MACKEREL	AUXIS ROCHEI
885003070200	FRIGATE MACKEREL	AUXIS THAZARD
884701210100	RIVER GOBY	AWAOUS TAJASICA
877718010100	GAFFTOPSAIL CATFISH	BAGRE MARINUS
883544030400	BLUE CROAKER	BAIRDIELLA BATABANA
883544030100	SILVER PERCH	BAIRDIELLA CHRYSOURA
883544030500	STRIPED CROAKER	BAIRDIELLA SANCTAELUCIAE
886002020100	GRAY TRIGGERFISH	BALISTES CAPRISCUS
886002020300	FINESCALE TRIGGERFISH	BALISTES POLYLEPIS
886002020200	QUEEN TRIGGERFISH	BALISTES VETULA
884701080100	BEARDED GOBY	BARBULIFER CEUTHOECUS
874113020200	SOOTY EEL	BASCANICHTHYS BASCANIUM
874113020100	WHIP EEL	BASCANICHTHYS SCUTICARIS
883108040100	GRAY STARSNOUT	BATHYAGONUS ALASCANA
883108040200	SPINYCHECK STARSNOUT	BATHYAGONUS INFRASPINATUS
883108050100	BLACKFIN POACHER	BATHYAGONUS NIGRIPINNIS
883108040300	BIGEYE POACHER	BATHYAGONUS PENTACANTHUS
884701090100	NOTCHTONGUE GOBY	BATHYGOBIUS CURACAO
884701090200	ISLAND FRILLFIN	BATHYGOBIUS MYSTACIUM
884701090300	FRILLFIN GOBY	BATHYGOBIUS SOPORATOR
884003010100	ALASKAN RONQUIL	BATHYMASTER CAERULEOFASCIATUS
884003010200	SMALLMOUTH RONQUIL	BATHYMASTER LEUROLEPIS
884003010300	SEARCHER	BATHYMASTER SIGNATUS
871304010200	ALEUTIAN SKATE	BATHYRAJA ALEUTICA
871304010500	SANDPAPER SKATE	BATHYRAJA INTERRUPTA
871304010700	ALASKA SKATE	BATHYRAJA PARMIFERA
871304010900	FLATHEAD SKATE	BATHYRAJA ROSISPINIS
871304011200	ROUGHTAIL SKATE	BATHYRAJA TRACHURA
882602020100	SHORTFIN SEAROBIN	BELLATOR BRACHYCHIR
882602020200	STREAMER SEAROBIN	BELLATOR EGRETTA
882602020300	HORNED SEAROBIN	BELLATOR MILITARIS
882602020500	SPLITNOSE SEAROBIN	BELLATOR XENISMA
884007010100	DUCKBILL FLATHEAD	BEMBROPS ANATIROSTRIS
884007010200	GOBY FLATHEAD	BEMBROPS GOBIOIDES
878212810100	NORTHERN PEARLEYE	BENTHALBELLA DENTATA
883102060100	CRESTED SCULPIN	BLEPSIAS BILOBUS
883102060200	SILVER SPOTTED SCULPIN	BLEPSIAS CIRRHOSUS
883901030100	SPOTFIN HOGFISH	BODIANUS PULCHELLUS
883901030200	SPANISH HOGFISH	BODIANUS RUFUS
884701160100	RAGGED GOBY	BOLLMANNIA COMMUNIS
879103020100	ARCTIC COD	BOREOGADUS SAIDA
883108060100	ROCKHEAD	BOTHRAGONUS SWANI
879301020300	ALASKA EELPOUT	BOTHROCARA PUSILLUM
885703060100	PEACOCK FLOUNDER	BOTHUS LUNATUS
885703060300	EYED FLOUNDER	BOTHUS OCELLATUS
883560010100	KELP PERCH	BRACHYISTIUS FRENATUS
883571010200	ATLANTIC POMFRET	BRAMA BRAMA
883571010400	CARIBBEAN POMFRET	BRAMA CARIBBEA
883571010300	LOWFIN POMFRET	BRAMA DUSSUMIERI
883571010100	PACIFIC POMFRET	BRAMA JAPONICA
879102010100	ANTENNA CODLET	BREGMACEROS ATLANTICUS
874701040200	FINESCALE MENHADEN	BREVOORTIA GUNTERI
874701040300	GULF MENHADEN	BREVOORTIA PATRONUS
874701040400	YELLOWFIN MENHADEN	BREVOORTIA SMITHI
874701040100	ATLANTIC MENHADEN	BREVOORTIA TYRANNUS
879103110100	CUSK	BROSME BROSME
879201010100	RED BROTULA	BROSMOPHYCIS MARGINATA
879201040100	BEARDED BROTULA	BROTULA BARBATA

884212060100	NUTCRACKER PRICKLEBACK	BRYOZOICHTHYS LYSIMUS
882002010500	PUGNOSE PIPEFISH	BRYX DUNCKERI
883543050100	GRASS PORGY	CALAMUS ARCTIFRONS
883543050200	JOLTHEAD PORGY	CALAMUS BAJONADO
883543050900	PACIFIC PORGY	CALAMUS BRACHYSOMUS
883543050300	SAUCEREYE PORGY	CALAMUS CALAMUS
883543050500	WHITEBONE PORGY	·. CALAMUS LEUCOSTEUS
883543050600	KNOBBED PORGY	CALAMUS NODOSUS
883543050700	SHEEPSHEAD PORGY	CALAMUS PENNA
883543050800	LITTLEHEAD PORGY	CALAMUS PRORIDENS
874113B30200	SHORTTAIL SNAKE EEL	CALLECHELYS GUINIENSIS
874113030100	BLOTCHED SNAKE EEL	CALLECHELYS MURAENA
874113040100	RIDGEFIN EEL	CALLECHELYS SPRINGERI
886002040100	WHITESPOTTED FILEFISH	CANTHERHINES MACROCERUS
886002040200	ORANGESPOTTED FILEFISH	CANTHERHINES PULLUS
886101535700	SHARPNOSE PUFFER	CANTHGASTER ROSTRATA
886002050100	ROUGH TRIGGERFISH	CANTHIDERMIS MACULATA
886002050200	OCEAN TRIGGERFISH	CANTHIDERMIS SUFFLAMEN
874113170100	SLANTLIP EEL	CARALOPHIA LOXOCHILA
883528030100	YELLOW JACK	CARANX BARTHOLOMAEI
88352803B500	GREEN JACK	CARANX CABALLUS
.883528030600	BLUE RUNNER	CARANX CRYSOS
883528030300	CREVALLE JACK	CARANX HIPPOS
883528030400	HORSE-EYE JACK	CARANX LATUS
883528030700	BLACK JACK	CARANX LUGUBRIS
883528030800	BAR JACK	CARANX RUBER
879202010100	PEARLFISH	CARAPUS BERMUDENSIS
870802050400	BLACKNOSE SHARK	CARCHARHINUS ACRONOTUS
870802050500	BIGNOSE SHARK	CARCHARHINUS ALTIMUS
870802051300	NARROWTOOTH SHARK	CARCHARHINUS BRACHYURUS
870802050900	SPINNER SHARK	CARCHARHINUS BREVIPINNA
870802050600	SILKY SHARK	CARCHARHINUS FALCIFORMIS
870802100100	FINETOOTH SHARK	CARCHARHINUS ISODON
870802050200	BULL SHARK	CARCHARHINUS LEUCAS
870802050700	BLACKTIP SHARK	CARCHARHINUS LIMBATUS
870802050800	OCEAN WHITETIP SHARK	CARCHARHINUS LONGIMANUS
870802050100	DUSKY SHARK	CARCHARHINUS OBSCURUS
870802051400	REEF SHARK	CARCHARHINUS PEREZI
870802050300	SANDBAR SHARK	CARCHARHINUS PLUMBEUS
870802051200	SMALLTAIL SHARK	CARCHARHINUS POROSUS
870802070100	NIGHT SHARK	CARCHARHINUS SIGNATUS
870704010100	WHITE SHARK	CARCHARODON CARCHARIAS
883109023200	LONGFIN SNAILFISH	CAREPROCTUS LONGIPINNIS
883109021500	BLACKTAIL SNAILFISH	CAREPROCTUS MELANURUS
877604010200	WHITE SUCKER	CATOSTOMUS COMMERSONI
883522010200	BLACKLINE TILEFISH	CAULOLATILUS CYANOPS
883522010100	OCEAN WHITEFISH	CAULOLATILUS PRINCEPS
884212220100	MONKEYFACE PRICKLEBACK	CEBIDICHTHYS VIOLACEUS
883501010200	SWORDSPINE SNOOK	CENTROPOMUS ENSIFERUS
883501010300	FAT SNOOK	CENTROPOMUS PARALLELUS
883501010400	TARPON SNOOK	CENTROPOMUS PECTINATUS
883501010500	COMMON SNOOK	CENTROPOMUS UNDECIMALIS
883502030400	BANK SEA BASS	CENTROPRISTIS OCYURUS
883502030500	ROCK SEA BASS	CENTROPRISTIS PHILADELPHICA
883502030100	BLACK SEA BASS	CENTROPRISTIS STRIATA
883555020100	CHERUBFISH	CENTROPYGE ARGI
871001090100	BLACK DOGFISH	CENTROSCYLLIUM FABRICII
876214010100	DOGTOOTH LAMPFISH	CERATOSCOPELUS TOWNSENDI
884706010100	PUGJAW WORMFISH	CERDALE FLORIDANA
874702040200	ANCHOVETA	CETENGRAULIS MYSTICETUS
870704020100	BASKING SHARK	CETORHINUS MAXIMUS
884209100100	ORANGETHROAT PIKEBLENNY	CHAENOPSIS ALEPIDOTA
884209515000	BLUETHROAT PIKEBLENNY	CHAENOPSIS OCELLATA
883552010100	ATLANTIC SPADEFISH	CHAETODIPTERUS FABER

883552010200	PACIFIC SPADEFISH	CHAETODIPTERUS ZONATUS
883555050100	LONGSNOUT BUTTERFLYFISH	CHAETODON ACULEATUS
883555010200	BANK BUTTERFLYFISH	CHAETODON AYA
883555010300	FOUREYE BUTTERFLYFISH	CHAETODON CAPISTRATUS
883555010100	SPOTFIN BUTTERFLYFISH	CHAETODON OCELLATUS
883555010700	REEF BUTTERFLYFISH	CHAETODON SEDENTARIUS
883555010800	BANDED BUTTERFLYFISH	CHAETODON STRIATUS
885703070100	PELICAN FLOUNDER	CHASCANOPSETTA LUGUBRIS
884201030100	STRIPED BLENNY	CHASMODES BOSQUIANUS
884201030200	FLORIDA BLENNY	CHASMODES SABURRAE
875906010100	PACIFIC VIPERFISH	CHAULIODUS MACOUNI
883544230100	BLACK CROAKER	CHEILOTREMA SATURNUM
879201070200	SPOTTED CUSK-EEL	CHILARA TAYLORI
886103010600	PACIFIC BURRFISH	CHILOMYCTERUS AFFINIS
886103010200	BRIDLED BURRFISH	CHILOMYCTERUS ANTENNATUS
886103010300	WEB BURRFISH	CHILOMYCTERUS ANTILLARUM
886103010400	SPOTTED BURRFISH	CHILOMYCTERUS ATINGA
886103010100	STRIPED BURRFISH	CHILOMYCTERUS SCHOEPFI
874104010100	SEAGRASS EEL	CHILORHINUS SUENSONI
884212050500	ATLANTIC WARBONNET	CHIROLOPHIS ASCANII
884212050300	DECORATED WARBONNET	CHIROLOPHIS DECORATUS
884212050200	MOSSHEAD WARBONNET	CHIROLOPHIS NUGATOR
884212050100	MATCHEEK WARBONNET	CHIROLOPHIS TARSODES
883102400100	ROUGHBACK SCULPIN	CHITONOTUS PUGETTENSIS
870501010100	FRILL SHARK	CHLAMYDOSELACHUS ARGUINEUS
874104050100	BICOLOR EEL	CHLOPSIS BICOLOR
876204010100	SHORTNOSE GREENEYE	CHLOROPHTHALMUS AGASSIZI
883528040100	ATLANTIC BUMPER	CHLOROSCOMBRUS CHRYSURUS
883528040200	PACIFIC BUMPER	CHLOROSCOMBRUS ORQUETA
880301040100	HARDHEAD HALFBEAK	CHRIODORUS ATHERINOIDES
883562030100	BLUE CHROMIS	CHROMIS CYANEA
883562030200	YELLOWTAIL REEFFISH	CHROMIS ENCHRYSURUS
883562030300	SUNSHINEFISH	CHROMIS INSOLATA
883562030500	BROWN CHROMIS	CHROMIS MULTILINEATA
883562030600	BLACKSMITH	CHROMIS PUNCTIPINNIS
883562030700	PURPLE REEFFISH	CHROMIS SCOTTI
885703010400	GULF STREAM FLOUNDER	CITHARICHTHYS ARCTIFRONS
885703010500	SAND WHIFF	CITHARICHTHYS ARENACEUS
885703010600	HORNED WHIFF	CITHARICHTHYS CORNUTUS
885703010900	SPOTTED WHIFF	CITHARICHTHYS MACROPS
885703010100	PACIFIC SANDDAB	CITHARICHTHYS SORDIDUS
885703011000	BAY WHIFF	CITHARICHTHYS SPILOPTERUS
885703010200	SPECKLED SANDDAB	CITHARICHTHYS STIGMAEUS
885703011100	LONGFIN SANDDAB	CITHARICHTHYS XANTHOSTIGMA
883901040100	CREOLE WRASSE	CLEPTICUS PARRAE
884701010100	ARROW GOBY	CLEVELANDIA IOS
883102070100	SHARPNOSE SCULPIN	CLINOCOTTUS ACUTICEPS
883102070400	WOOLY SCULPIN	CLINOCOTTUS ANALIS
883102070200	CALICO SCULPIN	CLINOCOTTUS EMBRYUM
883102070300	MOSSHEAD SCULPIN	CLINOCOTTUS GLOPICEPS
883102070500	BALD SCULPIN	CLINOCOTTUS RECALVUS
874701020100	ATLANTIC HERRING	CLUPEA HARENGUS
874701020100	PACIFIC HERRING	CLUPEA PALLASI
880303010100	PACIFIC SAURY	COLOLABIS SAIRA
874112010100	CONGER EEL	CONGER OCEANICUS
874112010200	MANYTOOTH CONGER	CONGER TRIPORICEPS
883540040100	BARRED GRUNT	CONODON NOBILIS
883517030100	BULLEYE	COOKEOLUS JAPONICUS
884209020400	BLACKHEAD BLENNY	CORALLIOZETUS BAHAMENSIS
884209020600	GLASS BLENNY	CORALLIOZETUS DIAPHANUS
875501010600	LAKE WHITEFISH	COREGONUS CLUPEAFORMIS
881008060100	SPINYCHEEK SOLDIERFISH	CORNIGER SPINOSUS
883529010200	POMPANO DOLPHIN	CORYPHAENA EQUISETIS
883529010100	DOLPHIN	CORYPHAENA HIPPURUS

884701020200	BARFIN GOBY	CORYPHOPTERUS ALLOIDES
884701020300	COLON GOBY	CORYPHOPTERUS DICRUS
884701020400	PALLID GOBY	CORYPHOPTERUS EIDOLON
884701020500	BRIDLED GOBY	CORYPHOPTERUS GLAUCOFRAENUM
884701020600	GLASS GOBY	CORYPHOPTERUS HYALINUS
884701020700	PEPPERMINT GOBY	CORYPHOPTERUS LIPERNES
884701020100	BLACKEYE GOBY	CORYPHOPTERUS NICHOLSI
884701020800	MASKED GOBY	CORYPHOPTERUS PERSONATUS
884701020900	SPOTTED GOBY	CORYPHOPTERUS PUNCIPECTOPHORUS
884701021000	BARTAIL GOBY	CORYPHOPTERUS THRIX
882002040100	WHITENOSE PIPEFISH	COSMOCAMPUS ALBIROSTRIS
882002040300	CRESTED PIPEFISH	COSMOCAMPUS BRACHYCEPHALUS
882002010600	SHORTFIN PIPEFISH	COSMOCAMPUS ELUCENS
882002011200	DWARF PIPEFISH	COSMOCAMPUS HILDEBRANDI
882002040200	DEEPWATER PIPEFISH	COSMOCAMPUS PROFUNDUS
883102080100	COASTRANGE SCULPIN	COTTUS ALEUTICUS
883102080300	PRICKLY SCULPIN	COTTUS ASPER
884209110100	DEEPWATER BLENNY	CRYPOTREMA CORALLINUM
884212160100	DWARF WRYMOUTH	CRYPTACANTHODES ALEUTENSIS
884212150100	GIANT WRYMOUTH	CRYPTACANTHODES GIGANTEA
884212200100	WRYMOUTH	CRYPTACANTHODES MACULATUS
878808020100	TRIPLEWART SEADEVIL	CRYPTOPSARAS COUESI
883903020100	BLUELIP PARROTFISH	CRYPTOTOMUS ROSEUS
883109030100	BLOTCHED SNAILFISH	CRYSTALLICHTHYS CYCLOPILUS
885102020300	LONGFIN CIGARFISH	CUBICEPS PARADOXUS
885102020100	BIGEYE CIGARFISH	CUBICEPS PAUCIRADIATUS
885703080100	MEXICAN FLOUNDER	CYCLOPSETTA CHITTENDENI
885703080200	SPOTFIN FLOUNDER	CYCLOPSETTA FIMBRIATA
883109040500	ARCTIC LUMPSUCKER	CYCLOPTEROPSIS MACALPINI
883109150100	LUMPFISH	CYCLOPTERUS LUMPUS
883560020100	SHINER PERCH	CYMATOGASTER AGGREGATA
883544010600	SAND SEATROUT	CYNOSCION ARENARIUS
883544010200	SPOTTED SEATROUT	CYNOSCION NEBULOSUS
883544010300	SILVER SEATROUT	CYNOSCION NOTHUS
883544011400	SHORTFIN CORVINA	CYNOSCION PARVIPINNIS
883544010400	WEAKFISH	CYNOSCION REGALIS
880404010100	SHEEPSHEAD MINNOW	CYPRINODON VARIEGATUS
877601010100	COMMON CARP	CYPRINUS CARPIO
880301010700	CALIFORNIA FLYINGFISH	CYPSELURUS CALIFORNICUS
880301010200	CLEARWING FLYINGFISH	CYPSELURUS COMATUS
880301010300	MARGINED FLYINGFISH	CYPSELURUS CYANOPTERUS
880301010400	BANDWING FLYINGFISH	CYPSELURUS EXSILIENS
880301010500	SPOTFIN FLYINGFISH	CYPSELURUS FURCATUS
880301010100	ATLANTIC FLYINGFISH	CYPSELURUS MELANURUS
883201010100	FLYING GURNARD	DACTYLOPTERUS VOLITANS
884013020200	BIGEYE STARGAZER	DACTYLOSCOPUS CROSSOTUS
884013020100	SAND STARGAZER	DACTYLOSCOPUS TRIDIGITATUS
871001040100	KITEFIN SHARK	DALATIAS LICHA
871305010300	SOUTHERN STINGRAY	DASYATIS AMERICANA
871305010400	ROUGHTAIL STINGRAY	DASYATIS CENTROURA
871305010100	DIAMOND STINGRAY	DASYATIS DIPTERURA
871305010500	ATLANTIC STINGRAY	DASYATIS SABINA
871305010600	BLUNTNOSE STINGRAY	DASYATIS SAY
871305010200	PELAGIC STINGRAY	DASYATIS VIOLACEA
883102090100	SPINYHEAD SCULPIN	DASYCOTTUS SETIGER
883528120100	MACKEREL SCAD	DECAPTERUS MACARELLUS
883528120200	ROUND SCAD	DECAPTERUS PUNCTATUS
883528120400	MEXICAN SCAD	DECAPTERUS SCOMBRINUS
883528120300	REDTAIL SCAD	DECAPTERUS TABL
883901050100	RED HOGFISH	DECODON PUELLARIS
881502020100	POLKA-DOT RIBBONFISH	DESMODEMA POLYSTICTUM
876214020100	CALIFORNIA HEADLIGHTFISH	DIAPHUS THETA
883539020100	IRISH POMPANO	DIAPTERUS AURATUS
883539020300	STRIPED MOJARRA	DIAPTERUS PLUMIERI

886103020200	BALLONFISH	DIODON HOLOCANTHUS
886103020100	PORCUPINEFISH	DIODON HYSTRIX
876214080200	DIOGENES LAMPFISH	DIOGENYS LATERNATUS
883502100200	SAND PERCH	DIPLECTRUM FORMOSUM
883502100500	DWARF SAND PERCH	DIPLECTRUM BIVITTATUM
883543040200	SILVER PORGY	DIPLODUS ARGENTEUS
883543040100	SPOTTAIL PINFISH	DIPLODUS HOLBROOKI
884610010300	SPOTTED DRAGONET	DIPLOGRAMMUS PAUCIRADIATUS
883901060100	DWARF WRASSE	DORATONOTUS MEGALEPIS
884701330100	PACIFIC FAT SLEEPER	DORMITATOR LATIFRONS
884701330200	FAT SLEEPER	DORMITATOR MACULATUS
874701050100	GIZZARD SHAD	DOROSOMA CEPEDIANUM
874701050200	THREADFIN SHAD	DOROSOMA PETENENSE
874117010100	SHORTBELLY EEL	DYSOMMA ANGUILLARE
874105030100	VIPER MORAY	ECHELYCORE NIGRICANS
883527020100	SHARKSUCKER	ECHENEIS NAUCRATES
883527020200	WHITEFIN SHARKSUCKER	ECHENEIS NEUCRATOIDES
874105020100	CHAIN MORAY	ECHIDNA CATENATA
871001100100	PRICKLY SHARK	ECHINORHINUS COOKEI
874113090100	SPOTTED SPOON-NOSE EELH	ECHIOPHIS INTERTINCTUS
874113090200	SNAPPER EEL	ECHIOPHIS PUNCTIFER
883528130100	RAINBOW RUNNER	ELEGATIS BIPINNULATUS
879103030100	SAFFRON COD	ELEGINUS GRACILIS
873801010200	MACHETE	ELOPS AFFINIS
873801010100	LADYFISH	ELOPS SAURUS
885704030100	DEEPSEA SOLE	EMBASSICHTHYS BATHYBIUS
883560030200	BLACK PERCH	EMBIOTOCA JACKSONI
883560030100	STRIPED SEAPERCH	EMBIOTOCA LATERALIS
884209020100	BANNER BLENNY	EMBLEMARIA ATLANTICA
884209020200	SAILFIN BLENNY	EMBLEMARIA PANDIONIS
884209020300	PIRATE BLENNY	EMBLEMARIA PIRATULA
883535010100	BONNETMOUTH	EMMELICHTHYOPS ALANTICUS
879103150100	FOURBEARD ROCKLING	ENCHELYOPUS CIMBRIUS
884208010100	LOFTY TRIPLEFIN	ENEANECTES ALTIVELIS
874702010200	CAMIGUANA ANCHOVY	ENGRAULIS ESTAUQUAE
874702010300	SILVER ANCHOVY	ENGRAULIS EURYSTOLE
874702010100	NORTHERN ANCHOVY	ENGRAULIS MORDAX
885703090100	SPINY FLOUNDER	ENGYOPHRYS SENTA
884208010300	REDEYE TRIPLEFIN	ENNEANECTES PECTORALIS
883102100100	BUFFALO SCULPIN	ENOPHRYS BISON
883102100200	ANTLERED SCULPIN	ENOPHRYS DICERAUS
883102100300	LEISTER SCULPIN	ENOPHRYS LUCASI
883102100400	BULL SCULPIN	ENOPHRYS TAURINA
885704110100	SLENDER SOLE	EOPSETTA EXILIS
885704040100	PETRALE SOLE	EOPSETTA JORDANI
883502040200	ROCK HIND	EPINEPHELUS ADSCENSIONIS
883502040300	SPOTTED CABRILLA	EPINEPHELUS ANALOGUS
883502060100	MUTTON HAMLET	EPINEPHELUS AFER
883502180100	GRAYSBY	EPINEPHELUS CRUENTATUS
883502040400	SPECKLED HIND	EPINEPHELUS DRUMMONDHAYI
883502040500	YELLOWEDGE GROUPER	EPINEPHELUS FLAVOLIMBATUS
883502080200	CONEY	EPINEPHALUS FULVA
883502040600	RED HIND	EPINEPHELUS GUTTATUS
883502090100	MARBLED GROUPER	EPINEPHALUS INERMIS
883502040100	JEWFISH	EPINEPHELUS ITAJARA
883502040800	RED GROUPER	EPINEPHELUS MORIO
883502040900	MISTY GROUPER	EPINEPHELUS MYSTACINUS
883502041000	WARSAW GROUPER	EPINEPHELUS NIGRITUS
883502041100	SNOWY GROUPER	EPINEPHELUS NIVEATUS
883502041200	NASSAU GROUPER	EPINEPHELUS STRIATUS
860601010100	BLACK HAGFISH	EPTATRETUS DEANI
860601010200	PACIFIC HAGFISH	EPTATRETUS STOUTI
883544120100	HIGH-HAT	EQUETUS ACUMINATUS
883544120200	JACKKNIFE-FISH	EQUETUS LANCEOLATUS

883544120500	SPOTTED DRUM	EQUETUS PUNCTATUS
883544120600	CUBBYU	EQUETUS UMBROSUS
882702020100	SKILFISH	ERILEPIS ZONIFER
884701180100	EMERALD SLEEPER	EROTELIS SMARAGDUS
885704050100	REX SOLE	ERREX ZACHIRUS
875801010100	NORTHERN PIKE	ESOX LUCIUS
875801010400	MUSKELLUNGE	ESOX MASQUINONGY
875801010300	CHAIN PICKEREL	ESOX NIGER
883536030100	QUEEN SNAPPER	ETELIS OCULATUS
885703020100	FRINGED FLOUNDER	ETROPUS CROSSOTUS
885703020200	SMALLMOUTH FLOUNDER	ETROPUS MICROSTOMUS
885703020400	GRAY FLOUNDER	ETROPUS RIMOSUS
874701060100	ROUND HERRING	ETRUMEUS TERES
883539010100	SPOTFIN MOJARRA	EUCINOSTOMUS ARGENTEUS
883539010700	PACIFIC FLAGFIN MOJARRA	EUCINOSTOMUS GRACILIS
883539010200	SILVER JENNY	EUCINOSTOMUS GULA
883539010800	BIGEYE MOJARRA	EUCINOSTOMUS HAVANA
883539010600	SLENDER MOJARRA	EUCINOSTOMUS JONESI
883539010400	MOTTLED MOJARRA	EUCINOSTOMUS LEFROYI
883539010500	FLAGFIN MOJARRA	EUCINOSTOMUS MELANOPTERUS
884701320100	TIDEWATER GOBY	EUCYCLOGOBIUS NEWBERRYI
880301060100	FLYING HALFBEAK	EULEPTORHAMPHUS VELOX
880301060200	RIBBON HALFBEAK	EULEPTORHAMPHUS VIRIDIS
881501020100	UNICORNFISH	EUMECICHTHYS FISKI
884212170100	FOURLINE SNAKEBLENNY	EUMESOGRAMMUS PRAECISUS
883109050100	PIMPLED LUMPSUCKER	EUMICROTREMUS ANDRIASHEVI
883109050400	LEATHERFIN LUMPSUCKER	EUMICROTREMUS DERJUGINI
883109050600	PACIFIC SPINY LUMPSUCKER	EUMICROTREMUS ORBIS
883109050800	ATLANTIC SPINY LUMPSUCKER	EUMICROTREMUS SPINOSUS
885003010300	KAWAKAWA	EUTHYNNUS AFFINIS
885003010200	LITTLE TUNNY	EUTHYNNUS ALLETTERATUS
885003010400	BLACK SKIPJACK	EUTHYNNUS LINEATUS
884701100200	SPONGE GOBY	EVERMANNICHTHYS SPONGICOLA
884701040100	LYRE GOBY	EVORTHODUS LYRICUS
880301070100	OCEAN TWO-WING FLYINGFISH	EXOCOETUS OBTUSIROSTRIS
880301070200	TROPICAL TWO-WING FLYINGFISH	EXOCOETUS VOLITANS
881902010300	RED CORNETFISH	FISTULARIA PETIMBA
881902010100	BLUESPOTTED CORNETFISH	FISTULARIA TABACARIA
880404050100	GOLDSPOTTED KILLIFISH	FLORIDICHTHYS CARPIO
884601010100	SPOTFIN DRAGONET	FOETOREPUS AGASSIZI
880404020100	MARSH KILLIFISH	FUNDULUS CONFLUENTUS
880404020700	GULF KILLIFISH	FUNDULUS GRANDIS
880404020300	MUMMICHOG	FUNDULUS HETEROCLITUS
880404020900	SALTMARSH TOPMINNOW	FUNDULUS JENKINSI
880404020400	SPOTFIN KILLIFISH	FUNDULUS LUCIAE
880404020500	STRIPED KILLIFISH	FUNDULUS MAJALIS
880404021200	BAYOU KILLIFISH	FUNDULUS PULVEREUS
879103040100	PACIFIC COD	GADUS MACROCEPHALUS
879103040200	ATLANTIC COD	GADUS MORHUA
879103040300	GREENLAND COD	GADUS OGAC
870802020100	TIGER SHARK	GALEOCERDO CUVIER
870802010100	SOUPFIN SHARK	GALEORHINUS ZYOPTERUS
880408010100	WESTERN MOSQUITOFISH	GAMBUSIA AFFINIS
880408010200	MANGROVE GAMBUSIA	GAMBUSIA RHIZOPHORAE
881801010100	THREESPINE STICKLEBACK	GASTEROSTEUS ACULEATUS
881801010200	BLACKSPOTTED STICKLEBACK	GASTEROSTEUS WHEATLANDI
885703100100H	SHRIMP FLOUNDER	GASTROPSETTA FRONTALIS
885001020100	SNAKE MACKEREL	GEMPYLUS SERPENS
883544020100	WHITE CROAKER	GENYONEMUS LINEATUS
883539030100	YELLOWFIN MOJARRA	GERRES CINEREUS
884209010300	SPOTTED KELPFISH	GIBBONSIA ELEGANS
884209010100	STRIPED KELPFISH	GIBBONSIA METZI
884209010200	CREVICE KELPFISH	GIBBONSIA MONTEREYENSIS
884013010100	ARROW STARGAZER	GILLELLUS GREYAE

884013010300	WARTEYE STARGAZER	GILLELLUS URANIDEA
870702010100	NURSE SHARK	GINGLYMOSTOMA CIRRATUM
883551020100	OPALEYE	GIRELLA NIGRICANS
875601030200	PYGMY ARGENTINE	GLOSSANODON PYGMAEUS
884014020100	FRECKLED STARGAZER	GNATHAGNUS EGREGIUS
884701110100	GOLDSPOT GOBY	GNATHOLEPIS THOMPSONI
874112040100	CATALINA CONGER	GNATHOPHIS CATALINENSIS
878401010300	LINED CLINGFISH	GOBIESOX EUGRAMMUS
878401010100	NORTHERN CLINGFISH	GOBIESOX MAEANDRICUS
878401010400	BEARDED CLINGFISH	GOBIESOX PAPILLIFER
878401010500	STIPPLED CLINGFISH	GOBIESOX PUNCTULATUS
878401010600	CALIFORNIA CLINGFISH	GOBIESOX RHESSODON
878401010200	SKILLETFISH	GOBIESOX STRUMOSUS
884701120100	VIOLET GOBY	GOBIOIDES BROUSSONNETI
884701340100	BIGMOUTH SLEEPER	GOBIOMORUS DORMITOR
884701051200	DARTER GOBY	GOBIONELLUS BOLEOSOMA
884701050300	HIGHFIN GOBY	GOBIONELLUS OCEANICUS
884701050100	DASH GOBY	GOBIONELLUS SAEPEPALLENS
884701050900	LONGTAIL GOBY	GOBIONELLUS SAGITULLA
884701050400	FRESHWATER GOBY	GOBIONELLUS SHUFELDTI
884701051100	EMERALD GOBY	GOBIONELLUS SMARAGDUS
884701050500	SPOTFIN GOBY	GOBIONELLUS STIGMALOPHIUS
884701050600	SPOTTAIL GOBY	GOBIONELLUS STIGMATURUS
884701060100	NAKED GOBY	GOBIOSOMA BOSC
884701060200	SEABOARD GOBY	GOBIOSOMA GINSBURGI
884701060500	YELLOWLINE GOBY	GOBIOSOMA HORSTI
884701060600	TWOSCALE GOBY	GOBIOSOMA LONGIPALA
884701060700	TIGER GOBY	GOBIOSOMA MACRODON
884701060800	NEON GOBY	GOBIOSOMA OCEANOPS
884701060300	CODE GOBY	GOBIOSOMA ROBUSTUM
884701060900	YELLOWPROW GOBY	GOBIOSOMA XANTHIPRORA
884701220100	PALEBACK GOBY	GOBULUS MYERSI
883502110100	SPANISH FLAG	GONIOPLECTRUS HISPANUS
874113050100	HORSEHAIR EEL	GORDIICHTHYS IRRETITUS
874113050200	THREAD EEL	GORDIICHTHYS SPRINGERI
879201230100	GOLD BROTULA	GUNTERICHTHYS LONGIPENIS
885801030100	NAKED SOLE	GYMNACHIRUS MELAS
885801030200	FRINGED SOLE	GYMNACHIRUS TEXAE
879301040300	FISH DOCTOR	GYMNELUS VIRIDUS
883102130200	ARMORHEAD SCULPIN	GYMNOCANTHUS GALEATUS
883102130400	ARCTIC STAGHORN SCULPIN	GYMNOCANTHUS TRICUSPIS
884212070100	TRIDENT PRICKLEBACK	GYMNOCLINUS CRISTULATUS
874105040100	GREEN MORAY	GYMNOTHORAX FUNEBRIS
874105040900	CALIFORNIA MORAY	GYMNOTHORAX MORDAX
874105040300	SPOTTED MORAY	GYMNOTHORAX MORINGA
874105040400	BLACKEDGE MORAY	GYMNOTHORAX NIGROMARGINATUS
874105040800	PURPLEMOUTH MORAY	GYMNOTHORAX VICINUS
871305020100	SPINY BUTTERFLY RAY	GYMNURA ALTAVELA
871305020300	CALIFORNIA BUTTERFLY RAY	GYMNURA MARMORATA
871305020200	SMOOTH BUTTERFLY RAY	GYMNURA MICRURA
885704050200	WITCH FLOUNDER	GYPTOCEPHALUS CYNOGLOSSUS
883540010300	MARGATE	HAEMULON ALBUM
883540010100	TOMTATE	HAEMULON AUROLINEATUM
883540010600	CAESAR GRUNT	HAEMULON CARBONARIUM
883540010700	SMALLMOUTH GRUNT	HAEMULON CHRYSARGYREUM
883540010800	FRENCH GRUNT	HAEMULON FLAVOLINEATUM
883540011000	SPANISH GRUNT	HAEMULON MACROSTOMUM
883540011100	COTTONWICK	HAEMULON MELANURUM
883540011700	SAILORS CHOICE	HAEMULON PARRA
883540010200	WHITE GRUNT	HAEMULON PLUMIERI
883540011300	BLUESTRIPED GRUNT	HAEMULON SCIURUS
883540011600	STRIPED GRUNT	HAEMULON STRIATUM
883901070100	GREENBAND WRASSE	HALICHOERES BATHYPHILUS
883901070200	SLIPPERY DICK	HALICHOERES BIVITTATUS

883901070300	PAINTED WRASSE	HALICHOERES CAUDALIS
883901070400	YELLOWCHEEK WRASSE	HALICHOERES CYANOCEPHALUS
883901070500	YELLOWHEAD WRASSE	HALICHOERES GARNOTI
883901070600	CLOWN WRASSE	HALICHOERES MACULIPINNA
883901070700	RAINBOW WRASSE	HALICHOERES PICTUS
883901070800	BLACKEAR WRASSE	HALICHOERES POEYI
883901070900	PUDDINGWIFE	HALICHOERES RADIATUS
883901071000	ROCK WRASSE	HALICHOERES SEMICINCTUS
878704030100	PANCAKE BATFISH	HALIEUTICHTHYS ACULEATUS
874701080100	FALSE PILCHARD	HARENGULA CLUPEOLA
874701080200	REDEAR SARDINE	HARENGULA HUMERALIS
874701080400	SCALED SARDINE	HARENGULA JAGUANA
874701080500	FLATIRON HERRING	HARENGULA THRISSINA
882601030100	BLACKBELLY ROSEFISH	HELICOLENUS DACTYLOPTERUS
883502200100	STREAMER BASS	HEMANTHIAS AUROEORUBENS
883502120100	LONGTAIL BASS	HEMANTHIAS LEPTUS
883502120300	SPLITTAIL BASS	HEMANTHIAS SIGNIFER
883502120200	RED BARBIER	HEMANTHIAS VIVANUS
883528140100	BLUNTNOSE JACK	HEMICRANX AMBLYRHYNCHUS
884209120100	WRASSE BLENNY	HEMIEMBLEMARIA SIMULUS
883102140200	RED IRISH LORD	HEMILEPIDOTUS HEMILEPIDOTUS
883102140300	YELLOW IRISH LORD	HEMILEPIDOTUS JORDANI
883102440100	BUTTERFLY SCULPIN	HEMILEPIDOTUS PAPILIO
883102140500	BROWN IRISH LORD	HEMILEPIDOTUS SPINOSUS
883901080100	ROSY RAZORFISH	HEMIPTERONOTUS MARTINICENSIS
883901080200	PEARLY RAZORFISH	HEMIPTERONOTUS NOVACULA
883901080400	GREEN RAZORFISH	HEMIPTERONOTUS SPLENDENS
880301020200	BALAO	HEMIRAMPHUS BALAO
880301020100	BALLYHOO	HEMIRAMPHUS BRASILIENSIS
880301020400	LONGFIN HALFBEAK	HEMIRAMPHUS SALTATOR
883102150300	SEA RAVEN	HEMITRIPTERUS AMERICANUS
883102150200	BIGMOUTH SCULPIN	HEMITRIPTERUS BOLINI
883551030100	ZEBRA PERCH	HERMOSILLA AZUREA
874112110100	BROWN GARDEN EEL	HETEROCONGER HALIS
870401010100	HORN SHARK	HETERODONTUS FRANCISCI
884209505000	GIANT KELPFISH	HETEROSTICHUS ROSTRATUS
882701010100	KELP GREENLING	HEXAGRAMMOS DECAGRAMMUS
882701010200	ROCK GREENLING	HEXAGRAMMOS LAGOCEPHALUS
882701010300	MASKED GREENLING	HEXAGRAMMOS OCTOGRAMMUS
882701010000	GREENLING	HEXAGRAMMOS SPPH
882701010400	WHITESPOTTED GREENLING	HEXAGRAMMOS STELLERI
870502010100	SIX GILL SHARK	HEXANCHUS GRISEUS
874112030200	YELLOW CONGER	HILDEBRANDIA FLAVA
874112030300	WHIPTAIL CONGER	HILDEBRANDIA GRACILIOR
878803020100	ATLANTIC FOOTBALLFISH	HIMANTOLOPHUS GROENLANDICUS
882002020100	LINED SEAHORSE	HIPPOCAMPUS ERECTUS
882002020600	PACIFIC SEAHORSE	HIPPOCAMPUS INGENS
882002020200	OFFSHORE SEAHORSE	HIPPOCAMPUS OBTUSUS
882002020400	LONGSNOUT SEAHORSE	HIPPOCAMPUS REIDI
882002020500	DWARF SEAHORSE	HIPPOCAMPUS ZOSTERAE
885703110200	BIGMOUTH SOLE	HIPPOGLOSSINA STOMATA
885704060100	FLATHEAD SOLE	HIPPOGLOSSOIDES ELASSODON
885704060300	AMERICAN DAB	HIPPOGLOSSOIDES PLATESSOIDES
885704060200	BERING FLOUNDER	HIPPOGLOSSOIDES ROBUSTUS
885704190200	ATLANTIC HALIBUT	HIPPOGLOSSUS HIPPOGLOSSUS
885704190100	PACIFIC HALIBUT	HIPPOGLOSSUS STENOLEPIS
880301090100	FOURWING FLYINGFISH	HIRUNDICHTHYS AFFINIS
880301090300	BLACKWING FLYINGFISH	HIRUNDICHTHYS RONDELETI
878702010100	SARGASSUMFISH	HISTRIO HISTRIO
883555030100	QUEEN ANGELFISH	HOLACANTHUS CILIARIS
883555030300	ROCK BEAUTY	HOLACANTHUS TRICOLOR
883502150100	ROUGHTONGUE BASS	HOLANTHIAS MARTINICENSIS
886001010200	SPOTTED SPIKEFISH	HOLLARDIA MEADI
881008010100	SQUIRRELFISH	HOLOCENTRUS ADSCENSIONIS

883555030400	BLUE ANGELFISH	HOLOCANTHUS BERMUDENSIS
881008010200	DEEPWATER SQUIRRELFISH	HOLOCENTRUS BULLISI
881008010400	REEF SQUIRRELFISH	HOLOCENTRUS CORUSCUS
881008010500	LONGJAW SQUIRRELFISH	HOLOCENTRUS MARIANUS
881008010300	LONGSPINE SQUIRRELFISH	HOLOCENTRUS RUFUS
881008010600	DUSKY SQUIRRELFISH	HOLOCENTRUS VEXILLARIUS
874108010200	FRECKLED PIKE-CONGER	HOPLUNNIS MACRURUS
871602010100	SPOTTED RATFISH	HYDROLAGUS COLLIEI
885101020200	BLACK DRIFTFISH	HYPEROGLYPHE BYTHITES
885101020100	BARRELFISH	HYPEROGLYPHE PERCIFORMIS
883560040300	SPOTFIN SURFPERCH	HYPERPROSOPON ANALE
883560040100	WALLEYE SURFPERCH	HYPERPROSOPON ARGENTEUM
883560040200	SILVER SURFPERCH	HYPERPROSOPON ELLIPTICUM
884201050200	OYSTER BLENNY	HYPLEUROCHILUS AEQUIPINNIS
884201050300	BARRED BLENNY	HYPLEUROCHILUS BERMUDENSIS
884201050100	CRESTED BLENNY	HYPLEUROCHILUS GEMINATUS
884201050400	ORANGESPOTTED BLENNY	HYPLEUROCHILUS SPRINGERI
880502040200	REEF SILVERSIDE	HYPOATHERINA HARRINGTONENSIS
875503010100	SURF SMELT	HYPOMESUS PRETIOSUS
875503010300	DELTA SMELT	HYPOMESUS TRANSPACIFICUS
883502130100	BUTTER HAMLET	HYPOPLECTRUS UNICOLOR
885704220100	DIAMOND TURBOT	HYPOPSETTA GUTTULATA
880301030400	CALIFORNIA HALFBEAK	HYPORHAMPHUS ROSAE
880301030100	SILVERSTRIPE HALFBEAK	HYPORHAMPHUS UNIFASCIATUS
877730010100	SUCKERMOUTH CATFISH	HYPOSTOMUS PLECOSTOMUS
883108070100	FOURHORN POACHER	HYPSAGONUS QUADRICORNIS
884201020400	ROCKPOOL BLENNY	HYPSOBLENNIUS GILBERTI
884201020300	BAY BLENNY	HYPSOBLENNIUS GENTILIS
884201020100	FEATHER BLENNY	HYPSOBLENNIUS HENTZ
884201020200	FRECKLED BLENNY	HYPSOBLENNIUS IONTHAS
884201020500	MUSSEL BLENNY	HYPSOBLENNIUS JENKINSI
883560080100	RAINBOW SEAPERCH	HYPSURUS CARYI
883562070100	GARIBALDI	HYPSYPOPS RUBICUNDA
883102160100	NORTHERN SCULPIN	ICELINUS BOREALIS
883102160200	DUSKY SCULPIN	ICELINUS BURCHAMI
883102160600	PIT-HEAD SCULPIN	ICELINUS CAVIFRONS
883102160300	THREADFIN SCULPIN	ICELINUS FILAMENTOSUS
883102160700	FRINGED SCULPIN	ICELINUS FIMBRIATUS
883102160500H	FROGMOUTH SCULPIN	ICELINUS OCULATUS
883102160800	YELLOWCHIN SCULPIN	ICELINUS QUADRISERIATUS
883102160400	SPOTFIN SCULPIN	ICELINUS TENUIS
883101010100	TWOHORN SCULPIN	ICELUS BICORNIS
883101010500	SPATULATE SCULPIN	ICELUS SPATULA
874113110300	SURF EEL	ICHTHYAPUS OPHIONEUS
885101010100	MEDUSAFISH	ICICHTHYS LOCKINGTONI
884301010100	RAGFISH	ICOSTEUS AENAGMATICUS
877702010200	BLUE CATFISH	ICTALURUS FURCATUS
877702010500	CHANNEL CATFISH	ICTALURUS PUNCTATUS
884701230100	CHEEKSPOT GOBY	ILYPNUS GILBERTI
883535020100	BOGA	INERMIA VITTATA
884701140100	BLUE GOBY	IOGLOSSUS CALLIURUS
885006010100	SAILFISH	ISTIOPHORUS PLATYPTERUS
870704050100	SHORTFIN MAKO SHARK	ISURUS OXYRINCHUS
874701090100	DWARF HERRING	JENKINSIA LAMPROTAENIA
874701090200	LITTLE-EYE HERRING	JENKINSIA MAJUA
883102420100	LONGFIN SCULPIN	JORDANIA ZONOPE
884014030100	LANCER STARGAZER	KATHETOSTOMA ALBIGUTTA
884014030300	SMOOTH STARGAZER	KATHETOSTOMA AVERRUNCUS
885003010100	SKIPJACK TUNA	KATSUWONUS PELAMIS
874104020100	FALSE MORAY	KAUPICHTHYS HYOPOROIDES
883551010100	YELLOW CHUB	KYPHOSUS INCISOR
883551010200	BERMUDA CHUB	KYPHOSUS SECTATRIX
884209030100	PUFFCHEEK BLENNY	LABRISOMUS BUCCIFERUS
884209030300	PALEHEAD BLENNY	LABRISOMUS GOBIO

884209030400	MIMIC BLENNY	LABRISOMUS GUPPYI
884209030500	LONGFIN BLENNY	LABRISOMUS HAITIENSIS
884209030800	DOWNY BLENNY	LABRISOMUS KALISHERAE
884209030600	SPOTCHEEK BLENNY	LABRISOMUS NIGRICINCTUS
884209030700	HAIRY BLENNY	LABRISOMUS NUCHIPINNIS
886003010200	SPOTTED TRUNKFISH	LACTOPHRYS BICAUDALIS
886003020200	HONEYCOMB COWFISH	LACTOPHRYS POLYGONIA
886003020100	SCRAWLED COWFISH	LACTOPHRYS QUADRICORNIS
886003010100	TRUNKFISH	LACTOPHRYS TRIGONUS
886003010300	SMOOTH TRUNKFISH	LACTOPHRYS TRIQUETER
886101010100	SMOOTH PUFFER	LAGOCEPHALUS LAEVIGATUS
886101010000	OCEANIC PUFFER	LAGOCEPHALUS LAGOCEPHALUS
883543020100	PINFISH	LAGODON RHOMBOIDES
870704030100	SALMON SHARK	LAMNA DITROPIS
870704030200	PORBEAGLE	LAMNA NASUS
876214030200	PINPOINT LAMPFISH	LAMPANYCTUS REGALIS
860301020300	ARCTIC LAMPREY	LAMPETRA JAPONICA
860301010100	PACIFIC LAMPREY	LAMPETRA TRIDENTATA
881301010100	OPAH	LAMPRIS GUTTATUS
881301010100	OPAH	LAMPRIS REGIUS
883901090100	HOGFISH	LANCHNOLAIMUS MAXIMUS
883102430100	LAVENDER SCULPIN	LEIOCOTTUS HIRUNDO
883544040100	SPOT	LEIOSTOMUS XANTHURUS
885001030100	ESCOLAR	LEPIDOCYBIUM FLAVOBRUNNEUM
884701030100	BAY GOBY	LEPIDOGOBIUS LEPIDUS
885002040200	PACIFIC SCABBARDFISH	LEPIDOPUS FITCHI
873201010200	SPOTTED GAR	LEPISOSTEUS OCULATUS
873201010100	LONGNOSE GAR	LEPISOSTEUS OSSEUS
873201010300	SHORTNOSE GAR	LEPISOSTEUS PLATOSTOMUS
873201010500	FLORIDA GAR	LEPISOSTEUS PLATYRHINCUS
873201010400	ALLIGATOR GAR	LEPISOSTEUS SPATULA
883516050100	REDBREASTED SUNFISH	LEPOMIS AURITUS
883516050200	GREEN SUNFISH	LEPOMIS CYANELLUS
883516050500	PUMPKINSEED	LEPOMIS GIBBOSUS
883516050300	WARMOUTH	LEPOMIS GULOSUS
883516050400	BLUEGILL	LEPOMIS MACROCHIRUS
883516050900	REDEAR SUNFISH	LEPOMIS MICROLOPHUS
879201050400	BLACKEDGE CUSK-EEL	LEPOPHIDIUM BREVIBARBE
879201050500	MOTTLED CUSK-EEL	LEPOPHIDIUM JEANNAE
879201050300	FAWN CUSK-EEL	LEPOPHIDIUM PROFUNDORUM
883108080100	ATLANTIC POACHER	LEPTAGONUS DECAGONUS
883102180100	PACIFIC STAGHORN SCULPIN	LEPTOCOTTUS ARMATUS
874113060100	SAILFIN EEL	LETHARCHUS VELIFER
884701240100	HALFBLIND GOBY	LETHOPS CONNECTENS
880502070100	CALIFORNIA GRUNION	LEURESTHES TENUIS
875602010600	CALIFORNIA SMOOTHTONGUE	LEUROGLOSSUS STILBIUS
883502140200	WRASSE BASS	LIOPROPOMA EUKRINES
883502140300	CAVE BASS	LIOPROPOMA MOWBRAYI
883502140400	PEPPERMINT BASS	LIOPROPOMA RUBRE
883109082600	ATLANTIC SEASNAIL	LIPARIS ATLANTICUS
883109080300	SPOTTED SNAILFISH	LIPARIS CALLYODON
883109080600	RIBBON SNAILFISH	LIPARIS CYCLOPUS
883109080800	MARBLED SNAILFISH	LIPARIS DENNYI
883109081000	TIDEPOOL SNAILFISH	LIPARIS FLORAE
883109081500	GELATINOUS SEASNAIL	LIPARIS FRABICII
883109081100	SLIPSKIN SNAILFISH	LIPARIS FUCENSIS
883109080700	VARIEGATED SNAILFISH	LIPARIS GIBBUS
883109120200	LOBEFIN SNAILFISH	LIPARIS GREENI
883109082700	INQUILINE SEASNAIL	LIPARIS INQUILINIS
883109082000	SLIMY SNAILFISH	LIPARIS MUCOSUS
883109082200	SHOWY SNAILFISH	LIPARIS PULCHELLUS
883109082500	RINGTAIL SNAILFISH	LIPARIS RUTTERI
883109082900	KELP SNAILFISH	LIPARIS TUNICATUS
883538010100	TRIPLETAIL	LOBOTES SURINAMENSIS

884002010290	SWORDTAIL JAWFISH	LONCHOPISTHUS MICROGNATHUS
878601010100	GOOSEFISH	LOPHIUS AMERICANUS
884701250100	CRESTED GOBY	LOPHOGOBIUS CYPRINOIDES
883522020100	TILEFISH	LOPHOLATILUS CHAMAELEONTICEPS
879103080100	BURBOT	LOTA LOTA
880404030100	RAINWATER KILLIFISH	LUCANIA PARVA
884212080100	LONGSNOUT PRICKLEBACK	LUMPENELLA LONGIROSTRIS
884212090100	SLENDER EELBLENNY	LUMPENUS FABRICII
884212090500	SNAKEBLENNY	LUMPENUS LUMPRETAEFORMIS
884212090300	DAUBED SHANNY	LUMPENUS MACULATUS
884212090400	STOUT EELBLENNY	LUMPENUS MEDIUS
884212090200	SNAKE PRICKLEBACK	LUMPENUS SAGITTA
884201010300	HIGHFIN BLENNY	LUPINOBLENNIUS NICHOLSI
883536010300	MUTTON SNAPPER	LUTJANUS ANALIS
883536010400	SCHOOLMASTER	LUTJANUS APODUS
883536010600	BLACKFIN SNAPPER	LUTJANUS BUCCANELLA
883536010700	RED SNAPPER	LUTJANUS CAMPECHANUS
883536010290	GRAY SNAPPER	LUTJANUS GRISEUS
883536010100	CUBERA SNAPPER	LUTJANUS CYANOPTERUS
883536010900	DOG SNAPPER	LUTJANUS JOCU
883536011000	MAHOGANY SNAPPER	LUTJANUS MAHOGONI
883536011200	LANE SNAPPER	LUTJANUS SYNAGRIS
883536011390	SILK SNAPPER	LUTJANUS VIVANUS
885005010100	LOUVAR	LUVARUS IMPERIALIS
879301051200	WOLF EELPOUT	LYCENCHELYS VERRILLI
879301060400	PALLID EELPOUT	LYCODAPUS MANDIBULARIS
879301070300	SHORTFIN EELPOUT	LYCODES BREVIPES
879301010100	BIGFIN EELPOUT	LYCODES CORTEZIANUS
879301070600	BLACK EELPOUT	LYCODES DIAPTERUS
879301071900	SHULUPAOLUK	LYCODES JUGORICUS
879301072000	NEWFOUNDLAND EELPOUT	LYCODES LAVALEI
879301071000	WATTLED EELPOUT	LYCODES PALEARIS
879301072100	PALE EELPOUT	LYCODES PALLIDUS
879301071100	CANADIAN EELPOUT	LYCODES POLARIS
879301072200	ARCTIC EELPOUT	LYCODES RETICULATUS
879301071400	POLAR EELPOUT	LYCODES TURNERI
879301080100	BLACKBELLY EELPOUT	LYCODOPSIS PACIFICA
879301170100	BEARDED EELPOUT	LYCONEMA BARBATUM
884701265000	BLUEBANDED GOBY	LYTHRYPNUS DALLI
884701260200	ISLAND GOBY	LYTHRYPNUS NESIOTES
884701260300	CONVICT GOBY	LYTHRYPNUS PHORELLUS
884701260400	BLUEGOLD GOBY	LYTHRYPNUS SPILUS
884701260500	ZEBRA GOBY	LYTHRYPNUS ZEBRA
875603010100	BARRELEYE	MACROPINNA MICROSTOMA
881903010200	SLENDER SNIPEFISH	MACRORHAMPHOSUS GRACILIS
881903010100	LONGSPINE SNIPEFISH	MACRORHAMPHOSUS SCOLOPAX
879301160100	OCEAN POUT	MACROZOARCES AMERICANUS
885006020290	BLACK MARLIN	MAKAIRA INDICA
885006020100	BLUE MARLIN	MAKAIRA NIGRICANS
883522030100	SAND TILEFISH	MALACANTHUS PLUMIERI
883102190100	BLACKFIN SCULPIN	MALACOCOTTUS KINCAIDI
884209040100	GOLDLINE BLENNY	MALACOCTENUS AUROLINEATUS
884209040300	ROSY BLENNY	MALACOCTENUS MACROPUS
884209040400	SADDLED BLENNY	MALACOCTENUS TRIANGULATUS
875503020100	CAPELIN	MALLOTUS VILLOSUS
871308010200	MANTA	MANTA BIROSTRIS
883551040100	HALFMOON	MEDIALUNA CALIFORNIENSIS
883102200100	BELLIGERENT SCULPIN	MEGALOCOTTUS PLATYCEPHALUS
873802020100	ATLANTIC TARPON	MEGALOPS ATLANTICUS
879103130100	HADDOCK	MELANOGRAMMUS AEGLEFINUS
886002060100	BLACK DURGON	MELICHTHYS NIGER
880502020100	ROUGH SILVERSIDE	MEMBRAS MARTINICA
880502030100	INLAND SILVERSIDE	MENIDIA BERYLLINA
880502030300	KEY SILVERSIDE	MENIDIA CONCHORUM

880502030200	ATLANTIC SILVERSIDE	MENIDIA MENIDIA
883544060100	SOUTHERN KINGFISH	MENTICIRRHUS AMERICANUS
883544060200	GULF KINGFISH	MENTICIRRHUS LITTORALIS
883544060300	NORTHERN KINGFISH	MENTICIRRHUS SAXATILIS
883544060700	CALIFORNIA CORBINA	MENTICIRRHUS UNDULATUS
879104010100	SILVER HAKE	MERLUCCIUS BILINEARIS
879104010200	PACIFIC HAKE	MERLUCCIUS PRODUCTUS
883102210100	BRIGHTBELLY SCULPIN	MICROCOTTUS SELLARIS
884706010200	LANCETAIL WORMFISH	MICRODESMUS LANCEOLATUS
884706010300	PINK WORMFISH	MICRODESMUS LONGIPINNIS
879103060100	PACIFIC TOMCODH	MICROGADUS PROXIMUS
879103060200	ATLANTIC TOMCOD	MICROGADUS TOMCOD
882002050200	BANDED PIPEFISH	MICROGNATHUS CRINITUS
884701070300	SEMINOLE GOBY	MICROGOBIUS CARRI
884701070100	CLOWN GOBY	MICROGOBIUS GULOSUS
884701070400	BANNER GOBY	MICROGOBIUS MICROLEPIS
884701070200	GREEN GOBY	MICROGOBIUS THALASSINUS
883560100100	REEF PERCH	MICROMETRUS AURORA
883560100200	DWARF PERCH	MICROMETRUS MINIMUS
882002070100	OPOSSUM PIPEFISH	MICROPHIS BRACHYURUS
883544070200	ATLANTIC CROAKER	MICROPOGONIAS UNDULATUS
883516060100	SMALLMOUTH BASS	MICROPTERUS DOLOMIEUI
883516060300	SPOTTED BASS	MICROPTERUS PUNCTULATUS
883516060200	LARGEMOUTH BASS	MICROPTERUS SALMOIDES
883562040100	YELLOWTAIL DAMSELFISH	MICROSPATHODON CHRYSURUS
885704120100	DOVER SOLE	MICROSTOMUS PACIFICUS
885006020100	BLUE MARLIN	MKAIRA NIGRICANS
871308020200	DEVIL RAY	MOBULA HYPOSTOMA
871308020300	SPINETAIL MOBULA	MOBULA JAPANICA
871308020400	SMOOTHTAIL MOBULA	MOBULA THURSTONI
886104010200	SHARPTAIL MOLA	MOLA LANCEOLATA
886104010100	OCEAN SUNFISH	MOLA MOLA
886002070100	FRINGED FILEFISH	MONACANTHUS CILIATUS
886002030100	PLANEHEAD FILEFISH	MONACANTHUS HISPIDUS
886002030300	PYGMY FILEFISH	MONACANTHUS SETIFER
886002070200	SLENDER FILEFISH	MONACANTHUS TUCKERI
885703120100	SLIM FLOUNDER	MONOLENE ANTILLARUM
885703120400	DEEPWATER FLOUNDER	MONOLENE SESSILICAUDA
874102010100	SPAGHETTI EEL	MORINGUA EDWARDSI
883502010100	WHITE PERCH	MORONE AMERICANA
883502010400	WHITE BASS	MORONE CHRYSOPS
883502010400	WHITE BASS	MORONE CHRYSOPS
883502010500	YELLOW BASS	MORONE MISSISSIPPIENSIS
883502010200	STRIPED BASS	MORONE SAXATILIS
883502010300	HYBRID STRIPED BASS	MORONE SAXATILIS X M.
883601010100	STRIPED MULLET	MUGIL CEPHALUS
883601010100	STRIPED MULLET	MUGIL CEPHALUS
883601010200	WHITE MULLET	MUGIL CUREMA
883601010300	REDEYE MULLET	MUGIL GAIMARDIANUS
883601010500	FANTAIL MULLET	MUGIL GYRANS
883601010400	LIZA	MUGIL LIZA
883545010100	YELLOW GOATFISH	MULLOIDICHTHYS MARTINICUS
883545020100	RED GOATFISH	MULLUS AURATUS
874105050100	GOLDENTAIL MORAY	MURAENA MILARIS
874105050200	RETICULATE MORAY	MURAENA RETIFERA
870802040400	GRAY SMOOTHHOUND	MUSTELUS CALIFORNICUS
870802040100	SMOOTH DOGFISH	MUSTELUS CANIS
870802040500	BROWN SMOOTHHOUND	MUSTELUS HENLEI
870802040600	SICKLEFIN SMOOTHHOUND	MUSTELUS LUNULATUS
870802040300	FLORIDA SMOOTHHOUND	MUSTELUS NORRISI
883502050200	BLACK GROUPER	MYCTEROPERCA BONACI
883502050400	YELLOWMOUTH GROUPER	MYCTEROPERCA INTERSTITALIS
883502050700	GULF GROUPER	MYCTEROPERCA JORDANI
883502050100	GAG	MYCTEROPERCA MICROLEPIS

883502050500	SCAMP	MYCTEROPERCA PHENAX
883502051000	COMB GROUPER	MYCTEROPERCA RUBRA
883502055000	TIGER GROUPER	MYCTEROPERCA TIGRIS
883502050600	YELLOWFIN GROUPER	MYCTEROPERCA VENENOSA
883502050800	BROOMTAIL GROUPER	MYCTEROPERCA XENARCHA
871307020200	BAT RAY	MYLIOBATIS CALIFORNICA
871307020100	BULLNOSE RAY	MYLIOBATIS FREMINVILLEI
871307020300	SOUTHERN EAGLE RAY	MYLIOBATIS GOODEI
883102221000	GRUBBY	MYOXOCEPHALUS AENAEUS
883102220100	PLAIN SCULPIN	MYOXOCEPHALUS JAOK
883102220300	WARTHEAD SCULPIN	MYOXOCEPHALUS NIGER
883102220900	LONGHORN SCULPIN	MYOXOCEPHALUS OCTODECEMSPINOSU
883102220400	GREAT SCULPIN	MYOXOCEPHALUS POLYACANTHOCEPHA
883102220500	FOURHORN SCULPIN	MYOXOCEPHALUS QUADRICORNIS
883102220600	ARCTIC SCULPIN	MYOXOCEPHALUS SCORPIOIDES
883102220700	SHORTHORN SCULPIN	MYOXOCEPHALUS SCORPIUS
874113070300	SHARPTAIL EEL	MYRICHTHYS BREVICEPS
874113070100	GOLDSPOTTED EEL	MYRICHTHYS OCELLATUS
881008020100	BLACKBAR SOLDIERFISH	MYRIPRISTIS JACOBUS
874113080200	SPECKLED WORM EEL	MYROPHIS PUNCTATUS
860601020100	ATLANTIC HAGFISH	MYXINE GLUTINOSA
871303040100	LESSER ELECTRIC RAY	NARCINE BRASILIENSIS
883528150100	PILOTFISH	NAUCRATES DUCTOR
883102230100	SAILFIN SCULPIN	NAUTICHTHYS OCULOFASCIATUS
883102230200	EYESHADE SCULPIN	NAUTICHTHYS PRIBILOVIUS
883109100100	TADPOLE SNAILFISH	NECTOLIPARIS PELAGICUS
870802080100	LEMON SHARK	NEGAPRION BREVIROSTRIS
883528160100	ROOSTERFISH	NEMATISTIUS PECTORALIS
874121020200	SLENDER SNAKE EEL	NEMICHTHYS SCOLOPACEUS
884209140300	ONESPOT FRINGEHEAD	NEOCLINUS UNINOTATUS
884209140100	SARCASTIC FRINGEHEAD	NEOCLINUS BLANCHARDI
884209140200	YELLOWFIN FRINGEHEAD	NEOCLINUS STEPHENSAE
874102020100	RIDGED EEL	NEOCONGER MUCRONATUS
882601040200	SPINYCHEEK SCORPIONFISH	NEOMERINTHE HEMINGWAYI
884701270100	ORANGESPOTTED GOBY	NES LONGUS
879401080200	MARLIN-SPIKE	NEZUMIA BAIRDI
883903030100	EMERALD PARROTFISH	NICHOLSINA USTA
885102030100	MAN-OF-WAR FISH	NOMEUS GRONOVII
874303030100	SPINY EEL	NOTACANTHUS CHEMNITZI
870502020100	SEVENGILL SHARK	NOTORYNCHUS CEPEDIANUS
876214040100	PATCHWORK LAMPFISH	NOTOSCOPELUS RESPLENDENS
883108090100	BERING POACHER	OCCELLA DODECAEDRON
883108090300	WARTY POACHER	OCCELLA VERRUCOSA
883536040100	YELLOWTAIL SNAPPER	OCYURUS CHRYSURUS
870703010200	RAGGED-TOOTH SHARK	ODONTASPIS FEROX
870703010100	SAND TIGER	ODONTASPIS TAURUS
883108100100	PYGMY POACHER	ODONTOPYXIS TRISPINOSA
883544130100	REEF CROAKER	ODONTOSCION DENTEX
878704010100	LONGNOSE BATFISH	OGCOCEPHALUS CORNIGER
878704010300	SHORTNOSE BATFISH	OGCOCEPHALUS NASUTUS
878704010500	ROUGHBACK BATFISH	OGCOCEPHALUS PARVUS
878704010600	POLKA-DOT BATFISH	OGCOCEPHALUS RADIATUS
879201240100	KEY BROTULA	OGILBIA CAYORUM
883102240100	TIDEPOOL SCULPIN	OLIGOCOTTUS MACULOSUS
883102240200	SADDLEBACK SCULPIN	OLIGOCOTTUS RIMENSIS
883102240300	FLUFFY SCULPIN	OLIGOCOTTUS SNYDERI
883528050100	LEATHERJACK	OLIGOPLITES SAURUS
879201250100	REEF-CAVE BROTULA	OLIGOPUS CLAUDEI
879201250200	PURPLE BROTULA	OLIGOPUS DIAGRAMMUS
875501030100	CUTTHROAT TROUT	ONCORHYNCHUS CLARKI
875501020100	PINK SALMON	ONCORHYNCHUS GORBUSCHA
875501020200	CHUM SALMON	ONCORHYNCHUS KETA
875501020300	COHO SALMON	ONCORHYNCHUS KISUTCH
875501030200	RAINBOW TROUT	ONCORHYNCHUS MYKISS

875501020500	SOCKEYE SALMON	ONCORHYNCHUS NERKA
875501020600	CHINOOK SALMON	ONCORHYNCHUS TSHAWYTSCHA
882002010800	SARGASSUM PIPEFISH	ONYGNATHUS PELAGICUS
874113100100	SHRIMP EEL	OPHICHTHUS GOMESI
874113100200	BLACKPORED EEL	OPHICHTHUS MELANOPORUS
874113100400	SPOTTED SNAKE EEL	OPHICHTHUS OPHIS
874113100300	PALESPOTTED EEL	OPHICHTHUS PUNCTICEPSS
874113100600	PACIFIC SNAKE EEL	OPHICHTHUS TRISERIALIS
874113100700	YELLOW SNAKE EEL	OPHICHTHUS ZOPHOCHIR
879201060100	LONGNOSE CUSK-EEL	OPHIDION BEANI
879201060200	BLOTCHED CUSK-EEL	OPHIDION GRAYI
879201060300	BANK CUSK-EEL	OPHIDION HOLBROOKI
879201090100	STRIPED CUSK-EEL	OPHIDION MARGINATUM
879201070400	BASKETWEAVE CUSK-EEL	OPHIDION SCRIPPSAE
879201060400	MOONEYE CUSK-EEL	OPHIDION SELENOPS
879201060500	CRESTED CUSK-EEL	OPHIDION WELSHI
884201060100	REDLIP BLENNY	OPHIOBLENNIUS ATLANTICUS
882701020100	LINGCOD	OPHIODON ELONGATUS
874701070100	ATLANTIC THREAD HERRING	OPISTHONEMA OGLINUM
874701070400	MIDDLING THREAD HERRING	OPISTHONEMA MEDIRASTRE
884002020300	YELLOWHEAD JAWFISH	OPISTOGNATHUS AURIFRONS
884002020100	MOUSTACHE JAWFISH	OPISTOGNATHUS LONCHURUS
884002020500	BANDED JAWFISH	OPISTOGNATHUS MACROGNATHUS
884002020200	MOTTLED JAWFISH	OPISTOGNATHUS MAXILLOSUS
884002020700	DUSKY JAWFISH	OPISTOGNATHUS WHITEHURSTI
878301020200	GULF TOADFISH	OPSANUS BETA
878301020300	LEOPARD TOADFISH	OPSANUS PARDUS
878301020100	OYSTER TOADFISH	OPSANUS TAU
883102450100	SNUBNOSE SCULPIN	ORTHONOPIAS TRIACIS
883540020100	PIGFISH	ORTHOPRISTIS CHRYSOPTERA
875503030200	RAINBOW SMELT	OSMERUS MORDAX
881008030100	BIGEYE SOLDIERFISH	OSTICHTHYS TRACHYPOMA
879201070300	SLEEPER CUSK-EEL	OTOPHIDIUM DORMITATOR
879201070100	POLKA-DOT CUSK-EEL	OTOPHIDIUM OMOSTIGMUM
883901110100	SENORITA	OXYJULIS CALIFORNICA
882702030100	PAINTED GREENLING	OXYLEBIUS PICTUS
880301100100	SMALLWING FLYINGFISH	OXYPORHAMPHUS MICROPTERUS
883543060200	RED PORGY	PAGRUS PAGRUS
883108110100	TUBENOSE POACHER	PALLASINA BARBATA
884201010100	SEAWEED BLENNY	PARABLENNIUS MARMOREUS
884209050200	CORAL BLENNY	PARACLINUS CINGULATUS
884209050300	BANDED BLENNY	PARACLINUS FASCIATUS
884209050100	HORNED BLENNY	PARACLINUS GRANDICOMIS
884209050400	BALD BLENNY	PARACLINUS INFRONS
884209050500	REEF FINSPOT	PARACLINUS INTEGRIPINNIS
884209050600	MARBLED BLENNY	PARACLINUS MARMORATUS
874112050100	MARGINTAIL CONGER	PARACONGER CAUDILIMBATUS
884601010200	LANCER DRAGONET	PARADIPLOGRAMMUS BAIRDI
886001030100	JAMBEAU	PARAHOLLARDIA LINEATA
883502160200	KELP BASS	PARALABRAX CLATHRATUS
883502160300	SPOTTED SAND BASS	PARALABRAX MACULATOFASCIATUS
883502160400	BARRED SAND BASS	PARALABRAX NEBULIFER
885703030200	GULF FLOUNDER	PARALICHTHYS ALBIGUTTA
885703030900	CALIFORNIA HALIBUT	PARALICHTHYS CALIFORNICUS
885703030100	SUMMER FLOUNDER	PARALICHTHYS DENTATUS
885703030400	SOUTHERN FLOUNDER	PARALICHTHYS LETHOSTIGMA
885703030500	FOURSPOT FLOUNDER	PARALICHTHYS OBLONGUS
885703030600	BROAD FLOUNDER	PARALICHTHYS SQUAMILENTUS
883109110600	PRICKLY SNAILFISH	PARALIPARIS DEANI
883502170100	CREOLE-FISH	PARANTHIAS FURCIFER
876204020100	LONGNOSE GREENEYE	PARASUDIS TRUCULENTA
880301110100	SAILFIN FLYINGFISH	PAREXOCOETUS BRACHYPTERUS
883102250100	THORNBACK SCULPIN	PARICELINUS HOPLITICUS
879201260100	DUSKY CUSK EEL	PAROPHIDION SCHMIDTI

883547010100	GLASSY SWEEPER	PEMPHERUS SCHOMBURGKI
883557010100	LONGFIN ARMORHEAD	PENTACEROS PECTORALIS
885103010600	HARVESTFISH	PEPRILUS ALEPIDOTUS
885103010400	GULF BUTTERFISH	PEPRILUS BURTI
885103010100	PACIFIC POMPANO	PEPRILUS SIMILLIMUS
885103010300	BUTTERFISH	PEPRILUS TRIACANTHUS
883520020100	YELLOW PERCH	PERCA FLAVESCENS
882602031300	FLATHEAD SEAROBIN	PERISTEDION BREVIROSTRE
882602030300	SLENDER SEAROBIN	PERISTEDION GRACILE
882602030700	ARMORED SEAROBIN	PERISTEDION MINIATUM
882602031100	RIMSPINE SEAROBIN	PERISTEDION THOMPSONI
860301030100	SEA LAMPREY	PETROMYZON MARINUS
883518050100	FRECKLED CARDINALFISH	PHAEOPTYX CONKLINI
883518050300	DUSKY CARDINALFISH	PHAEOPTYX PIGMENTARIA
879201270100	REDFIN BROTULA	PETROTYX SANGUINEUS
883518050200	SPONGE CARDINALFISH	PHAEOPTYX XENUS
883102260100	SPINELESS SCULPIN	PHALLOCOTTUS OBTUSUS
883560050200	SHARPNOSE SEAPERCH	PHANERODON ATRIPES
883560050100	WHITE SEAPERCH	PHANERODON FURCATUS
884213020100	LONGFIN GUNNEL	PHOLIS CLEMENSI
884213020300	BANDED GUNNEL	PHOLIS FASCIATA
884213020400	BERING GUNNEL	PHOLIS GILLI
884213020900	ROCK GUNNEL	PHOLIS GUNNELLUS
884213020500	CRESCENT GUNNEL	PHOLIS LAETA
884213020600	SADDLEBACK GUNNEL	PHOLIS ORNATA
884213020800	RED GUNNEL	PHOLIS SCHULTZI
883527030100	SLENDER SUCKERFISH	PHTHEIRICHTHYS LINEATUS
884212100100	RIBBON PRICKLEBACK	PHYTICHTHYS CHIRUS
883502190200	YELLOWTAIL BASS	PIKEA MEXICANA
885704140100	STARRY FLOUNDER	PLATICHTHYS STELLATUS
880302040100	KEELTAIL NEEDLEFISH	PLATYBELONE ARGALUS
884013010200	SADDLE STARGAZER	PLATYGILLELLUS RUBROCINCTUS
871302020100	THORNBACK	PLATYRHINOIDIS TRISERIATA
884212110100	BLUEBARRED PRICKLEBACK	PLECTOBRANCHUS EVIDES
881008040100	CARDINAL SOLDIERFISH	PLECTRYPOPS RETROSPINIS
882701050100	ATKA MACKEREL	PLEUROGRAMMUS MONOPTERYGIUS
885704200100	WINTER FLOUNDER	PLEURONECTES AMERICANUS
885704090100	YELLOWFIN SOLE	PLEURONECTES ASPER
885704080100	ROCK SOLE	PLEURONECTES BILINEATUS
885704090300	YELLOWTAIL FLOUNDER	PLEURONECTES FERRUGINEUS
885704100100	ARCTIC FLOUNDER	PLEURONECTES GLACIALIS
885704070100	BUTTER SOLE	PLEURONECTES ISOLEPIS
885704090200	LONGHEAD DAB	PLEURONECTES PROBOSCIDEUS
885704100300	SMOOTH FLOUNDER	PLEURONECTES PUTNAMI
885704150100	ALASKA PLAICE	PLEURONECTES QUADRITUBERCULATU
885704130100	ENGLISH SOLE	PLEURONECTES VETULUS
885704160100	C-O SOLE	PLEURONICHTHYS COENOSUS
885704160200	CURLFIN SOLE	PLEURONICHTHYS DECURRENS
885704160300	SPOTTED TURBOT	PLEURONICHTHYS RITTERI
885704160400	HORNYHEAD TURBOT	PLEURONICTHYS VERTICALIS
883108080200	STURGEON POACHER	PODOTHECUS ACIPENSERINUS
880408020100	SAILFIN MOLLY	POECILIA LATIPINNA
883544080100	BLACK DRUM	POGONIAS CROMIS
879103090100	POLLOCK	POLLACHIUS VIRENS
875901060100	STAREYE LIGHTFISH	POLLICHTHYS MAULI
883801010300	BLUE BOBO	POLYDACTYLUS APPROXIMANS
883801010100	ATLANTIC THREADFIN	POLYDACTYLUS OCTONEMUS
883801010400	LITTLESCALE THREADFIN	POLYDACTYLUS OLIGODON
883801010500	YELLOW BOBO	POLYDACTYLUS OPERCULARIS
883801010200	BARBU	POLYDACTYLUS VIRGINICUS
880901010100	BEARDFISH	POLYMIXIA LOWEI
883502280100	WRECKFISH	POLYPRION AMERICANUS
883555040100	GRAY ANGELFISH	POMACANTHUS ARCUATUS
883555040200	FRENCH ANGELFISH	POMACANTHUS PARU

883562050100	DUSKY DAMSELFISH	POMACENTRUS FUSCUS
883562050200	BEAUGREGORY	POMACENTRUS LEUCOSTICTUS
883562050600	BICOLOR DAMSELFISH	POMACENTRUS PARTITUS
883562050400	THREESPOT DAMSELFISH	POMACENTRUS PLANIFRONS
883562050500	COCOA DAMSELFISH	POMACENTRUS VARIABILIS
883540050200	BURRO GRUNT	POMADASYS CROCRO
883525010100	BLUEFISH	POMATOMUS SALTATRIX
883516070100	WHITE CRAPPIE	POMOXIS ANNULARIS
883516070200	BLACK CRAPPIE	POMOXIS NIGROMACULATUS
882601050100	LONGSNOUT SCORPIONFISH	PONTINUS CASTOR
882601050300	LONGSPINE SCORPIONFISH	PONTINUS LONGISPINIS
882601050600	SPINYTHROAT SCORPIONFISH	PONTINUS NEMATOPHTHALMUS
882601050500	HIGHFIN SCORPIONFISH	PONTINUS RATHBUNI
878301010700	SPECKLEFIN MIDSHIPMAN	PORICHTHYS MYRIASTER
878301010100	PLAINFIN MIDSHIPMAN	PORICHTHYS NOTATUS
878301010600	ATLANTIC MIDSHIPMAN	PORICHTHYS PLECTRODON
884212120100	WHITEBARRED PRICKLEBACK	POROCLINUS ROTHROCKI
883517010100	BIGEYE	PRIACANTHUS ARENATUS
883517010200	GLASSEYE SNAPPER	PRIACANTHUS CRUENTATUS
884701290100	RUSTY GOBY	PRIOLEPIS HIPOLITI
870802060100	BLUE SHARK	PRIONACE GLAUCA
882602010400	BIGHEAD SEAROBIN	PRIONOTUS TRIBULUS
882602010500	SPINY SEAROBIN	PRIONOTUS ALATUS
882602010100	NORTHERN SEAROBIN	PRIONOTUS CAROLINUS
882602010200	STRIPED SEAROBIN	PRIONOTUS EVOLANS
882602011800	BIGEYE SEAROBIN	PRIONOTUS LONGISPINOSUS
882602011100	BARRED SEAROBIN	PRIONOTUS MARTIS
882602011300	BANDTAIL SEAROBIN	PRIONOTUS OPHRYAS
882602011400	MEXICAN SEAROBIN	PRIONOTUS PARALATUS
882602011700	BLUESPOTTED SEAROBIN	PRIONOTUS ROSEUS
882602012000	BLACKWING SEAROBIN	PRIONOTUS RUBIO
882602010300	LEOPARD SEAROBIN	PRIONOTUS SCITULUS
882602012100	SHORTWING SEAROBIN	PRIONOTUS STEARNSI
883517020100	SHORT BIGEYE	PRISTIGENYS ALTA
883536070100	WENCHMAN	PRISTIPOMOIDES AQUILONARIS
871301010100	SMALLTOOTH SAWFISH	PRISTIS PECTINATA
871301010200	LARGETOOTH SAWFISH	PRISTIS PRISTIS
880301120100	BLUNTNOSE FLYINGFISH	PROGNICHTHYS GIBBIFRONS
876214100100	CALIFORNIA FLASHLIGHTFISH	PROTOMYCTOPHUM CROCKERI
885102040100	FRECKLED DRIFTFISH	PSENES CYANOPHRYS
885102040200	SILVER DRIFTFISH	PSENES MACULATUS
885102040300	BLUEFIN DRIFTFISH	PSENES PELLUCIDUS
885704170100	SAND SOLE	PSETTICHTHYS MELANOSTICTUS
883503010100	REEF BASS	PSEUDOGRAMMA GREGORYI
883545030200	MEXICAN GOATFISH	PSEUDUPENEUS DENTATUS
883545030100	SPOTTED GOATFISH	PSEUDUPENEUS MACULATUS
883107010100	TADPOLE SCULPIN	PSYCHROLUTES PARADOXUS
883107030100	SOFT SCULPIN	PSYCHROLUTES SIGALUTES
883571030100	ATLANTIC FANFISH	PTERYCOMBUS BRAMA
884211010100	QUILLFISH	PTILICHTHYS GOODEI
881801020100	NINESPINE STICKLEBACK	PUNGITIUS PUNGITIUS
877702030100	FLATHEAD CATFISH	PYLODICTIS OLIVARIS
884701280100	SHADOW GOBY	QUIETULA Y-CAUDA
883526010100	COBIA	RACHYCENTRON CANADUM
883102290100	SLIM SCULPIN	RADULINUS ASPRELLUS
883102290200	DARTER SCULPIN	RADULINUS BOLEOIDES
883102290300	SMOOTHGUM SCULPIN	RADULINUS VINCULUS
871304011700	OSCELLATE SKATE	RAJA ACKLEYI
871304010300	BIG SKATE	RAJA BINOCULATA
871304011300	CLEARNOSE SKATE	RAJA EGLANTERIA
871304011400	LITTLE SKATE	RAJA ERINACEA
871304012400	ROSETTE SKATE	RAJA GARMANI
871304010400	CALIFORNIA SKATE	RAJA INORNATA
871304011500	BARNDOOR SKATE	RAJA LAEVIS

871304012600	FRECKLED SKATE	RAJA LENTIGINOSA
871304011600	WINTER SKATE	RAJA OCELLATA
871304012700	SPREADFIN SKATE	RAJA OLSENI
871304013400	THORNY SKATE	RAJA RADIATA
871304010800	LONGNOSE SKATE	RAJA RHINA
871304013100	SMOOTH SKATE	RAJA SENTA
871304013500	SPINYTAIL SKATE	RAJAHSPINICAUDA
871304011100	STARRY SKATE	RAJA STELLULATA
871304013300	ROUNDEL SKATE	RAJA TEXANA
886104020100	SLENDER MOLA	RANZANIA LAEVIS
884003030200	STRIPEDFIN RONQUIL	RATHBUNELLA HYPOPLECTA
881503010100	OARFISH	REGALECUS GLESNE
885704180100	GREENLAND HALIBUT	REINHARDTIUS HIPPOGLOSSOIDES
883527010100	WHALE-SUCKER	REMORA AUSTRALIS
883527010400	SPEARFISH REMORA	REMORA BRACHYPTERA
883527010200	MARLIN-SUCKER	REMORA OSTEOCHIR
883527010300	REMORA	REMORA REMORA
883560060100	PILE PERCH	RHACOCHILUS VACCA
883560060200	RUBBERLIP SEAPERCH	RHACOCHILUS TOXOTES
883102300100	GRUNT SCULPIN	RHAMPHOCOTTUS RICHARDSONI
870701010100	WHALE SHARK	RHINCODON TYPUS
871302010100	ATLANTIC GUITARFISH	RHINOBATOS LENTIGINOSUS
871302010400	SHOVELNOSE GUITARFISH	RHINOBATOS PRODUCTUS
871307030100	COWNOSE RAY	RHINOPTERA BONASUS
870802030400	PACIFIC SHARPNOSE SHARK	RHIZOPRIONODON LONGURIO
870802030100	ATLANTIC SHARPNOSE SHARK	RHIZOPRIONODON TERRAENOVAE
884213020200	STIPPLED GUNNEL	RHODYMENICHTHYS DOLICHOGASTER
883536050100	VERMILION SNAPPER	RHOMBOPLITES AURORUBENS
878401020200	SLENDER CLINGFISH	RIMICOLA EIGENMANNI
878401020100	KELP CLINGFISH	RIMICOLA MUSCARUM
884701150100	TUSKED GOBY	RISOR RUBER
883544240100	SPOTFIN CROAKER	RONCADOR STEARNSI
884003020100	NORTHERN RONQUIL	RONQILUS JORDANI
883102040700	ROUGHCHEEK SCULPIN	RUSCARIUS CREASERI
883102040400	PUGET SOUND SCULPIN	RUSCARIUS MEANYI
885001040100	OILFISH	RUVETTUS PRETIOSUS
883503020200	FRECKLED SOAPFISH	RYPTICUS BISTRISPINUS
883503020700	GREATER SOAPFISH	RYPTICUS SAPONACEUS
883503020800	SPOTTED SOAPFISH	RYPTICUS SUBBIFRENATUS
883503020400	WHITESPOTTED SOAPFISH	RYPTICUS MACULATUS
875501030500	ATLANTIC SALMON	SALMO SALAR
875501030600	BROWN TROUT	SALMO TRUTTA
875501040200	ARCTIC CHAR	SALVELINUS ALPINUS
875501040400	BROOK TROUT	SALVELINUS FONTINALIS
875501040100	DOLLY VARDEN	SALVELINUS MALMA
875501040300	LAKE TROUT	SALVELINUS NAMAYCUSH
885003020100	PACIFIC BONITO	SARDA CHILIENSIS
885003020200	ATLANTIC BONITO	SARDA SARDA
874701100300	SPANISH SARDINE	SARDINELLA AURITA
874701100200	ORANGESPOT SARDINE	SARDINELLA BRASILIENSIS
874701030100	PACIFIC SARDINE	SARDINOPS SAGAX
876202030100	LARGESCALE LIZARDFISH	SAURIDA BRASILIENSIS
876202030200	SMALLSCALE LIZARDFISH	SAURIDA CARIBBAEA
876202030300	SHORTJAW LIZARDFISH	SAURIDA NORMANI
872901010700	SHOVELNOSE STURGEON	SCAPHIRHYNCHUS PLATORYNCHUS
884201010200	MOLLY MILLER	SCARTELLA CRISTATA
883903010200	MIDNIGHT PARROTFISH	SCARUS COELESTINUS
883903010100	BLUE PARROTFISH	SCARUS COERULEUS
883903010300	STRIPED PARROTFISH	SCARUS CROICENSIS
883903010400	RAINBOW PARROTFISH	SCARUS GUACAMAIA
883903010500	PRINCESS PARROTFISH	SCARUS TAENIOPTERUS
883903010600	QUEEN PARROTFISH	SCARUS VETULA
883502210100	SCHOOL BASS	SCHULTZEA BETA
883544090100	RED DRUM	SCIAENOPS OCELLATA

885003030100	CHUB MACKEREL	SCOMBER JAPONICUS
885003030200	ATLANTIC MACKEREL	SCOMBER SCOMBRUS
880303020100	ATLANTIC SAURY	SCOMBERESOX SAURUS
885003050100	KING MACKEREL	SCOMBEROMORUS CAVALLA
885003050400	GULF SIERRA	SCOMBEROMORUS CONCOLOR
885003050200	SPANISH MACKEREL	SCOMBEROMORUS MACULATUS
885003050300	CERO	SCOMBEROMORUS REGALIS
885003050600	PACIFIC SIERRA	SCOMBEROMORUS SIERRA
885703040100	WINDOWPANE	SCOPHTHALMUS AQUOSUS
882601060100	LONGFIN SCORPIONFISH	SCORPAENA AGASSIZI
882601060200	CORAL SCORPIONFISH	SCORPAENA ALBIFIMBRIA
882601060300	GOOSEHEAD SCORPIONFISH	SCORPAENA BERGI
882601060400	SHORTFIN SCORPIONFISH	SCORPAENA BRACHYPTERA
882601060500	BARBFISH	SCORPAENA BRASILIENSIS
882601060600	SMOOTHHEAD SCORPIONFISH	SCORPAENA CALCARATA
882601060700	HUNCHBACK SCORPIONFISH	SCORPAENA DISPAR
882601060800	DWARF SCORPIONFISH	SCORPAENA ELACHYS
882601060900	PLUMED SCORPIONFISH	SCORPAENA GRANDICORNIS
882601061600	CALIFORNIA SCORPIONFISH	SCORPAENA GUTTATA
882601061000	MUSHROOM SCORPIONFISH	SCORPAENA INERMIS
882601061400	SPOTTED SCORPIONFISH	SCORPAENA PLUMIERI
882601060000	SCORPIONFISH	SCORPAENA SPPH
883102310100	CABEZON	SCORPAENICHTHYS MARMORATUS
882601120300	RAINBOW SCORPIONFISH	SCORPAENODES XYRIS
882601120100	REEF SCORPIONFISH	SCORPAENODES CARIBBAEUS
882601120200	DEEPREEF SCORPIONFISH	SCORPAENODES TREDECIMSPINOSUS
870801030400	CHAIN DOGFISH	SCYLIORHINUS RETIFER
884214010100	GRAVEL DIVER	SCYTALINA CERDALE
882601010100	ROUGHEYE ROCKFISH	SEBASTES ALEUTIANUS
882601010200	PACIFIC OCEAN PERCH	SEBASTES ALUTUS
882601014200	KELP ROCKFISH	SEBASTES ATROVIRENS
882601010300	BROWN ROCKFISH	SEBASTES AURICULATUS
882601010400	AURORA ROCKFISH	SEBASTES AURORA
882601010500	REDBANDED ROCKFISH	SEBASTES BABCOCKI
882601010700	SHORTRAKER ROCKFISH	SEBASTES BOREALIS
882601010600	SILVERGRAY ROCKFISH	SEBASTES BREVISPINIS
882601016200	GOPHER ROCKFISH	SEBASTES CARNATUS
882601010800	COPPER ROCKFISH	SEBASTES CAURINUS
882601014300	GREENSPOTTED ROCKFISH	SEBASTES CHLOROSTICTUS
882601014000	BLACK-AND-YELLOW ROCKFISH	SEBASTES CHRYSOMELAS
882601010900	DUSKY ROCKFISH	SEBASTES CILIATUS
882601014400	STARRY ROCKFISH	SEBASTES CONSTELLATUS
882601011000	DARKBLOTCHED ROCKFISH	SEBASTES CRAMERI
882601014500	CALICO ROCKFISH	SEBASTES DALLI
882601011100	SPLITNOSE ROCKFISH	SEBASTES DIPLOPROA
882601011200	GREENSTRIPED ROCKFISH	SEBASTES ELONGATUS
882601011300	PUGET SOUND ROCKFISH	SEBASTES EMPHAEUS
882601016300	SWORDSPINE ROCKFISH	SEBASTES ENSIFER
882601011400	WIDOW ROCKFISH	SEBASTES ENTOMELAS
882601014600	PINK ROCKFISH	SEBASTES EOS
882601011500	YELLOWTAIL ROCKFISH	SEBASTES FLAVIDUS
882601014700	BRONZESPOTTED ROCKFISH	SEBASTES GILLI
882601011700	CHILIPEPPER ROCKFISH	SEBASTES GOODEI
882601011800	ROSETHORN ROCKFISH	SEBASTES HELVOMACULATUS
882601014800	SQUARESPOTTED ROCKFISH	SEBASTES HOPKINSI
882601011900	SHORTBELLY ROCKFISH	SEBASTES JORDANI
882601016400	FRECKLED ROCKFISH	SEBASTES LENTIGINOSUS
882601014900	COWCOD	SEBASTES LEVIS
882601015000	MEXICAN ROCKFISH	SEBASTES MACDONALDI
882601012000	QUILLBACK ROCKFISH	SEBASTES MALIGER
882601012100	BLACK ROCKFISH	SEBASTES MELANOPS
882601015100	DEEPWATER REDFISH	SEBASTES MENTELLA
882601012300	VERMILION ROCKFISH	SEBASTES MINIATUS
882601012400	BLUE ROCKFISH	SEBASTES MYSTINUS

882601012500	CHINA ROCKFISH	SEBASTES NEBULOSUS
882601012600	TIGER ROCKFISH	SEBASTES NIGROCINCTUS
882601013900	GOLDEN REDFISH	SEBASTES NORVEGICUS
882601015200	SPECKLED ROCKFISH	SEBASTES OVALIS
882601012700	BOCACCIO	SEBASTES PAUCISPINIS
882601015300	CHAMELEON ROCKFISH	SEBASTES PHILLIPSI
882601012800	CANARY ROCKFISH	SEBASTES PINNIGER
882601012900	NORTHERN ROCKFISH	SEBASTES POLYSPINIS
882601013000	REDSTRIPE ROCKFISH	SEBASTES PRORIGER
882601015400	GRASS ROCKFISH	SEBASTES RASTRELLIGER
882601013100	YELLOWMOUTH ROCKFISH	SEBASTES REEDI
882601012400	BLUE ROCKFISH	SEBASTES MYSTINUS
882601013200	ROSY ROCKFISH	SEBASTES ROSACEUS
882601016600	GREENBLOTCHED ROCKFISH	SEBASTES ROSENBLATTI
882601013400	YELLOWEYE ROCKFISH	SEBASTES RUBERRIMUS
882601016700	DWARF-RED ROCKFISH	SEBASTES RUFINANUS
882601015600	BANK ROCKFISH	SEBASTES RUFUS
882601013500	STRIPETAIL ROCKFISH	SEBASTES SAXICOLA
882601015700	HALFBANDED ROCKFISH	SEBASTES SEMICINCTUS
882601015800	OLIVE ROCKFISH	SEBASTES SERRANOIDES
882601015900	TREEFISH	SEBASTES SERRICEPS
882601016500	PINKROSE ROCKFISH	SEBASTES SIMULATOR
882601016000	HONEYCOMB ROCKFISH	SEBASTES UMBROSUS
882601013700	PYGMY ROCKFISH	SEBASTES WILSONI
882601013800	SHARPCHIN ROCKFISH	SEBASTES ZACENTRUS
882601020100	SHORTSPINE THORNYHEAD	SEBASTOLOBUS ALASCANUS
882601020200	LONGSPINE THORNYHEAD	SEBASTOLOBUS ALTIVELIS
883528060100	BIGEYE SCAD	SELAR CRUMENOPHTHALMUS
883528100200	PACIFIC MOONFISH	SELENE PERUVIANA
883528100100	ATLANTIC MOONFISH	SELENE SETAPINNIS
883528070100	LOOKDOWN	SELENE VOMER
883901120100	CALIFORNIA SHEEPHEAD	SEMICOSSYPHUS PULCHER
883528080100	GREATER AMBERJACK	SERIOLA DUMERILI
883528080200	LESSER AMBERJACK	SERIOLA FASCIATA
883528080800	YELLOWTAIL	SERIOLA LALANDI
883528080300	ALMACO JACK	SERIOLA RIVOLIANA
883528080700	ALMACO JACK	SERIOLA RIVOLIANA
883528080400	BANDED RUDDERFISH	SERIOLA ZONATA
883544505000	QUEENFISH	SERIPHUS POLITUS
883544250100	QUEENFISH	SERIPHUS POLITUS
883502220100	PYGMY SEA BASS	SERRANICULUS PUMILIO
883502230100	ORANGEBACK BASS	SERRANUS ANNULARIS
883502230200	BLACKEAR BASS	SERRANUS ATROBRANCHUS
883502230300	LANTERN BASS	SERRANUS BALDWINI
883502230400	SNOW BASS	SERRANUS CHIONARAIA
883502230700	SADDLE BASS	SERRANUS NOTOSPILUS
883502230800	TATTLER	SERRANUS PHOEBE
883502230900	BELTED SANDFISH	SERRANUS SUBLIGARIUS
883502231000	TOBACCOFISH	SERRANUS TABACARIUS
883502231100	HARLEQUIN BASS	SERRANUS TIGRINUS
883502231200	CHALK BASS	SERRANUS TORTUGARUM
883102320100	KELP SCULPIN	SIGMISTES CAULIAS
883102320200	ARCHED SCULPIN	SIGMISTES SMITHI
882602010400	CHAIN PIPEFISH	SNYGNATHUS LOUISIANAE
871001010200	GREENLAND SHARK	SOMNIOSUS MICROCEPHALUS
871001010100	PACIFIC SLEEPER SHARK	SOMNIOSUS PACIFICUS
883903040100	GREENBLOTCH PARROTFISH	SPARISOMA ATOMARIUM
883903040200	REDBAND PARROTFISH	SPARISOMA AUROFRENATUM
883903040300	REDTAIL PARROTFISH	SPARISOMA CHRYSOPTERUM
883903040400	BUCKTOOTH PARROTFISH	SPARISOMA RADIANS
883903040500	REDFIN PARROTFISH	SPARISOMA RUBRIPINNE
883903040600	STOPLIGHT PARROTFISH	SPARISOMA VIRIDE
886101020300	BULLSEYE PUFFER	SPHOEROIDES ANNULATUS
886101020500	MARBLED PUFFER	SPHOEROIDES DORSALIS

886101020100	NORTHERN PUFFER	SPHOEROIDES MACULATUS
886101020800	SOUTHERN PUFFER	SPHOEROIDES NEPHELUS
886101020900	BLUNTHEAD PUFFER	SPHOEROIDES PACHYGASTER
886101021000	LEAST PUFFER	SPHOEROIDES PARVUS
886101021100	BANDTAIL PUFFER	SPHOEROIDES SPENGLERI
886101020200	CHECKERED PUFFER	SPHOEROIDES TESTUDINEUS
883701010100	PACIFIC BARRACUDA	SPHYRAENA ARGENTEA
883701010400	GREAT BARRACUDA	SPHYRAENA BARRACUDA
883701010200	NORTHERN SENNET	SPHYRAENA BOREALIS
883701010300	GUAGUANCHE	SPHYRAENA GUACHANCHO
883701010500	SOUTHERN SENNET	SPHYRAENA PICUDILLA
870803010300	SCALLOPED HAMMERHEAD	SPHYRNA LEWINI
870803010400	GREAT HAMMERHEAD	SPHYRNA MOKARRAN
870803010100	BONNETHEAD	SPHYRNA TIBURO
870803010500	SMALLEYE HAMMERHEAD	SPHYRNA TUDES
870803010200	SMOOTH HAMMERHEAD	SPHYRNA ZYGAENA
875503040100	NIGHT SMELT	SPIRINCHUS STARKSI
875503040200	LONGFIN SMELT	SPIRINCHUS THALEICHTHYS
871001020100	SPINY DOGFISH	SQUALUS ACANTHIAS
871001020300	CUBAN DOGFISH	SQUALUS CUBENSIS
871101010100	ANGEL SHARK	SQUATINA CALIFORNICA
871101010200	ATLANTIC ANGEL SHARK	SQUATINA DUMERIL
884209060200	CHECKERED BLENNY	STARKSIA OCELLATA
884209070100	BLACKBELLY BLENNY	STATHMONOTUS HEMPHILLI
884209070200	EELGRASS BLENNY	STATHMONOTUS STAHLI
879104020100	LUMINOUS HAKE	STEINDACHNERIA ARGENTEA
883108150100	PRICKLEBREAST POACHER	STELLERINA XYOSTERNA
883544100100	STAR DRUM	STELLIFER LANCEOLATUS
876214050100	NORTHERN LAMPFISH	STENOBRACHIUS LEUCOPSARUS
883543010200	LONGSPINE PORGY	STENOTOMUS CAPRINUS
883543010100	SCUP	STENOTOMUS CHRYSOPS
883502290100	GIANT SEA BASS	STEREOLEPIS GIGAS
884212130100	ARCTIC SHANNY	STICHAEUS PUNCTATUS
883520040200	SAUGER	STIZOSTEDION CANADENSE
883520040100	WALLEYE	STIZOSTEDION VITREUM
880302020100	ATLANTIC NEEDLEFISH	STRONGYLURA MARINA
880302020200	REDFIN NEEDLEFISH	STRONGYLURA NOTATA
880302020400	CALIFORNIA NEEDLEFISH	STRONGYLURA EXILIS
880302020300	TIMUCU	STRONGYLURA TIMUCU
879201280100	BLACK BROTULA	STYGNOBROTULA LATEBRICOLA
881601010100	TUBE-EYE	STYLEPHORUS CHORDATUS
885703130100	SHOAL FLOUNDER	SYACIUM GUNTERI
885703130200	CHANNEL FLOUNDER	SYACIUM MICRURUM
885703130300	DUSKY FLOUNDER	SYACIUM PAPILLOSUM
885802010200	OFFSHORE TONGUEFISH	SYMPHURUS CIVITATUS
885802010300	SPOTTEDFIN TONGUEFISH	SYMPHURUS DIOMEDIANUS
885802010500	LARGESCALE TONGUEFISH	SYMPHURUS MINOR
885802010600	PYGMY TONGUEFISH	SYMPHURUS PARVUS
885802010700	DEEPWATER TONGUEFISH	SYMPHURUS PIGER
885802010100	BLACKCHEEK TONGUE	SYMPHURUS PLAGIUSA
885802010900	NORTHERN TONGUEFISH	SYMPHURUS PUSILLUS
885802011000	SPOTTAIL TONGUEFISH	SYMPHURUS UROSPILUS
883102360100	MANACLED SCULPIN	SYNCHIRUS GILLI
882002011000	BARRED PIPEFISH	SYNGNATHUS AULISCUS
882002011100	KELP PIPEFISH	SYNGNATHUS CALIFORNIENSIS
882002010200	DUSKY PIPEFISH	SYNGATHUS FLORIDAE
882002010300	NORTHERN PIPEFISH	SYNGNATHUS FUSCUS
882002010100	BAY PIPEFISH	SYNGNATHUS LEPTORHYNCHUS
882002011300	GULF PIPEFISH	SYNGNATHUS SCOVELLI
876202010100	INSHORE LIZARDFISH	SYNODUS FOETENS
876202010200	SAND DIVER	SYNODUS INTERMEDIUS
876202010300	CALIFORNIA LIZARDFISH	SYNODUS LUCIOCEPS
876202010400	OFFSHORE LIZARDFISH	SYNODUS POEYI
876202010600	RED LIZARDFISH	SYNODUS SYNODUS

875904030100	LONGFIN DRAGONFISH	TACTOSTOMA MACROPUS
883571040100	BIGSCALE POMFRET	TARATICHTHYS LONGIPINNIS
876214070100	BLUE LANTERNFISH	TARLETONBEANIA CRENULARIS
883901010100	TAUTOG	TAUTOGA ONITIS
883901020100	CUNNER	TAUTOGOLABRUS ADSPERSUS
885104010200	BIGEYE SQUARETAIL	TETRAGONURUS ATLANTICUS
885104010100	SMALLEYE SQUARETAIL	TETRAGONURUS CUVIERI
885006030100	WHITE MARLIN	TETRAPTURUS ALBIDUS
885006030500	SHORTBILL SPEARFISH	TETRAPTURUS ANGUSTIROSTRIS
885006030400	LONGBILL SPEARFISH	TETRAPTURUS PFLEUGERI
883901100100	BLUEHEAD	THALASSOMA BIFASCIATUM
875503050100	EULACHON	THALEICHTHYS PACIFICUS
879103070100	WALLEYE POLLOCK	THERAGRA CHALCOGRAMMA
885003040100	ALBACORE	THUNNUS ALALUNGA
885003040300	YELLOWFIN TUNA	THUNNUS ALBACARES
885003040400	BLACKFIN TUNA	THUNNUS ATLANTICUS
885003040500	BIGEYE TUNA	THUNNUS OBESUS
885003040200	BLUEFIN TUNA	THUNNUS THYNNUS
871303010100	PACIFIC ELECTRIC RAY	TORPEDO CALIFORNICA
871303010200	ATLANTIC TORPEDO	TORPEDO NOBILIANA
876202040100	SNAKEFISH	TRACHINOCEPHALUS MYOPS
883528090100	FLORIDA POMPANO	TRACHINOTUS CAROLINUS
883528090200	PERMIT	TRACHINOTUS FALCATUS
883528090300	PALOMETA	TRACHINOTUS GOODEI
883528090700	PALOMA POMPANO	TRACHINOTUS PAITENSIS
883528090800	GAFFTOPSAIL POMPANO	TRACHINOTUS RHODOPUS
881502010100	KING-OF-THE-SALMON	TRACHIPTERUS ALTIVELIS
881502010200	DEALFISH	TRACHIPTERUS ARCTICUS
881502010300	TAPERTAIL RIBBONFISH	TRACHIPTERUS FUKUZAKI
881502010300	TAPERTAIL RIBBONFISH	TRACHIPTERUS FUKUZAKII
883528010200	ROUGH SCAD	TRACHURUS LATHAMI
883528010100	JACK MACKEREL	TRACHURUS SYMMETRICUS
870802090200	LEOPARD SHARK	TRIAKIS SEMIFASCIATA
885002020100	ATLANTIC CUTLASSFISH	TRICHIURUS LEPTURUS
885002020200	PACIFIC CUTLASSFISH	TRICHIURUS NITENS
884001020100	PACIFIC SANDFISH	TRICHODON TRICHODON
885703140400	SASH FLOUNDER	TRICHOPSETTA VENTRALIS
884701300100	CHAMELEON GOBY	TRIDENTIGER TRIGONOCEPHALUS
883102380100	SCISSORTAIL SCULPIN	TRIGLOPS FORFICATUS
883102380300	ROUGHSPINE SCULPIN	TRIGLOPS MACELLUS
883102380700	MOUSTACHE SCULPIN	TRIGLOPS MURRAYI
883102380800	BIGEYE SCULPIN	TRIGLOPS NYBELINI
883102380500	RIBBED SCULPIN	TRIGLOPS PINGELI
883102380500	RIBBED SCULPIN	TRIGLOPS PINGELI
883102380600	SPECTACLED SCULPIN	TRIGLOPS SCEPTICUS
885801020100	SCRAWLED SOLE	TRINECTES INSCRIPTUS
885801010100	HOGCHOKER	TRINECTES MACULATUS
876214240100	MEXICAN LAMPFISH	TRIPHOTURUS MEXICANUS
880302030100	AGUJON	TYLOSURUS ACUS
880302030200	HOUNDFISH	TYLOSURUS CROCODILUS
884701310100	BLIND GOBY	TYPHLOGOBIUS CALIFORNIENSIS
884212210100	RADIATED SHANNY	ULVARIA SUBBIFURCATA
884213040100	KELP GUNNEL	ULVICOLA SANTAEROSAE
883544110100	SAND DRUM	UMBRINA COROIDES
883544110500	YELLOWFIN CROAKER	UMBRINA RONCADOR
883545040200	DWARF GOATFISH	UPENEUS PARVUS
883528170100	COTTONMOUTH JACK	URASPIS SECUNDA
871305030200	ROUND STINGRAY	UROLOPHUS HALLERI
871305030100	YELLOW STINGRAY	UROLOPHUS JAMAICENSIS
879103160100	LONGFIN HAKE	UROPHYCIS CHESTERI
879103100100	RED HAKE	UROPHYCIS CHUSS
879103100500	GULF HAKE	UROPHYCIS CIRRATA
879103100600	CAROLINA HAKE	UROPHYCIS EARLLI
879103100700	SOUTHERN HAKE	UROPHYCIS FLORIDANA

879103100200	SPOTTED HAKE	UROPHYCIS REGIA
879103100300	WHITE HAKE	UROPHYCIS TENUIS
874105070200	MARBLED MORAY	UROPTERYGIUS MACULARIUS
886002080100	SARGASSUM TRIGGERFISH	XANTHICHTHYS RINGENS
883108130100	BLACKTIP POACHER	XENERETMUS LATIFRONS
883108130200	BLUESPOTTED POACHERH	XENERETMUS TRIACANTHUS
883540100100	SALEMA	XENISTIUS CALIFORNIENSIS
885004010100	SWORDFISH	XIPHIAS GLADIUS
884212140100	BLACK PRICKLEBACK	XIPHISTER ATROPURPUREUS
884212140200	ROCK PRICKLEBACK	XIPHISTER MUCOSUS
885703150100	FANTAIL SOLE	XYSTREURYS LIOLEPIS
883560110100	PINK SEAPERCH	ZALEMBIUS ROSACEUS
878704040100	TRICORN BATFISH	ZALIEUTES MCGINTYI
882701040200	SHORTSPINE COMBFISHH	ZANIOLEPIS FRENATA
882701040100	LONGSPINE COMBFISH	ZANIOLEPIS LATIPINNIS
884215010100	PROWFISH	ZAPRORA SILENUS
871302030100	BANDED GUITARFISH	ZAPTERYX EXASPERATA
881103020100	BUCKLER DORY	ZENOPSIS CONCHIFERA
881502030100	SCALLOPED RIBBONFISH	ZU CRISTATUS

APPENDIX C

Misc. ODES Dictionaries

Location

A = Stream
B = Estuary
C = Lake
D = Ocean
E = Well
F = Other

QA Sample Number Prefix

F = Field blank
L = Lab blank
T = Transport blank
S = Spiked matrix sample
U = Surrogated spiked sample
D = Lab blank duplicate
A = Lab blank split
C = Certified reference sample

C/S (Level of Information)

C = Composite
S = Specimen

Gear Code

01 = NET(PLANKTON,TRUMMEL,BONGO,ETC.)
02 = SEINE(BEACH,PURSE,ETC.)
03 = TRAWL(OTTER,BEAM,EASTERN,ETC.)
04 = HOOK AND LINE
05 = BOTTLE(NISKEN,ROSETTE,VAN DORN,ETC.)
06 = GRAB(VAN VEEN SMITH-MCINTYRE,ETC.)
07 = CORE (POSITION,GRAVITY,BOX,ETC.)
08 = DREDGE(CLAM,PIPE,ANCHOR,ETC.)
09 = PUMP(PLANKTON,MIDWATER,AIRLIFT,ETC.)
10 = AUTOMATIC COMPOSITE SAMPLER
11 = ELECTROSHOCKING
12 = POISONS
99 = MISCELLANEOUS(HAND-GATHERED,TRAPS,SHOVEL,ETC.)

Sex Code

0 = INDETERMINABLE
1 = MALE
2 = FEMALE
3 = HERMAPHRODITE
4 = TRANSITIONAL
5 = GROUPED, BOTH SEXES PRESENT
6 = HERMAPHRODITIC, FUNCTIONAL FEMALE
7 = HERMAPHRODITIC, FUNCTIONAL MALE

Life Stage

```
0  =  INDETERMINABLE
1  =  EGG
2  =  NAUPLIUS
3  =  ZOEA
4  =  MEGALOPA
5  =  VELIGER
6  =  LARVA
7  =  JUVENILE
8  =  ADULT
9  =  COMBINATION OF 6,7 AND 8
A  =  COMBINATION OF 7 AND 8
B  =  COMBINATION OF 6 AND 7
C  =  JUVENILE/ADULT-SEXUAL MATURITY UNKNOWN
D  =  POLYP
E  =  CYPRIS
F  =  COPEPODID
G  =  PUPA
H  =  NYMPH
I  =  POSTLARVA
J  =  PROTOZOEA
K  =  MEDUSA
L  =  EGG CARRYING FEMALE
M  =  EGG CASE
P  =  PARTS
Q  =  IMMATURE
R  =  SUBADULT
S  =  TROCHOPHORE LARVAE
T  =  SUBADULTS AND JUVENILES
U  =  MATING PAIRS
V  =  MYSIS
W  =  COLONY
X  =  CYPHONAUTES LARVE
Y  =  GLAUCOTHOE
Z  =  YOLK SAC LARVAE
```

Measurement Basis

```
W  =  Wet Weight
D  =  Dry Weight
```

Organ or Tissue Code

```
01  =  MUSCLE
02  =  LIVER
03  =  DIGESTIVE GLAND
04  =  GONAD
05  =  GILLS
06  =  KIDNEY
07  =  SPLEEN
08  =  HEART
09  =  BRAIN
10  =  BLOOD
11  =  STOMACH CONTENTS
12  =  TOP 1 1/2" OF SEDIMENT CORE
13  =  MIDDLE 1 1/2" OF SEDIMENT CORE
14  =  REMAINDER OF SEDIMENT CORE
15  =  WHOLE ORGANISM
16  =  WATER
17  =  PARTICULATE MATTER
18  =  INTERNAL ORGANS
19  =  SOFT PARTS
20  =  ARM
21  =  BODY
22  =  BODY WALL
23  =  EGGS
24  =  FOOT
25  =  BLADE
26  =  SPOROPHYLL
27  =  STALK MUSCLE
28  =  ABDOMEN
29  =  TAIL MUSCLE
30  =  WHOLE ORGANISM(LESS SHELL)
31  =  SURFICIAL SEDIMENT
32  =  UNDIFFERENTIATED SEDIMENT
33  =  ZOOPLANKTON
34  =  UNDIFFERENTIATED PLANKTON
35  =  PHYTOPLANKTON
36  =  SEDIMENT EXTRACTS
37  =  ORCHARD LEAVES(N.B.S. STANDARD)
38  =  BOVINE LIVER(N.B.S. STANDARD)
40  =  SEDIMENT CORE
51  =  ALIPHATIC FRACTION (F1)
52  =  AROMATIC FRACTION (F2)
53  =  ASPHALTINE FRACTION (F3)
54  =  ALIPHATIC PLUS AROMATIC FRACTIONS (F1+F2)
55  =  ALIPHATIC PLUS ASPHALTINE FRACTIONS (F1+F3)
56  =  AROMATIC PLUS ASPHALTINE FRACTIONS (F2+F3)
57  =  ALIPHATIC PLUS AROMATIC PLUS ASPHALTINE FRACTIONS (F1+F2+F3)
58  =  HEPATOPANCREAS
```

Length_Code

```
1  = TIP OF SNOUT TO FORK OF TAIL
2  = MIDEYE TO FORK OF TAIL
3  = TIP OF SNOUT TO HYPURAL PLATE
4  = MIDEYE TO HYPURAL PLATE
5  = TOTAL LENGTH (EXTREMITY TO EXTREMITY)
6  = SNOUT TO SECOND DORSAL (RATFISH...)
7  = ESTIMATED TOTAL LENGTH PART OF CAUDAL MISSING
8  = APERTURE LENGTH
9  = RADIUS
A  = REGULAR DIAMETER
B  = LENGTH OF CARAPACE (BACK OF RIGHT EYE SOCKET TO TIP OF CARAPACE)
C  = WIDTH OF CARAPACE (WIDEST POINT EXCLUDING SPINES)
D  = METASOME LENGTH (BOARD STANDARD LENGTH)
E  = WIDTH OF CARAPACE (WIDEST POINT INCLUDING SPINES)
```

Unit Code

```
A  =   Weight/Volume, ppm (e.g. ug/ml)
B  =   Weight/Weight, ppm (e.g. ug/g)
C  =   Volume/Weight, ppt (e.g., ul/g)
D  =   Volume/Volume, ppm (e.g. ul/l)
E  =   Activity/Volume (i.e. uCi/l)
F  =   Activity/Weight (i.e. uCi/g)
G  =   mg/sq. m
H  =   mV
I  =   Percent Dry Weight
J  =   Weight/Weight, ppb (e.g. ng/g)
K  =   Weight/Volume, ppb (e.g. ug/l)
N  =   Positive ratio or pure number
O  =   mEQ/100g
P  =   Standard pH units
Q  =   Length(e.g. millimeters)
R  =   Million fibers/gram(mfg)
S  =   Million fibers/liter(mfl)
T  =   Volume/Volume (e.g. milliliters/liter)
U  =   Weight/weight, pptr (e.g. picograms/gram)
V  =   Weight/weight, ppt, (e.g. milligrams/gram)
W  =   Deg. Celsius
X  =   Activity/volume (i.e. picocuries/liter)
Y  =   Micromoles
```

Qualifier Code

```
AH= BACTERIAL COLONY COUNTS ABOVE THE ACCEPTABLE RANGE
B = CORRECTED FOR "BLANK" CONTRIBUTIONS DOWN TO DETECTION LIMIT
C = VALUE INCLUDED IN TOTAL FOR DEFINED COMB OF URESOLVED SUBS
D = VALUE REPORTED ATTRIBUTABLE TO LAB CONTAMINATION
E = ESTIMATED VALUE
G = ESTIMATED VALUE GREATER THAN MINIMUM SHOWN
I = INTERFERENCE OBSERVED IN GS/MS ANALYSIS
K = DETECTED NOT QUANTIFIED. VALUE IS DETECTION LIMIT.
L = VALUE IS LESS THAN THE MAXIMUM SHOWN
M = VALUE IS MEAN
N = REPORTED VALUE IS NOT CORRECTED FOR ANALYTICAL BLANK
P = DETECTED NOT QUANTIFIED
Q = QUESTIONABLE DATA
S = SPIKED COMPOUND
T = DETECTED AT LESS THAN QUANTIFICATION LIMIT. VALUE IS QUANT LIMIT
U = SUBSTANCE UNDETECTED AT METHOD DETECTION LIMIT SHOWN
V = BACTERIAL COLONY COUNTS BELOW THE ACCEPTABLE RANGE
W = BACTERIAL COLONY COUNTS WITHIN THE ACCEPTABLE RANGE
X = VALUE REPORTED IS MASS RECOVERED (WEIGHT)
Z = VALUE CORRECTED FOR "BLANK" CONTRIBUTIONS
```

Method/Clean-up/Instrument Codes

```
01 = ALPHA SPECTROMETRY
02 = POLAROGRAPHY
03 = CANDLE/GRAVIMETRY
04 = CANDLE/TITRATION
05 = ATOMIC ABSORPTION SPECTROMETRY
06 = TRASMISSION ELECTRON MICROSCOPY (TEM)
07 = AUTOANALYZER
08 = PLATE/GRAVIMETRY
09 = PLATE/REFLECTANCE
10 = GEL CHROMATOGRAPHY
11 = BIOASSAY
12 = DISTILLATION
13 = HEATED PURGE AND TRAP
14 = CHEMICAL OXIDATION
15 = CHEMILUMINESCENCE
16 = VISUAL
17 = COLUMN CHROMATOGRAPHY
18 = CALCULATED
19 = GAS CHROMATOGRAPHY
20 = ACID DIGESTION/DISTILLATION
21 = ACID DIGESTION/GRAVIMETRY
22 = LIQUID SCINTILLATION CHROMATOGRAPHY
23 = THIN LAYER CHROMATOGRAPHY
24 = CRYSTAL SCINTILLATION COUNTER
25 = COLORIMETRY
26 = CONDUCTIVITY
27 = COULOMETRY
28 = GLASS CAPILLARY/GAS CHROMATOGRAPHY
29 = DRY COMBUSTION/GAS DISPLACEMENT
30 = DRY COMBUSTION/GRAVIMETRY
31 = DRY COMBUSTION/INFRARED SPECTROMETRY
32 = DRY COMBUSTION/THERMAL CONDUCTIVITY SENSOR
33 = EDTA TITRATION
```

Method/Clean-up/Instrument Codes (cont.)

```
34  =  ALCOHOL TITRATION
35  =  SEPARATION
36  =  SETTLING/WEIGHING
37  =  ELECTROPHORESIS
38  =  NEUTRON ACTIVATION ANALYSIS
39  =  ESTIMATE
40  =  EXTRACTION/WEIGHT
41  =  FLAME SPECTROMETRY
42  =  FLAME PHOTOMETRY
43  =  FLUOROMETRY
44  =  DISPLACEMENT
45  =  GAMMA RAY SPECTROMETRY
46  =  EMISSION SPECTROMETRY
47  =  GAS CHROMATOGRAPHY/ELETRON CAPTURE
48  =  ANODIC STRIPPING VOLTOMETRY
49  =  GAS CHROMATOGRAPHY/FLAME SPECTROMETRY
50  =  GAS CHROMATOGRAPHY/MASS SPECTROMETRY
51  =  GAS CHROMATOGRAPHY/IONIZATION
52  =  ACID DIGESTION/TITRATION
53  =  X-RAY SPECTROMETRY
54  =  FILTRATION
55  =  GAS DISPLACEMENT
56  =  MANOMETRY
57  =  GRAVIMETRY
58  =  MEMBRANE FILTRATION
59  =  INFRARED SPECTROMETRY
60  =  LIQUID SCINTILLATION UNILUXI
61  =  SCINTILLATION COUNTER
62  =  LIQUID SCINTILLATION COUNTER
63  =  MASS SPECTROMETRY
64  =  MICROSCOPE
65  =  NEPHELOMETRY
66  =  PROPORTIONAL COUNTER
67  =  PETROGRAPHIC MICROSCOPE
68  =  DOBSON TECHNIQUE
69  =  EH METER
70  =  PH PAPER
71  =  SPECIFIC ION ELECTRODE
72  =  PH METER
73  =  SPECTROPHOTOMETRY
74  =  PLATE/SPECTROPHOTOMETRY
75  =  TITRATION
78  =  SOAP TEST
79  =  WET COMBUSTION/GAS DISPLACEMENT
81  =  WET COMBUSTION/INFRARED SPECTROMETRY
82  =  WET COMBUSTION/SPECTROPHOTOMETRY
83  =  WET COMBUSTION/TITRATION
84  =  WET OXIDATION/COLORIMETRY
85  =  X-RAY FLUORESCENCE
86  =  X-RAY DIFFRACTION
87  =  MULTISPECTRAL SCANNER
88  =  DIGESTION
89  =  DIFFERENCE BETWEEN DRY AND ASH WEIGHT
90  =  ASH WEIGHT
92  =  DRY WEIGHT
93  =  MACROBOMB CALORIMETRY
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Method/Clean-up/Instrument Codes (cont.)

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94  =  PLANCHET GAS FLOW COUNTERH
95  =  MICROBOMB CALORIMETRY
96  =  OZONESONDE
97  =  UV SPECTROMETRY
98  =  ELECTRODEPOSITION
99  =  ELECTROLIC ENRICHMENT/PROPORTIONAL COUNTER
A1  =  GAS CHROMATOGRAPHY/FLAME SPECTROMETRY
A2  =  GAS CHROMATOGRAPHY/NITROGEN-PHOSPHORUS DETECTION
A3  =  GAS CHROMATOGRAPHY/THERMAL CONDUCTIVITY
A4  =  HIGH PRESSURE LIQUID CHROMATOGRAPHY
A5  =  LIQUID CHROMATOGRAPHY/MASS SPECTROMETRY
A6  =  ACID DIGESTION/COLORIMETRY
A7  =  MERCURIC NITRATE TITRATION
A8  =  TURBIDITY/SPECTROPHOTOMETRY
A9  =  FLAMELESS ATOMIC ABSORPTION SPECTROMETRY
B1  =  COLD VAPOR ATOMIC ABSORPTION SPECTROMETRY
B2  =  SOLVENT EXTRACTION
B3  =  ACID BACK-EXTRACTION FROM SOLVENT MATRIX
B4  =  ACID DIGESTION
B5  =  DRY ASHING
B6  =  CO-PRECIPITATION
B7  =  ALCOHOL REFLUX
B8  =  ATOMIC ABSORPTION-GASEOUS HYDRIDE GENERATION
B9  =  LOW BACKGROUND BETA COUNTER
C1  =  ATOMIC ABSORPTION-HEATED GRAPHITE FURNACE
C2  =  ICP-INDUCTIVELY COUPLED PLASMA EMISSION SPECTROPHOTOMETRY
C3  =  AMPERIMETRIC TITRATION(CHLORINE RESIDUAL ANALYSIS)
C4  =  PURGE AND TRAP
C5  =  GAS CHROMATOGRAPHY WITH HA ELECTROLYTE CONDUCTIVITY DETECTION
C6  =  DILUTE ACID EXTRACTION
C7  =  PURGE AND TRAP WITH CRYOGENIC FOCUS
C8  =  SONIC EXTRACTION
C9  =  FLUORISIL COLUMN CHROMATOGRAPHY
D1  =  ALUMINA COLUMN CHROMATOGRAPHY
D2  =  INDUCTIVELY COUPLED PLASMA/MASS SPECTROMETRY (ICP/MS)
D3  =  STALLING'S METHOD (EXTRACTION/CLEAN-UP FOR DIOXIN)
D4  =  HIGH RESOLUTION GC/LOW RESOLUTION MS (HRGC/LRMS)
D5  =  CHELATION/SOLVENT EXTRATIONS
D6  =  DISSOLVED OXYGEN PROBE
D7  =  NITRIFICIATION INHIBITION
D8  =  SILICA COLUMN CHROMATOGRAPHY
D9  =  SULFUR CLEANUP (EPA 3660)
```

ODES123:
Appendix D
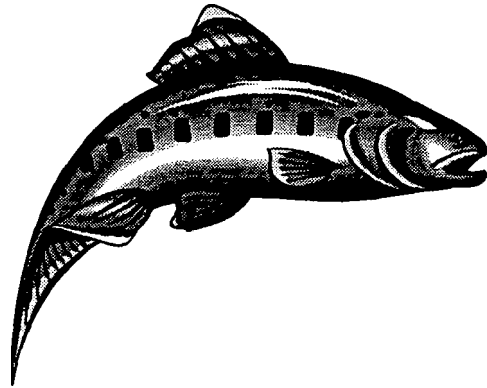
Data Questionnaire
& Sample Abstract

APPENDIX D

QUESTIONS TO BE CONSIDERED WHEN PREPARING AN ODES ABSTRACT

Because of the many types and sources of data that may be added to ODES, it is of great value for users to know the goals and techniques of each sampling program. Much of this information, so valuable for interpretation of data, is not inherent in the data; it can only be supplied in narrative form. Each data submitter is therefore requested to provide a descriptive overview of the sampling program. The following questions are intended to indicate the important issues which affect a data set's use and its comparability to other data sets. You should use the following set of questions as a guide to the type of information to include in your abstract. The information supplied in your abstract will help all ODES users choose data appropriate for their purposes.

State or Federal Agency:_____

Please give the name of an individual who can be contacted for additional information concerning this data set:

_____ (name)

_____ (organization)

_____ (address)

_____

Phone: (   ) _____ - _____

1.   Please describe the goals of the sampling program.

2.   Please describe the distribution of the sampling stations throughout the water body sampled. If stations were selected in order to characterize some particular feature (e.g., a chemical spill), please identify this feature and present the rationale for the placement of stations in relation to this feature.

3.   Please describe the gear, any special features of its application and techniques used for sample collection.

4.   How were samples collected and handled during transportation? How were samples stored?

5. What tissues were analyzed?

6. Please provide the following information on analytical techniques for each class of chemical compounds.

| | | Container | | | | | Detection |
Analyte	Sample Size	Type and Preparation	Sample Preservation	Holding Time Range	Method	Instrumentation	Limits

7. Please provide the following information on the frequency of laboratory quality control checks and provide a copy of the results of any such analyses.

| | No. of | No. of | No. of | Matrix Spike | | Analytical Standards | |
Analyte	Samples	Duplicates	Blanks	# Material Used	Amt.	# Material Used	

8. If results submitted to ODES have been corrected for blanks or recovery response, please describe the manner in which this has been done.

9. Please describe any feature of this data set which may affect its use to generally characterize environmental data.

10. Please describe the quality assurance/quality control procedures used to verify the correct coding and entry of data.

11. If any other types of data were collected concurrently which have been or will be added to ODES, please indicate the appropriate ODES file type(s).

12. In what report or document can the raw data be found? How could an individual obtain a copy of the raw data?

SAMPLE ABSTRACT

CONTACT: RUSSEL W. KIESLING, RESEARCH ADMINISTRATOR
          GALVESTON BAY NATIONAL ESTUARY PROGRAM
          UNIVERSITY OF HOUSTON - CLEAR LAKE
          2700 BAY AREA BLVD., BOX 164
          HOUSTON, TX 77508
          PHONE: (713) 332-9957

PROGRAM: National Estuary Program   *NOTE: Use Program: National Fish Tissue Data Repository*
FILE TYPE: Bioaccumulation   *NOTE: Also enter Bioaccumulation*
NUMBER OF STATIONS SAMPLED: 4
SAMPLING PERIOD: Summer (July-September) 1990
SPECIES COLLECTED: Southern flounder (Paralichthys lethostigma), black drum (Pogonius cromis), redfish (Sciaenops ocellata), speckled trout (Cynoscion nebulosus), hardhead catfish (Arius felis), croaker (Micropogonius undulatus), jackfish (Caranx hippos), mullet (Mugil cephalus), gafftop sail catfish (Bagre marinus), sheepshead (Archosargus probatocephalus), and shark (Lamniformes)
NUMBER OF VARIABLES MEASURED: 104 (46 aromatic hydrocarbons, 48 pesticides and PCBs, and 10 trace metals)
SAMPLING EQUIPMENT USED: Gill nets (100-600 ft long, 6 ft deep, with 1, 2, or 3 inch square mesh) and hook-and-line
ANALYTICAL TECHNIQUES: Aromatic hydrocarbons by gas chromatography/mass spectrometry (GC/MS)-selective ion monitoring mode (SIM) after silica gel/alumina column and HPLC purification; pesticides and PCBs by gas chromatography/electron capture detection (GC/ECD) after silica gel/alumina column and HPLC purification; mercury by cold vapor atomic absorption spectrometry (CVAAS); other trace metals by flame or graphite furnace atomic absorption spectrometry (FAAS or GFAAS).

DATA SET VERIFIED BY SUBMITTER

GENERAL COMMENTS
    Galveston Bay is one of the largest estuaries in the United States and the largest in Texas. Its 600 square miles of shallow, low salinity water provide highly productive habitat for fish, crab, oysters, and shrimp. This study was initiated to provide information on the concentrations of heavy metals and organic priority pollutants in edible fish and shellfish from Galveston Bay. The data were used to assess potential risks to human health posed by the consumption of seafood organisms from Galveston Bay.

Southern flounder (Paralichthys lethostigma), black drum (Pogonius cromis), redfish (Sciaenops ocellata), speckled trout (Cynoscion nebulosus), hardhead catfish, croaker, jackfish, mullet, gafftop sail catfish, sheepshead, and shark were collected by gill netting or hook-and-line from four sites in Galveston Bay on 30 July-3 August and 4 September 1990. The four sites were Morgans Point, at the mouth of Galveston Ship Channel, Eagle Point, off of San Leon, Carancahua Reef, in the West Bay, and Hanna Reef, in the East Bay. Because of an oil spill near the Eagle Point site, only ten of the desired thirty fish could be collected during the first cruise. An additional cruise in September was necessary to collect a sufficient number of fish at this site. For collection purposes, a site was considered to be a circle with a radius of 1.5 miles around a central location.

All stations are assigned an ODES station code for use in all the ODES tools. The ODES station codes for Galveston Bay consist of the prefix GBE followed by a four-character identifier. The following table gives the ODES station codes for the bioaccumulation stations sampled in the Galveston Bay monitoring program.

Original Station Code	ODES Station Code	Location
HR	GBEHR01	Hanna Reef
CR	GBECR01	Carancahua Reef
MP	GBEMP01	Morgans Point
EP	GBEEP01	Eagle Point

Data were checked for proper formats and were screened for improbable values. An abbreviated technical review of results was performed. Bioaccumulation data from shellfish collected in a previous sampling effort have also been submitted to ODES under reference ID 144BGB9002.

FIELD AND LABORATORY TECHNIQUES

Fish were collected from small boats at four different sites in Galveston Bay. Only individuals of legal market size were collected and analyzed. All fish were collected using a gill net, with the exception of the September sampling at Eagle Point, which utilized hook-and-line fishing. Thirty fish were collected from each station, except at Carancahua Reef, from which only twenty-seven fish were collected.

As the fish were removed from the gill net they were placed in an ice chest until they could be field processed. Ice chests were scrubbed with detergent and then rinsed with tap water. After completing a gill net set the fish were weighed, measured for length, and inspected for lesions or deformities. The gall bladder and liver were then removed. The remaining fish tissue, gall bladder, and liver were packaged separately and placed in an ice chest. The fish tissue was wrapped in clean, combusted, heavy duty aluminum foil with the tissue towards the dull side of the foil. The foil was taped down with fiber tape and labelled with the collection site, date of collection, and species information on the foil. Only one fish was wrapped in each foil sheet.

After field processing the samples were immediately stored on ice in the field until the day's sampling was complete. The samples were then taken to an electric freezer and stored frozen until the entire freezer was transported back to the lab for further processing. All further sample processing was performed in the laboratory under clean room conditions.

In the laboratory, fillets of muscle tissue were taken from each fish. Composites of liver tissue were created from one to three fish (generally two) of a given species at each station. A "composite" of liver from one fish was necessary when only one fish of a given species was collected at a site. From twelve to fourteen liver composites were created from fish at each site. Each muscle or liver sample was homogenized, acidified, and purified. The extract was first purified to remove matrix interferences using a silica gel/alumina column and further purified by HPLC. Muscle tissue from each individual specimen was analyzed separately. The table below gives the fish species analyzed at each site.

HANNA REEF		EAGLE POINT	
Species	Number	Species	Number
Southern flounder	10	Southern flounder	6
Black drum	4	Black drum	8
Redfish	4	Redfish	3
Speckled trout	10	Speckled trout	6
Croaker	2	Sheepshead	3
		Hardhead catfish	3
		Jackfish	1

MORGANS POINT		CARANCAHUA REEF	
Species	Number	Species	Number
Southern flounder	3	Southern flounder	10
Black drum	6	Black drum	4
Redfish	8	Redfish	7
Hardhead catfish	11	Hardhead catfish	3
Mullet	2	Shark	1
		Sheepshead	1
		Gafftop sail catfish	1

Aromatic hydrocarbons were determined by gas chromatography/mass spectrometry (GC/MS)-selective ion monitoring mode (SIM). Pesticides and PCBs were determined by gas chromatography/electron capture detection (GC/ECD). Mercury was determined by cold vapor atomic absorption spectrometry (CVAAS), while the other trace metals were determined by flame or graphite furnace atomic absorption spectrometry (FAAS or GFAAS).

A full suite of QA/QC procedures were performed, including continuing calibration checks of the analytical equipment, method blank analyses, surrogate compound analyses, matrix spike analyses, and standard reference material analyses, when available. None of the results of these analyses were reported to ODES. Only the results of the surrogate compound analyses for aromatic hydrocarbons were available for review. The recoveries of the surrogate compounds (Naphthalene-d8, Acenaphthene-d10, Phenanthrene-d10, Chrysene-d10, and Perylene-d12) were generally acceptable (greater than 30 percent) with the exception of one speckled trout from Eagle Point (Sample H61, Specimen 50) which had recoveries less than 10 percent for all surrogate compounds. The sample aromatic hydrocarbon concentrations may be underestimates for this specimen.

DATA USE AND COMPARABILITY

Muscle samples from each individual fish were analyzed separately and data were reported in ppb on a dry weight basis. Data from the liver composites were also reported in ppb on a dry weight basis. Compounds not detected above the method detection limit (MDL) for the respective compound were reported with a zero concentration. The detection limits for the organic compounds based on a 1 gram sample ranged from 3 to 18 ppb for aromatic compounds and 0.5 to 6 ppb for pesticides and PCBs.

Since the majority of the QA/QC analyses performed were unavailable for review, it is not possible to determine the accuracy of the sample analyses. In light of this omission, these data should be used with caution.

Just prior to the July sampling effort, there was an oil spill at Apex Barge, near the Eagle Point site. Liver composites and some fish muscle tissue from fish collected at Eagle Point at this time showed elevated concentrations of alkylated PAHs. Alkylated PAHs are typically associated with petroleum products. Caution should be used when extrapolating PAH data from this site to PAH data from other sites which were relatively unaffected by the oil spill.

Only three species (southern flounder, black drum, and redfish) were collected at a Bioaccumulation data from these three species only should be used for analysis of inter-station variability among all sites. Comparisons between pairs of stations are possible for several other species. Given the above caveat, significant differences among individual stations may be detected using parametric or nonparametric tests, because of the multiple analyses performed for most species at a given station.